SAF-RC-232
100-IU-2 & 100-IU-6 Remaining Waste Sites – Soil Full Protocol
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 5/12/15
INITIAL/DATE

COMMENTS:

SDG JP0957 SAF-RC-232

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location: 600-358 (excavation, verification)

ANALYTICAL REPORT

Job Number: 280-68618-1

SDG Number: JP0957

Job Description: SAF# RC-232

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

Attention: Joan H Kessner

Approved for release.
Kae E Yoder
Senior Project Manager
5/11/2015 1:18 PM

Kae E Yoder, Senior Project Manager
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05/11/2015

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 4025.

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

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Job Number: 280-68618-1

SDG #: JP0957
SAF#: RC-232

Date SDG Closed: May 1, 2015
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1V6M3	280-68618-1	6010/7471/WTPH-D+/8310/8082/WTPH-G/ 353.2	6010B/7471A/NWTPH-Dx/8310/8082/NWTPH-Gx/ 353.2
J1V6M4	280-68618-2	6010/7471/WTPH-D+/8310/8082/WTPH-G/ 353.2	6010B/7471A/NWTPH-Dx/8310/8082/NWTPH-Gx/ 353.2
J1V6M5	280-68618-3	6010/7471/WTPH-D+/8310/8082/WTPH-G/ 353.2	6010B/7471A/NWTPH-Dx/8310/8082/NWTPH-Gx/ 353.2
J1V6M6	280-68618-4	6010/7471/WTPH-D+/8310/8082/WTPH-G/ 353.2	6010B/7471A/NWTPH-Dx/8310/8082/NWTPH-Gx/ 353.2
J1V6M7	280-68618-5	6010/7471/WTPH-D+/8310/8082/WTPH-G/ 353.2	6010B/7471A/NWTPH-Dx/8310/8082/NWTPH-Gx/ 353.2
J1V6M8	280-68618-6	6010/7471/WTPH-D+/8310/8082/WTPH-G/ 353.2	6010B/7471A/NWTPH-Dx/8310/8082/NWTPH-Gx/ 353.2
J1V6M9	280-68618-7	6010/7471/WTPH-D+/8310/8082/WTPH-G/ 353.2	6010B/7471A/NWTPH-Dx/8310/8082/NWTPH-Gx/ 353.2
J1V6N0	280-68618-8	6010/7471/WTPH-D+/8310/8082/WTPH-G/ 353.2	6010B/7471A/NWTPH-Dx/8310/8082/NWTPH-Gx/ 353.2
J1V6N1	280-68618-9	6010/7471/WTPH-D+/8310/8082/WTPH-G/ 353.2	6010B/7471A/NWTPH-Dx/8310/8082/NWTPH-Gx/ 353.2
J1V6N2	280-68618-10	6010/7471/WTPH-D+/8310/8082/WTPH-G/ 353.2	6010B/7471A/NWTPH-Dx/8310/8082/NWTPH-Gx/ 353.2
J1V6N3	280-68618-11	6010/7471/WTPH-D+/8310/8082/WTPH-G/ 353.2	6010B/7471A/NWTPH-Dx/8310/8082/NWTPH-Gx/ 353.2
J1V6N4	280-68618-12	6010/7471/WTPH-D+/8310/8082/WTPH-G/ 353.2	6010B/7471A/NWTPH-Dx/8310/8082/NWTPH-Gx/ 353.2
J1V6N5	280-68618-13	6010/7471/WTPH-D+/8310/8082/WTPH-G/ 353.2	6010B/7471A/NWTPH-Dx/8310/8082/NWTPH-Gx/ 353.2

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

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

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

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

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

RECEIPT
The samples were received on 5/1/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 3.0º C, 3.5º C, 4.7º C and 5.1º C.

GC VOLATILES - NWTPH-Gx - GRO
No anomalies were encountered.

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

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

HPLC - SW846 8310 - PAHs
No anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-275722 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an “X”.

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the methods. The samples presented in this report required dilutions prior to the analysis of Antimony, Beryllium, Cobalt, Copper, Lead and Vanadium to minimize the interference caused by Titanium concentrations greater than the linear range. The reporting limits have been adjusted relative to the dilution required.

Low levels of Barium, Calcium and Magnesium are present in the method blank associated with batch 280-275722. Because the concentrations in the method blank are not present at levels greater than half the reporting limit, corrective action is deemed unnecessary.

Iron, a common laboratory contaminant, is present at a level greater than the reporting limit in the method blank associated with batch 280-275722. As the associated sample amounts are greater than twenty times the method blank concentration, corrective action is deemed unnecessary.

It can be noted that the sample amount was greater than four times the spike amount for Aluminum, Iron and Manganese in the