0096293

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

RECEIVED
MAY 16 2011
EDMC

COMMENTS:

SDG JP0171 SAF-RC-107

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site: 600-151 Verification Sampling

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 44 *Pages*

Report No.: 46459

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.
JP0171	RC-107	J1HK23	J1D270569-1	MHKQE1AA	9MHKQE10	1118340
		J1HK24	J1D270569-2	MHKQQ1AA	9MHKQQ10	1118340
		J1HK25	J1D270569-3	MHKQR1AA	9MHKQR10	1118340
		J1HK26	J1D270569-4	MHKQT1AA	9MHKQT10	1118340
		J1HK27	J1D270569-5	MHKQ11AA	9MHKQ110	1118340
		J1HK28	J1D270569-6	MHKQ41AA	9MHKQ410	1118340
		J1HK29	J1D270569-7	MHKQ71AA	9MHKQ710	1118340
		J1HK30	J1D270569-8	MHKQ91AA	9MHKQ910	1118340
		J1HK31	J1D270569-9	MHKRL1AA	9MHKRL10	1118340
		J1HK32	J1D270569-10	MHKRN1AA	9MHKRN10	1118340
	RC-107	J1HK33	J1D270569-11	MHKKR1AA	9MHKR210	1118340
		J1HK34	J1D270569-12	MHKR91AA	9MHKR910	1118340
		J1HK35	J1D270569-13	MHKTJ1AA	9MHKTJ10	1118340
		J1HK36	J1D270569-14	MHKTW1AA	9MHKTW10	1118340
		J1HK37	J1D270569-15	MHKT21AA	9MHKT210	1118340
		J1HK38	J1D270569-16	MHKTE1AA	9MHKTE10	1118340
		J1HK39	J1D270569-17	MHKVL1AA	9MHKVL10	1118340
		J1HK40	J1D270569-18	MHKVV1AA	9MHKVV10	1118340
		J1HK41	J1D270569-19	MHKV31AA	9MHKV310	1118340

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

TestAmerica Laboratories, Inc.

Washington Hanford Closure
2620 Fermi Avenue
Richland, WA 99354

May 4, 2011

Attention: Joan Kessner

SAF Number	:	RC-107
Date SDG Closed	:	April 27, 2011
Number of Samples	:	Nineteen (19)
Sample Type	:	Soil
SDG Number	:	JP0171
Data Deliverable	:	7 Day Summary

CASE NARRATIVE

I. Introduction

On April 27, 2011, nineteen 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
J1HK23	MHKQE	SOIL	4/27/11
J1HK24	MHKQQ	SOIL	4/27/11
J1HK25	MHKQR	SOIL	4/27/11
J1HK26	MHKQT	SOIL	4/27/11
J1HK27	MHKQ1	SOIL	4/27/11
J1HK28	MHKQ4	SOIL	4/27/11
J1HK29	MHKQ7	SOIL	4/27/11
J1HK30	MHKQ9	SOIL	4/27/11
J1HK31	MHKRL	SOIL	4/27/11
J1HK32	MHKRN	SOIL	4/27/11
J1HK33	MHKR2	SOIL	4/27/11
J1HK34	MHKR9	SOIL	4/27/11
J1HK35	MHKTJ	SOIL	4/27/11
J1HK36	MHKTW	SOIL	4/27/11
J1HK37	MHKT2	SOIL	4/27/11
J1HK38	MHKVE	SOIL	4/27/11

J1HK39	MHKVL	SOIL	4/27/11
J1HK40	MHKVV	SOIL	4/27/11
J1HK41	MHKV3	SOIL	4/27/11

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 55.8%. The post digestive matrix spike recovered at 56.9% and the insoluble matrix spike recovered at 84.4%. 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 (J1HK23) and sample matrix spike (J1HK23) results are within contractual requirements.

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

Reviewed and approved:

Whitney Katari
for Rhonda Wagar
Project Manager

Drinking Water Method Cross References

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

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

Uncertainty Estimation

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

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

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

Report Definitions

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

Sample Results Summary

TestAmerica TARL

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

Date: 04-May-11

Report No. : 46459

SDG No: JP0171

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1118340	7196_CR6								
	J1HK23								
	MHKQE1AA	HEXCHROME	1.53E-01 +- 0.0E+00		mg/kg	N/A	1.53E-01	1.55E-01	
	MHKQE1AD	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	3.50E-01	0.7
	J1HK24								
	MHKQQ1AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1HK25								
	MHKQR1AA	HEXCHROME	1.53E-01 +- 0.0E+00	U	mg/kg	N/A	1.53E-01	1.55E-01	
	J1HK26								
	MHKQT1AA	HEXCHROME	1.93E-01 +- 0.0E+00		mg/kg	N/A	1.53E-01	1.55E-01	
	J1HK27								
	MHKQ11AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK28								
	MHKQ41AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK29								
	MHKQ71AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A	1.55E-01	1.55E-01	
	J1HK30								
	MHKQ91AA	HEXCHROME	1.53E-01 +- 0.0E+00	U	mg/kg	N/A	1.53E-01	1.55E-01	
	J1HK31								
	MHKRL1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK32								
	MHKRN1AA	HEXCHROME	1.53E-01 +- 0.0E+00	U	mg/kg	N/A	1.53E-01	1.55E-01	
	J1HK33								
	MHKKR1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01		
	J1HK34								
	MHKR91AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK35								
	MHKTJ1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK36								
	MHKTW1AA	HEXCHROME	1.53E-01 +- 0.0E+00	U	mg/kg	N/A	1.53E-01	1.55E-01	
	J1HK37								
	MHKT21AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK38								
	MHKTE1AA	HEXCHROME	1.53E-01 +- 0.0E+00	U	mg/kg	N/A	1.53E-01		
	J1HK39								
	MHKVL1AA	HEXCHROME	1.54E-01 +- 0.0E+00	U	mg/kg	N/A	1.54E-01	1.55E-01	
	J1HK40								
	MHKVV1AA	HEXCHROME	3.19E-01 +- 0.0E+00		mg/kg	N/A	1.53E-01	1.55E-01	
	J1HK41								
	MHKV31AA	HEXCHROME	1.53E-01 +- 0.0E+00	U	mg/kg	N/A	1.53E-01	1.55E-01	

TestAmerica

rptSTLRchSaSummary2 V5.2.12
A2002

RPD - Relative Percent Difference.

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

Sample Results Summary

TestAmerica TARL

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

Date: 04-May-11

Report No. : 46459

SDG No: JP0171

Batch	Client Id Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	MDC or MDA	CRDL	RPD
1118340	7196_CR6								

No. of Results: 20

TestAmerica RPD - Relative Percent Difference.

rptSTLRchSaSum
mary2 V5.2.12
A2002

QC Results Summary

Date: 04-May-11

TestAmerica TARL

Ordered by Method, Batch No, QC Type,.

Report No. : 46459

SDG No.: JP0171

Batch Work Order	Parameter	Result +- Uncertainty (2s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDC|MDA
7196_CR6								
1118340 MATRIX SPIKE, J1HK23								
MHKQE1AC	HEXCHROME	5.88E+00 +- 0.0E+00		mg/kg	N/A	56%	-0.4	1.54E-01
1118340 LCS,								
MHM061AC	HEXCHROME	1.89E+01 +- 0.0E+00		mg/kg	N/A	95%	-0.1	1.55E-01
1118340 BLANK QC,								
MHM061AA	HEXCHROME	1.55E-01 +- 0.0E+00	U	mg/kg	N/A			1.55E-01

No. of Results: 3

TestAmerica
rptSTLRchQcSummary V5.2.12
A2002

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

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	TestAmerica	**SDG:**	JP0171	**Collection Date:**	4/26/2011 12:25:00 PM
Lot-Sample No.:	J1D270569-1	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK23	**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: 1118340	7196_CR6			**Work Order:** MHKQE1AA			**Report DB ID:** 9MHKQE10					
HEXCHROME	***1.53E-01***			0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	**TestAmerica**	**SDG:**	JP0171	**Collection Date:**	4/26/2011 10:10:00 AM
Lot-Sample No.:	**J1D270569-2**	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	**J1HK24**	**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: 1118340	7196_CR6			**Work Order:**	MHKQQ1AA		**Report DB ID:**	9MHKQQ10				
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	5/2/11 01:00 p		2.5	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	TestAmerica	**SDG:**	JP0171	**Collection Date:**	4/26/2011 12:35:00 PM
Lot-Sample No.:	J1D270569-3	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK25	**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: 1118340	7196_CR6			**Work Order:**	MHKQR1AA		**Report DB ID:**	9MHKQR10				
HEXCHROME	***1.53E-01***	U		0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		2.5	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

TestAmerica Laboratories, Inc.

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	TestAmerica	**SDG:**	JP0171	**Collection Date:**	4/26/2011 10:00:00 AM
Lot-Sample No.:	J1D270569-4	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK26	**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: 1118340	7196_CR6			Work Order:	MHKQT1AA		Report DB ID:	9MHKQT10				
HEXCHROME	***1.93E-01***			0.0E+00	1.53E-01	mg/kg	N/A	*(1.3)*	5/2/11 01:00 p		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	**TestAmerica**	**SDG:**	JP0171	**Collection Date:**	4/26/2011 1:00:00 PM
Lot-Sample No.:	**J1D270569-5**	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	**J1HK27**	**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: 1118340	7196_CR6			**Work Order:** MHKQ11AA			**Report DB ID:** 9MHKQ110					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		2.5	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	TestAmerica	**SDG:**	JP0171	**Collection Date:**	4/26/2011 1:05:00 PM
Lot-Sample No.:	J1D270569-6	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK28	**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: 1118340	7196_CR6			Work Order:	MHKQ41AA		Report DB ID:	9MHKQ410				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	**TestAmerica**	**SDG:**	JP0171	**Collection Date:**	4/26/2011 9:35:00 AM
Lot-Sample No.:	**J1D270569-7**	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	**J1HK29**	**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: 1118340	7196_CR6			**Work Order:** MHKQ71AA			**Report DB ID:** 9MHKQ710					
HEXCHROME	***1.55E-01***	U		0.0E+00	1.55E-01	mg/kg	N/A	*1.*	5/2/11 01:00 p		2.5	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	TestAmerica	**SDG:**	JP0171	**Collection Date:**	4/26/2011 8:50:00 AM
Lot-Sample No.:	J1D270569-8	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK30	**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: 1118340	7196_CR6			**Work Order:** MHKQ91AA			**Report DB ID:** 9MHKQ910					
HEXCHROME	***1.53E-01***	U		0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		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: 04-May-11

Lab Name:	TestAmerica	**SDG:**	JP0171	**Collection Date:**	4/26/2011 8:55:00 AM
Lot-Sample No.:	J1D270569-9	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK31	**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: 1118340	7196_CR6			Work Order:	MHKRL1AA		Report DB ID:	9MHKRL10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	TestAmerica	**SDG:**	JP0171	**Collection Date:**	4/26/2011 9:30:00 AM
Lot-Sample No.:	J1D270569-10	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK32	**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: 1118340	7196_CR6			**Work Order:**	MHKRN1AA		**Report DB ID:**	9MHKRN10				
HEXCHROME	***1.53E-01***	U		0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		2.5	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	TestAmerica	**SDG:**	JP0171	**Collection Date:**	4/26/2011 8:40:00 AM
Lot-Sample No.:	J1D270569-11	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK33	**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: 1118340	7196_CR6			Work Order:	MHKKR1AA		Report DB ID:	9MHKR210				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		2.5	
								N/A			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	TestAmerica	**SDG:**	JP0171	**Collection Date:**	4/26/2011 9:00:00 AM
Lot-Sample No.:	J1D270569-12	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK34	**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: 1118340	7196_CR6			Work Order:	MHKR91AA		Report DB ID:	9MHKR910				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	**TestAmerica**	**SDG:**	JP0171	**Collection Date:**	4/26/2011 8:25:00 AM
Lot-Sample No.:	**J1D270569-13**	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	**J1HK35**	**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: 1118340	7196_CR6			**Work Order:** MHKTJ1AA			**Report DB ID:** 9MHKTJ10					
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		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: 04-May-11

Lab Name:	**TestAmerica**	**SDG:**	JP0171	**Collection Date:**	4/26/2011 8:30:00 AM
Lot-Sample No.:	**J1D270569-14**	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	**J1HK36**	**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: 1118340	7196_CR6			Work Order:	MHKTW1AA		Report DB ID:	9MHKTW10				
HEXCHROME	***1.53E-01***	U		0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	TestAmerica	SDG:	JP0171	Collection Date:	4/26/2011 9:50:00 AM
Lot-Sample No.:	J1D270569-15	Report No. :	46459	Received Date:	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK37	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: 1118340	7196_CR6			Work Order:	MHKT21AA		Report DB ID:	9MHKT210				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	TestAmerica	**SDG:**	JP0171	**Collection Date:**	4/26/2011 9:55:00 AM
Lot-Sample No.:	J1D270569-16	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK38	**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: 1118340	7196_CR6			**Work Order:** MHKTE1AA			**Report DB ID:** 9MHKTE10					
HEXCHROME	***1.53E-01***	U		0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		2.5	
								N/A			g	

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

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	TestAmerica	SDG:	JP0171	Collection Date:	4/26/2011 1:20:00 PM
Lot-Sample No.:	J1D270569-17	Report No. :	46459	Received Date:	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK39	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: 1118340	7196_CR6			Work Order:	MHKVL1AA		Report DB ID:	9MHKVL10				
HEXCHROME	***1.54E-01***	U		0.0E+00	1.54E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		2.5	
							1.55E-01	*N/A*			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	TestAmerica	**SDG:**	JP0171	**Collection Date:**	4/26/2011 1:35:00 PM
Lot-Sample No.:	J1D270569-18	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK40	**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: 1118340	7196_CR6			**Work Order:** MHKVV1AA			**Report DB ID:** 9MHKVV10					
HEXCHROME	***3.19E-01***			0.0E+00	1.53E-01	mg/kg	N/A	*(2.1)*	5/2/11 01:00 p		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: 04-May-11

Lab Name:	**TestAmerica**	**SDG:**	JP0171	**Collection Date:**	4/26/2011 12:35:00 PM
Lot-Sample No.:	**J1D270569-19**	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	**J1HK41**	**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: 1118340	7196_CR6			**Work Order:**	MHKV31AA		**Report DB ID:**	9MHKV310				
HEXCHROME	***1.53E-01***	U		0.0E+00	1.53E-01	mg/kg	N/A	*(1.)*	5/2/11 01:00 p		2.5	
							1.55E-01	*N/A*			g	

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

TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM I

SAMPLE RESULTS

Date: 04-May-11

Lab Name:	TestAmerica	SDG:	JP0171	Collection Date:	4/26/2011 12:35:00 PM
Lot-Sample No.:	J1D270569-19	Report No. :	46459	Received Date:	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK41	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

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TestAmerica
rptSTLRchSample
V5.2.12 A2002

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

FORM II

Date: 04-May-11

DUPLICATE RESULTS

Lab Name:	TestAmerica	**SDG:**	JP0171	**Collection Date:**	4/26/2011 12:25:00 PM
Lot-Sample No.:	J1D270569-1	**Report No. :**	46459	**Received Date:**	4/27/2011 11:30:00 AM
Client Sample ID:	J1HK23	**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: 1118340	7196_CR6			**Work Order:** MHKQE1AD		**Report DB ID:** MHKQE1ER			**Orig Sa DB ID:** 9MHKQE10			
HEXCHROME	1.54E-01	U		0.0E+00	1.54E-01	mg/kg	N/A	(1.)	5/2/11 01:00 p		2.5	
	1.53E-01		**RPD**	**0.7**		3.50E-01		N/A			g	

No. of Results: 1 Comments:

TestAmerica
rptSTLRchDupV5.2
.12 A2002

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

FORM II

BLANK RESULTS

Date: 04-May-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0171

Report No. : 46459

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: 1118340	7196_CR6			Work Order:	MHM061AA		Report DB ID:	MHM061AB				
HEXCHROME	1.55E-01	U		0.0E+00	1.55E-01	mg/kg	N/A	1.	5/2/11 01:00 p		2.5	
						1.55E-01		N/A			g	

No. of Results: 1 Comments:

TestAmerica Laboratories, Inc.

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TestAmerica
rptSTLRchBlank
V5.2.12 A2002

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

FORM II

LCS RESULTS

Date: 04-May-11

Lab Name: TestAmerica

Matrix: SOIL

SDG: JP0171

Report No. : 46459

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: 1118340	7196_CR6			Work Order:	MHM061AC		Report DB ID:	MHM061AS					
HEXCHROME	1.89E+01			0.0E+00	1.55E-01	mg/kg	N/A	2.00E+01		95%	5/2/11 01:00 p	2.5	
							Rec Limits:	80	120	-0.1		g	

No. of Results: 1 Comments:

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

rptSTLRchLcs
V5.2.12 A2002

FORM II

MATRIX SPIKE RESULTS

Date: 04-May-11

Lab Name: TestAmerica **SDG:** JP0171

Lot-Sample No.: J1D270569-1, J1HK23 **Report No. :** 46459 **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: 1118340	Work Order: MHKQE1AC			Report DB ID: MHKQE1CW			Orig Sa DB ID: 9MHKQE10					
HEXCHROME	5.88E+00			0.0E+00	1.54E-01	mg/kg	N/A	55.82%	1.05E+01	5/2/11 01:00 p	2.5	7196_CR6
	1.53E-01										g	

Number of Results: 1

Comments:

TestAmerica
rptSTLRchMs
V5.2.12 A2002

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Richland Laboratory
Data Review Check List
Hexavalent Chromium

Batch Number(s): 1118340

Lab Sample Numbers or SDG: **JP0171**

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

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

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

Comments on any "No" response: The MS recovered low at 55.8%. PDMS recovered also low at 56.9%. The insoluble MS recovered at 84.4%. Suspect substantial reducing capacity in the sample.

Analyst: _H.Rahavi_____ Date:__5/4/2011__

Second-Level Review: _____ Date:___5/4/2011_____

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-18286**
NCM Initiated By: Hooshang Rahavi
Date Opened: 05/04/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Classical Chemistry
Tests: 7196A
Lot #'s (Sample #'s): J1D270569 (1,10,11,12,13,14,15,16,17,18,19,2,3,4,5,6,7,8,9), J1D280000 (340),
QC Batches: 1118340,

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

Problem Description / Root Cause

Name	Date	Description
Hooshang Rahavi	05/04/2011	The MS recovered low at 55.8%. PDMS recovered also low at 56.9%. The insoluble MS recovered at 84.4%. Suspect substantial reducing capacity in the sample.

Corrective Action

Name	Date	Corrective Action
Hooshang Rahavi	05/04/2011	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

Washington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-107-070

Page 1 of ~~10~~ 4

Collector: M. Blankingship / J. Kuepfer

Company Contact: Joan Kessner

Telephone No.: 509-375-4688

Project Coordinator: KESSNER, JH

Price Code: ~~8L~~ 8B

Data Turnaround: ~~21~~ 7 Days

Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol

Sampling Location: 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			

J1D270569

Sample No.	Matrix *	Sample Date	Sample Time									
J1HK23	SOIL	4/26/11	1225		X			MHKQE				
J1HK24	SOIL	4/26/11	1016		X			MHKQQ				
J1HK25	SOIL	4/26/11	1235		X			MHKQR				
J1HK26	SOIL	4/26/11	1000		X			MHKQT				
J1HK27	SOIL	4/26/11	1300		X			MHKQ1				

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
MATRIANO/SHIP	4-26-11 1435	JV Fullmer	4/26/11 1435
JV Fullmer	4/26/11 1600	J.E. Bechel	1600 4-26-11
J.E. Bechel WCH	1130 4-27-11	TALR camera Krana	1130 4-27-11

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)

J1D270569

SDG #

JP0171

DLL 5-04-11

REVIEWED BY AJ DATE 4-27-11

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

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

WCH-EE-011

Washington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-107-070 | Page 2 of 10 4

Collector: M. Blankenship / J Kuepfer

Company Contact: Joan Kessner | Telephone No.: 509-375-4688

Project Coordinator: KESSNER, JH

Price Code: 8L 8B

Data Turnaround: 21 Days 7

Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol

Sampling Location: 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			

J1D270569

Sample No.	Matrix *	Sample Date	Sample Time									
J1HK28	SOIL	4/26/11	1305		X			MHKQ4				
J1HK29	SOIL	4/26/11	0935		X			MHKQ7				
J1HK30	SOIL	4/26/11	0850		X			MHKQ9				
J1HK31	SOIL	4/26/11	0855		X			MHKR4				
J1HK32	SOIL	4/26/11	0930		X			MHKRN				

CHAIN OF POSSESSION

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Matt Blankenship	4-26-11 1435	JV Fullmer	4/26/11 1435
JV Fullmer	4/26/11 1600	J. E. Beall	4-26-11 1600
J. E. Beall WCH	4-27-11 1130	TALR Carmen Krapa	4-27-11 1130

Sign/Print Names

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)

WCH
J1D270569
SDG#

REVIEWED BY AJ
DATE 4-27-11

JP0171

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

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

WCH-EE-011

TestAmerica Laboratories, Inc.

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Washington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-107-070

Collector M. Blankingship / J. Knepper	**Company Contact** Joan Kessner	**Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH
Price Code 8L 8B3	**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. 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**											
J1HK33 / SOIL / 4/26/11 / 0840		X			MHKR2						
J1HK34 / SOIL / 4/26/11 / 0900		X			MHKK9						
J1HK35 / SOIL / 4/26/11 / 0825		X			MHKT0						
J1HK36 / SOIL / 4/26/11 / 0830		X			MHKTW						
J1HK37 / SOIL / 4/26/11 / 0950		X			MHKT2						

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
MHBlankingship	4-26-11 1435	JV Fullmer	4/26/11 1435
JV Fullmer	4/26/11 1600	J. E. Bahl	4-26-11 1600
J. E. Bahl	4-27-11 1130	TALP Carmen Krone	4-27-11 1130

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)

WCH.
J1D270569

REVIEWED BY AJ
DATE 4-27-11

JP0171
SDG#

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 4 of ~~10~~ 4
Collector: M. Blankenship / J. Kuepper	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.: 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									
J1HK38	SOIL	4/26/11	0955		X			MHK VE				
J1HK39	SOIL	4/26/11	1320		X			MHK VL				
J1HK40	SOIL	4/26/11	1335		X			MHK VI				
J1HK41	SOIL	4/26/11	1235		X			MHK V3				
~~J1HK42~~	~~SOIL~~	AJ 4-22-11										

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Mark Blankenship	1435 4-26-11	JV Fullmer	1435 4/26/11
JV Fullmer	1600 4/26/11	J. E. Beck	1600 4-26-11
J. E. Beck	1130 4-27-11	TALP Carl K. + Cameron Krupa	1130 4.27.11

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 4-27-11

J1D270569
SDG #
JP0171
DW: 5041

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

-WCH-

Sample Check-in List

TAR

Date/Time Received: 4.27.11@1130 GM Screen Result (out) .3 (in) .5 Initials [✓]

Client: WCH SDG #: JP0171 NA [ ] SAF #: RC-107 NA [ ]

Work Order Number: J-D270569 Chain of Custody # RC-107-070

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

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

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

Item 6 through 10 for samples. Initial appropriate response.

6. Number of samples in shipping container (Each sample may contain multiple bottles): 19 @ 1 Container per.
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ___ tape
   - ✓ custody seals
   - ___ hazard labels
   - ✓ appropriate sample labels
9. Samples:
   - ✓ are in good condition (Soil)
   - ___ are broken
   - ___ are leaking
   - ___ have air bubbles (Only for samples requiring no head space)
10. Sample pH appropriate for analysis requested Yes [ ] No [ ] N/A [✓] (Note discrepancies in #13)
    (If acidification necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition)

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

See other side for additional comments

Sample Custodian: [signature] Date: 4.27.11@1130

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager [signature] Date 4/27/11

LS-023, Rev. 12, 10/10

4/28/2011 4:32:23 PM

Sample Preparation/Analysis

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

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

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

AnalyDueDate: 05/04/2011

Batch: 1118340 SOIL mg/kg PM, Quote: RW2, 27038
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 MHKQE-1-AA J1D270569-1-SAMP 04/26/2011 12:25		2.5334 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
2 MHKQE-1-AC-S J1D270569-1-MS 04/26/2011 12:25		2.5186 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
3 MHKQE-1-AD-X J1D270569-1-DUP 04/26/2011 12:25		2.5095 - pbc = 2.5154 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
4 MHKQQ-1-AA J1D270569-2-SAMP 04/26/2011 10:10		2.5029 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
5 MHKQR-1-AA J1D270569-3-SAMP 04/26/2011 12:35		2.5295 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
6 MHKQT-1-AA J1D270569-4-SAMP 04/26/2011 10:00		2.5239 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
7 MHKQ1-1-AA J1D270569-5-SAMP 04/26/2011 13:00		2.5158 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

4/28/2011 4:32:24 PM

Sample Preparation/Analysis

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

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

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

AnalyDueDate: 05/04/2011

Batch: 1118340 SOIL mg/kg PM, Quote: RW2, 27038
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 MHKQ4-1-AA J1D270569-6-SAMP 04/26/2011 13:05		2.5122 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
9 MHKQ7-1-AA J1D270569-7-SAMP 04/26/2011 09:35		2.5016 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
10 MHKQ9-1-AA J1D270569-8-SAMP 04/26/2011 08:50		2.5288 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
11 MHKRL-1-AA J1D270569-9-SAMP 04/26/2011 08:55		2.5069 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
12 MHKRN-1-AA J1D270569-10-SAMP 04/26/2011 09:30		2.5244 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
13 MHKR2-1-AA J1D270569-11-SAMP 04/26/2011 08:40		2.5151 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
14 MHKR9-1-AA J1D270569-12-SAMP 04/26/2011 09:00		2.5112 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

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4/28/2011 4:32:24 PM

Sample Preparation/Analysis

127642, Washington Closure Hanford LLC
Bechtel Hanford, Inc.

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

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

AnalyDueDate: 05/04/2011

Batch: 1118340 SOIL mg/kg PM, Quote: RW2, 27038
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 MHKTJ-1-AA J1D270569-13-SAMP 04/26/2011 08:25		2.5112 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
16 MHKTW-1-AA J1D270569-14-SAMP 04/26/2011 08:30		2.5376 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
17 MHKT2-1-AA J1D270569-15-SAMP 04/26/2011 09:50		2.5153 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
18 MHKVE-1-AA J1D270569-16-SAMP 04/26/2011 09:55		2.5284 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
19 MHKVL-1-AA J1D270569-17-SAMP 04/26/2011 13:20		2.5103 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
20 MHKVV-1-AA J1D270569-18-SAMP 04/26/2011 13:35		2.5293 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:
21 MHKV3-1-AA J1D270569-19-SAMP 04/26/2011 12:35		2.5297 AmtRec: 1XJAR60MLG	#Containers: 1					Scr:	Alpha:	Beta:

TestAmerica Laboratories, Inc.

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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: 05/04/2011

Batch: 1118340 mg/kg
SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On | Off (24hr) Circle	CR Analyst, Init/Date	Comments:
22 MHM06-1-AA-B J1D280000-340-BLK 04/28/2011 16:32 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:
23 MHM06-1-AC-C J1D280000-340-LCS 04/28/2011 16:32 pd		AmtRec:	#Containers: 1					Scr:	Alpha:	Beta:

Comments:

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

MHKQE1AA-SAMP Constituent List:
  HEXCHROME   RDL:0.1548      mg/kg     LCL:80      UCL:120     RPD:20
MHKQE1AC-MS Constituent List:

MHM061AA-BLK:

MHM061AC-LCS:

MHKQE1AA-SAMP Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MHKQE1AC-MS Calc Info:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MHM061AA-BLK:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
MHM061AC-LCS:
     Uncert Level (#s).: 2     Decay to SaDt: Y     Blk Subt.: N     Sci.Not.: Y     ODRs: B
```


TestAmerica Laboratories, Inc.

TestAmerica

ANALYTICAL REPORT

Job Number: 280-15156-1

SDG Number: JP0171

Job Description: SAF# RC-107

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

Attention: Joan H Kessner

Approved for release
Kae E Yoder
Project Manager II
5/9/2011 12:49 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
05/09/2011

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

The Lab Certification ID# is E87667.

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

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

ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-15156-1

SDG #: JP0171
SAF#: RC-107

Date SDG Closed: April 28, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1HK23	280-15156-1	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK24	280-15156-2	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK25	280-15156-3	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK26	280-15156-4	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK27	280-15156-5	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK28	280-15156-6	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK29	280-15156-7	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK30	280-15156-8	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK31	280-15156-9	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK32	280-15156-10	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK33	280-15156-11	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK34	280-15156-12	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK35	280-15156-13	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK36	280-15156-14	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK37	280-15156-15	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK38	280-15156-16	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK39	280-15156-17	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK40	280-15156-18	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HK41	280-15156-19	6010/7471/WTPH-D+/8260/8082/8310/8081	6010B/7471A/NWTPH-Dx/8260B/8082/8310/8081A
J1HKF5	280-15156-20	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 4/28/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 4.6 C, 3.8 C and 4.8 C.

Samples J1HK35, J1HK36 and J1HKF5, requesting 5035/8260 VOA analysis, were received at the laboratory after the recommended 48 hour sample holding time had expired. The client was notified on 4/29/2011.

GC/MS VOLATILES - SW846 8260B

The 5035 prep for the samples presented in this report were performed after the recommended 48 hour sample holding times had expired. The samples were received at the laboratory with insufficient time remaining for the laboratory to perform the prep within the holding times. It is TestAmerica's policy to analyze all samples within holding times; however, the laboratory cannot guarantee that hold times will be met when samples are received with less than half the hold time remaining. The client was notified on 4/29/2011.

Surrogate 4-Bromofluorobenzene was recovered outside the control limits, biased high, in samples J1HK24, J1HK28 and J1HK36. This is an indicator that data may be biased high. As no detectable concentrations are present at levels greater than the reporting limits in the samples, corrective action is deemed unnecessary.

The MSD aliquot of the MS/MSD performed on sample J1HK38 exhibited a spike compound recovery outside the control limits, and the associated sample result has 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.

The MSD aliquot of the MS/MSD performed on sample J1HK32 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

Surrogate Decachlorobiphenyl was recovered outside the control limits, biased high, in sample J1HK24. This is an indicator that data may be biased high. As no detectable concentrations are present at levels greater than the reporting limits in the sample, corrective action is deemed unnecessary.

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".

Low levels of Heptachlor are present in the method blank associated with batch 280-64708. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary.

The MSD aliquot of the MS/MSD performed on sample J1HK25 in batch 280-65424 exhibited the percent recovery outside the control limits for Endrin aldehyde, and the associated sample result has been flagged "N". In addition, the RPD limit was exceeded. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The MSD aliquot of the MS/MSD performed on sample J1HK25 in batch 280-64708 exhibited spike compound recoveries outside the control limits. 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.

Continuing Calibration Verification (CCV) standards associated with samples in batch 280-64708 exhibited %Difference (%D) values >15%, biased low, as detailed below. The overall mean %D is ≤15%; therefore, method criteria have been met and corrective action is deemed unnecessary. It can be noted that a bracketing RL standard was used to demonstrate acceptable instrument sensitivity, despite %D values greater than 30% negative drift. The sequence is as follows: CCV1, LCS, J1HK28, MB, J1HK29, J1HK30, J1HK31, CCV2, J1HK32, J1HK33, J1HK34, J1HK38, J1HK40, J1HK41, CCV3, J1HK27, J1HK35, J1HK36, J1HK37, J1HK39, CCV4, J1HK23, J1HK24, J1HK26.

CCV1 = OK
CCV2 = 4,4'-DDT -18%, Methoxychlor -18%, Toxaphene -19%
CCV3 = OK
CCV4 = 4,4'-DDT -25%, Methoxychlor -18%
CCV5 = 4,4'-DDT -52%, Methoxychlor -44%, Toxaphene -22%

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8082 - PCBs

The RPD between the primary and confirmation columns exceeded 25% for Aroclor 1254 in sample J1HK27. The result has been flagged with a "P".

Surrogate Decachlorobiphenyl was recovered outside the control limits, biased low, in sample J1HK38. The laboratory noted that this anomaly is due to obvious matrix interference; therefore, corrective action is deemed unnecessary. The laboratory noted that a Sulfuric Acid clean-up was performed on sample J1HK38 to reduce matrix interferences.

No other anomalies were encountered.

GC SEMIVOLATILES - NWTPH-Dx - DRO

The MS/MSD performed on sample J1HK24 exhibited spike compound recoveries outside the control limits, and the associated sample results have been flagged "N". 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.

The laboratory noted that due to a system "linking" issue, a new lab ID had to be created for both the LCS and LCSD. This resulted in a prep date/time that followed the analysis date, which is not accurate. The LCS and LCSD were prepped at the same time the rest of the samples in batch 280-64721 were prepped.

No other 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".

Surrogate Terphenyl-d14 was recovered outside the control limits, biased high, in sample J1HK26. The laboratory noted that this anomaly is due to obvious matrix interference; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A

Serial dilution of a digestate in batch 280-64750 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an "X".

Serial dilution of a digestate in batch 280-65544 indicates that physical and chemical interferences are present for Cobalt, Lead, Manganese and Nickel. Results have been flagged with an "X".

Low levels of Calcium, Chromium, Iron and Manganese are present in the method blank associated with batch 280-64750. Because the concentrations in the method blank are not present at levels greater than the reporting limits, corrective action is deemed unnecessary.

It can be noted that the sample amount was greater than four times the spike amount for Aluminum, Iron, Lead and Manganese in the Matrix Spike performed on sample J1HK23 in batch 280-64750; therefore, control limits are not applicable.

Silicon was recovered outside the control limits in the SW846 6010B Matrix Spike performed on sample J1HK23, and the associated sample result has been flagged "N". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	J	Indicates an Estimated Value for TICs
	T	MS, MSD: Recovery exceeds upper or lower control limits.
	*	MS/MSD RPD exceeded the control limit
	N	Presumptive evidence of material.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	Surrogate exceeds the control limit
GC Semi VOA		
	U	Analyzed for but not detected.
	X	More than 40% difference between columns, lower result reported.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	*	MS/MSD RPD exceeded the control limit
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	Surrogate exceeds the control limit
	P	This flag is used for an aroclor target analyte where there is greater than 25% difference for detected concentrations between the two GC columns

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Lab Section	Qualifier	Description
Metals		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	N	Recovery exceeds upper or lower control limits
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.
General Chemistry		
	U	Analyzed for but not detected.
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.
	*	Surrogate exceeds the control limit

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

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: 280-15156-1
Sdg Number: JP0171

Method	Analyst	Analyst ID
SW846 8260B	Reinhardt, Jason	JR
SW846 8081A	Ream, Brian E	BER
SW846 8081A	Wells, David	DW
SW846 8082	Pavlakovich, Adam M	AMP
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Bowen, Heidi E	HEB
SW846 6010B	Harre, John K	JKH
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: 280-15156-1
Sdg Number: JP0171

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-15156-1	J1HK23	Solid	04/26/2011 1225	04/28/2011 0930
280-15156-2	J1HK24	Solid	04/26/2011 1010	04/28/2011 0930
280-15156-3	J1HK25	Solid	04/26/2011 1235	04/28/2011 0930
280-15156-4	J1HK26	Solid	04/26/2011 1000	04/28/2011 0930
280-15156-5	J1HK27	Solid	04/26/2011 1300	04/28/2011 0930
280-15156-6	J1HK28	Solid	04/26/2011 1305	04/28/2011 0930
280-15156-7	J1HK29	Solid	04/26/2011 0935	04/28/2011 0930
280-15156-8	J1HK30	Solid	04/26/2011 0850	04/28/2011 0930
280-15156-9	J1HK31	Solid	04/26/2011 0855	04/28/2011 0930
280-15156-10	J1HK32	Solid	04/26/2011 0930	04/28/2011 0930
280-15156-11	J1HK33	Solid	04/26/2011 0840	04/28/2011 0930
280-15156-12	J1HK34	Solid	04/26/2011 0900	04/28/2011 0930
280-15156-13	J1HK35	Solid	04/26/2011 0825	04/28/2011 0930
280-15156-14	J1HK36	Solid	04/26/2011 0830	04/28/2011 0930
280-15156-15	J1HK37	Solid	04/26/2011 0950	04/28/2011 0930
280-15156-16	J1HK38	Solid	04/26/2011 0955	04/28/2011 0930
280-15156-17	J1HK39	Solid	04/26/2011 1320	04/28/2011 0930
280-15156-18	J1HK40	Solid	04/26/2011 1335	04/28/2011 0930
280-15156-19	J1HK41	Solid	04/26/2011 1235	04/28/2011 0930
280-15156-20	J1HKF5	Solid	04/26/2011 0805	04/28/2011 0930

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK23**

Lab Sample ID: 280-15156-1
Client Matrix: Solid % Moisture: 6.2

Date Sampled: 04/26/2011 1225
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6246.D
Dilution:	1.0			Initial Weight/Volume:	4.487 g
Analysis Date:	04/29/2011 1447			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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		0.92	U	0.92	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		0.80	U	0.80	5.9
Ethylbenzene		0.80	U	0.80	5.9
2-Hexanone		5.8	U	5.8	24
Methylene Chloride		0.89	U	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		0.73	U	0.73	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		0.73	U	0.73	5.9

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		58 - 140
Toluene-d8 (Surr)	114		80 - 126
4-Bromofluorobenzene (Surr)	124		76 - 127
Dibromofluoromethane (Surr)	99		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK23**

Lab Sample ID: 280-15156-1
Client Matrix: Solid % Moisture: 6.2

Date Sampled: 04/26/2011 1225
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6246.D
Dilution:	1.0			Initial Weight/Volume:	4.487 g
Analysis Date:	04/29/2011 1447			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK24**

Lab Sample ID: 280-15156-2
Client Matrix: Solid

% Moisture: 7.5

Date Sampled: 04/26/2011 1010
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65166	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6303.D
Dilution:	1.0			Initial Weight/Volume:	4.321 g
Analysis Date:	04/30/2011 1810			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		13	J	6.7	25
Benzene		0.59	U	0.59	6.3
Bromodichloromethane		0.28	U	0.28	6.3
Bromoform		0.29	U	0.29	6.3
Bromomethane		0.63	U	0.63	13
2-Butanone (MEK)		2.3	U	2.3	13
Carbon disulfide		0.53	U	0.53	6.3
Carbon tetrachloride		0.79	U	0.79	6.3
Chlorobenzene		0.68	U	0.68	6.3
Dibromochloromethane		0.71	U	0.71	6.3
Chloroethane		1.1	U	1.1	13
Chloroform		0.36	U	0.36	6.3
Chloromethane		0.96	U	0.96	13
1,1-Dichloroethane		0.26	U	0.26	6.3
1,2-Dichloroethane		0.88	U	0.88	6.3
1,1-Dichloroethene		0.74	U	0.74	6.3
1,2-Dichloroethene, Total		0.49	U	0.49	6.3
1,2-Dichloropropane		0.69	U	0.69	6.3
cis-1,3-Dichloropropene		1.6	U	1.6	6.3
trans-1,3-Dichloropropene		0.84	U	0.84	6.3
Ethylbenzene		0.84	U	0.84	6.3
2-Hexanone		6.1	U	6.1	25
Methylene Chloride		0.94	U	0.94	6.3
4-Methyl-2-pentanone (MIBK)		5.5	U	5.5	13
Styrene		0.79	U	0.79	6.3
1,1,2,2-Tetrachloroethane		0.76	U	0.76	6.3
Tetrachloroethene		0.74	U	0.74	6.3
Toluene		0.86	U	0.86	6.3
1,1,1-Trichloroethane		0.65	U	0.65	6.3
1,1,2-Trichloroethane		1.1	U	1.1	6.3
Trichloroethene		0.29	U	0.29	6.3
Vinyl chloride		1.7	U	1.7	6.3
Xylenes, Total		0.76	U	0.76	6.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	85		58 - 140
Toluene-d8 (Surr)	121		80 - 126
4-Bromofluorobenzene (Surr)	133	*	76 - 127
Dibromofluoromethane (Surr)	94		75 - 121

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK24**

Lab Sample ID: 280-15156-2
Client Matrix: Solid

% Moisture: 7.5

Date Sampled: 04/26/2011 1010
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65166	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6303.D
Dilution:	1.0			Initial Weight/Volume:	4.321 g
Analysis Date:	04/30/2011 1810			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK25**

Lab Sample ID: 280-15156-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6248.D
Dilution:	1.0			Initial Weight/Volume:	4.036 g
Analysis Date:	04/29/2011 1533			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		7.0	U	7.0	26
Benzene		0.61	U	0.61	6.5
Bromodichloromethane		0.29	U	0.29	6.5
Bromoform		0.30	U	0.30	6.5
Bromomethane		0.65	U	0.65	13
2-Butanone (MEK)		2.4	U	2.4	13
Carbon disulfide		0.55	U	0.55	6.5
Carbon tetrachloride		0.82	U	0.82	6.5
Chlorobenzene		0.70	U	0.70	6.5
Dibromochloromethane		0.74	U	0.74	6.5
Chloroethane		1.2	U	1.2	13
Chloroform		0.38	U	0.38	6.5
Chloromethane		1.0	U	1.0	13
1,1-Dichloroethane		0.27	U	0.27	6.5
1,2-Dichloroethane		0.91	U	0.91	6.5
1,1-Dichloroethene		0.77	U	0.77	6.5
1,2-Dichloroethene, Total		0.51	U	0.51	6.5
1,2-Dichloropropane		0.71	U	0.71	6.5
cis-1,3-Dichloropropene		1.7	U	1.7	6.5
trans-1,3-Dichloropropene		0.87	U	0.87	6.5
Ethylbenzene		0.87	U	0.87	6.5
2-Hexanone		6.4	U	6.4	26
Methylene Chloride		0.97	U	0.97	6.5
4-Methyl-2-pentanone (MIBK)		5.7	U	5.7	13
Styrene		0.82	U	0.82	6.5
1,1,2,2-Tetrachloroethane		0.79	U	0.79	6.5
Tetrachloroethene		0.77	U	0.77	6.5
Toluene		0.90	U	0.90	6.5
1,1,1-Trichloroethane		0.68	U	0.68	6.5
1,1,2-Trichloroethane		1.1	U	1.1	6.5
Trichloroethene		0.30	U	0.30	6.5
Vinyl chloride		1.7	U	1.7	6.5
Xylenes, Total		0.79	U	0.79	6.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		58 - 140
Toluene-d8 (Surr)	122		80 - 126
4-Bromofluorobenzene (Surr)	118		76 - 127
Dibromofluoromethane (Surr)	111		75 - 121

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK25**

Lab Sample ID: 280-15156-3
Client Matrix: Solid

% Moisture: 4.6

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6248.D
Dilution:	1.0			Initial Weight/Volume:	4.036 g
Analysis Date:	04/29/2011 1533			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK26**

Lab Sample ID: 280-15156-4
Client Matrix: Solid
% Moisture: 8.7

Date Sampled: 04/26/2011 1000
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6249.D
Dilution:	1.0			Initial Weight/Volume:	4.38 g
Analysis Date:	04/29/2011 1556			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.7	U	6.7	25
Benzene		0.59	U	0.59	6.3
Bromodichloromethane		0.28	U	0.28	6.3
Bromoform		0.29	U	0.29	6.3
Bromomethane		0.63	U	0.63	13
2-Butanone (MEK)		2.3	U	2.3	13
Carbon disulfide		0.53	U	0.53	6.3
Carbon tetrachloride		0.79	U	0.79	6.3
Chlorobenzene		0.68	U	0.68	6.3
Dibromochloromethane		0.71	U	0.71	6.3
Chloroethane		1.1	U	1.1	13
Chloroform		0.36	U	0.36	6.3
Chloromethane		0.96	U	0.96	13
1,1-Dichloroethane		0.26	U	0.26	6.3
1,2-Dichloroethane		0.88	U	0.88	6.3
1,1-Dichloroethene		0.74	U	0.74	6.3
1,2-Dichloroethene, Total		0.49	U	0.49	6.3
1,2-Dichloropropane		0.69	U	0.69	6.3
cis-1,3-Dichloropropene		1.6	U	1.6	6.3
trans-1,3-Dichloropropene		0.84	U	0.84	6.3
Ethylbenzene		0.84	U	0.84	6.3
2-Hexanone		6.1	U	6.1	25
Methylene Chloride		0.94	U	0.94	6.3
4-Methyl-2-pentanone (MIBK)		5.5	U	5.5	13
Styrene		0.79	U	0.79	6.3
1,1,2,2-Tetrachloroethane		0.76	U	0.76	6.3
Tetrachloroethene		0.74	U	0.74	6.3
Toluene		0.86	U	0.86	6.3
1,1,1-Trichloroethane		0.65	U	0.65	6.3
1,1,2-Trichloroethane		1.1	U	1.1	6.3
Trichloroethene		0.29	U	0.29	6.3
Vinyl chloride		1.7	U	1.7	6.3
Xylenes, Total		0.76	U	0.76	6.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		58 - 140
Toluene-d8 (Surr)	113		80 - 126
4-Bromofluorobenzene (Surr)	119		76 - 127
Dibromofluoromethane (Surr)	100		75 - 121

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK26**

Lab Sample ID: 280-15156-4
Client Matrix: Solid
% Moisture: 8.7

Date Sampled: 04/26/2011 1000
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6249.D
Dilution:	1.0			Initial Weight/Volume:	4.38 g
Analysis Date:	04/29/2011 1556			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK27**

Lab Sample ID: 280-15156-5
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 04/26/2011 1300
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6250.D
Dilution:	1.0			Initial Weight/Volume:	4.151 g
Analysis Date:	04/29/2011 1619			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		7.0	U	7.0	26
Benzene		0.61	U	0.61	6.5
Bromodichloromethane		0.28	U	0.28	6.5
Bromoform		0.30	U	0.30	6.5
Bromomethane		0.65	U	0.65	13
2-Butanone (MEK)		2.4	U	2.4	13
Carbon disulfide		0.54	U	0.54	6.5
Carbon tetrachloride		0.81	U	0.81	6.5
Chlorobenzene		0.70	U	0.70	6.5
Dibromochloromethane		0.74	U	0.74	6.5
Chloroethane		1.2	U	1.2	13
Chloroform		0.37	U	0.37	6.5
Chloromethane		1.0	U	1.0	13
1,1-Dichloroethane		0.27	U	0.27	6.5
1,2-Dichloroethane		0.90	U	0.90	6.5
1,1-Dichloroethene		0.76	U	0.76	6.5
1,2-Dichloroethene, Total		0.50	U	0.50	6.5
1,2-Dichloropropane		0.71	U	0.71	6.5
cis-1,3-Dichloropropene		1.7	U	1.7	6.5
trans-1,3-Dichloropropene		0.87	U	0.87	6.5
Ethylbenzene		0.87	U	0.87	6.5
2-Hexanone		6.3	U	6.3	26
Methylene Chloride		0.97	U	0.97	6.5
4-Methyl-2-pentanone (MIBK)		5.6	U	5.6	13
Styrene		0.81	U	0.81	6.5
1,1,2,2-Tetrachloroethane		0.79	U	0.79	6.5
Tetrachloroethene		0.76	U	0.76	6.5
Toluene		0.89	U	0.89	6.5
1,1,1-Trichloroethane		0.67	U	0.67	6.5
1,1,2-Trichloroethane		1.1	U	1.1	6.5
Trichloroethene		0.30	U	0.30	6.5
Vinyl chloride		1.7	U	1.7	6.5
Xylenes, Total		0.79	U	0.79	6.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		58 - 140
Toluene-d8 (Surr)	116		80 - 126
4-Bromofluorobenzene (Surr)	123		76 - 127
Dibromofluoromethane (Surr)	99		75 - 121

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK27**

Lab Sample ID: 280-15156-5
Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 04/26/2011 1300
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6250.D
Dilution:	1.0			Initial Weight/Volume:	4.151 g
Analysis Date:	04/29/2011 1619			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK28**

Lab Sample ID: 280-15156-6
Client Matrix: Solid
% Moisture: 11.0

Date Sampled: 04/26/2011 1305
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65166	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6304.D
Dilution:	1.0			Initial Weight/Volume:	2.877 g
Analysis Date:	04/30/2011 1833			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		11	U	11	39
Benzene		0.92	U	0.92	9.8
Bromodichloromethane		0.43	U	0.43	9.8
Bromoform		0.45	U	0.45	9.8
Bromomethane		0.98	U	0.98	20
2-Butanone (MEK)		3.6	U	3.6	20
Carbon disulfide		0.82	U	0.82	9.8
Carbon tetrachloride		1.2	U	1.2	9.8
Chlorobenzene		1.1	U	1.1	9.8
Dibromochloromethane		1.1	U	1.1	9.8
Chloroethane		1.7	U	1.7	20
Chloroform		0.57	U	0.57	9.8
Chloromethane		1.5	U	1.5	20
1,1-Dichloroethane		0.41	U	0.41	9.8
1,2-Dichloroethane		1.4	U	1.4	9.8
1,1-Dichloroethene		1.2	U	1.2	9.8
1,2-Dichloroethene, Total		0.76	U	0.76	9.8
1,2-Dichloropropane		1.1	U	1.1	9.8
cis-1,3-Dichloropropene		2.5	U	2.5	9.8
trans-1,3-Dichloropropene		1.3	U	1.3	9.8
Ethylbenzene		1.3	U	1.3	9.8
2-Hexanone		9.5	U	9.5	39
Methylene Chloride		1.5	U	1.5	9.8
4-Methyl-2-pentanone (MIBK)		8.5	U	8.5	20
Styrene		1.2	U	1.2	9.8
1,1,2,2-Tetrachloroethane		1.2	U	1.2	9.8
Tetrachloroethene		1.2	U	1.2	9.8
Toluene		1.3	U	1.3	9.8
1,1,1-Trichloroethane		1.0	U	1.0	9.8
1,1,2-Trichloroethane		1.7	U	1.7	9.8
Trichloroethene		0.45	U	0.45	9.8
Vinyl chloride		2.6	U	2.6	9.8
Xylenes, Total		1.2	U	1.2	9.8

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		58 - 140
Toluene-d8 (Surr)	118		80 - 126
4-Bromofluorobenzene (Surr)	128	*	76 - 127
Dibromofluoromethane (Surr)	95		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK28**

Lab Sample ID: 280-15156-6
Client Matrix: Solid

% Moisture: 11.0

Date Sampled: 04/26/2011 1305
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65166	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6304.D
Dilution:	1.0			Initial Weight/Volume:	2.877 g
Analysis Date:	04/30/2011 1833			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK29**

Lab Sample ID: 280-15156-7
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 04/26/2011 0935
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6252.D
Dilution:	1.0			Initial Weight/Volume:	4.301 g
Analysis Date:	04/29/2011 1734			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.7	U	6.7	25
Benzene		0.58	U	0.58	6.2
Bromodichloromethane		0.27	U	0.27	6.2
Bromoform		0.29	U	0.29	6.2
Bromomethane		0.62	U	0.62	12
2-Butanone (MEK)		2.3	U	2.3	12
Carbon disulfide		0.52	U	0.52	6.2
Carbon tetrachloride		0.78	U	0.78	6.2
Chlorobenzene		0.67	U	0.67	6.2
Dibromochloromethane		0.71	U	0.71	6.2
Chloroethane		1.1	U	1.1	12
Chloroform		0.36	U	0.36	6.2
Chloromethane		0.95	U	0.95	12
1,1-Dichloroethane		0.26	U	0.26	6.2
1,2-Dichloroethane		0.87	U	0.87	6.2
1,1-Dichloroethene		0.73	U	0.73	6.2
1,2-Dichloroethene, Total		0.48	U	0.48	6.2
1,2-Dichloropropane		0.68	U	0.68	6.2
cis-1,3-Dichloropropene		1.6	U	1.6	6.2
trans-1,3-Dichloropropene		0.83	U	0.83	6.2
Ethylbenzene		0.83	U	0.83	6.2
2-Hexanone		6.1	U	6.1	25
Methylene Chloride		0.93	U	0.93	6.2
4-Methyl-2-pentanone (MIBK)		5.4	U	5.4	12
Styrene		0.78	U	0.78	6.2
1,1,2,2-Tetrachloroethane		0.76	U	0.76	6.2
Tetrachloroethene		0.73	U	0.73	6.2
Toluene		0.86	U	0.86	6.2
1,1,1-Trichloroethane		0.64	U	0.64	6.2
1,1,2-Trichloroethane		1.1	U	1.1	6.2
Trichloroethene		0.29	U	0.29	6.2
Vinyl chloride		1.7	U	1.7	6.2
Xylenes, Total		0.76	U	0.76	6.2

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		58 - 140
Toluene-d8 (Surr)	115		80 - 126
4-Bromofluorobenzene (Surr)	117		76 - 127
Dibromofluoromethane (Surr)	99		75 - 121

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK29**

Lab Sample ID: 280-15156-7
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 04/26/2011 0935
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6252.D
Dilution:	1.0			Initial Weight/Volume:	4.301 g
Analysis Date:	04/29/2011 1734			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK30**

Lab Sample ID: 280-15156-8
Client Matrix: Solid

% Moisture: 9.8

Date Sampled: 04/26/2011 0850
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6253.D
Dilution:	1.0			Initial Weight/Volume:	4.324 g
Analysis Date:	04/29/2011 1757			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.9	U	6.9	26
Benzene		0.60	U	0.60	6.4
Bromodichloromethane		0.28	U	0.28	6.4
Bromoform		0.29	U	0.29	6.4
Bromomethane		0.64	U	0.64	13
2-Butanone (MEK)		2.3	U	2.3	13
Carbon disulfide		0.54	U	0.54	6.4
Carbon tetrachloride		0.81	U	0.81	6.4
Chlorobenzene		0.69	U	0.69	6.4
Dibromochloromethane		0.73	U	0.73	6.4
Chloroethane		1.1	U	1.1	13
Chloroform		0.37	U	0.37	6.4
Chloromethane		0.99	U	0.99	13
1,1-Dichloroethane		0.27	U	0.27	6.4
1,2-Dichloroethane		0.90	U	0.90	6.4
1,1-Dichloroethene		0.76	U	0.76	6.4
1,2-Dichloroethene, Total		0.50	U	0.50	6.4
1,2-Dichloropropane		0.70	U	0.70	6.4
cis-1,3-Dichloropropene		1.7	U	1.7	6.4
trans-1,3-Dichloropropene		0.86	U	0.86	6.4
Ethylbenzene		0.86	U	0.86	6.4
2-Hexanone		6.3	U	6.3	26
Methylene Chloride		0.96	U	0.96	6.4
4-Methyl-2-pentanone (MIBK)		5.6	U	5.6	13
Styrene		0.81	U	0.81	6.4
1,1,2,2-Tetrachloroethane		0.78	U	0.78	6.4
Tetrachloroethene		0.76	U	0.76	6.4
Toluene		0.88	U	0.88	6.4
1,1,1-Trichloroethane		0.67	U	0.67	6.4
1,1,2-Trichloroethane		1.1	U	1.1	6.4
Trichloroethene		0.29	U	0.29	6.4
Vinyl chloride		1.7	U	1.7	6.4
Xylenes, Total		0.78	U	0.78	6.4

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		58 - 140
Toluene-d8 (Surr)	108		80 - 126
4-Bromofluorobenzene (Surr)	108		76 - 127
Dibromofluoromethane (Surr)	97		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK30**

Lab Sample ID: 280-15156-8
Client Matrix: Solid
% Moisture: 9.8

Date Sampled: 04/26/2011 0850
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6253.D
Dilution:	1.0			Initial Weight/Volume:	4.324 g
Analysis Date:	04/29/2011 1757			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK31**

Lab Sample ID: 280-15156-9
Client Matrix: Solid
% Moisture: 10.3

Date Sampled: 04/26/2011 0855
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6254.D
Dilution:	1.0			Initial Weight/Volume:	4.147 g
Analysis Date:	04/29/2011 1820			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		7.2	U	7.2	27
Benzene		0.63	U	0.63	6.7
Bromodichloromethane		0.30	U	0.30	6.7
Bromoform		0.31	U	0.31	6.7
Bromomethane		0.67	U	0.67	13
2-Butanone (MEK)		2.5	U	2.5	13
Carbon disulfide		0.56	U	0.56	6.7
Carbon tetrachloride		0.85	U	0.85	6.7
Chlorobenzene		0.73	U	0.73	6.7
Dibromochloromethane		0.77	U	0.77	6.7
Chloroethane		1.2	U	1.2	13
Chloroform		0.39	U	0.39	6.7
Chloromethane		1.0	U	1.0	13
1,1-Dichloroethane		0.28	U	0.28	6.7
1,2-Dichloroethane		0.94	U	0.94	6.7
1,1-Dichloroethene		0.79	U	0.79	6.7
1,2-Dichloroethene, Total		0.52	U	0.52	6.7
1,2-Dichloropropane		0.74	U	0.74	6.7
cis-1,3-Dichloropropene		1.7	U	1.7	6.7
trans-1,3-Dichloropropene		0.90	U	0.90	6.7
Ethylbenzene		0.90	U	0.90	6.7
2-Hexanone		6.6	U	6.6	27
Methylene Chloride		1.0	U	1.0	6.7
4-Methyl-2-pentanone (MIBK)		5.9	U	5.9	13
Styrene		0.85	U	0.85	6.7
1,1,2,2-Tetrachloroethane		0.82	U	0.82	6.7
Tetrachloroethene		0.79	U	0.79	6.7
Toluene		0.93	U	0.93	6.7
1,1,1-Trichloroethane		0.70	U	0.70	6.7
1,1,2-Trichloroethane		1.2	U	1.2	6.7
Trichloroethene		0.31	U	0.31	6.7
Vinyl chloride		1.8	U	1.8	6.7
Xylenes, Total		0.82	U	0.82	6.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		58 - 140
Toluene-d8 (Surr)	115		80 - 126
4-Bromofluorobenzene (Surr)	121		76 - 127
Dibromofluoromethane (Surr)	101		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK31**

Lab Sample ID: 280-15156-9
Client Matrix: Solid
% Moisture: 10.3

Date Sampled: 04/26/2011 0855
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6254.D
Dilution:	1.0			Initial Weight/Volume:	4.147 g
Analysis Date:	04/29/2011 1820			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK32**

Lab Sample ID: 280-15156-10
Client Matrix: Solid
% Moisture: 7.8

Date Sampled: 04/26/2011 0930
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65166	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6305.D
Dilution:	1.0			Initial Weight/Volume:	4.857 g
Analysis Date:	04/30/2011 1856			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.0	U	6.0	22
Benzene		0.52	U	0.52	5.6
Bromodichloromethane		0.25	U	0.25	5.6
Bromoform		0.26	U	0.26	5.6
Bromomethane		0.56	U	0.56	11
2-Butanone (MEK)		2.0	U	2.0	11
Carbon disulfide		0.47	U	0.47	5.6
Carbon tetrachloride		0.70	U T	0.70	5.6
Chlorobenzene		0.60	U	0.60	5.6
Dibromochloromethane		0.64	U	0.64	5.6
Chloroethane		0.99	U	0.99	11
Chloroform		0.32	U	0.32	5.6
Chloromethane		0.86	U	0.86	11
1,1-Dichloroethane		0.23	U	0.23	5.6
1,2-Dichloroethane		0.78	U	0.78	5.6
1,1-Dichloroethene		0.66	U T	0.66	5.6
1,2-Dichloroethene, Total		0.44	U T	0.44	5.6
1,2-Dichloropropane		0.61	U	0.61	5.6
cis-1,3-Dichloropropene		1.4	U	1.4	5.6
trans-1,3-Dichloropropene		0.75	U	0.75	5.6
Ethylbenzene		0.75	U T	0.75	5.6
2-Hexanone		5.5	U	5.5	22
Methylene Chloride		0.84	U	0.84	5.6
4-Methyl-2-pentanone (MIBK)		4.9	U	4.9	11
Styrene		0.70	U	0.70	5.6
1,1,2,2-Tetrachloroethane		0.68	U	0.68	5.6
Tetrachloroethene		0.66	U T	0.66	5.6
Toluene		0.77	U	0.77	5.6
1,1,1-Trichloroethane		0.58	U	0.58	5.6
1,1,2-Trichloroethane		0.98	U	0.98	5.6
Trichloroethene		0.26	U T	0.26	5.6
Vinyl chloride		1.5	U	1.5	5.6
Xylenes, Total		0.68	U	0.68	5.6

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		58 - 140
Toluene-d8 (Surr)	117		80 - 126
4-Bromofluorobenzene (Surr)	112		76 - 127
Dibromofluoromethane (Surr)	98		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK32**

Lab Sample ID: 280-15156-10
Client Matrix: Solid
% Moisture: 7.8

Date Sampled: 04/26/2011 0930
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65166	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6305.D
Dilution:	1.0			Initial Weight/Volume:	4.857 g
Analysis Date:	04/30/2011 1856			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK33**

Lab Sample ID: 280-15156-11
Client Matrix: Solid % Moisture: 8.2

Date Sampled: 04/26/2011 0840
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6256.D
Dilution:	1.0			Initial Weight/Volume:	5.324 g
Analysis Date:	04/29/2011 1906			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.5	U	5.5	20
Benzene		0.48	U	0.48	5.1
Bromodichloromethane		0.23	U	0.23	5.1
Bromoform		0.24	U	0.24	5.1
Bromomethane		0.51	U	0.51	10
2-Butanone (MEK)		1.9	U	1.9	10
Carbon disulfide		0.43	U	0.43	5.1
Carbon tetrachloride		0.64	U	0.64	5.1
Chlorobenzene		0.55	U	0.55	5.1
Dibromochloromethane		0.58	U	0.58	5.1
Chloroethane		0.91	U	0.91	10
Chloroform		0.30	U	0.30	5.1
Chloromethane		0.79	U	0.79	10
1,1-Dichloroethane		0.21	U	0.21	5.1
1,2-Dichloroethane		0.72	U	0.72	5.1
1,1-Dichloroethene		0.60	U	0.60	5.1
1,2-Dichloroethene, Total		0.40	U	0.40	5.1
1,2-Dichloropropane		0.56	U	0.56	5.1
cis-1,3-Dichloropropene		1.3	U	1.3	5.1
trans-1,3-Dichloropropene		0.69	U	0.69	5.1
Ethylbenzene		0.69	U	0.69	5.1
2-Hexanone		5.0	U	5.0	20
Methylene Chloride		0.77	U	0.77	5.1
4-Methyl-2-pentanone (MIBK)		4.5	U	4.5	10
Styrene		0.64	U	0.64	5.1
1,1,2,2-Tetrachloroethane		0.62	U	0.62	5.1
Tetrachloroethene		0.60	U	0.60	5.1
Toluene		0.71	U	0.71	5.1
1,1,1-Trichloroethane		0.53	U	0.53	5.1
1,1,2-Trichloroethane		0.90	U	0.90	5.1
Trichloroethene		0.24	U	0.24	5.1
Vinyl chloride		1.4	U	1.4	5.1
Xylenes, Total		0.62	U	0.62	5.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		58 - 140
Toluene-d8 (Surr)	118		80 - 126
4-Bromofluorobenzene (Surr)	123		76 - 127
Dibromofluoromethane (Surr)	101		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK33**

Lab Sample ID: 280-15156-11
Client Matrix: Solid

% Moisture: 8.2

Date Sampled: 04/26/2011 0840
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6256.D
Dilution:	1.0			Initial Weight/Volume:	5.324 g
Analysis Date:	04/29/2011 1906			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK34**

Lab Sample ID: 280-15156-12
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 04/26/2011 0900
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6257.D
Dilution:	1.0			Initial Weight/Volume:	4.241 g
Analysis Date:	04/29/2011 1929			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.8	U	6.8	25
Benzene		0.60	U	0.60	6.3
Bromodichloromethane		0.28	U	0.28	6.3
Bromoform		0.29	U	0.29	6.3
Bromomethane		0.63	U	0.63	13
2-Butanone (MEK)		2.3	U	2.3	13
Carbon disulfide		0.53	U	0.53	6.3
Carbon tetrachloride		0.80	U	0.80	6.3
Chlorobenzene		0.68	U	0.68	6.3
Dibromochloromethane		0.72	U	0.72	6.3
Chloroethane		1.1	U	1.1	13
Chloroform		0.37	U	0.37	6.3
Chloromethane		0.97	U	0.97	13
1,1-Dichloroethane		0.27	U	0.27	6.3
1,2-Dichloroethane		0.89	U	0.89	6.3
1,1-Dichloroethene		0.75	U	0.75	6.3
1,2-Dichloroethene, Total		0.49	U	0.49	6.3
1,2-Dichloropropane		0.70	U	0.70	6.3
cis-1,3-Dichloropropene		1.6	U	1.6	6.3
trans-1,3-Dichloropropene		0.85	U	0.85	6.3
Ethylbenzene		0.85	U	0.85	6.3
2-Hexanone		6.2	U	6.2	25
Methylene Chloride		0.95	U	0.95	6.3
4-Methyl-2-pentanone (MIBK)		5.5	U	5.5	13
Styrene		0.80	U	0.80	6.3
1,1,2,2-Tetrachloroethane		0.77	U	0.77	6.3
Tetrachloroethene		0.75	U	0.75	6.3
Toluene		0.87	U	0.87	6.3
1,1,1-Trichloroethane		0.66	U	0.66	6.3
1,1,2-Trichloroethane		1.1	U	1.1	6.3
Trichloroethene		0.29	U	0.29	6.3
Vinyl chloride		1.7	U	1.7	6.3
Xylenes, Total		0.77	U	0.77	6.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		58 - 140
Toluene-d8 (Surr)	116		80 - 126
4-Bromofluorobenzene (Surr)	113		76 - 127
Dibromofluoromethane (Surr)	101		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK34**

Lab Sample ID: 280-15156-12
Client Matrix: Solid

% Moisture: 6.9

Date Sampled: 04/26/2011 0900
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6257.D
Dilution:	1.0			Initial Weight/Volume:	4.241 g
Analysis Date:	04/29/2011 1929			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK35**

Lab Sample ID: 280-15156-13
Client Matrix: Solid
% Moisture: 8.8

Date Sampled: 04/26/2011 0825
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65166	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6308.D
Dilution:	1.0			Initial Weight/Volume:	4.858 g
Analysis Date:	04/30/2011 2005			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.1	U	6.1	23
Benzene		0.53	U	0.53	5.6
Bromodichloromethane		0.25	U	0.25	5.6
Bromoform		0.26	U	0.26	5.6
Bromomethane		0.56	U	0.56	11
2-Butanone (MEK)		2.1	U	2.1	11
Carbon disulfide		0.47	U	0.47	5.6
Carbon tetrachloride		0.71	U	0.71	5.6
Chlorobenzene		0.61	U	0.61	5.6
Dibromochloromethane		0.64	U	0.64	5.6
Chloroethane		1.0	U	1.0	11
Chloroform		0.33	U	0.33	5.6
Chloromethane		0.87	U	0.87	11
1,1-Dichloroethane		0.24	U	0.24	5.6
1,2-Dichloroethane		0.79	U	0.79	5.6
1,1-Dichloroethene		0.67	U	0.67	5.6
1,2-Dichloroethene, Total		0.44	U	0.44	5.6
1,2-Dichloropropane		0.62	U	0.62	5.6
cis-1,3-Dichloropropene		1.5	U	1.5	5.6
trans-1,3-Dichloropropene		0.76	U	0.76	5.6
Ethylbenzene		0.76	U	0.76	5.6
2-Hexanone		5.5	U	5.5	23
Methylene Chloride		0.85	U	0.85	5.6
4-Methyl-2-pentanone (MIBK)		4.9	U	4.9	11
Styrene		0.71	U	0.71	5.6
1,1,2,2-Tetrachloroethane		0.69	U	0.69	5.6
Tetrachloroethene		0.67	U	0.67	5.6
Toluene		0.78	U	0.78	5.6
1,1,1-Trichloroethane		0.59	U	0.59	5.6
1,1,2-Trichloroethane		0.99	U	0.99	5.6
Trichloroethene		0.26	U	0.26	5.6
Vinyl chloride		1.5	U	1.5	5.6
Xylenes, Total		0.69	U	0.69	5.6

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		58 - 140
Toluene-d8 (Surr)	121		80 - 126
4-Bromofluorobenzene (Surr)	127		76 - 127
Dibromofluoromethane (Surr)	100		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK35**

Lab Sample ID: 280-15156-13
Client Matrix: Solid
% Moisture: 8.8

Date Sampled: 04/26/2011 0825
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65166	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6308.D
Dilution:	1.0			Initial Weight/Volume:	4.858 g
Analysis Date:	04/30/2011 2005			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK36**

Lab Sample ID: 280-15156-14
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 04/26/2011 0830
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65166	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6309.D
Dilution:	1.0			Initial Weight/Volume:	3.544 g
Analysis Date:	04/30/2011 2028			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		8.0	U	8.0	30
Benzene		0.70	U	0.70	7.4
Bromodichloromethane		0.33	U	0.33	7.4
Bromoform		0.34	U	0.34	7.4
Bromomethane		0.74	U	0.74	15
2-Butanone (MEK)		2.7	U	2.7	15
Carbon disulfide		0.62	U	0.62	7.4
Carbon tetrachloride		0.94	U	0.94	7.4
Chlorobenzene		0.80	U	0.80	7.4
Dibromochloromethane		0.85	U	0.85	7.4
Chloroethane		1.3	U	1.3	15
Chloroform		0.43	U	0.43	7.4
Chloromethane		1.1	U	1.1	15
1,1-Dichloroethane		0.31	U	0.31	7.4
1,2-Dichloroethane		1.0	U	1.0	7.4
1,1-Dichloroethene		0.88	U	0.88	7.4
1,2-Dichloroethene, Total		0.58	U	0.58	7.4
1,2-Dichloropropane		0.82	U	0.82	7.4
cis-1,3-Dichloropropene		1.9	U	1.9	7.4
trans-1,3-Dichloropropene		1.0	U	1.0	7.4
Ethylbenzene		1.0	U	1.0	7.4
2-Hexanone		7.3	U	7.3	30
Methylene Chloride		1.1	U	1.1	7.4
4-Methyl-2-pentanone (MIBK)		6.5	U	6.5	15
Styrene		0.94	U	0.94	7.4
1,1,2,2-Tetrachloroethane		0.91	U	0.91	7.4
Tetrachloroethene		0.88	U	0.88	7.4
Toluene		1.0	U	1.0	7.4
1,1,1-Trichloroethane		0.77	U	0.77	7.4
1,1,2-Trichloroethane		1.3	U	1.3	7.4
Trichloroethene		0.34	U	0.34	7.4
Vinyl chloride		2.0	U	2.0	7.4
Xylenes, Total		0.91	U	0.91	7.4

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		58 - 140
Toluene-d8 (Surr)	126		80 - 126
4-Bromofluorobenzene (Surr)	132	*	76 - 127
Dibromofluoromethane (Surr)	98		75 - 121

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK36**

Lab Sample ID: 280-15156-14
Client Matrix: Solid % Moisture: 5.0

Date Sampled: 04/26/2011 0830
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65166	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6309.D
Dilution:	1.0			Initial Weight/Volume:	3.544 g
Analysis Date:	04/30/2011 2028			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK37**

Lab Sample ID: 280-15156-15
Client Matrix: Solid
% Moisture: 7.3

Date Sampled: 04/26/2011 0950
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65478	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6265.D
Dilution:	1.0			Initial Weight/Volume:	4.544 g
Analysis Date:	04/29/2011 2310			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.8	J	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		0.80	U	0.80	5.9
Ethylbenzene		0.80	U	0.80	5.9
2-Hexanone		5.8	U	5.8	24
Methylene Chloride		0.89	U	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)	97		58 - 140
Toluene-d8 (Surr)	111		80 - 126
4-Bromofluorobenzene (Surr)	112		76 - 127
Dibromofluoromethane (Surr)	103		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK37**

Lab Sample ID: 280-15156-15
Client Matrix: Solid
% Moisture: 7.3

Date Sampled: 04/26/2011 0950
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65478	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6265.D
Dilution:	1.0			Initial Weight/Volume:	4.544 g
Analysis Date:	04/29/2011 2310			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK38**

Lab Sample ID: 280-15156-16
Client Matrix: Solid
% Moisture: 9.2

Date Sampled: 04/26/2011 0955
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6239.D
Dilution:	1.0			Initial Weight/Volume:	5.011 g
Analysis Date:	04/29/2011 1205			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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		0.85	U	0.85	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 T	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		0.74	U	0.74	5.5
Ethylbenzene		0.74	U	0.74	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		0.97	U	0.97	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)	94		58 - 140
Toluene-d8 (Surr)	114		80 - 126
4-Bromofluorobenzene (Surr)	118		76 - 127
Dibromofluoromethane (Surr)	98		75 - 121

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK38**

Lab Sample ID: 280-15156-16
Client Matrix: Solid % Moisture: 9.2

Date Sampled: 04/26/2011 0955
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6239.D
Dilution:	1.0			Initial Weight/Volume:	5.011 g
Analysis Date:	04/29/2011 1205			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK39**

Lab Sample ID: 280-15156-17
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 04/26/2011 1320
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6242.D
Dilution:	1.0			Initial Weight/Volume:	5.118 g
Analysis Date:	04/29/2011 1314			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.5	U	5.5	20
Benzene		0.48	U	0.48	5.1
Bromodichloromethane		0.23	U	0.23	5.1
Bromoform		0.24	U	0.24	5.1
Bromomethane		0.51	U	0.51	10
2-Butanone (MEK)		1.9	U	1.9	10
Carbon disulfide		0.43	U	0.43	5.1
Carbon tetrachloride		0.65	U	0.65	5.1
Chlorobenzene		0.55	U	0.55	5.1
Dibromochloromethane		0.58	U	0.58	5.1
Chloroethane		0.91	U	0.91	10
Chloroform		0.30	U	0.30	5.1
Chloromethane		0.79	U	0.79	10
1,1-Dichloroethane		0.22	U	0.22	5.1
1,2-Dichloroethane		0.72	U	0.72	5.1
1,1-Dichloroethene		0.60	U	0.60	5.1
1,2-Dichloroethene, Total		0.40	U	0.40	5.1
1,2-Dichloropropane		0.56	U	0.56	5.1
cis-1,3-Dichloropropene		1.3	U	1.3	5.1
trans-1,3-Dichloropropene		0.69	U	0.69	5.1
Ethylbenzene		0.69	U	0.69	5.1
2-Hexanone		5.0	U	5.0	20
Methylene Chloride		0.77	U	0.77	5.1
4-Methyl-2-pentanone (MIBK)		4.5	U	4.5	10
Styrene		0.65	U	0.65	5.1
1,1,2,2-Tetrachloroethane		0.63	U	0.63	5.1
Tetrachloroethene		0.60	U	0.60	5.1
Toluene		0.71	U	0.71	5.1
1,1,1-Trichloroethane		0.53	U	0.53	5.1
1,1,2-Trichloroethane		0.90	U	0.90	5.1
Trichloroethene		0.24	U	0.24	5.1
Vinyl chloride		1.4	U	1.4	5.1
Xylenes, Total		0.63	U	0.63	5.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		58 - 140
Toluene-d8 (Surr)	108		80 - 126
4-Bromofluorobenzene (Surr)	106		76 - 127
Dibromofluoromethane (Surr)	97		75 - 121

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK39**

Lab Sample ID: 280-15156-17
Client Matrix: Solid % Moisture: 4.7

Date Sampled: 04/26/2011 1320
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6242.D
Dilution:	1.0			Initial Weight/Volume:	5.118 g
Analysis Date:	04/29/2011 1314			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK40**

Lab Sample ID: 280-15156-18
Client Matrix: Solid % Moisture: 5.9

Date Sampled: 04/26/2011 1335
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6243.D
Dilution:	1.0			Initial Weight/Volume:	5.039 g
Analysis Date:	04/29/2011 1337			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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		0.66	U	0.66	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		0.66	U	0.66	5.3
1,1,2,2-Tetrachloroethane		0.64	U	0.64	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		0.64	U	0.64	5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		58 - 140
Toluene-d8 (Surr)	111		80 - 126
4-Bromofluorobenzene (Surr)	118		76 - 127
Dibromofluoromethane (Surr)	98		75 - 121

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK40**

Lab Sample ID: 280-15156-18
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 04/26/2011 1335
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6243.D
Dilution:	1.0			Initial Weight/Volume:	5.039 g
Analysis Date:	04/29/2011 1337			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK41**

Lab Sample ID: 280-15156-19
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6244.D
Dilution:	1.0			Initial Weight/Volume:	5.261 g
Analysis Date:	04/29/2011 1400			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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		0.53	U	0.53	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)	96		58 - 140
Toluene-d8 (Surr)	106		80 - 126
4-Bromofluorobenzene (Surr)	105		76 - 127
Dibromofluoromethane (Surr)	100		75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK41**

Lab Sample ID: 280-15156-19
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6244.D
Dilution:	1.0			Initial Weight/Volume:	5.261 g
Analysis Date:	04/29/2011 1400			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HKF5**

Lab Sample ID: 280-15156-20
Client Matrix: Solid % Moisture: 0.0

Date Sampled: 04/26/2011 0805
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6245.D
Dilution:	1.0			Initial Weight/Volume:	3.814 g
Analysis Date:	04/29/2011 1424			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		41		7.1	26
Benzene		0.62	U	0.62	6.6
Bromodichloromethane		0.29	U	0.29	6.6
Bromoform		0.30	U	0.30	6.6
Bromomethane		0.66	U	0.66	13
2-Butanone (MEK)		9.0	J	2.4	13
Carbon disulfide		0.55	U	0.55	6.6
Carbon tetrachloride		0.83	U	0.83	6.6
Chlorobenzene		0.71	U	0.71	6.6
Dibromochloromethane		0.75	U	0.75	6.6
Chloroethane		1.2	U	1.2	13
Chloroform		0.38	U	0.38	6.6
Chloromethane		1.0	U	1.0	13
1,1-Dichloroethane		0.28	U	0.28	6.6
1,2-Dichloroethane		0.92	U	0.92	6.6
1,1-Dichloroethene		0.77	U	0.77	6.6
1,2-Dichloroethene, Total		0.51	U	0.51	6.6
1,2-Dichloropropane		0.72	U	0.72	6.6
cis-1,3-Dichloropropene		1.7	U	1.7	6.6
trans-1,3-Dichloropropene		0.88	U	0.88	6.6
Ethylbenzene		0.88	U	0.88	6.6
2-Hexanone		6.4	U	6.4	26
Methylene Chloride		0.98	U	0.98	6.6
4-Methyl-2-pentanone (MIBK)		5.7	U	5.7	13
Styrene		0.83	U	0.83	6.6
1,1,2,2-Tetrachloroethane		0.80	U	0.80	6.6
Tetrachloroethene		0.77	U	0.77	6.6
Toluene		0.90	U	0.90	6.6
1,1,1-Trichloroethane		0.68	U	0.68	6.6
1,1,2-Trichloroethane		1.2	U	1.2	6.6
Trichloroethene		0.30	U	0.30	6.6
Vinyl chloride		1.8	U	1.8	6.6
Xylenes, Total		0.80	U	0.80	6.6

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		58 - 140
Toluene-d8 (Surr)	109		80 - 126
4-Bromofluorobenzene (Surr)	103		76 - 127
Dibromofluoromethane (Surr)	98		75 - 121

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HKF5**

Lab Sample ID: 280-15156-20
Client Matrix: Solid % Moisture: 0.0

Date Sampled: 04/26/2011 0805
Date Received: 04/28/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-64690	Lab File ID:	J6245.D
Dilution:	1.0			Initial Weight/Volume:	3.814 g
Analysis Date:	04/29/2011 1424			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				

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: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK23**

Lab Sample ID: 280-15156-1
Client Matrix: Solid

% Moisture: 6.2

Date Sampled: 04/26/2011 1225
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/03/2011 0007			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.58	U	0.58	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.89	J	0.62	1.8
Aldrin		0.27	U	0.27	1.7
alpha-BHC		0.23	U	0.23	1.7
beta-BHC		0.70	U	0.70	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.49	U	0.49	1.7
Heptachlor		0.23	U	0.23	1.7
Heptachlor epoxide		0.45	U	0.45	1.7
Endosulfan I		0.19	U	0.19	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.52	U	0.52	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.48	U	0.48	3.5
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	90		59 - 115
Decachlorobiphenyl	113		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK24**

Lab Sample ID: 280-15156-2
Client Matrix: Solid
% Moisture: 7.5

Date Sampled: 04/26/2011 1010
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	32.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/03/2011 0023			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			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		1.2	J	0.58	1.7
Aldrin		0.25	U	0.25	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.66	U	0.66	1.6
delta-BHC		0.40	U	0.40	1.6
gamma-BHC (Lindane)		0.46	U	0.46	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.42	U	0.42	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.48	U	0.48	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.45	U	0.45	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	82		59 - 115
Decachlorobiphenyl	138	*	63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK25**

Lab Sample ID: 280-15156-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65939	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-65424	Initial Weight/Volume:	32.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/06/2011 1000			Injection Volume:	1 uL
Prep Date:	05/03/2011 1619			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 N	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	3.2
alpha-Chlordane		0.31	U	0.31	1.6
Dieldrin		0.20	U	0.20	1.6
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	97		59 - 115
Decachlorobiphenyl	98		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK26**

Lab Sample ID: 280-15156-4
Client Matrix: Solid
% Moisture: 8.7

Date Sampled: 04/26/2011 1000
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/03/2011 0040			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		1.1	J X	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK27**

Lab Sample ID: 280-15156-5
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 04/26/2011 1300
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 2104			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		1.2	J	0.62	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.70	U	0.70	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.49	U	0.49	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.45	U	0.45	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.5
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	82		59 - 115
Decachlorobiphenyl	112		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK28**

Lab Sample ID: 280-15156-6
Client Matrix: Solid
% Moisture: 11.0

Date Sampled: 04/26/2011 1305
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1427			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.61	U	0.61	1.9
4,4'-DDE		1.6	J X	0.27	1.9
4,4'-DDT		0.88	J	0.66	1.9
Aldrin		0.28	U	0.28	1.8
alpha-BHC		0.24	U	0.24	1.8
beta-BHC		0.74	U	0.74	1.8
delta-BHC		0.45	U	0.45	1.8
gamma-BHC (Lindane)		0.52	U	0.52	1.8
Heptachlor		0.24	U	0.24	1.8
Heptachlor epoxide		0.48	U	0.48	1.8
Endosulfan I		0.20	U	0.20	1.8
Endosulfan II		0.32	U	0.32	1.9
Endosulfan sulfate		0.31	U	0.31	1.9
Endrin		0.34	U	0.34	1.9
Endrin aldehyde		0.19	U	0.19	1.9
Endrin ketone		0.55	U	0.55	1.9
gamma-Chlordane		0.30	U	0.30	1.9
Methoxychlor		0.50	U	0.50	3.7
alpha-Chlordane		0.36	U	0.36	1.9
Dieldrin		0.23	U	0.23	1.9
Toxaphene		18	U	18	180

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	72		59 - 115
Decachlorobiphenyl	83		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK29**

Lab Sample ID: 280-15156-7
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 04/26/2011 0935
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1550			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	76		59 - 115
Decachlorobiphenyl	98		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK30**

Lab Sample ID: 280-15156-8
Client Matrix: Solid

% Moisture: 9.8

Date Sampled: 04/26/2011 0850
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1606			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.60	U	0.60	1.9
4,4'-DDE		1.2	J	0.26	1.9
4,4'-DDT		0.88	J	0.65	1.9
Aldrin		0.27	U	0.27	1.8
alpha-BHC		0.23	U	0.23	1.8
beta-BHC		0.73	U	0.73	1.8
delta-BHC		0.44	U	0.44	1.8
gamma-BHC (Lindane)		0.51	U	0.51	1.8
Heptachlor		0.23	U	0.23	1.8
Heptachlor epoxide		0.47	U	0.47	1.8
Endosulfan I		0.19	U	0.19	1.8
Endosulfan II		0.31	U	0.31	1.9
Endosulfan sulfate		0.30	U	0.30	1.9
Endrin		0.33	U	0.33	1.9
Endrin aldehyde		0.19	U	0.19	1.9
Endrin ketone		0.53	U	0.53	1.9
gamma-Chlordane		0.29	U	0.29	1.9
Methoxychlor		0.49	U	0.49	3.6
alpha-Chlordane		0.35	U	0.35	1.9
Dieldrin		0.23	U	0.23	1.9
Toxaphene		17	U	17	180

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	75		59 - 115
Decachlorobiphenyl	94		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK31**

Lab Sample ID: 280-15156-9
Client Matrix: Solid
% Moisture: 10.3

Date Sampled: 04/26/2011 0855
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1623			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			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		1.8	X	0.25	1.8
4,4'-DDT		0.67	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		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	74		59 - 115
Decachlorobiphenyl	93		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK32**

Lab Sample ID: 280-15156-10
Client Matrix: Solid
% Moisture: 7.8

Date Sampled: 04/26/2011 0930
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1746			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.58	U	0.58	1.8
4,4'-DDE		0.76	J X	0.25	1.8
4,4'-DDT		0.63	U	0.63	1.8
Aldrin		0.27	U	0.27	1.8
alpha-BHC		0.23	U	0.23	1.8
beta-BHC		0.71	U	0.71	1.8
delta-BHC		0.43	U	0.43	1.8
gamma-BHC (Lindane)		0.49	U	0.49	1.8
Heptachlor		0.23	U	0.23	1.8
Heptachlor epoxide		0.45	U	0.45	1.8
Endosulfan I		0.19	U	0.19	1.8
Endosulfan II		0.31	U	0.31	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.33	U	0.33	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.52	U	0.52	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.48	U	0.48	3.5
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	180

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	76		59 - 115
Decachlorobiphenyl	92		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK33**

Lab Sample ID: 280-15156-11
Client Matrix: Solid
% Moisture: 8.2

Date Sampled: 04/26/2011 0840
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1802			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.63	J X	0.25	1.8
4,4'-DDT		0.62	U	0.62	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.70	U	0.70	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.49	U	0.49	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.45	U	0.45	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.5
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	75		59 - 115
Decachlorobiphenyl	94		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK34**

Lab Sample ID: 280-15156-12
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 04/26/2011 0900
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1819			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.62	U	0.62	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.42	U	0.42	1.7
gamma-BHC (Lindane)		0.49	U	0.49	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.45	U	0.45	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.5
alpha-Chlordane		0.34	U	0.34	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		17	U	17	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	93		59 - 115
Decachlorobiphenyl	89		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK35**

Lab Sample ID: 280-15156-13
Client Matrix: Solid
% Moisture: 8.8

Date Sampled: 04/26/2011 0825
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 2121			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK36**

Lab Sample ID: 280-15156-14
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 04/26/2011 0830
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 2137			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			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		0.31	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		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.50	U	0.50	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.46	U	0.46	3.4
alpha-Chlordane		0.33	U	0.33	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	92		59 - 115
Decachlorobiphenyl	90		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK37**

Lab Sample ID: 280-15156-15
Client Matrix: Solid
% Moisture: 7.3

Date Sampled: 04/26/2011 0950
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 2154			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	89		59 - 115
Decachlorobiphenyl	93		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK38**

Lab Sample ID: 280-15156-16
Client Matrix: Solid
% Moisture: 9.2

Date Sampled: 04/26/2011 0955
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1835			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.60	U	0.60	1.9
4,4'-DDE		0.26	J X	0.26	1.9
4,4'-DDT		0.65	U	0.65	1.9
Aldrin		0.27	U	0.27	1.8
alpha-BHC		0.23	U	0.23	1.8
beta-BHC		0.73	U	0.73	1.8
delta-BHC		0.44	U	0.44	1.8
gamma-BHC (Lindane)		0.51	U	0.51	1.8
Heptachlor		0.23	U	0.23	1.8
Heptachlor epoxide		0.47	U	0.47	1.8
Endosulfan I		0.19	U	0.19	1.8
Endosulfan II		0.31	U	0.31	1.9
Endosulfan sulfate		0.30	U	0.30	1.9
Endrin		0.33	U	0.33	1.9
Endrin aldehyde		0.19	U	0.19	1.9
Endrin ketone		0.53	U	0.53	1.9
gamma-Chlordane		0.29	U	0.29	1.9
Methoxychlor		0.49	U	0.49	3.6
alpha-Chlordane		0.35	U	0.35	1.9
Dieldrin		0.23	U	0.23	1.9
Toxaphene		17	U	17	180

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

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK39**

Lab Sample ID: 280-15156-17
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 04/26/2011 1320
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	31.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 2211			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			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		0.28	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		0.49	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	94		59 - 115
Decachlorobiphenyl	89		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK40**

Lab Sample ID: 280-15156-18
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 04/26/2011 1335
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1852			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	73		59 - 115
Decachlorobiphenyl	92		63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK41**

Lab Sample ID: 280-15156-19
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Prep Method:	3550C	Prep Batch:	280-64708	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	05/02/2011 1909			Injection Volume:	1 uL
Prep Date:	04/28/2011 2125			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.57	U	0.57	1.8
4,4'-DDE		0.25	U	0.25	1.8
4,4'-DDT		0.61	U	0.61	1.8
Aldrin		0.26	U	0.26	1.7
alpha-BHC		0.22	U	0.22	1.7
beta-BHC		0.69	U	0.69	1.7
delta-BHC		0.41	U	0.41	1.7
gamma-BHC (Lindane)		0.48	U	0.48	1.7
Heptachlor		0.22	U	0.22	1.7
Heptachlor epoxide		0.44	U	0.44	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.30	U	0.30	1.8
Endosulfan sulfate		0.29	U	0.29	1.8
Endrin		0.32	U	0.32	1.8
Endrin aldehyde		0.18	U	0.18	1.8
Endrin ketone		0.51	U	0.51	1.8
gamma-Chlordane		0.28	U	0.28	1.8
Methoxychlor		0.47	U	0.47	3.4
alpha-Chlordane		0.33	U	0.33	1.8
Dieldrin		0.22	U	0.22	1.8
Toxaphene		16	U	16	170

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK23**

Lab Sample ID: 280-15156-1
Client Matrix: Solid
% Moisture: 6.2

Date Sampled: 04/26/2011 1225
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/02/2011 2056			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			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	79		59 - 130
Tetrachloro-m-xylene	86		53 - 128

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK24**

Lab Sample ID: 280-15156-2
Client Matrix: Solid
% Moisture: 7.5

Date Sampled: 04/26/2011 1010
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	32.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/02/2011 2128			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			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	61		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK25**

Lab Sample ID: 280-15156-3
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/02/2011 2159			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			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	85		59 - 130
Tetrachloro-m-xylene	90		53 - 128

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK26**

Lab Sample ID: 280-15156-4
Client Matrix: Solid
% Moisture: 8.7

Date Sampled: 04/26/2011 1000
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	32.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/02/2011 2231			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			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	63		59 - 130
Tetrachloro-m-xylene	88		53 - 128

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK27**

Lab Sample ID: 280-15156-5
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 04/26/2011 1300
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/02/2011 2303			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.0	U	3.0	11
Aroclor 1221		8.6	U	8.6	18
Aroclor 1232		2.1	U	2.1	11
Aroclor 1242		5.0	U	5.0	11
Aroclor 1248		5.0	U	5.0	11
Aroclor 1254		4.2	J P	2.8	11
Aroclor 1260		2.8	U	2.8	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	69		59 - 130
Tetrachloro-m-xylene	92		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK28**

Lab Sample ID: 280-15156-6
Client Matrix: Solid
% Moisture: 11.0

Date Sampled: 04/26/2011 1305
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/02/2011 2335			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.1	U	3.1	11
Aroclor 1221		8.9	U	8.9	18
Aroclor 1232		2.2	U	2.2	11
Aroclor 1242		5.2	U	5.2	11
Aroclor 1248		5.2	U	5.2	11
Aroclor 1254		2.9	U	2.9	11
Aroclor 1260		2.9	U	2.9	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	72		59 - 130
Tetrachloro-m-xylene	89		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK29**

Lab Sample ID: 280-15156-7
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 04/26/2011 0935
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 0006			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			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	82		59 - 130
Tetrachloro-m-xylene	94		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK30**

Lab Sample ID: 280-15156-8
Client Matrix: Solid
% Moisture: 9.8

Date Sampled: 04/26/2011 0850
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 0038			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.0	U	3.0	11
Aroclor 1221		8.7	U	8.7	18
Aroclor 1232		2.2	U	2.2	11
Aroclor 1242		5.0	U	5.0	11
Aroclor 1248		5.0	U	5.0	11
Aroclor 1254		2.8	U	2.8	11
Aroclor 1260		2.8	U	2.8	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	85		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK31**

Lab Sample ID: 280-15156-9
Client Matrix: Solid
% Moisture: 10.3

Date Sampled: 04/26/2011 0855
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 0142			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		3.0	U	3.0	11
Aroclor 1221		8.7	U	8.7	18
Aroclor 1232		2.2	U	2.2	11
Aroclor 1242		5.1	U	5.1	11
Aroclor 1248		5.1	U	5.1	11
Aroclor 1254		2.8	U	2.8	11
Aroclor 1260		2.8	U	2.8	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	77		59 - 130
Tetrachloro-m-xylene	96		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK32**

Lab Sample ID: 280-15156-10
Client Matrix: Solid
% Moisture: 7.8

Date Sampled: 04/26/2011 0930
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 0214			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	11
Aroclor 1221		8.5	U	8.5	17
Aroclor 1232		2.1	U	2.1	11
Aroclor 1242		4.9	U	4.9	11
Aroclor 1248		4.9	U	4.9	11
Aroclor 1254		2.8	U	2.8	11
Aroclor 1260		2.8	U	2.8	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	86		59 - 130
Tetrachloro-m-xylene	94		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK33**

Lab Sample ID: 280-15156-11
Client Matrix: Solid
% Moisture: 8.2

Date Sampled: 04/26/2011 0840
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	32.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 0245			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			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	79		59 - 130
Tetrachloro-m-xylene	92		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK34**

Lab Sample ID: 280-15156-12
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 04/26/2011 0900
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 0317			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	11
Aroclor 1221		8.5	U	8.5	17
Aroclor 1232		2.1	U	2.1	11
Aroclor 1242		4.9	U	4.9	11
Aroclor 1248		4.9	U	4.9	11
Aroclor 1254		2.8	U	2.8	11
Aroclor 1260		2.8	U	2.8	11

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	84		59 - 130
Tetrachloro-m-xylene	95		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK35**

Lab Sample ID: 280-15156-13
Client Matrix: Solid
% Moisture: 8.8

Date Sampled: 04/26/2011 0825
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	31.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 0349			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			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	81		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK36**

Lab Sample ID: 280-15156-14
Client Matrix: Solid
% Moisture: 5.0

Date Sampled: 04/26/2011 0830
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 0421			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	9.9
Aroclor 1221		8.0	U	8.0	16
Aroclor 1232		2.0	U	2.0	9.9
Aroclor 1242		4.6	U	4.6	9.9
Aroclor 1248		4.6	U	4.6	9.9
Aroclor 1254		2.6	U	2.6	9.9
Aroclor 1260		2.6	U	2.6	9.9

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK37**

Lab Sample ID: 280-15156-15
Client Matrix: Solid
% Moisture: 7.3

Date Sampled: 04/26/2011 0950
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	32.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 0835			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			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	85		59 - 130
Tetrachloro-m-xylene	96		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK38**

Lab Sample ID: 280-15156-16
Client Matrix: Solid
% Moisture: 9.2

Date Sampled: 04/26/2011 0955
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	32.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 0453			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			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	49	*	59 - 130
Tetrachloro-m-xylene	89		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK39**

Lab Sample ID: 280-15156-17
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 04/26/2011 1320
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	32 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 0524			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	80		59 - 130
Tetrachloro-m-xylene	87		53 - 128

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK40**

Lab Sample ID: 280-15156-18
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 04/26/2011 1335
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	32.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 0556			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			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	75		59 - 130
Tetrachloro-m-xylene	94		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK41**

Lab Sample ID: 280-15156-19
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-64701	Initial Weight/Volume:	32.7 g
Dilution:	1 0			Final Weight/Volume:	5000 uL
Analysis Date:	05/03/2011 0628			Injection Volume:	1 uL
Prep Date:	04/28/2011 1950			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	78		59 - 130
Tetrachloro-m-xylene	85		53 - 128

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK23**

Lab Sample ID: 280-15156-1
Client Matrix: Solid
% Moisture: 6.2

Date Sampled: 04/26/2011 1225
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	011B1101.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	05/03/2011 1428			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		11000		1100	4300
C10-C28		4300		720	4300

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	99		49 - 115

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK24**

Lab Sample ID: 280-15156-2
Client Matrix: Solid

% Moisture: 7.5

Date Sampled: 04/26/2011 1010
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	012B1201.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	05/03/2011 1456			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	690000	N	1000	4200
C10-C28	310000	N	700	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	113		49 - 115

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK25**

Lab Sample ID: 280-15156-3
Client Matrix: Solid

% Moisture: 4.6

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	015B1501.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	05/03/2011 1620			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	4800		1000	4100
C10-C28	1500	J	700	4100

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

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK26**

Lab Sample ID: 280-15156-4
Client Matrix: Solid

% Moisture: 8.7

Date Sampled: 04/26/2011 1000
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	016B1601.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	05/03/2011 1648			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		77000		1000	4100
C10-C28		49000		700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	109		49 - 115

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK27**

Lab Sample ID: 280-15156-5
Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 04/26/2011 1300
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	017B1701.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	05/03/2011 1716			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	42000		1100	4200
C10-C28	21000		720	4200

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK28**

Lab Sample ID: 280-15156-6
Client Matrix: Solid % Moisture: 11.0

Date Sampled: 04/26/2011 1305
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	018B1801.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	05/03/2011 1744			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		40000		1100	4300
C10-C28		13000		740	4300

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

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK29**

Lab Sample ID: 280-15156-7
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 04/26/2011 0935
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	020B2001.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	05/03/2011 1840			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	18000		1000	4200
C10-C28	6600		710	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	95		49 - 115

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK30**

Lab Sample ID: 280-15156-8
Client Matrix: Solid
% Moisture: 9.8

Date Sampled: 04/26/2011 0850
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	021B2101.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	05/03/2011 1908			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		26000		1000	4200
C10-C28		6300		710	4200

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

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK31**

Lab Sample ID: 280-15156-9
Client Matrix: Solid

% Moisture: 10.3

Date Sampled: 04/26/2011 0855
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	022B2201.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	05/03/2011 1935			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	33000		1100	4300
C10-C28	8900		720	4300

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	88		49 - 115

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK32**

Lab Sample ID: 280-15156-10
Client Matrix: Solid

% Moisture: 7.8

Date Sampled: 04/26/2011 0930
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	023B2301.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	05/03/2011 2003			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	17000		1000	4000
C10-C28	7000		680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	96		49 - 115

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK33**

Lab Sample ID: 280-15156-11
Client Matrix: Solid

% Moisture: 8.2

Date Sampled: 04/26/2011 0840
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	024B2401.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	05/03/2011 2031			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	13000		1100	4300
C10-C28	5300		720	4300

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	72		49 - 115

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK34**

Lab Sample ID: 280-15156-12
Client Matrix: Solid

% Moisture: 6.9

Date Sampled: 04/26/2011 0900
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	025B2501.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	05/03/2011 2058			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	5600		1000	4200
C10-C28	2000	J	700	4200

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK35**

Lab Sample ID: 280-15156-13
Client Matrix: Solid

% Moisture: 8.8

Date Sampled: 04/26/2011 0825
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	026B2601.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	05/03/2011 2126			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	12000		1100	4400
C10-C28	4000	J	740	4400

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

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK36**

Lab Sample ID: 280-15156-14
Client Matrix: Solid

% Moisture: 5.0

Date Sampled: 04/26/2011 0830
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	027B2701.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	05/03/2011 2153			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	11000		1000	4100
C10-C28	2900	J	700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	67		49 - 115

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK37**

Lab Sample ID: 280-15156-15
Client Matrix: Solid % Moisture: 7.3

Date Sampled: 04/26/2011 0950
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	028B2801.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Analysis Date:	05/03/2011 2221			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	6700		1100	4200
C10-C28	3100	J	720	4200

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK38**

Lab Sample ID: 280-15156-16
Client Matrix: Solid % Moisture: 9.2

Date Sampled: 04/26/2011 0955
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	029B2901.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	05/03/2011 2248			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		66000		1100	4300
C10-C28		44000		730	4300

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK39**

Lab Sample ID: 280-15156-17
Client Matrix: Solid % Moisture: 4.7

Date Sampled: 04/26/2011 1320
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65573	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	003B0301.D
Dilution:	1.0			Initial Weight/Volume:	32.1 g
Analysis Date:	05/04/2011 0957			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		7800		980	3900
C10-C28		3000	J	660	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	91		49 - 115

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK40**

Lab Sample ID: 280-15156-18
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 04/26/2011 1335
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65573	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	004B0401.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	05/04/2011 1025			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		46000		1100	4300
C10-C28		20000		720	4300

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	95		49 - 115

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK41**

Lab Sample ID: 280-15156-19
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-65573	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-64721	Lab File ID:	005B0501.D
Dilution:	1.0			Initial Weight/Volume:	29.9 g
Analysis Date:	05/04/2011 1053			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36	7600		1100	4300
C10-C28	3600	J	720	4300

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	94		49 - 115

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK23**

Lab Sample ID: 280-15156-1
Client Matrix: Solid

% Moisture: 6.2

Date Sampled: 04/26/2011 1225
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 1428			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			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		27	X	3.3	15
Benzo[a]pyrene		43		6.6	15
Benzo[b]fluoranthene		31		4.3	15
Benzo[g,h,i]perylene		25	J	7.4	31
Benzo[k]fluoranthene		20		4.1	15
Chrysene		38	J	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		66		13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		35		12	31
Naphthalene		12	U	12	100
Phenanthrene		25	J	12	41
Pyrene		78		12	41

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

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK24**

Lab Sample ID: 280-15156-2
Client Matrix: Solid

% Moisture: 7.5

Date Sampled: 04/26/2011 1010
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	33.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 1458			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			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		410		3.1	15
Benzo[a]pyrene		520		6.3	15
Benzo[b]fluoranthene		410		4.1	15
Benzo[g,h,i]perylene		340		7.1	29
Benzo[k]fluoranthene		220		3.9	15
Chrysene		530		4.8	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		740		13	39
Fluorene		15	J X	5.2	29
Indeno[1,2,3-cd]pyrene		390		12	29
Naphthalene		12	U	12	98
Phenanthrene		300		12	39
Pyrene		940		12	39

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	102		72 - 115

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK25**

Lab Sample ID: 280-15156-3
Client Matrix: Solid

% Moisture: 4.6

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 1529			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.1	U	9.1	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		31	X	3.2	15
Benzo[a]pyrene		64		6.5	15
Benzo[b]fluoranthene		46		4.2	15
Benzo[g,h,i]perylene		45		7.3	30
Benzo[k]fluoranthene		23	X	4.0	15
Chrysene		39	J	4.9	40
Dibenzo(a,h)anthracene		23	J X	11	30
Fluoranthene		43	X	13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		56		12	30
Naphthalene		12	U	12	100
Phenanthrene		15	J	12	40
Pyrene		58		12	40

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK26**

Lab Sample ID: 280-15156-4
Client Matrix: Solid

% Moisture: 8.7

Date Sampled: 04/26/2011 1000
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 1559			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.6	U	9.6	110
Anthracene		110	X	3.3	21
Benzo[a]anthracene		1200		3.4	16
Benzo[a]pyrene		1400		6.8	16
Benzo[b]fluoranthene		1000		4.5	16
Benzo[g,h,i]perylene		960		7.7	32
Benzo[k]fluoranthene		560		4.2	16
Chrysene		1300		5.2	43
Dibenzo(a,h)anthracene		190	X	12	32
Fluoranthene		2800		14	43
Fluorene		170		5.6	32
Indeno[1,2,3-cd]pyrene		990		13	32
Naphthalene		13	U	13	110
Phenanthrene		1300		13	43
Pyrene		3000		13	43

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	147	*	72 - 115

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK27**

Lab Sample ID: 280-15156-5
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 04/26/2011 1300
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 1630			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.5	U	9.5	110
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		340		3.4	16
Benzo[a]pyrene		460		6.8	16
Benzo[b]fluoranthene		360	X	4.4	16
Benzo[g,h,i]perylene		310		7.6	32
Benzo[k]fluoranthene		200		4.2	16
Chrysene		470		5.1	42
Dibenzo(a,h)anthracene		99	X	12	32
Fluoranthene		690		14	42
Fluorene		46		5.6	32
Indeno[1,2,3-cd]pyrene		440		13	32
Naphthalene		13	U	13	110
Phenanthrene		340		13	42
Pyrene		800		13	42

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK28**

Lab Sample ID: 280-15156-6
Client Matrix: Solid

% Moisture: 11.0

Date Sampled: 04/26/2011 1305
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	31.9 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 1700			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		18	J X	9.5	110
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		340	X	3.4	16
Benzo[a]pyrene		320		6.8	16
Benzo[b]fluoranthene		230		4.4	16
Benzo[g,h,i]perylene		240	X	7.6	32
Benzo[k]fluoranthene		130		4.2	16
Chrysene		300		5.1	42
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		520		14	42
Fluorene		5.6	U	5.6	32
Indeno[1,2,3-cd]pyrene		210		13	32
Naphthalene		13	U	13	110
Phenanthrene		230		13	42
Pyrene		630		13	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	110		72 - 115

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK29**

Lab Sample ID: 280-15156-7
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 04/26/2011 0935
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	32.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 1731			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			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		54		3.1	15
Benzo[a]pyrene		68		6.3	15
Benzo[b]fluoranthene		54		4.1	15
Benzo[g,h,i]perylene		7.1	U	7.1	29
Benzo[k]fluoranthene		22		3.9	15
Chrysene		67		4.8	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		110		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		51		12	39
Pyrene		140		12	39

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

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK30**

Lab Sample ID: 280-15156-8
Client Matrix: Solid

% Moisture: 9.8

Date Sampled: 04/26/2011 0850
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	32.7 g
Dilution:	1 0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 1801			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			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	20
Benzo[a]anthracene		25		3.2	15
Benzo[a]pyrene		31		6.5	15
Benzo[b]fluoranthene		22		4.3	15
Benzo[g,h,i]perylene		14	J	7.3	31
Benzo[k]fluoranthene		9.3	J	4.0	15
Chrysene		32	J	4.9	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		40	J	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		18	J	12	41
Pyrene		62		12	41

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK31**

Lab Sample ID: 280-15156-9
Client Matrix: Solid

% Moisture: 10.3

Date Sampled: 04/26/2011 0855
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	32.8 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 1902			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			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	20
Benzo[a]anthracene		170		3.3	15
Benzo[a]pyrene		230		6.5	15
Benzo[b]fluoranthene		170		4.3	15
Benzo[g,h,i]perylene		150		7.3	31
Benzo[k]fluoranthene		97		4.0	15
Chrysene		220		4.9	41
Dibenzo(a,h)anthracene		20	J X	11	31
Fluoranthene		420		13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		160		12	31
Naphthalene		12	U	12	100
Phenanthrene		220		12	41
Pyrene		470		12	41

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK32**

Lab Sample ID: 280-15156-10
Client Matrix: Solid

% Moisture: 7.8

Date Sampled: 04/26/2011 0930
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 1933			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.4	U	9.4	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		38	X	3.3	16
Benzo[a]pyrene		35		6.7	16
Benzo[b]fluoranthene		27		4.4	16
Benzo[g,h,i]perylene		24	J	7.5	31
Benzo[k]fluoranthene		12	J	4.1	16
Chrysene		42		5.0	42
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		52		14	42
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		23	J	12	42
Pyrene		69		12	42

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

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK33**

Lab Sample ID: 280-15156-11
Client Matrix: Solid

% Moisture: 8.2

Date Sampled: 04/26/2011 0840
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 2004			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.7	U	9.7	110
Anthracene		3.3	U	3.3	22
Benzo[a]anthracene		91		3.4	16
Benzo[a]pyrene		120		6.9	16
Benzo[b]fluoranthene		86		4.5	16
Benzo[g,h,i]perylene		73		7.7	32
Benzo[k]fluoranthene		51		4.2	16
Chrysene		120		5.2	43
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		170		14	43
Fluorene		6.7	J	5.7	32
Indeno[1,2,3-cd]pyrene		13	U	13	32
Naphthalene		13	U	13	110
Phenanthrene		85		13	43
Pyrene		220		13	43

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK34**

Lab Sample ID: 280-15156-12
Client Matrix: Solid

% Moisture: 6.9

Date Sampled: 04/26/2011 0900
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	32.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 2034			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK35**

Lab Sample ID: 280-15156-13
Client Matrix: Solid

% Moisture: 8.8

Date Sampled: 04/26/2011 0825
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 2206			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.5	U	9.5	110
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		7.4	J X	3.4	16
Benzo[a]pyrene		14	J	6.8	16
Benzo[b]fluoranthene		8.2	J	4.4	16
Benzo[g,h,i]perylene		7.6	U	7.6	32
Benzo[k]fluoranthene		4.5	J	4.2	16
Chrysene		13	J	5.1	42
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		16	J	14	42
Fluorene		5.6	U	5.6	32
Indeno[1,2,3-cd]pyrene		13	U	13	32
Naphthalene		13	U	13	110
Phenanthrene		13	U	13	42
Pyrene		22	J	13	42

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

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK36**

Lab Sample ID: 280-15156-14
Client Matrix: Solid

% Moisture: 5.0

Date Sampled: 04/26/2011 0830
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 2236			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			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	20
Benzo[a]anthracene		25		3.3	15
Benzo[a]pyrene		25		6.5	15
Benzo[b]fluoranthene		19		4.3	15
Benzo[g,h,i]perylene		19	J	7.3	31
Benzo[k]fluoranthene		7.9	J	4.0	15
Chrysene		27	J	4.9	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		36	J	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		51		12	41

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK37**

Lab Sample ID: 280-15156-15
Client Matrix: Solid

% Moisture: 7.3

Date Sampled: 04/26/2011 0950
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	31.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 2307			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			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		9.5	J	3.3	15
Benzo[a]pyrene		11	J	6.6	15
Benzo[b]fluoranthene		8.3	J X	4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		12	J	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		25	J	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		19	J	12	41
Pyrene		28	J	12	41

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

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK38**

Lab Sample ID: 280-15156-16
Client Matrix: Solid

% Moisture: 9.2

Date Sampled: 04/26/2011 0955
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/29/2011 2337			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.5	U	9.5	110
Anthracene		4.7	J X	3.2	21
Benzo[a]anthracene		86		3.4	16
Benzo[a]pyrene		6.7	U	6.7	16
Benzo[b]fluoranthene		82		4.4	16
Benzo[g,h,i]perylene		71		7.6	32
Benzo[k]fluoranthene		37		4.1	16
Chrysene		110		5.1	42
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		160		14	42
Fluorene		5.6	U	5.6	32
Indeno[1,2,3-cd]pyrene		83		13	32
Naphthalene		13	U	13	110
Phenanthrene		63		13	42
Pyrene		200		13	42

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK39**

Lab Sample ID: 280-15156-17
Client Matrix: Solid

% Moisture: 4.7

Date Sampled: 04/26/2011 1320
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/30/2011 0038			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			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		39	X	3.3	15
Benzo[a]pyrene		38		6.6	15
Benzo[b]fluoranthene		30		4.3	15
Benzo[g,h,i]perylene		25	J	7.4	31
Benzo[k]fluoranthene		12	J	4.1	15
Chrysene		36	J	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		34	J	13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		32		12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		54		12	41

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK40**

Lab Sample ID: 280-15156-18
Client Matrix: Solid
% Moisture: 5.9

Date Sampled: 04/26/2011 1335
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/30/2011 0109			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		150		3.3	16
Benzo[a]pyrene		210		6.6	16
Benzo[b]fluoranthene		150		4.3	16
Benzo[g,h,i]perylene		140		7.5	31
Benzo[k]fluoranthene		94		4.1	16
Chrysene		190		5.0	41
Dibenzo(a,h)anthracene		22	J X	11	31
Fluoranthene		250		13	41
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		160		12	31
Naphthalene		12	U	12	100
Phenanthrene		100		12	41
Pyrene		360		12	41

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

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK41**

Lab Sample ID: 280-15156-19
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-64712	Initial Weight/Volume:	32.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/30/2011 0139			Injection Volume:	20 uL
Prep Date:	04/28/2011 2253			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		32		3.1	15
Benzo[a]pyrene		44		6.3	15
Benzo[b]fluoranthene		36		4.1	15
Benzo[g,h,i]perylene		42		7.0	29
Benzo[k]fluoranthene		15		3.9	15
Chrysene		38	J	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		59		13	39
Fluorene		5.2	U	5.2	29
Indeno[1,2,3-cd]pyrene		44		12	29
Naphthalene		12	U	12	98
Phenanthrene		23	J	12	39
Pyrene		75		12	39

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK23**

Lab Sample ID: 280-15156-1
Client Matrix: Solid

% Moisture: 6.2

Date Sampled: 04/26/2011 1225
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	05/02/2011 1820			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11100	X	1.4	4.6
Antimony		0.35	U	0.35	0.55
Arsenic		74.4		0.61	0.92
Barium		101	X	0.070	0.46
Beryllium		0.15	B	0.030	0.18
Boron		2.6		0.90	1.8
Calcium		4270	X	13.0	46.0
Chromium		13.0		0.053	0.18
Cobalt		8.2	X	0.092	0.92
Copper		15.2		0.20	0.92
Iron		20800	X	3.5	4.6
Lead		682	X	0.25	0.46
Magnesium		4720		3.4	18.4
Manganese		400	X	0.092	0.92
Molybdenum		0.37	B	0.24	1.8
Nickel		12.3	X	0.11	3.7
Potassium		2400		37.7	276
Selenium		0.79	U	0.79	0.92
Silicon		278	X N	5.2	9.2
Silver		0.15	U	0.15	0.18
Sodium		244		54.3	110
Vanadium		40.5		0.086	1.8
Zinc		55.9		0.37	0.92

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	05/05/2011 0124			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.45		0.038	0.19

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	05/02/2011 1602			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.013	B	0.0057	0.018

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK24**

Lab Sample ID: 280-15156-2
Client Matrix: Solid
% Moisture: 7.5

Date Sampled: 04/26/2011 1010
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	05/02/2011 1829			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9690	X	1.4	4.7
Antimony		0.35	U	0.35	0.56
Arsenic		4.9		0.61	0.93
Barium		111	X	0.071	0.47
Beryllium		0.14	B	0.031	0.19
Boron		4.2		0.91	1.9
Calcium		5620	X	13.1	46.6
Chromium		13.5		0.054	0.19
Cobalt		7.2	X	0.093	0.93
Copper		19.6		0.20	0.93
Iron		19400	X	3.5	4.7
Lead		47.7	X	0.25	0.47
Magnesium		4470		3.4	18.6
Manganese		340	X	0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		11.5	X	0.11	3.7
Potassium		2610		38.2	279
Selenium		0.80	U	0.80	0.93
Silicon		249	X	5.3	9.3
Silver		0.21		0.15	0.19
Sodium		275		55.0	112
Vanadium		37.5		0.088	1.9
Zinc		101		0.37	0.93

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	05/05/2011 0134			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.32		0.039	0.19

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	05/02/2011 1604			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.017	B	0.0058	0.018

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK25**

Lab Sample ID: 280-15156-3
Client Matrix: Solid

% Moisture: 4.6

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	05/02/2011 1831			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11900	X	1.6	5.1
Antimony		0.39	U	0.39	0.62
Arsenic		3.9		0.68	1.0
Barium		101	X	0.078	0.51
Beryllium		0.18	B	0.034	0.21
Boron		3.8		1.0	2.1
Calcium		4490	X	14.5	51.4
Chromium		13.9		0.060	0.21
Cobalt		7.8	X	0.10	1.0
Copper		14.8		0.22	1.0
Iron		22800	X	3.9	5.1
Lead		6.8	X	0.28	0.51
Magnesium		5120		3.8	20.6
Manganese		386	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		12.2	X	0.13	4.1
Potassium		4630		42.1	308
Selenium		0.88	U	0.88	1.0
Silicon		299	X	5.8	10.3
Silver		0.16	U	0.16	0.21
Sodium		235		60.7	123
Vanadium		44.0		0.097	2.1
Zinc		49.9		0.41	1.0

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.18 g
Analysis Date:	05/05/2011 0136			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.13	B	0.036	0.18

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	05/02/2011 1611			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0069	B	0.0054	0.016

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK26**

Lab Sample ID: 280-15156-4
Client Matrix: Solid

% Moisture: 8.7

Date Sampled: 04/26/2011 1000
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	05/02/2011 1833			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9750	X	1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		7.8		0.65	0.99
Barium		86.9	X	0.075	0.49
Beryllium		0.13	B	0.033	0.20
Boron		3.2		0.97	2.0
Calcium		4410	X	13.9	49.3
Chromium		11.8		0.057	0.20
Cobalt		6.5	X	0.099	0.99
Copper		15.5		0.21	0.99
Iron		19500	X	3.7	4.9
Lead		26.2	X	0.27	0.49
Magnesium		4300		3.7	19.7
Manganese		241	X	0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		10.5	X	0.12	3.9
Potassium		2810		40.5	296
Selenium		0.85	U	0.85	0.99
Silicon		263	X	5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		210		58.2	118
Vanadium		37.5		0.093	2.0
Zinc		65.9		0.39	0.99

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	05/05/2011 0139			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.22		0.044	0.22

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	05/02/2011 1614			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.014	B	0.0058	0.018

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK27**

Lab Sample ID: 280-15156-5
Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 04/26/2011 1300
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	05/02/2011 1844			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10700	X	1.6	5.1
Antimony		0.38	U	0.38	0.61
Arsenic		109		0.67	1.0
Barium		109	X	0.077	0.51
Beryllium		0.15	B	0.033	0.20
Boron		3.0		0.99	2.0
Calcium		5600	X	14.3	50.6
Chromium		13.5		0.059	0.20
Cobalt		8.3	X	0.10	1.0
Copper		18.6		0.22	1.0
Iron		21500	X	3.8	5.1
Lead		468	X	0.27	0.51
Magnesium		4650		3.7	20.3
Manganese		416	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		12.7	X	0.12	4.1
Potassium		2550		41.5	304
Selenium		0.87	U	0.87	1.0
Silicon		318	X	5.7	10.1
Silver		0.16	U	0.16	0.20
Sodium		240		59.7	122
Vanadium		41.0		0.095	2.0
Zinc		135		0.40	1.0

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	05/05/2011 0141			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.70		0.038	0.19

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	05/02/2011 1616			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK28**

Lab Sample ID: 280-15156-6
Client Matrix: Solid

% Moisture: 11.0

Date Sampled: 04/26/2011 1305
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method: 6010B
Prep Method: 3050B
Dilution: 1.0
Analysis Date: 05/02/2011 1847
Prep Date: 04/29/2011 1500

Analysis Batch: 280-65270
Prep Batch: 280-64750

Instrument ID: MT_026
Lab File ID: 26a050211.asc
Initial Weight/Volume: 1.15 g
Final Weight/Volume: 100 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum	10600	X	1.5	4.9
Antimony	0.37	U	0.37	0.59
Arsenic	111		0.64	0.98
Barium	114	X	0.074	0.49
Beryllium	0.15	B	0.032	0.20
Boron	3.4		0.96	2.0
Calcium	4690	X	13.8	48.8
Chromium	13.6		0.057	0.20
Cobalt	7.9	X	0.098	0.98
Copper	16.9		0.21	0.98
Iron	20300	X	3.7	4.9
Lead	1240	X	0.26	0.49
Magnesium	4710		3.6	19.5
Manganese	442	X	0.098	0.98
Molybdenum	0.25	U	0.25	2.0
Nickel	12.0	X	0.12	3.9
Potassium	2680		40.1	293
Selenium	0.84	U	0.84	0.98
Silicon	285	X	5.5	9.8
Silver	0.16	U	0.16	0.20
Sodium	236		57.6	117
Vanadium	40.5		0.092	2.0
Zinc	103		0.39	0.98

Analysis Method: 6010B
Prep Method: 3050B
Dilution: 1.0
Analysis Date: 05/05/2011 0152
Prep Date: 05/04/2011 1600

Analysis Batch: 280-65692
Prep Batch: 280-65544

Instrument ID: MT_025
Lab File ID: 25A6050411.asc
Initial Weight/Volume: 1.07 g
Final Weight/Volume: 100 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium	0.83		0.043	0.21

7471A Mercury (CVAA)

Analysis Method: 7471A
Prep Method: 7471A
Dilution: 1.0
Analysis Date: 05/02/2011 1618
Prep Date: 05/02/2011 1158

Analysis Batch: 280-65262
Prep Batch: 280-64693

Instrument ID: MT_034
Lab File ID: 110502AA.txt
Initial Weight/Volume: 0.66 g
Final Weight/Volume: 50 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Mercury	0.022		0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK29**

Lab Sample ID: 280-15156-7
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 04/26/2011 0935
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	05/02/2011 1849			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9980	X	1.6	5.3
Antimony		0.40	U	0.40	0.63
Arsenic		7.1		0.70	1.1
Barium		135	X	0.080	0.53
Beryllium		0.14	B	0.035	0.21
Boron		3.5		1.0	2.1
Calcium		5910	X	14.9	52.8
Chromium		13.3		0.061	0.21
Cobalt		7.6	X	0.11	1.1
Copper		20.6		0.23	1.1
Iron		20100	X	4.0	5.3
Lead		49.3	X	0.29	0.53
Magnesium		4600		3.9	21.1
Manganese		359	X	0.11	1.1
Molybdenum		0.27	U	0.27	2.1
Nickel		12.0	X	0.13	4.2
Potassium		2390		43.3	317
Selenium		0.91	U	0.91	1.1
Silicon		358	X	6.0	10.6
Silver		0.17	U	0.17	0.21
Sodium		248		62.3	127
Vanadium		38.3		0.099	2.1
Zinc		113		0.42	1.1

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	05/05/2011 0155			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.27		0.038	0.18

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	05/02/2011 1621			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.022		0.0054	0.016

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK30**

Lab Sample ID: 280-15156-8
Client Matrix: Solid

% Moisture: 9.8

Date Sampled: 04/26/2011 0850
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	05/02/2011 1851			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9490	X	1.5	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		4.1		0.66	1.0
Barium		98.0	X	0.076	0.50
Beryllium		0.036	B	0.033	0.20
Boron		2.8		0.98	2.0
Calcium		5550	X	14.1	49.9
Chromium		11.9		0.058	0.20
Cobalt		7.9	X	0.10	1.0
Copper		18.8		0.22	1.0
Iron		19900	X	3.8	5.0
Lead		108	X	0.27	0.50
Magnesium		5010		3.7	20.0
Manganese		343	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		11.6	X	0.12	4.0
Potassium		1950		40.9	300
Selenium		0.86	U	0.86	1.0
Silicon		318	X	5.7	10
Silver		0.16	U	0.16	0.20
Sodium		294		58.9	120
Vanadium		43.4		0.094	2.0
Zinc		68.3		0.40	1.0

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	05/05/2011 0157			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.20	B	0.042	0.21

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	05/02/2011 1628			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK31**

Lab Sample ID: 280-15156-9
Client Matrix: Solid

% Moisture: 10.3

Date Sampled: 04/26/2011 0855
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	05/02/2011 1854			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11300	X	1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		5.3		0.67	1.0
Barium		130	X	0.077	0.51
Beryllium		0.21		0.033	0.20
Boron		6.4		0.99	2.0
Calcium		4930	X	14.3	50.7
Chromium		13.6		0.059	0.20
Cobalt		7.9	X	0.10	1.0
Copper		17.5		0.22	1.0
Iron		20600	X	3.9	5.1
Lead		69.0	X	0.27	0.51
Magnesium		4660		3.7	20.3
Manganese		366	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		12.0	X	0.12	4.1
Potassium		2710		41.6	304
Selenium		0.87	U	0.87	1.0
Silicon		235	X	5.7	10.1
Silver		0.16	U	0.16	0.20
Sodium		270		59.8	122
Vanadium		41.1		0.095	2.0
Zinc		73.3		0.40	1.0

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	05/05/2011 0200			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.28		0.042	0.21

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	05/02/2011 1630			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.029		0.0059	0.018

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK32**

Lab Sample ID: 280-15156-10
Client Matrix: Solid

% Moisture: 7.8

Date Sampled: 04/26/2011 0930
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1 0			Initial Weight/Volume:	1.08 g
Analysis Date:	05/02/2011 1856			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11200	X	1.6	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		5.3		0.66	1.0
Barium		112	X	0.076	0.50
Beryllium		0.25		0.033	0.20
Boron		6.1		0.98	2.0
Calcium		4980	X	14.2	50.2
Chromium		13.7		0.058	0.20
Cobalt		8.3	X	0.10	1.0
Copper		54.6		0.22	1.0
Iron		21100	X	3.8	5.0
Lead		56.8	X	0.27	0.50
Magnesium		4910		3.7	20.1
Manganese		364	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		16.9	X	0.12	4.0
Potassium		2500		41.2	301
Selenium		0.86	U	0.86	1.0
Silicon		324	X	5.7	10.0
Silver		0.16	U	0.16	0.20
Sodium		257		59.2	120
Vanadium		41.3		0.094	2.0
Zinc		99.8		0.40	1.0

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	05/05/2011 0202			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.66		0.040	0.20

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	05/02/2011 1632			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.014	B	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK33**

Lab Sample ID: 280-15156-11
Client Matrix: Solid

% Moisture: 8.2

Date Sampled: 04/26/2011 0840
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	05/02/2011 1858			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11000	X	1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		4.9		0.64	0.96
Barium		105	X	0.073	0.48
Beryllium		0.15	B	0.032	0.19
Boron		3.1		0.94	1.9
Calcium		4610	X	13.6	48.2
Chromium		13.8		0.056	0.19
Cobalt		8.0	X	0.096	0.96
Copper		16.4		0.21	0.96
Iron		20800	X	3.7	4.8
Lead		20.2	X	0.26	0.48
Magnesium		4870		3.6	19.3
Manganese		357	X	0.096	0.96
Molybdenum		0.25	U	0.25	1.9
Nickel		12.4	X	0.12	3.9
Potassium		2550		39.5	289
Selenium		0.83	U	0.83	0.96
Silicon		322	X	5.5	9.6
Silver		0.15	U	0.15	0.19
Sodium		238		56.9	116
Vanadium		41.5		0.091	1.9
Zinc		63.0		0.38	0.96

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	05/05/2011 0205			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.23		0.041	0.20

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	05/02/2011 1635			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.014	B	0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK34**

Lab Sample ID: 280-15156-12
Client Matrix: Solid

% Moisture: 6.9

Date Sampled: 04/26/2011 0900
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	05/02/2011 1900			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8880	X	1.4	4.6
Antimony		0.35	U	0.35	0.55
Arsenic		4.2		0.61	0.92
Barium		90.3	X	0.070	0.46
Beryllium		0.12	B	0.030	0.18
Boron		16.4		0.90	1.8
Calcium		6000	X	12.9	45.9
Chromium		12.1		0.053	0.18
Cobalt		7.7	X	0.092	0.92
Copper		18.2		0.20	0.92
Iron		18600	X	3.5	4.6
Lead		10.0	X	0.25	0.46
Magnesium		4840		3.4	18.4
Manganese		350	X	0.092	0.92
Molybdenum		0.24	U	0.24	1.8
Nickel		12.6	X	0.11	3.7
Potassium		1740		37.6	275
Selenium		0.79	U	0.79	0.92
Silicon		286	X	5.2	9.2
Silver		0.15	U	0.15	0.18
Sodium		285		54.1	110
Vanadium		38.4		0.086	1.8
Zinc		41.5		0.37	0.92

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	05/05/2011 0207			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.11	B	0.040	0.19

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	05/02/2011 1637			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK35**

Lab Sample ID: 280-15156-13
Client Matrix: Solid

% Moisture: 8.8

Date Sampled: 04/26/2011 0825
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method: 6010B
Prep Method: 3050B
Dilution: 1.0
Analysis Date: 05/02/2011 1912
Prep Date: 04/29/2011 1500

Analysis Batch: 280-65270
Prep Batch: 280-64750

Instrument ID: MT_026
Lab File ID: 26a050211.asc
Initial Weight/Volume: 1.08 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10500	X	1.6	5.1
Antimony		0.39	U	0.39	0.61
Arsenic		4.8		0.67	1.0
Barium		96.4	X	0.077	0.51
Beryllium		0.16	B	0.033	0.20
Boron		3.0		0.99	2.0
Calcium		4630	X	14.3	50.7
Chromium		13.1		0.059	0.20
Cobalt		8.0	X	0.10	1.0
Copper		17.2		0.22	1.0
Iron		20300	X	3.9	5.1
Lead		24.1	X	0.27	0.51
Magnesium		4770		3.8	20.3
Manganese		361	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		12.4	X	0.12	4.1
Potassium		2500		41.6	304
Selenium		0.87	U	0.87	1.0
Silicon		280	X	5.7	10.1
Silver		0.16	U	0.16	0.20
Sodium		225		59.9	122
Vanadium		39.7		0.095	2.0
Zinc		55.4		0.40	1.0

Analysis Method: 6010B
Prep Method: 3050B
Dilution: 1.0
Analysis Date: 05/05/2011 0209
Prep Date: 05/04/2011 1600

Analysis Batch: 280-65692
Prep Batch: 280-65544

Instrument ID: MT_025
Lab File ID: 25A6050411.asc
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.22		0.043	0.21

7471A Mercury (CVAA)

Analysis Method: 7471A
Prep Method: 7471A
Dilution: 1.0
Analysis Date: 05/02/2011 1639
Prep Date: 05/02/2011 1158

Analysis Batch: 280-65262
Prep Batch: 280-64693

Instrument ID: MT_034
Lab File ID: 110502AA.txt
Initial Weight/Volume: 0.64 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.016	B	0.0057	0.017

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK36**

Lab Sample ID: 280-15156-14
Client Matrix: Solid

% Moisture: 5.0

Date Sampled: 04/26/2011 0830
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	05/02/2011 1914			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10400	X	1.6	5.1
Antimony		0.38	U	0.38	0.61
Arsenic		5.8		0.67	1.0
Barium		115	X	0.077	0.51
Beryllium		0.20		0.033	0.20
Boron		7.2		0.99	2.0
Calcium		4520	X	14.3	50.6
Chromium		12.9		0.059	0.20
Cobalt		7.7	X	0.10	1.0
Copper		15.7		0.22	1.0
Iron		19600	X	3.8	5.1
Lead		40.7	X	0.27	0.51
Magnesium		4540		3.7	20.3
Manganese		350	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		11.8	X	0.12	4.1
Potassium		2290		41.5	304
Selenium		0.87	U	0.87	1.0
Silicon		309	X	5.7	10.1
Silver		0.16	U	0.16	0.20
Sodium		227		59.7	122
Vanadium		39.6		0.095	2.0
Zinc		61.1		0.40	1.0

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	05/05/2011 0212			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.31		0.039	0.19

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	05/02/2011 1642			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.019		0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK37**

Lab Sample ID: 280-15156-15
Client Matrix: Solid
% Moisture: 7.3

Date Sampled: 04/26/2011 0950
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	05/02/2011 1916			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10300	X	1.5	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		21.6		0.66	1.0
Barium		90.7	X	0.076	0.50
Beryllium		0.15	B	0.033	0.20
Boron		2.0		0.98	2.0
Calcium		3900	X	14.1	50.0
Chromium		12.1		0.058	0.20
Cobalt		7.8	X	0.10	1.0
Copper		14.0		0.22	1.0
Iron		19500	X	3.8	5.0
Lead		33.2	X	0.27	0.50
Magnesium		4480		3.7	20.0
Manganese		343	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		11.7	X	0.12	4.0
Potassium		2280		41.0	300
Selenium		0.86	U	0.86	1.0
Silicon		275	X	5.7	10
Silver		0.16	U	0.16	0.20
Sodium		238		59.0	120
Vanadium		38.4		0.094	2.0
Zinc		44.0		0.40	1.0

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	05/05/2011 0214			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Cadmium		0.23		0.040	0.20

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Analysis Date:	05/02/2011 1644			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0096	B	0.0058	0.018

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK38**

Lab Sample ID: 280-15156-16
Client Matrix: Solid

% Moisture: 9.2

Date Sampled: 04/26/2011 0955
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	05/02/2011 1918			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Magnesium		4630		3.5	18.8
Zinc		65.4		0.37	0.94

Analysis Method:	6010B	Analysis Batch:	280-65738	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26z050311.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	05/03/2011 1930			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		11100	X	1.5	4.7
Iron		20900	X	3.6	4.7

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	05/05/2011 0226			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		0.39	U	0.39	0.61
Arsenic		30.0		0.67	1.0
Barium		100		0.078	0.51
Beryllium		0.21		0.034	0.20
Boron		2.4		1.0	2.0
Cadmium		0.36		0.042	0.20
Calcium		3920		14.4	51.0
Chromium		13.2		0.059	0.20
Cobalt		7.9	X	0.10	1.0
Copper		15.4		0.22	1.0
Lead		80.2	X	0.28	0.51
Manganese		339	X	0.10	1.0
Molybdenum		0.27	U	0.27	2.0
Nickel		12.2	X	0.13	4.1
Potassium		2460		41.8	306
Selenium		0.88	U	0.88	1.0
Silicon		313		5.8	10.2
Silver		0.16	U	0.16	0.20
Sodium		195	.	60.2	122
Vanadium		38.6		0.096	2.0

7471A Mercury (CVAA)

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK38**

Lab Sample ID: 280-15156-16
Client Matrix: Solid

% Moisture: 9.2

Date Sampled: 04/26/2011 0955
Date Received: 04/28/2011 0930

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	05/02/2011 1646			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Mercury	0.017		0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK39**

Lab Sample ID: 280-15156-17
Client Matrix: Solid

% Moisture: 4.7

Date Sampled: 04/26/2011 1320
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	05/02/2011 1921			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Magnesium	4890		3.4	18.2
Zinc	46.5		0.36	0.91

Analysis Method:	6010B	Analysis Batch:	280-65738	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26z050311.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	05/03/2011 1933			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum	11500	X	1.4	4.6
Iron	22100	X	3.5	4.6

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	05/05/2011 0228			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Antimony	0.35	U	0.35	0.56
Arsenic	6.4		0.61	0.93
Barium	90.5		0.071	0.46
Beryllium	0.21		0.031	0.19
Boron	2.1		0.91	1.9
Cadmium	0.12	B	0.038	0.19
Calcium	4250		13.1	46.4
Chromium	13.3		0.054	0.19
Cobalt	7.9	X	0.093	0.93
Copper	15.7		0.20	0.93
Lead	7.9	X	0.25	0.46
Manganese	317	X	0.093	0.93
Molybdenum	0.24	U	0.24	1.9
Nickel	13.3	X	0.11	3.7
Potassium	2490		38.1	279
Selenium	0.80	U	0.80	0.93
Silicon	358		5.3	9.3
Silver	0.15	U	0.15	0.19
Sodium	190		54.8	111
Vanadium	39.0		0.087	1.9

7471A Mercury (CVAA)

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK39**

Lab Sample ID: 280-15156-17
Client Matrix: Solid

% Moisture: 4.7

Date Sampled: 04/26/2011 1320
Date Received: 04/28/2011 0930

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	05/02/2011 1648			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.010	B	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK40**

Lab Sample ID: 280-15156-18
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 04/26/2011 1335
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-65270	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	05/02/2011 1923			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Magnesium		4360		3.3	17.9
Zinc		56.8		0.36	0.89

Analysis Method:	6010B	Analysis Batch:	280-65738	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-64750	Lab File ID:	26z050311.asc
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	05/03/2011 1935			Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10300	X	1.4	4.5
Iron		19900	X	3.4	4.5

Analysis Method:	6010B	Analysis Batch:	280-65692	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	05/05/2011 0231			Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		0.36	U	0.36	0.56
Arsenic		8.1		0.62	0.94
Barium		90.9		0.071	0.47
Beryllium		0.20		0.031	0.19
Boron		2.9		0.92	1.9
Cadmium		0.25		0.039	0.19
Calcium		7850		13.3	47.0
Chromium		13.0		0.055	0.19
Cobalt		7.3	X	0.094	0.94
Copper		15.7		0.20	0.94
Lead		27.6	X	0.25	0.47
Manganese		308	X	0.094	0.94
Molybdenum		0.24	U	0.24	1.9
Nickel		11.9	X	0.12	3.8
Potassium		2460		38.6	282
Selenium		0.81	U	0.81	0.94
Silicon		361		5.3	9.4
Silver		0.15	U	0.15	0.19
Sodium		214		55.5	113
Vanadium		37.9		0.088	1.9

7471A Mercury (CVAA)

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK40**

Lab Sample ID: 280-15156-18
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 04/26/2011 1335
Date Received: 04/28/2011 0930

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	05/02/2011 1812			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.018		0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK41**

Lab Sample ID: 280-15156-19
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

6010B Metals (ICP)

Analysis Method: 6010B
Prep Method: 3050B
Dilution: 1.0
Analysis Date: 05/02/2011 1926
Prep Date: 04/29/2011 1500

Analysis Batch: 280-65270
Prep Batch: 280-64750

Instrument ID: MT_026
Lab File ID: 26a050211.asc
Initial Weight/Volume: 1.16 g
Final Weight/Volume: 100 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Magnesium	4720		3.4	18.3
Zinc	46.7		0.36	0.92

Analysis Method: 6010B
Prep Method: 3050B
Dilution: 1.0
Analysis Date: 05/03/2011 1937
Prep Date: 04/29/2011 1500

Analysis Batch: 280-65738
Prep Batch: 280-64750

Instrument ID: MT_026
Lab File ID: 26z050311.asc
Initial Weight/Volume: 1.16 g
Final Weight/Volume: 100 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum	11200	X	1.4	4.6
Iron	21300	X	3.5	4.6

Analysis Method: 6010B
Prep Method: 3050B
Dilution: 1.0
Analysis Date: 05/05/2011 0233
Prep Date: 05/04/2011 1600

Analysis Batch: 280-65692
Prep Batch: 280-65544

Instrument ID: MT_025
Lab File ID: 25A6050411.asc
Initial Weight/Volume: 1.07 g
Final Weight/Volume: 100 mL

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Antimony	0.38	U	0.38	0.60
Arsenic	4.2		0.66	0.99
Barium	92.9		0.075	0.50
Beryllium	0.23		0.033	0.20
Boron	3.7		0.97	2.0
Cadmium	0.14	B	0.041	0.20
Calcium	4070		14.0	49.6
Chromium	13.8		0.058	0.20
Cobalt	7.2	X	0.099	0.99
Copper	13.8		0.22	0.99
Lead	6.6	X	0.27	0.50
Manganese	333	X	0.099	0.99
Molybdenum	0.26	U	0.26	2.0
Nickel	11.8	X	0.12	4.0
Potassium	4710		40.7	298
Selenium	0.85	U	0.85	0.99
Silicon	407		5.6	9.9
Silver	0.16	U	0.16	0.20
Sodium	182		58.6	119
Vanadium	40.3		0.093	2.0

7471A Mercury (CVAA)

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Client Sample ID: **J1HK41**

Lab Sample ID: 280-15156-19
Client Matrix: Solid

% Moisture: 5.9

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-65432	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-64693	Lab File ID:	110502AB.txt
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	05/02/2011 1814			Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0090	B	0.0059	0.018

General Chemistry

Client Sample ID: **J1HK23**

Lab Sample ID: 280-15156-1
Client Matrix: Solid

Date Sampled: 04/26/2011 1225
Date Received: 04/28/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1HK24**

Lab Sample ID: 280-15156-2
Client Matrix: Solid

Date Sampled: 04/26/2011 1010
Date Received: 04/28/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1HK25**

Lab Sample ID: 280-15156-3
Client Matrix: Solid

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

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

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

General Chemistry

Client Sample ID: **J1HK26**

Lab Sample ID: 280-15156-4
Client Matrix: Solid

Date Sampled: 04/26/2011 1000
Date Received: 04/28/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1HK27**

Lab Sample ID: 280-15156-5
Client Matrix: Solid

Date Sampled: 04/26/2011 1300
Date Received: 04/28/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1HK28**

Lab Sample ID: 280-15156-6
Client Matrix: Solid

Date Sampled: 04/26/2011 1305
Date Received: 04/28/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	11.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917

DryWt Corrected: N

General Chemistry

Client Sample ID: **J1HK29**

Lab Sample ID: 280-15156-7
Client Matrix: Solid

Date Sampled: 04/26/2011 0935
Date Received: 04/28/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1HK30**

Lab Sample ID: 280-15156-8
Client Matrix: Solid

Date Sampled: 04/26/2011 0850
Date Received: 04/28/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	9.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1HK31**

Lab Sample ID: 280-15156-9
Client Matrix: Solid

Date Sampled: 04/26/2011 0855
Date Received: 04/28/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	10.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1HK32**

Lab Sample ID: 280-15156-10
Client Matrix: Solid

Date Sampled: 04/26/2011 0930
Date Received: 04/28/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1HK33**

Lab Sample ID: 280-15156-11
Client Matrix: Solid

Date Sampled: 04/26/2011 0840
Date Received: 04/28/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917

DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

General Chemistry

Client Sample ID: **J1HK34**

Lab Sample ID: 280-15156-12
Client Matrix: Solid

Date Sampled: 04/26/2011 0900
Date Received: 04/28/2011 0930

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

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917

DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

General Chemistry

Client Sample ID: **J1HK35**

Lab Sample ID: 280-15156-13
Client Matrix: Solid

Date Sampled: 04/26/2011 0825
Date Received: 04/28/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1HK36**

Lab Sample ID: 280-15156-14
Client Matrix: Solid

Date Sampled: 04/26/2011 0830
Date Received: 04/28/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

General Chemistry

Client Sample ID: **J1HK37**

Lab Sample ID: 280-15156-15
Client Matrix: Solid

Date Sampled: 04/26/2011 0950
Date Received: 04/28/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

General Chemistry

Client Sample ID: **J1HK38**

Lab Sample ID: 280-15156-16
Client Matrix: Solid

Date Sampled: 04/26/2011 0955
Date Received: 04/28/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	9.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1HK39**

Lab Sample ID: 280-15156-17
Client Matrix: Solid

Date Sampled: 04/26/2011 1320
Date Received: 04/28/2011 0930

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

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

General Chemistry

Client Sample ID: **J1HK40**

Lab Sample ID: 280-15156-18
Client Matrix: Solid

Date Sampled: 04/26/2011 1335
Date Received: 04/28/2011 0930

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

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

General Chemistry

Client Sample ID: **J1HK41**

Lab Sample ID: 280-15156-19
Client Matrix: Solid

Date Sampled: 04/26/2011 1235
Date Received: 04/28/2011 0930

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

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1HKF5**

Lab Sample ID: 280-15156-20
Client Matrix: Solid

Date Sampled: 04/26/2011 0805
Date Received: 04/28/2011 0930

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

Analysis Batch: 280-64769 Analysis Date: 04/29/2011 0917 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 280-64690					
LCS 280-64690/84-A	Lab Control Sample	T	Solid	5035	
MB 280-64690/1-A	Method Blank	T	Solid	5035	
280-15156-1	J1HK23	T	Solid	5035	
280-15156-2	J1HK24	T	Solid	5035	
280-15156-3	J1HK25	T	Solid	5035	
280-15156-4	J1HK26	T	Solid	5035	
280-15156-5	J1HK27	T	Solid	5035	
280-15156-6	J1HK28	T	Solid	5035	
280-15156-7	J1HK29	T	Solid	5035	
280-15156-8	J1HK30	T	Solid	5035	
280-15156-9	J1HK31	T	Solid	5035	
280-15156-10	J1HK32	T	Solid	5035	
280-15156-10MS	Matrix Spike	T	Solid	5035	
280-15156-10MSD	Matrix Spike Duplicate	T	Solid	5035	
280-15156-11	J1HK33	T	Solid	5035	
280-15156-12	J1HK34	T	Solid	5035	
280-15156-I-13-A MSMS	Matrix Spike	T	Solid	5035	
280-15156-J-13-A MSDMSD	Matrix Spike Duplicate	T	Solid	5035	
280-15156-13	J1HK35	T	Solid	5035	
280-15156-14	J1HK36	T	Solid	5035	
280-15156-15	J1HK37	T	Solid	5035	
280-15156-16	J1HK38	T	Solid	5035	
280-15156-16MS	Matrix Spike	T	Solid	5035	
280-15156-16MSD	Matrix Spike Duplicate	T	Solid	5035	
280-15156-17	J1HK39	T	Solid	5035	
280-15156-18	J1HK40	T	Solid	5035	
280-15156-19	J1HK41	T	Solid	5035	
280-15156-20	J1HKF5	T	Solid	5035	
Analysis Batch:280-65166					
LCS 280-64690/84-A	Lab Control Sample	T	Solid	8260B	280-64690
280-15156-2	J1HK24	T	Solid	8260B	280-64690
280-15156-6	J1HK28	T	Solid	8260B	280-64690
280-15156-10	J1HK32	T	Solid	8260B	280-64690
280-15156-10MS	Matrix Spike	T	Solid	8260B	280-64690
280-15156-10MSD	Matrix Spike Duplicate	T	Solid	8260B	280-64690
280-15156-13	J1HK35	T	Solid	8260B	280-64690
280-15156-14	J1HK36	T	Solid	8260B	280-64690

Client: Washington Closure Hanford

Job Number: 280-15156-1
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QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-65265					
LCS 280-64690/84-A	Lab Control Sample	T	Solid	8260B	280-64690
MB 280-64690/1-A	Method Blank	T	Solid	8260B	280-64690
280-15156-1	J1HK23	T	Solid	8260B	280-64690
280-15156-3	J1HK25	T	Solid	8260B	280-64690
280-15156-4	J1HK26	T	Solid	8260B	280-64690
280-15156-5	J1HK27	T	Solid	8260B	280-64690
280-15156-7	J1HK29	T	Solid	8260B	280-64690
280-15156-8	J1HK30	T	Solid	8260B	280-64690
280-15156-9	J1HK31	T	Solid	8260B	280-64690
280-15156-11	J1HK33	T	Solid	8260B	280-64690
280-15156-12	J1HK34	T	Solid	8260B	280-64690
280-15156-16	J1HK38	T	Solid	8260B	280-64690
280-15156-16MS	Matrix Spike	T	Solid	8260B	280-64690
280-15156-16MSD	Matrix Spike Duplicate	T	Solid	8260B	280-64690
280-15156-17	J1HK39	T	Solid	8260B	280-64690
280-15156-18	J1HK40	T	Solid	8260B	280-64690
280-15156-19	J1HK41	T	Solid	8260B	280-64690
280-15156-20	J1HKF5	T	Solid	8260B	280-64690
Analysis Batch:280-65478					
LCS 280-64690/84-A	Lab Control Sample	T	Solid	8260B	280-64690
280-15156-I-13-A MSMS	Matrix Spike	T	Solid	8260B	280-64690
280-15156-J-13-A MSDMSD	Matrix Spike Duplicate	T	Solid	8260B	280-64690
280-15156-15	J1HK37	T	Solid	8260B	280-64690

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15156-1
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QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-64701					
LCS 280-64701/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-64701/1-A	Method Blank	T	Solid	3550C	
280-15156-1	J1HK23	T	Solid	3550C	
280-15156-2	J1HK24	T	Solid	3550C	
280-15156-3	J1HK25	T	Solid	3550C	
280-15156-4	J1HK26	T	Solid	3550C	
280-15156-5	J1HK27	T	Solid	3550C	
280-15156-6	J1HK28	T	Solid	3550C	
280-15156-7	J1HK29	T	Solid	3550C	
280-15156-8	J1HK30	T	Solid	3550C	
280-15156-9	J1HK31	T	Solid	3550C	
280-15156-10	J1HK32	T	Solid	3550C	
280-15156-11	J1HK33	T	Solid	3550C	
280-15156-12	J1HK34	T	Solid	3550C	
280-15156-13	J1HK35	T	Solid	3550C	
280-15156-14	J1HK36	T	Solid	3550C	
280-15156-15	J1HK37	T	Solid	3550C	
280-15156-16	J1HK38	T	Solid	3550C	
280-15156-17	J1HK39	T	Solid	3550C	
280-15156-18	J1HK40	T	Solid	3550C	
280-15156-19	J1HK41	T	Solid	3550C	
280-15156-19MS	Matrix Spike	T	Solid	3550C	
280-15156-19MSD	Matrix Spike Duplicate	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-15156-1
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QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-64708					
LCS 280-64708/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-64708/1-A	Method Blank	T	Solid	3550C	
280-15156-1	J1HK23	T	Solid	3550C	
280-15156-2	J1HK24	T	Solid	3550C	
280-15156-3	J1HK25	T	Solid	3550C	
280-15156-3MS	Matrix Spike	T	Solid	3550C	
280-15156-3MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-15156-4	J1HK26	T	Solid	3550C	
280-15156-5	J1HK27	T	Solid	3550C	
280-15156-6	J1HK28	T	Solid	3550C	
280-15156-7	J1HK29	T	Solid	3550C	
280-15156-8	J1HK30	T	Solid	3550C	
280-15156-9	J1HK31	T	Solid	3550C	
280-15156-10	J1HK32	T	Solid	3550C	
280-15156-11	J1HK33	T	Solid	3550C	
280-15156-12	J1HK34	T	Solid	3550C	
280-15156-13	J1HK35	T	Solid	3550C	
280-15156-14	J1HK36	T	Solid	3550C	
280-15156-15	J1HK37	T	Solid	3550C	
280-15156-16	J1HK38	T	Solid	3550C	
280-15156-17	J1HK39	T	Solid	3550C	
280-15156-18	J1HK40	T	Solid	3550C	
280-15156-19	J1HK41	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-15156-1
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QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-64721					
LCS 280-64721/25-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-64721/26-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-64721/1-A	Method Blank	T	Solid	3550C	
280-15156-1	J1HK23	T	Solid	3550C	
280-15156-2	J1HK24	T	Solid	3550C	
280-15156-2MS	Matrix Spike	T	Solid	3550C	
280-15156-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-15156-3	J1HK25	T	Solid	3550C	
280-15156-4	J1HK26	T	Solid	3550C	
280-15156-5	J1HK27	T	Solid	3550C	
280-15156-6	J1HK28	T	Solid	3550C	
280-15156-7	J1HK29	T	Solid	3550C	
280-15156-8	J1HK30	T	Solid	3550C	
280-15156-9	J1HK31	T	Solid	3550C	
280-15156-10	J1HK32	T	Solid	3550C	
280-15156-11	J1HK33	T	Solid	3550C	
280-15156-12	J1HK34	T	Solid	3550C	
280-15156-13	J1HK35	T	Solid	3550C	
280-15156-14	J1HK36	T	Solid	3550C	
280-15156-15	J1HK37	T	Solid	3550C	
280-15156-16	J1HK38	T	Solid	3550C	
280-15156-17	J1HK39	T	Solid	3550C	
280-15156-18	J1HK40	T	Solid	3550C	
280-15156-19	J1HK41	T	Solid	3550C	

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Job Number: 280-15156-1
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QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-65318					
LCS 280-64708/2-A	Lab Control Sample	T	Solid	8081A	280-64708
MB 280-64708/1-A	Method Blank	T	Solid	8081A	280-64708
280-15156-1	J1HK23	T	Solid	8081A	280-64708
280-15156-2	J1HK24	T	Solid	8081A	280-64708
280-15156-3	J1HK25	T	Solid	8081A	280-64708
280-15156-3MS	Matrix Spike	T	Solid	8081A	280-64708
280-15156-3MSD	Matrix Spike Duplicate	T	Solid	8081A	280-64708
280-15156-4	J1HK26	T	Solid	8081A	280-64708
280-15156-5	J1HK27	T	Solid	8081A	280-64708
280-15156-6	J1HK28	T	Solid	8081A	280-64708
280-15156-7	J1HK29	T	Solid	8081A	280-64708
280-15156-8	J1HK30	T	Solid	8081A	280-64708
280-15156-9	J1HK31	T	Solid	8081A	280-64708
280-15156-10	J1HK32	T	Solid	8081A	280-64708
280-15156-11	J1HK33	T	Solid	8081A	280-64708
280-15156-12	J1HK34	T	Solid	8081A	280-64708
280-15156-13	J1HK35	T	Solid	8081A	280-64708
280-15156-14	J1HK36	T	Solid	8081A	280-64708
280-15156-15	J1HK37	T	Solid	8081A	280-64708
280-15156-16	J1HK38	T	Solid	8081A	280-64708
280-15156-17	J1HK39	T	Solid	8081A	280-64708
280-15156-18	J1HK40	T	Solid	8081A	280-64708
280-15156-19	J1HK41	T	Solid	8081A	280-64708

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Job Number: 280-15156-1
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QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-65374					
LCS 280-64701/2-A	Lab Control Sample	T	Solid	8082	280-64701
MB 280-64701/1-A	Method Blank	T	Solid	8082	280-64701
280-15156-1	J1HK23	T	Solid	8082	280-64701
280-15156-2	J1HK24	T	Solid	8082	280-64701
280-15156-3	J1HK25	T	Solid	8082	280-64701
280-15156-4	J1HK26	T	Solid	8082	280-64701
280-15156-5	J1HK27	T	Solid	8082	280-64701
280-15156-6	J1HK28	T	Solid	8082	280-64701
280-15156-7	J1HK29	T	Solid	8082	280-64701
280-15156-8	J1HK30	T	Solid	8082	280-64701
280-15156-9	J1HK31	T	Solid	8082	280-64701
280-15156-10	J1HK32	T	Solid	8082	280-64701
280-15156-11	J1HK33	T	Solid	8082	280-64701
280-15156-12	J1HK34	T	Solid	8082	280-64701
280-15156-13	J1HK35	T	Solid	8082	280-64701
280-15156-14	J1HK36	T	Solid	8082	280-64701
280-15156-15	J1HK37	T	Solid	8082	280-64701
280-15156-16	J1HK38	T	Solid	8082	280-64701
280-15156-17	J1HK39	T	Solid	8082	280-64701
280-15156-18	J1HK40	T	Solid	8082	280-64701
280-15156-19	J1HK41	T	Solid	8082	280-64701
280-15156-19MS	Matrix Spike	T	Solid	8082	280-64701
280-15156-19MSD	Matrix Spike Duplicate	T	Solid	8082	280-64701
Prep Batch: 280-65424					
LCS 280-65424/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-65424/1-A	Method Blank	T	Solid	3550C	
280-15156-3	J1HK25	T	Solid	3550C	
280-15156-3MS	Matrix Spike	T	Solid	3550C	
280-15156-3MSD	Matrix Spike Duplicate	T	Solid	3550C	

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Job Number: 280-15156-1
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QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-65571					
LCS 280-64721/25-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-64721
MB 280-64721/1-A	Method Blank	T	Solid	NWTPH-Dx	280-64721
280-15156-1	J1HK23	T	Solid	NWTPH-Dx	280-64721
280-15156-2	J1HK24	T	Solid	NWTPH-Dx	280-64721
280-15156-2MS	Matrix Spike	T	Solid	NWTPH-Dx	280-64721
280-15156-2MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-64721
280-15156-3	J1HK25	T	Solid	NWTPH-Dx	280-64721
280-15156-4	J1HK26	T	Solid	NWTPH-Dx	280-64721
280-15156-5	J1HK27	T	Solid	NWTPH-Dx	280-64721
280-15156-6	J1HK28	T	Solid	NWTPH-Dx	280-64721
280-15156-7	J1HK29	T	Solid	NWTPH-Dx	280-64721
280-15156-8	J1HK30	T	Solid	NWTPH-Dx	280-64721
280-15156-9	J1HK31	T	Solid	NWTPH-Dx	280-64721
280-15156-10	J1HK32	T	Solid	NWTPH-Dx	280-64721
280-15156-11	J1HK33	T	Solid	NWTPH-Dx	280-64721
280-15156-12	J1HK34	T	Solid	NWTPH-Dx	280-64721
280-15156-13	J1HK35	T	Solid	NWTPH-Dx	280-64721
280-15156-14	J1HK36	T	Solid	NWTPH-Dx	280-64721
280-15156-15	J1HK37	T	Solid	NWTPH-Dx	280-64721
280-15156-16	J1HK38	T	Solid	NWTPH-Dx	280-64721
Analysis Batch:280-65573					
LCSD 280-64721/26-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Dx	280-64721
280-15156-17	J1HK39	T	Solid	NWTPH-Dx	280-64721
280-15156-18	J1HK40	T	Solid	NWTPH-Dx	280-64721
280-15156-19	J1HK41	T	Solid	NWTPH-Dx	280-64721
Analysis Batch:280-65939					
LCS 280-65424/2-A	Lab Control Sample	T	Solid	8081A	280-65424
MB 280-65424/1-A	Method Blank	T	Solid	8081A	280-65424
280-15156-3	J1HK25	T	Solid	8081A	280-65424
280-15156-3MS	Matrix Spike	T	Solid	8081A	280-65424
280-15156-3MSD	Matrix Spike Duplicate	T	Solid	8081A	280-65424

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15156-1
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QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-64693					
LCS 280-64693/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-64693/1-A	Method Blank	T	Solid	7471A	
280-15156-1	J1HK23	T	Solid	7471A	
280-15156-2	J1HK24	T	Solid	7471A	
280-15156-2DU	Duplicate	T	Solid	7471A	
280-15156-2MS	Matrix Spike	T	Solid	7471A	
280-15156-3	J1HK25	T	Solid	7471A	
280-15156-4	J1HK26	T	Solid	7471A	
280-15156-5	J1HK27	T	Solid	7471A	
280-15156-6	J1HK28	T	Solid	7471A	
280-15156-7	J1HK29	T	Solid	7471A	
280-15156-8	J1HK30	T	Solid	7471A	
280-15156-9	J1HK31	T	Solid	7471A	
280-15156-10	J1HK32	T	Solid	7471A	
280-15156-11	J1HK33	T	Solid	7471A	
280-15156-12	J1HK34	T	Solid	7471A	
280-15156-13	J1HK35	T	Solid	7471A	
280-15156-14	J1HK36	T	Solid	7471A	
280-15156-15	J1HK37	T	Solid	7471A	
280-15156-16	J1HK38	T	Solid	7471A	
280-15156-17	J1HK39	T	Solid	7471A	
280-15156-18	J1HK40	T	Solid	7471A	
280-15156-19	J1HK41	T	Solid	7471A	

Client: Washington Closure Hanford

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QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-64750					
LCS 280-64750/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-64750/1-A	Method Blank	T	Solid	3050B	
280-15156-1	J1HK23	T	Solid	3050B	
280-15156-1DU	Duplicate	T	Solid	3050B	
280-15156-1MS	Matrix Spike	T	Solid	3050B	
280-15156-2	J1HK24	T	Solid	3050B	
280-15156-3	J1HK25	T	Solid	3050B	
280-15156-4	J1HK26	T	Solid	3050B	
280-15156-5	J1HK27	T	Solid	3050B	
280-15156-6	J1HK28	T	Solid	3050B	
280-15156-7	J1HK29	T	Solid	3050B	
280-15156-8	J1HK30	T	Solid	3050B	
280-15156-9	J1HK31	T	Solid	3050B	
280-15156-10	J1HK32	T	Solid	3050B	
280-15156-11	J1HK33	T	Solid	3050B	
280-15156-12	J1HK34	T	Solid	3050B	
280-15156-13	J1HK35	T	Solid	3050B	
280-15156-14	J1HK36	T	Solid	3050B	
280-15156-15	J1HK37	T	Solid	3050B	
280-15156-16	J1HK38	T	Solid	3050B	
280-15156-17	J1HK39	T	Solid	3050B	
280-15156-18	J1HK40	T	Solid	3050B	
280-15156-19	J1HK41	T	Solid	3050B	

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QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-65262					
LCS 280-64693/2-A	Lab Control Sample	T	Solid	7471A	280-64693
MB 280-64693/1-A	Method Blank	T	Solid	7471A	280-64693
280-15156-1	J1HK23	T	Solid	7471A	280-64693
280-15156-2	J1HK24	T	Solid	7471A	280-64693
280-15156-2DU	Duplicate	T	Solid	7471A	280-64693
280-15156-2MS	Matrix Spike	T	Solid	7471A	280-64693
280-15156-3	J1HK25	T	Solid	7471A	280-64693
280-15156-4	J1HK26	T	Solid	7471A	280-64693
280-15156-5	J1HK27	T	Solid	7471A	280-64693
280-15156-6	J1HK28	T	Solid	7471A	280-64693
280-15156-7	J1HK29	T	Solid	7471A	280-64693
280-15156-8	J1HK30	T	Solid	7471A	280-64693
280-15156-9	J1HK31	T	Solid	7471A	280-64693
280-15156-10	J1HK32	T	Solid	7471A	280-64693
280-15156-11	J1HK33	T	Solid	7471A	280-64693
280-15156-12	J1HK34	T	Solid	7471A	280-64693
280-15156-13	J1HK35	T	Solid	7471A	280-64693
280-15156-14	J1HK36	T	Solid	7471A	280-64693
280-15156-15	J1HK37	T	Solid	7471A	280-64693
280-15156-16	J1HK38	T	Solid	7471A	280-64693
280-15156-17	J1HK39	T	Solid	7471A	280-64693

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Job Number: 280-15156-1
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QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-65270					
LCS 280-64750/2-A	Lab Control Sample	T	Solid	6010B	280-64750
MB 280-64750/1-A	Method Blank	T	Solid	6010B	280-64750
280-15156-1	J1HK23	T	Solid	6010B	280-64750
280-15156-1DU	Duplicate	T	Solid	6010B	280-64750
280-15156-1MS	Matrix Spike	T	Solid	6010B	280-64750
280-15156-2	J1HK24	T	Solid	6010B	280-64750
280-15156-3	J1HK25	T	Solid	6010B	280-64750
280-15156-4	J1HK26	T	Solid	6010B	280-64750
280-15156-5	J1HK27	T	Solid	6010B	280-64750
280-15156-6	J1HK28	T	Solid	6010B	280-64750
280-15156-7	J1HK29	T	Solid	6010B	280-64750
280-15156-8	J1HK30	T	Solid	6010B	280-64750
280-15156-9	J1HK31	T	Solid	6010B	280-64750
280-15156-10	J1HK32	T	Solid	6010B	280-64750
280-15156-11	J1HK33	T	Solid	6010B	280-64750
280-15156-12	J1HK34	T	Solid	6010B	280-64750
280-15156-13	J1HK35	T	Solid	6010B	280-64750
280-15156-14	J1HK36	T	Solid	6010B	280-64750
280-15156-15	J1HK37	T	Solid	6010B	280-64750
280-15156-16	J1HK38	T	Solid	6010B	280-64750
280-15156-17	J1HK39	T	Solid	6010B	280-64750
280-15156-18	J1HK40	T	Solid	6010B	280-64750
280-15156-19	J1HK41	T	Solid	6010B	280-64750
Analysis Batch:280-65432					
280-15156-18	J1HK40	T	Solid	7471A	280-64693
280-15156-19	J1HK41	T	Solid	7471A	280-64693

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-65544					
LCS 280-65544/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-65544/1-A	Method Blank	T	Solid	3050B	
280-15156-1	J1HK23	T	Solid	3050B	
280-15156-1DU	Duplicate	T	Solid	3050B	
280-15156-1MS	Matrix Spike	T	Solid	3050B	
280-15156-2	J1HK24	T	Solid	3050B	
280-15156-3	J1HK25	T	Solid	3050B	
280-15156-4	J1HK26	T	Solid	3050B	
280-15156-5	J1HK27	T	Solid	3050B	
280-15156-6	J1HK28	T	Solid	3050B	
280-15156-7	J1HK29	T	Solid	3050B	
280-15156-8	J1HK30	T	Solid	3050B	
280-15156-9	J1HK31	T	Solid	3050B	
280-15156-10	J1HK32	T	Solid	3050B	
280-15156-11	J1HK33	T	Solid	3050B	
280-15156-12	J1HK34	T	Solid	3050B	
280-15156-13	J1HK35	T	Solid	3050B	
280-15156-14	J1HK36	T	Solid	3050B	
280-15156-15	J1HK37	T	Solid	3050B	
280-15156-16	J1HK38	T	Solid	3050B	
280-15156-17	J1HK39	T	Solid	3050B	
280-15156-18	J1HK40	T	Solid	3050B	
280-15156-19	J1HK41	T	Solid	3050B	

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-65692					
LCS 280-65544/2-A	Lab Control Sample	T	Solid	6010B	280-65544
MB 280-65544/1-A	Method Blank	T	Solid	6010B	280-65544
280-15156-1	J1HK23	T	Solid	6010B	280-65544
280-15156-1DU	Duplicate	T	Solid	6010B	280-65544
280-15156-1MS	Matrix Spike	T	Solid	6010B	280-65544
280-15156-2	J1HK24	T	Solid	6010B	280-65544
280-15156-3	J1HK25	T	Solid	6010B	280-65544
280-15156-4	J1HK26	T	Solid	6010B	280-65544
280-15156-5	J1HK27	T	Solid	6010B	280-65544
280-15156-6	J1HK28	T	Solid	6010B	280-65544
280-15156-7	J1HK29	T	Solid	6010B	280-65544
280-15156-8	J1HK30	T	Solid	6010B	280-65544
280-15156-9	J1HK31	T	Solid	6010B	280-65544
280-15156-10	J1HK32	T	Solid	6010B	280-65544
280-15156-11	J1HK33	T	Solid	6010B	280-65544
280-15156-12	J1HK34	T	Solid	6010B	280-65544
280-15156-13	J1HK35	T	Solid	6010B	280-65544
280-15156-14	J1HK36	T	Solid	6010B	280-65544
280-15156-15	J1HK37	T	Solid	6010B	280-65544
280-15156-16	J1HK38	T	Solid	6010B	280-65544
280-15156-17	J1HK39	T	Solid	6010B	280-65544
280-15156-18	J1HK40	T	Solid	6010B	280-65544
280-15156-19	J1HK41	T	Solid	6010B	280-65544
Analysis Batch:280-65738					
280-15156-13	J1HK35	T	Solid	6010B	280-64750
280-15156-14	J1HK36	T	Solid	6010B	280-64750
280-15156-15	J1HK37	T	Solid	6010B	280-64750
280-15156-16	J1HK38	T	Solid	6010B	280-64750
280-15156-17	J1HK39	T	Solid	6010B	280-64750
280-15156-18	J1HK40	T	Solid	6010B	280-64750
280-15156-19	J1HK41	T	Solid	6010B	280-64750

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-64769					
280-15156-1	J1HK23	T	Solid	D-2216	
280-15156-1DU	Duplicate	T	Solid	D-2216	
280-15156-2	J1HK24	T	Solid	D-2216	
280-15156-3	J1HK25	T	Solid	D-2216	
280-15156-4	J1HK26	T	Solid	D-2216	
280-15156-5	J1HK27	T	Solid	D-2216	
280-15156-6	J1HK28	T	Solid	D-2216	
280-15156-7	J1HK29	T	Solid	D-2216	
280-15156-8	J1HK30	T	Solid	D-2216	
280-15156-9	J1HK31	T	Solid	D-2216	
280-15156-10	J1HK32	T	Solid	D-2216	
280-15156-11	J1HK33	T	Solid	D-2216	
280-15156-12	J1HK34	T	Solid	D-2216	
280-15156-13	J1HK35	T	Solid	D-2216	
280-15156-14	J1HK36	T	Solid	D-2216	
280-15156-15	J1HK37	T	Solid	D-2216	
280-15156-16	J1HK38	T	Solid	D-2216	
280-15156-17	J1HK39	T	Solid	D-2216	
280-15156-18	J1HK40	T	Solid	D-2216	
280-15156-19	J1HK41	T	Solid	D-2216	
280-15156-20	J1HKF5	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-64712					
LCS 280-64712/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-64712/1-A	Method Blank	T	Solid	3550C	
280-15156-1	J1HK23	T	Solid	3550C	
280-15156-2	J1HK24	T	Solid	3550C	
280-15156-3	J1HK25	T	Solid	3550C	
280-15156-4	J1HK26	T	Solid	3550C	
280-15156-5	J1HK27	T	Solid	3550C	
280-15156-6	J1HK28	T	Solid	3550C	
280-15156-7	J1HK29	T	Solid	3550C	
280-15156-8	J1HK30	T	Solid	3550C	
280-15156-9	J1HK31	T	Solid	3550C	
280-15156-10	J1HK32	T	Solid	3550C	
280-15156-11	J1HK33	T	Solid	3550C	
280-15156-12	J1HK34	T	Solid	3550C	
280-15156-12MS	Matrix Spike	T	Solid	3550C	
280-15156-12MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-15156-13	J1HK35	T	Solid	3550C	
280-15156-14	J1HK36	T	Solid	3550C	
280-15156-15	J1HK37	T	Solid	3550C	
280-15156-16	J1HK38	T	Solid	3550C	
280-15156-17	J1HK39	T	Solid	3550C	
280-15156-18	J1HK40	T	Solid	3550C	
280-15156-19	J1HK41	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Analysis Batch:280-64775					
LCS 280-64712/2-A	Lab Control Sample	T	Solid	8310	280-64712
MB 280-64712/1-A	Method Blank	T	Solid	8310	280-64712
280-15156-1	J1HK23	T	Solid	8310	280-64712
280-15156-2	J1HK24	T	Solid	8310	280-64712
280-15156-3	J1HK25	T	Solid	8310	280-64712
280-15156-4	J1HK26	T	Solid	8310	280-64712
280-15156-5	J1HK27	T	Solid	8310	280-64712
280-15156-6	J1HK28	T	Solid	8310	280-64712
280-15156-7	J1HK29	T	Solid	8310	280-64712
280-15156-8	J1HK30	T	Solid	8310	280-64712
280-15156-9	J1HK31	T	Solid	8310	280-64712
280-15156-10	J1HK32	T	Solid	8310	280-64712
280-15156-11	J1HK33	T	Solid	8310	280-64712
280-15156-12	J1HK34	T	Solid	8310	280-64712
280-15156-12MS	Matrix Spike	T	Solid	8310	280-64712
280-15156-12MSD	Matrix Spike Duplicate	T	Solid	8310	280-64712
280-15156-13	J1HK35	T	Solid	8310	280-64712
280-15156-14	J1HK36	T	Solid	8310	280-64712
280-15156-15	J1HK37	T	Solid	8310	280-64712
280-15156-16	J1HK38	T	Solid	8310	280-64712
280-15156-17	J1HK39	T	Solid	8310	280-64712
280-15156-18	J1HK40	T	Solid	8310	280-64712
280-15156-19	J1HK41	T	Solid	8310	280-64712

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Method Blank - Batch: 280-64690

Method: 8260B
Preparation: 5035

Lab Sample ID:	MB 280-64690/1-A	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64690	Lab File ID:	J6238.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/29/2011 1142	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				
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	0.42	U	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)	89	58 - 140
Toluene-d8 (Surr)	103	80 - 126
4-Bromofluorobenzene (Surr)	102	76 - 127
Dibromofluoromethane (Surr)	93	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Method Blank TICs- Batch: 280-64690

Cas Number	Analyte	RT	Est. Result	Qual
124-19-6	Nonanal	14.20	11.7	N J
	Unknown	16.29	5.57	J N
	Unknown	14.01	7.19	J N

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Lab Control Sample - Batch: 280-64690

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-64690/84-A	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64690	Lab File ID:	J6234.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/29/2011 1000	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	49.8	100	76 - 120	
Bromodichloromethane	50.0	48.5	97	74 - 125	
Carbon tetrachloride	50.0	50.1	100	69 - 147	
Chlorobenzene	50.0	49.6	99	74 - 120	
Chloroform	50.0	47.0	94	77 - 125	
1,3-Dichlorobenzene	50.0	49.5	99	74 - 120	
1,1-Dichloroethane	50.0	47.1	94	74 - 120	
trans-1,2-Dichloroethene	50.0	47.9	96	80 - 127	
1,1-Dichloroethene	50.0	53.8	108	77 - 143	
1,2-Dichloropropane	50.0	47.9	96	74 - 120	
Ethylbenzene	50.0	50.0	100	78 - 120	
Methylene Chloride	50.0	50.6	101	76 - 137	
Tetrachloroethene	50.0	50.6	101	71 - 120	
Toluene	50.0	49.0	98	72 - 120	
1,1,1-Trichloroethane	50.0	51.5	103	67 - 143	
Trichloroethene	50.0	49.9	100	78 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	58 - 140
Toluene-d8 (Surr)	112	80 - 126
4-Bromofluorobenzene (Surr)	96	76 - 127
Dibromofluoromethane (Surr)	90	75 - 121

Lab Control Sample - Batch: 280-64690

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-64690/84-A	Analysis Batch:	280-65478	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64690	Lab File ID:	J6261.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/29/2011 2138	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	53.6	107	76 - 120	
Bromodichloromethane	50.0	52.2	104	74 - 125	
Carbon tetrachloride	50.0	57.5	115	69 - 147	
Chlorobenzene	50.0	54.5	109	74 - 120	
Chloroform	50.0	52.2	104	77 - 125	
1,3-Dichlorobenzene	50.0	55.8	112	74 - 120	

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Lab Control Sample - Batch: 280-64690

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-64690/84-A	Analysis Batch:	280-65478	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64690	Lab File ID:	J6261.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/29/2011 2138	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	50.0	51.4	103	74 - 120	
trans-1,2-Dichloroethene	50.0	52.8	106	80 - 127	
1,1-Dichloroethene	50.0	61.9	124	77 - 143	
1,2-Dichloropropane	50.0	51.1	102	74 - 120	
Ethylbenzene	50.0	54.7	109	78 - 120	
Methylene Chloride	50.0	55.9	112	76 - 137	
Tetrachloroethene	50.0	56.3	113	71 - 120	
Toluene	50.0	53.8	108	72 - 120	
1,1,1-Trichloroethane	50.0	54.2	108	67 - 143	
Trichloroethene	50.0	56.4	113	78 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	58 - 140
Toluene-d8 (Surr)	119	80 - 126
4-Bromofluorobenzene (Surr)	103	76 - 127
Dibromofluoromethane (Surr)	94	75 - 121

Lab Control Sample - Batch: 280-64690

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-64690/84-A	Analysis Batch:	280-65166	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64690	Lab File ID:	J6292.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/30/2011 1321	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	51.7	103	76 - 120	
Bromodichloromethane	50.0	49.6	99	74 - 125	
Carbon tetrachloride	50.0	50.7	101	69 - 147	
Chlorobenzene	50.0	49.7	99	74 - 120	
Chloroform	50.0	50.2	100	77 - 125	
1,3-Dichlorobenzene	50.0	50.2	100	74 - 120	
1,1-Dichloroethane	50.0	48.0	96	74 - 120	
trans-1,2-Dichloroethene	50.0	50.6	101	80 - 127	
1,1-Dichloroethene	50.0	53.4	107	77 - 143	
1,2-Dichloropropane	50.0	48.2	96	74 - 120	
Ethylbenzene	50.0	50.8	102	78 - 120	
Methylene Chloride	50.0	54.6	109	76 - 137	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Lab Control Sample - Batch: 280-64690

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-64690/84-A	Analysis Batch:	280-65166	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64690	Lab File ID:	J6292.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/30/2011 1321	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Tetrachloroethene	50.0	50.9	102	71 - 120	
Toluene	50.0	50.3	101	72 - 120	
1,1,1-Trichloroethane	50.0	48.4	97	67 - 143	
Trichloroethene	50.0	50.1	100	78 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	58 - 140
Toluene-d8 (Surr)	120	80 - 126
4-Bromofluorobenzene (Surr)	99	76 - 127
Dibromofluoromethane (Surr)	96	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64690

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	280-15156-16	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64690	Lab File ID:	J6240.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.983 g
Analysis Date:	04/29/2011 1228			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				
Leach Date:	N/A				

MSD Lab Sample ID:	280-15156-16	Analysis Batch:	280-65265	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64690	Lab File ID:	J6241.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	3.725 g
Analysis Date:	04/29/2011 1252			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	88	84	76 - 120	24	20		*
Bromodichloromethane	93	94	74 - 125	29	20		*
Carbon tetrachloride	82	70	69 - 147	14	20		
Chlorobenzene	94	91	74 - 120	26	20		*
Chloroform	91	86	77 - 125	24	20		*
1,3-Dichlorobenzene	94	89	74 - 120	24	20		*
1,1-Dichloroethane	85	83	74 - 120	27	20		*
trans-1,2-Dichloroethene	83	78	80 - 127	23	20		T *
1,1-Dichloroethene	86	79	77 - 143	20	20		
1,2-Dichloropropane	91	90	74 - 120	28	20		*
Ethylbenzene	90	86	78 - 120	24	20		*
Methylene Chloride	101	95	76 - 137	23	21		*
Tetrachloroethene	84	79	71 - 120	22	20		*
Toluene	89	86	72 - 120	26	20		*
1,1,1-Trichloroethane	81	77	67 - 143	24	20		*
Trichloroethene	86	82	78 - 120	25	20		*

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	99	58 - 140
Toluene-d8 (Surr)	119	117	80 - 126
4-Bromofluorobenzene (Surr)	109	111	76 - 127
Dibromofluoromethane (Surr)	94	95	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64690

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	280-15156-I-13-A MS	Analysis Batch:	280-65478	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64690	Lab File ID:	J6266.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.838 g
Analysis Date:	04/29/2011 2333			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				
Leach Date:	N/A				

MSD Lab Sample ID:	280-15156-J-13-A MSD	Analysis Batch:	280-65478	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64690	Lab File ID:	J6267.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.557 g
Analysis Date:	04/29/2011 2356			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	92	88	76 - 120	0	20		
Bromodichloromethane	98	100	74 - 125	7	20		
Carbon tetrachloride	93	84	69 - 147	5	20		
Chlorobenzene	99	98	74 - 120	4	20		
Chloroform	96	93	77 - 125	2	20		
1,3-Dichlorobenzene	99	105	74 - 120	11	20		
1,1-Dichloroethane	93	88	74 - 120	0	20		
trans-1,2-Dichloroethene	91	84	80 - 127	2	20		
1,1-Dichloroethene	99	87	77 - 143	8	20		
1,2-Dichloropropane	96	93	74 - 120	3	20		
Ethylbenzene	98	94	78 - 120	0	20		
Methylene Chloride	106	101	76 - 137	0	21		
Tetrachloroethene	96	89	71 - 120	3	20		
Toluene	94	90	72 - 120	0	20		
1,1,1-Trichloroethane	92	84	67 - 143	4	20		
Trichloroethene	94	90	78 - 120	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	102	58 - 140
Toluene-d8 (Surr)	123	123	80 - 126
4-Bromofluorobenzene (Surr)	120	123	76 - 127
Dibromofluoromethane (Surr)	96	98	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64690

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	280-15156-10	Analysis Batch:	280-65166	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64690	Lab File ID:	J6306.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.846 g
Analysis Date:	04/30/2011 1919			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				
Leach Date:	N/A				

MSD Lab Sample ID:	280-15156-10	Analysis Batch:	280-65166	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-64690	Lab File ID:	J6307.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.263 g
Analysis Date:	04/30/2011 1942			Final Weight/Volume:	5 mL
Prep Date:	04/28/2011 1704				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	95	78	76 - 120	28	20		*
Bromodichloromethane	91	82	74 - 125	18	20		
Carbon tetrachloride	95	65	69 - 147	45	20		T *
Chlorobenzene	86	76	74 - 120	20	20		
Chloroform	95	78	77 - 125	28	20		*
1,3-Dichlorobenzene	78	80	74 - 120	5	20		
1,1-Dichloroethane	94	74	74 - 120	32	20		*
trans-1,2-Dichloroethene	91	68	80 - 127	37	20		T *
1,1-Dichloroethene	103	71	77 - 143	45	20		T *
1,2-Dichloropropane	93	81	74 - 120	23	20		*
Ethylbenzene	89	74	78 - 120	26	20		T *
Methylene Chloride	114	88	76 - 137	33	21		*
Tetrachloroethene	88	68	71 - 120	33	20		T *
Toluene	86	73	72 - 120	25	20		*
1,1,1-Trichloroethane	108	67	67 - 143	55	20		*
Trichloroethene	90	69	78 - 120	34	20		T *

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89	88	58 - 140
Toluene-d8 (Surr)	122	120	80 - 126
4-Bromofluorobenzene (Surr)	111	108	76 - 127
Dibromofluoromethane (Surr)	92	91	75 - 121

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Method Blank - Batch: 280-64708

Method: 8081A
Preparation: 3550C

Lab Sample ID:	MB 280-64708/1-A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-64708	Lab File ID:	009F0901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.8 g
Analysis Date:	05/02/2011 1443	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/28/2011 2125			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.52	U	0.52	1.6
4,4'-DDE	0.22	U	0.22	1.6
4,4'-DDT	0.56	U	0.56	1.6
Aldrin	0.24	U	0.24	1.6
alpha-BHC	0.20	U	0.20	1.6
beta-BHC	0.63	U	0.63	1.6
delta-BHC	0.38	U	0.38	1.6
gamma-BHC (Lindane)	0.44	U	0.44	1.6
Heptachlor	0.228	J	0.20	1.6
Heptachlor epoxide	0.40	U	0.40	1.6
Endosulfan I	0.17	U	0.17	1.6
Endosulfan II	0.27	U	0.27	1.6
Endosulfan sulfate	0.26	U	0.26	1.6
Endrin	0.29	U	0.29	1.6
Endrin aldehyde	0.16	U	0.16	1.6
Endrin ketone	0.46	U	0.46	1.6
gamma-Chlordane	0.25	U	0.25	1.6
Methoxychlor	0.42	U	0.42	3.1
alpha-Chlordane	0.30	U	0.30	1.6
Dieldrin	0.20	U	0.20	1.6
Toxaphene	15	U	15	160

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Lab Control Sample - Batch: 280-64708

Method: 8081A
Preparation: 3550C

Lab Sample ID:	LCS 280-64708/2-A	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-64708	Lab File ID:	007F0701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.8 g
Analysis Date:	05/02/2011 1410	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	04/28/2011 2125			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	15.7	9.32	59	57 - 118	
4,4'-DDE	15.7	10.8	68	61 - 115	
4,4'-DDT	15.7	9.77	62	53 - 125	
Aldrin	15.7	10.7	68	60 - 115	
alpha-BHC	15.7	10.6	67	54 - 115	
beta-BHC	15.7	11.5	73	58 - 115	
delta-BHC	15.7	12.3	78	62 - 115	
gamma-BHC (Lindane)	15.7	10.9	69	59 - 115	
Heptachlor	15.7	11.4	72	61 - 115	
Heptachlor epoxide	15.7	11.6	74	62 - 112	
Endosulfan I	15.7	11.2	71	55 - 115	
Endosulfan II	15.7	12.9	82	60 - 115	
Endosulfan sulfate	15.7	12.9	82	58 - 118	
Endrin	15.7	14.3	91	61 - 121	
Endrin aldehyde	15.7	10.8	68	54 - 115	
Endrin ketone	15.7	11.4	73	61 - 118	
gamma-Chlordane	15.7	11.4	72	60 - 115	
Methoxychlor	15.7	12.5	79	52 - 123	
alpha-Chlordane	15.7	11.2	71	60 - 115	
Dieldrin	15.7	12.1	77	63 - 117	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	62	59 - 115
Decachlorobiphenyl	86	63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64708

Method: 8081A
Preparation: 3550C

MS Lab Sample ID:	280-15156-3	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-64708	Lab File ID:	030F3001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.6 g
Analysis Date:	05/02/2011 2031			Final Weight/Volume:	10000 uL
Prep Date:	04/28/2011 2125			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-15156-3	Analysis Batch:	280-65318	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-64708	Lab File ID:	031F3101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.6 g
Analysis Date:	05/02/2011 2048			Final Weight/Volume:	10000 uL
Prep Date:	04/28/2011 2125			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4,4'-DDD	84	82	57 - 118	4	20		
4,4'-DDE	87	85	61 - 115	2	15		
4,4'-DDT	76	74	53 - 125	3	29		
Aldrin	91	91	60 - 115	1	50		
alpha-BHC	92	90	54 - 115	2	17		
beta-BHC	90	86	58 - 115	4	17		
delta-BHC	90	77	62 - 115	15	19		
gamma-BHC (Lindane)	92	91	59 - 115	1	24		
Heptachlor	93	92	61 - 115	2	18		
Heptachlor epoxide	94	94	62 - 112	0	18		
Endosulfan I	90	90	55 - 115	0	26		
Endosulfan II	84	46	60 - 115	59	20		N *
Endosulfan sulfate	78	26	58 - 118	99	22		N *
Endrin	112	109	61 - 121	3	30		
Endrin aldehyde	74	55	54 - 115	28	29		
Endrin ketone	75	62	61 - 118	20	20		
gamma-Chlordane	92	91	60 - 115	1	21		
Methoxychlor	73	55	52 - 123	29	23		*
alpha-Chlordane	93	92	60 - 115	1	18		
Dieldrin	92	92	63 - 117	0	25		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	96	94	59 - 115
Decachlorobiphenyl	100	92	63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Method Blank - Batch: 280-65424

Method: 8081A
Preparation: 3550C

Lab Sample ID:	MB 280-65424/1-A	Analysis Batch:	280-65939	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-65424	Lab File ID:	073F7301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.4 g
Analysis Date:	05/06/2011 1050	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	05/03/2011 1619			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	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	3.2
alpha-Chlordane	0.31	U	0.31	1.6
Dieldrin	0.20	U	0.20	1.6
Toxaphene	15	U	15	160

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	96	59 - 115
Decachlorobiphenyl	93	63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Lab Control Sample - Batch: 280-65424

Method: 8081A
Preparation: 3550C

Lab Sample ID:	LCS 280-65424/2-A	Analysis Batch:	280-65939	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-65424	Lab File ID:	011F1101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	05/05/2011 1619	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	05/03/2011 1619			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	16.3	12.8	79	57 - 118	
4,4'-DDE	16.3	14.2	87	61 - 115	
4,4'-DDT	16.3	14.4	88	53 - 125	
Aldrin	16.3	13.6	84	60 - 115	
alpha-BHC	16.3	13.7	84	54 - 115	
beta-BHC	16.3	14.3	88	58 - 115	
delta-BHC	16.3	14.2	87	62 - 115	
gamma-BHC (Lindane)	16.3	13.8	85	59 - 115	
Heptachlor	16.3	14.3	88	61 - 115	
Heptachlor epoxide	16.3	14.4	88	62 - 112	
Endosulfan I	16.3	13.8	85	55 - 115	
Endosulfan II	16.3	14.2	87	60 - 115	
Endosulfan sulfate	16.3	14.3	88	58 - 118	
Endrin	16.3	16.9	104	61 - 121	
Endrin aldehyde	16.3	12.4	76	54 - 115	
Endrin ketone	16.3	12.6	77	61 - 118	
gamma-Chlordane	16.3	14.3	88	60 - 115	
Methoxychlor	16.3	14.1	87	52 - 123	
alpha-Chlordane	16.3	14.2	87	60 - 115	
Dieldrin	16.3	14.2	87	63 - 117	

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-65424

Method: 8081A
Preparation: 3550C

MS Lab Sample ID:	280-15156-3	Analysis Batch:	280-65939	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-65424	Lab File ID:	071F7101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	05/06/2011 1017			Final Weight/Volume:	10000 uL
Prep Date:	05/03/2011 1619			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-15156-3	Analysis Batch:	280-65939	Instrument ID:	GCS_P1
Client Matrix:	Solid	Prep Batch:	280-65424	Lab File ID:	072F7201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.5 g
Analysis Date:	05/06/2011 1033			Final Weight/Volume:	10000 uL
Prep Date:	05/03/2011 1932			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	78	78	57 - 118	4	20		
4,4'-DDE	81	81	61 - 115	4	15		
4,4'-DDT	87	83	53 - 125	8	29		
Aldrin	86	85	60 - 115	6	50		
alpha-BHC	86	86	54 - 115	4	17		
beta-BHC	87	86	58 - 115	4	17		
delta-BHC	85	86	62 - 115	2	19		
gamma-BHC (Lindane)	87	86	59 - 115	5	24		
Heptachlor	91	89	61 - 115	5	18		
Heptachlor epoxide	89	87	62 - 112	6	18		
Endosulfan I	85	83	55 - 115	6	26		
Endosulfan II	78	87	60 - 115	7	20		
Endosulfan sulfate	69	85	58 - 118	18	22		
Endrin	106	111	61 - 121	0	30		
Endrin aldehyde	71	7	54 - 115	164	29		J N *
Endrin ketone	74	76	61 - 118	0	20		
gamma-Chlordane	87	84	60 - 115	7	21		
Methoxychlor	80	83	52 - 123	0	23		
alpha-Chlordane	88	85	60 - 115	7	18		
Dieldrin	88	86	63 - 117	6	25		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	92	94	59 - 115
Decachlorobiphenyl	107	113	63 - 124

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Method Blank - Batch: 280-64701

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-64701/1-A	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-64701	Lab File ID:	021F2101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.6 g
Analysis Date:	05/02/2011 1953	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	04/28/2011 1950			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.6	U	2.6	9.5
Aroclor 1221	7.6	U	7.6	16
Aroclor 1232	1.9	U	1.9	9.5
Aroclor 1242	4.4	U	4.4	9.5
Aroclor 1248	4.4	U	4.4	9.5
Aroclor 1254	2.5	U	2.5	9.5
Aroclor 1260	2.5	U	2.5	9.5

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	88	59 - 130
Tetrachloro-m-xylene	85	53 - 128

Lab Control Sample - Batch: 280-64701

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-64701/2-A	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-64701	Lab File ID:	022F2201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.3 g
Analysis Date:	05/02/2011 2024	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	04/28/2011 1950			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	31.9	29.4	92	54 - 132	
Aroclor 1260	31.9	31.5	99	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	90	59 - 130
Tetrachloro-m-xylene	92	53 - 128

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64701

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-15156-19	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-64701	Lab File ID:	043F4301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.1 g
Analysis Date:	05/03/2011 0731			Final Weight/Volume:	5000 uL
Prep Date:	04/28/2011 1950			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-15156-19	Analysis Batch:	280-65374	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-64701	Lab File ID:	044F4401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.7 g
Analysis Date:	05/03/2011 0803			Final Weight/Volume:	5000 uL
Prep Date:	04/28/2011 1950			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	99	93	54 - 132	6	26		
Aroclor 1260	98	92	62 - 129	4	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	88	85	59 - 130
Tetrachloro-m-xylene	95	92	53 - 128

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Method Blank - Batch: 280-64721

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-64721/1-A	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-64721	Lab File ID:	009B0901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	05/03/2011 1332	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	980	U	980	3900
C10-C28	660	U	660	3900

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

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-64721

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-64721/25-A	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-64721	Lab File ID:	010B1001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.1 g
Analysis Date:	05/03/2011 1400	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	05/04/2011 1328			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-64721/26-A	Analysis Batch:	280-65573	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-64721	Lab File ID:	006B0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 g
Analysis Date:	05/04/2011 1121	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	05/04/2011 1328			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C36	98	92	57 - 115	1	23		
C10-C28	98	92	53 - 115	1	23		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	83	88	49 - 115

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64721

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-15156-2	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-64721	Lab File ID:	013B1301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	05/03/2011 1524			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-15156-2	Analysis Batch:	280-65571	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-64721	Lab File ID:	014B1401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.4 g
Analysis Date:	05/03/2011 1552			Final Weight/Volume:	1000 uL
Prep Date:	04/29/2011 0058			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	460	-158	57 - 115	54	23	N	* N
C10-C28	235	11	56 - 115	39	23	N	* N

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	92	113	49 - 115

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Method Blank - Batch: 280-64712

Method: 8310
Preparation: 3550C

Lab Sample ID:	MB 280-64712/1-A	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-64712	Lab File ID:	G0429008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	04/29/2011 1327	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	04/28/2011 2253			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.8	U	9.8	98
Acenaphthylene	8.8	U	8.8	98
Anthracene	3.0	U	3.0	20
Benzo[a]anthracene	3.1	U	3.1	15
Benzo[a]pyrene	6.3	U	6.3	15
Benzo[b]fluoranthene	4.1	U	4.1	15
Benzo[g,h,i]perylene	7.0	U	7.0	29
Benzo[k]fluoranthene	3.9	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	Acceptance Limits
Terphenyl-d14 (SUR)	87	72 - 115

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Lab Control Sample - Batch: 280-64712

Method: 8310
Preparation: 3550C

Lab Sample ID:	LCS 280-64712/2-A	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-64712	Lab File ID:	G0429009.D
Dilution:	1 0	Leach Batch:	N/A	Initial Weight/Volume:	31.3 g
Analysis Date:	04/29/2011 1357	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	04/28/2011 2253			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1920	1800	94	72 - 115	
Acenaphthylene	1920	1630	85	60 - 115	
Anthracene	1920	1520	79	61 - 115	
Benzo[a]anthracene	1920	1970	103	76 - 115	
Benzo[a]pyrene	1920	1580	82	69 - 115	
Benzo[b]fluoranthene	1920	2010	105	81 - 115	
Benzo[g,h,i]perylene	1920	1790	93	71 - 115	
Benzo[k]fluoranthene	1920	1800	94	85 - 115	
Chrysene	1920	1850	96	70 - 115	
Dibenzo(a,h)anthracene	1920	1820	95	79 - 115	
Fluoranthene	1920	1740	91	67 - 115	
Fluorene	1920	1650	86	72 - 115	
Indeno[1,2,3-cd]pyrene	1920	1960	102	76 - 115	
Naphthalene	1920	1650	86	77 - 115	
Phenanthrene	1920	1710	89	79 - 115	
Pyrene	1920	1740	91	77 - 115	

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

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-64712

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-15156-12	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-64712	Lab File ID:	G0429023.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.9 g
Analysis Date:	04/29/2011 2105			Final Weight/Volume:	4000 uL
Prep Date:	04/28/2011 2253			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-15156-12	Analysis Batch:	280-64775	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-64712	Lab File ID:	G0429024.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.1 g
Analysis Date:	04/29/2011 2135			Final Weight/Volume:	4000 uL
Prep Date:	04/28/2011 2253			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	99	103	72 - 115	3	20		
Acenaphthylene	92	95	60 - 115	3	21		
Anthracene	84	88	61 - 115	3	20		
Benzo[a]anthracene	108	111	76 - 115	2	20		
Benzo[a]pyrene	88	90	69 - 115	1	20		
Benzo[b]fluoranthene	101	103	81 - 115	1	20		
Benzo[g,h,i]perylene	101	104	71 - 115	2	20		
Benzo[k]fluoranthene	97	99	85 - 115	1	20		
Chrysene	99	102	70 - 115	2	20		
Dibenzo(a,h)anthracene	102	104	79 - 115	2	20		
Fluoranthene	98	101	67 - 115	3	20		
Fluorene	92	95	72 - 115	3	20		
Indeno[1,2,3-cd]pyrene	109	112	76 - 115	2	20		
Naphthalene	92	96	77 - 115	4	20		
Phenanthrene	95	99	79 - 115	3	20		
Pyrene	98	101	77 - 115	3	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	97	100	72 - 115

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Method Blank - Batch: 280-64750

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-64750/1-A	Analysis Batch:	280-65270	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	05/02/2011 1815	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Arsenic	0.66	U	0.66	1.0
Barium	0.076	U	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Calcium	18.98	B	14.1	50.0
Chromium	0.0750	B	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	3.99	B	3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	3.7	U	3.7	20.0
Manganese	0.124	B	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

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Lab Control Sample - Batch: 280-64750

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-64750/2-A	Analysis Batch:	280-65270	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	05/02/2011 1817	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	190.7	95	82 - 116	
Antimony	50.0	50.44	101	82 - 110	
Arsenic	100	101.3	101	85 - 110	
Barium	200	218.5	109	87 - 112	
Beryllium	5.00	5.16	103	84 - 114	
Boron	100	102.0	102	81 - 110	
Calcium	5000	5318	106	82 - 114	
Chromium	20.0	19.62	98	84 - 114	
Cobalt	50.0	51.00	102	87 - 110	
Copper	25.0	25.86	103	88 - 110	
Iron	100	115.2	115	87 - 120	
Lead	50.0	50.71	101	86 - 110	
Magnesium	5000	4999	100	90 - 110	
Manganese	50.0	51.00	102	88 - 110	
Molybdenum	100	102.8	103	86 - 110	
Nickel	50.0	49.24	98	87 - 110	
Potassium	5000	5243	105	89 - 110	
Selenium	200	201.9	101	83 - 110	
Silicon	1000	121.8	12	10 - 70	
Silver	5.00	5.06	101	87 - 114	
Sodium	5000	5283	106	90 - 112	
Vanadium	50.0	50.84	102	88 - 110	
Zinc	50.0	50.16	100	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Matrix Spike - Batch: 280-64750

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-15156-1	Analysis Batch:	280-65270	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	05/02/2011 1824	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	11100		201	13820	1348	50 - 200	4
Antimony	0.35	U	50.3	17.01	34	20 - 200	
Arsenic	74.4		101	162.5	88	76 - 111	
Barium	101		201	305.8	102	52 - 159	
Beryllium	0.15	B	5.03	4.81	93	72 - 105	
Boron	2.6		101	91.93	89	75 - 107	
Calcium	4270		5030	9821	110	43 - 165	
Chromium	13.0		20.1	32.60	97	70 - 200	
Cobalt	8.2		50.3	53.44	90	72 - 106	
Copper	15.2		25.2	38.88	94	37 - 187	
Iron	20800		101	21150	368	70 - 200	4
Lead	682		50.3	701.7	40	70 - 200	4
Magnesium	4720		5030	9426	94	64 - 145	
Manganese	400		50.3	448.1	95	40 - 200	4
Molybdenum	0.37	B	101	88.62	88	75 - 103	
Nickel	12.3		50.3	55.91	87	61 - 126	
Potassium	2400		5030	7494	101	56 - 172	
Selenium	0.79	U	201	179.7	89	76 - 104	
Silicon	278		1010	437.1	16	20 - 200	N
Silver	0.15	U	5.03	4.63	92	75 - 141	
Sodium	244		5030	5289	100	78 - 111	
Vanadium	40.5		50.3	90.59	100	50 - 169	
Zinc	55.9		50.3	99.71	87	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Duplicate - Batch: 280-64750

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-15156-1	Analysis Batch:	280-65270	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-64750	Lab File ID:	26a050211.asc
Dilution:	1 0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	05/02/2011 1826	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/29/2011 1500				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	11100		11210	1	40	
Antimony	0.35	U	0.39	NC	40	U
Arsenic	74.4		76.45	3	30	
Barium	101		102.2	1	30	
Beryllium	0.15	B	0.135	9	30	B
Boron	2.6		2.79	6	30	
Calcium	4270		4332	1	30	
Chromium	13.0		13.32	2	40	
Cobalt	8.2		8.35	2	30	
Copper	15.2		15.29	0.7	30	
Iron	20800		21100	2	40	
Lead	682		689.7	1	40	
Magnesium	4720		4763	0.9	30	
Manganese	400		413.8	3	40	
Molybdenum	0.37	B	0.427	16	30	B
Nickel	12.3		12.42	1	30	
Potassium	2400		2440	2	40	
Selenium	0.79	U	0.87	NC	30	U
Silicon	278		253.1	9	40	
Silver	0.15	U	0.16	NC	30	U
Sodium	244		242.4	0.8	30	
Vanadium	40.5		42.15	4	30	
Zinc	55.9		56.36	0.8	40	

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Method Blank - Batch: 280-65544

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-65544/1-A	Analysis Batch:	280-65692	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	05/05/2011 0120	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/04/2011 1600				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
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
Lead	0.27	U	0.27	0.50
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

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Lab Control Sample - Batch: 280-65544

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-65544/2-A	Analysis Batch:	280-65692	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	05/05/2011 0122	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
Antimony	50.0	51.79	104	82 - 110	
Arsenic	100	100.8	101	85 - 110	
Barium	200	201.5	101	87 - 112	
Beryllium	5.00	4.60	92	84 - 114	
Boron	100	100.3	100	81 - 110	
Cadmium	10.0	10.32	103	87 - 110	
Calcium	5000	4644	93	82 - 114	
Chromium	20.0	19.41	97	84 - 114	
Cobalt	50.0	47.92	96	87 - 110	
Copper	25.0	25.15	101	88 - 110	
Lead	50.0	49.43	99	86 - 110	
Manganese	50.0	44.21	88	88 - 110	
Molybdenum	100	99.94	100	86 - 110	
Nickel	50.0	47.73	95	87 - 110	
Potassium	5000	5167	103	89 - 110	
Selenium	200	201.2	101	83 - 110	
Silicon	1000	145.8	15	10 - 70	
Silver	5.00	4.86	97	87 - 114	
Sodium	5000	5427	109	90 - 112	
Vanadium	50.0	45.92	92	88 - 110	

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Matrix Spike - Batch: 280-65544

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-15156-1	Analysis Batch:	280-65692	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	05/05/2011 0129	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
Antimony	0.36	U	50.8	23.00	45	20 - 200	
Arsenic	75.7		102	169.7	93	76 - 111	
Barium	98.9		203	283.2	91	52 - 159	
Beryllium	0.21		5.08	4.29	80	72 - 105	
Boron	2.9		102	90.22	86	75 - 107	
Cadmium	0.45		10.2	9.86	93	40 - 130	
Calcium	3780		5080	8429	91	43 - 165	
Chromium	14.0		20.3	31.55	86	70 - 200	
Cobalt	7.7		50.8	50.00	83	72 - 106	
Copper	14.2		25.4	36.85	89	37 - 187	
Lead	669		50.8	713.5	87	70 - 200	4
Manganese	360		50.8	393.1	66	40 - 200	4
Molybdenum	0.24	U	102	86.82	85	75 - 103	
Nickel	12.0		50.8	54.09	83	61 - 126	
Potassium	2450		5080	7337	96	56 - 172	
Selenium	0.80	U	203	181.4	89	76 - 104	
Silicon	388		1020	511.8	12	20 - 200	N
Silver	0.15	U	5.08	4.49	88	75 - 141	
Sodium	210		5080	5340	101	78 - 111	
Vanadium	38.6		50.8	81.51	84	50 - 169	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Duplicate - Batch: 280-65544

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-15156-1	Analysis Batch:	280-65692	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-65544	Lab File ID:	25A6050411.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.04 g
Analysis Date:	05/05/2011 0131	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
Antimony	0.36	U	0.39	NC	40	U
Arsenic	75.7		82.91	9	30	
Barium	98.9		99.95	1	30	
Beryllium	0.21		0.214	1	30	
Boron	2.9		2.85	0.8	30	
Cadmium	0.45		0.473	5	30	
Calcium	3780		3937	4	30	
Chromium	14.0		13.93	0.5	40	
Cobalt	7.7		7.91	3	30	
Copper	14.2		14.62	3	30	
Lead	669		740.7	10	40	
Manganese	360		368.4	2	40	
Molybdenum	0.24	U	0.27	NC	30	U
Nickel	12.0		12.58	4	30	
Potassium	2450		2537	3	40	
Selenium	0.80	U	0.88	NC	30	U
Silicon	388		441.3	13	40	
Silver	0.15	U	0.16	NC	30	U
Sodium	210		215.2	2	30	
Vanadium	38.6		39.18	1	30	

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Method Blank - Batch: 280-64693

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-64693/1-A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/02/2011 1553	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-64693

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-64693/2-A	Analysis Batch:	280-65262	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/02/2011 1600	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.430	103	87 - 111	

Matrix Spike - Batch: 280-64693

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-15156-2	Analysis Batch:	280-65262	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.65 g
Analysis Date:	05/02/2011 1609	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.017	B	0.416	0.393	91	87 - 111	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Duplicate - Batch: 280-64693

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-15156-2	Analysis Batch:	280-65262	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-64693	Lab File ID:	110502AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.69 g
Analysis Date:	05/02/2011 1607	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/02/2011 1158				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.017	B	0.0163	3	20	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-15156-1
Sdg Number: JP0171

Duplicate - Batch: 280-64769

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-15156-1	Analysis Batch:	280-64769	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:	04/29/2011 0917	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	6.2	6.0	4	20	

4.6, 3.8, 4.8 ac

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-070	Page 1 of ~~10~~ 4

Collector: M Blankenship / J. Kuapler	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-11-014	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.: 7970345159 78	

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									
J1HK23	SOIL	4/26/11	1225	X		X	X	X	X	X		
J1HK24	SOIL	4/26/11	1010	X		X	X	X	X	X		
J1HK25	SOIL	4/26/11	1235	X		X	X	X	X	X		
J1HK26	SOIL	4/26/11	1000	X		X	X	X	X	X		
J1HK27	SOIL	4/26/11	1300	X		X	X	X	X	X		

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
M Blankenship	4-26-11 1435	JV Fullmer	4/26/11 1435
JV Fullmer	4/26/11 1615	A. Freier	4-26-11 1615
A. Freier (WCH)	4-27-11 1000	FED EX	
			4/28/11 930

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)

* 20 ml vial - % moisture

** freeze upon receipt AF 4-26-11

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

JP0171

REVIEWED BY JEB DATE 4-27-11

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 4

Collector: M. Blankingship / J. Kuepfer	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L 88	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-11-014	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.: 797034515978

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

Sample No.	Matrix *	Sample Date	Sample Time	See item (1) in Special Instructions.	Chromium Hex 7196	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL) * **	PCBs - 8082	PAHs - 8310	Pesticides - 8081			
J1HK28	SOIL	4/26/11	1305	X		X	X	X	X	X			
J1HK29	SOIL	4/26/11	0935	X		X	X	X	X	X			
J1HK30	SOIL	4/26/11	0850	X		X	X	X	X	X			
J1HK31	SOIL	4/26/11	0855	X		X	X	X	X	X			
J1HK32	SOIL	4/26/11	0938	X		X	X	X	X	X			

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
[signature]	4-26-11 1435	JV Fullmer [signature]	1435 4/26/11
JV Fullmer [signature]	1615 4/26/11	A. Freier [signature]	1615 4-26-11
WCH A. Freier [signature]	1000 4-27-11	FED EX	
		[signature]	4/28/11

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)

* 20ml vial → % moisture

** freeze upon receipt AF 4-26-11

JP0171

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

REVIEWED BY JEB DATE 4-27-11

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 3 of ~~10~~ 4

Collector: M. Blankenship / J. Kuepker	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-11-014	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.: 7970345159 78		

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										
J1HK33 / SOIL / 4/26/11 / 0840	X		X	X	X	X	X			
J1HK34 / SOIL / 4/26/11 / 0900	X		X	X	X	X	X			
J1HK35 / SOIL / 4/26/11 / 0825	X		X	X	X	X	X			
J1HK36 / SOIL / 4/26/11 / 0830	X		X	X	X	X	X			
J1HK37 / SOIL / 4/26/11 / 0950	X		X	X	X	X	X			

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
MATT BLANKENSHIP	4-26-11 1435	JV Fullmer	4/26/11 1435
JV Fullmer	4/26/11 1615	A. Freier	4-26-11 1615
A. Freier (WCH)	4-27-11 1000	FED EX	
			4/28/11 930

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)

* 20 ml vial → % moisture

** freeze upon receipt

AF 4-26-11

JP0171

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

REVIEWED BY JEB DATE 4-27-11

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 4 of ~~10~~ 4

Collector: M. Blankingship / J. Kuepfer	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: ~~8D~~ 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-11-014	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.: 7970345 15978

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										
J1HK38	SOIL	4/26/11	0955	X		X	X	X	X	X			
J1HK39	SOIL	4/26/11	1320	X		X	X	X	X	X			
J1HK40	SOIL	4/26/11	1335	X		X	X	X	X	X			
J1HK41	SOIL	4/26/11	1235	X		X	X	X	X	X			
~~J1HK42~~	~~SOIL~~		~~4/26/11~~										

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From: WATERMANSHIP	Date/Time: 4-26-11 1435	Received By/Stored In: JV Fullmer	Date/Time: 4/26/11 1435
Relinquished By/Removed From: JV Fullmer	Date/Time: 4/26/11 1615	Received By/Stored In: A. Freier	Date/Time: 4-26-11 1615
Relinquished By/Removed From: A. Freier (WCH)	Date/Time: 4-27-11 1000	Received By/Stored In: FED EX	Date/Time:
Relinquished By/Removed From:	Date/Time:	Received By/Stored In:	Date/Time: 4/28/11 930
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)

* ~~20%~~ 20 ml vial → % moisture AJ 4-26-11

** freeze upon receipt AJ 4-26-11

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

REVIEWED BY SEB DATE 4-27-11

JP0171

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-107-071	Page 1 of 1

Collector: M. Blankingship	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.: WCH-11-014	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.: 797034515978

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) * **											
Sample No.	Matrix *	Sample Date	Sample Time									
J1HKF5	SOIL	4/26/11	0805	X								
~~J1HKF6~~	~~SOIL~~											
~~J1HKF7~~	~~SOIL~~											
~~J1HKF8~~	~~SOIL~~											

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time 1435 4-26-11	Received By/Stored In	Date/Time 1435 4/26/11
Relinquished By/Removed From	Date/Time 1600 4/26/11	Received By/Stored In A. Freier	Date/Time 1600 4-26-11
Relinquished By/Removed From WCH A. Freier	Date/Time 1000 4-27-11	Received By/Stored In FED EX	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time 4/28/11 930
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

* 20ml vial → % moisture

** freeze upon receipt

AJ 4-26-11

REVIEWED BY JEB DATE 4-27-11

JP0171

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

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

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 ~ Solid (GOTOR)

Analytical Due:

Report Due: 5/5/11 (Rush Sdy TAT)

Sample Check-in List

Date/Time Received: 4/28/11 0930 GM Screen Result 12 microR/hr

Client: Washington Closure Hanford SDG #: JP0171 NA[ ] SAF #: RC-107 NA [ ]

Job Number: 15156 Chain of Custody # RC-107-070, -071

Shipping Container ID: WCH-08-023 WCH-11-014 WCH-11-032 Air Bill # 7970 3451 6150, 7970 3451 5978, 7970 3451 6220

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature °C: 4.6, 3.8, 4.8 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 20
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): ~~JHK~~ JHK 35, JHK 36 and JHKF5 5035/8260 expired in Transit. All other Samples for 5035/8260 expired before the samples could be preserved.

Sample Custodian: [signature] **Date:** 4/28/11

Client Sample ID	Analysis Requested	Condition	Comments/Action
All Samples	5035/8260	Hold time Expired	will proceed with analysis

Client Informed on 4/29/11 by MW Person Contacted Jim Kessner

[ ] No action necessary; process as is.

Project Manager [signature] Date 4/29/11

From: (509) 375-4640 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J1151102250225

Ship Date: 27APR11
ActWgt: 95.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

1 of 3

THU - 28 APR A1
PRIORITY OVERNIGHT

TRK# 7970 3451 5978
0201

MASTER

XH WHHA

80002
CO-US
DEN

50DG3/26A8/7EFB

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From: (509) 375-4640 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx Express

J11151102250225

Ship Date: 27APR11
ActWgt: 71.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

2 of 3

THU - 28 APR A1
PRIORITY OVERNIGHT

MPS# 7970 3451 6150
0263
Mstr# 7970 3451 5978 0201

XH WHHA

80002
CO-US
DEN

50DG3/26A8/7EFB

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From: (509) 375-4640 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 27APR11
ActWgt: 57.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

3 of 3

THU - 28 APR A1
PRIORITY OVERNIGHT

MPS# 7970 3451 6220
0263
Mstr# 7970 3451 5978 0201

XH WHHA

80002
CO-US
DEN

50DG3/26A8/7EF8

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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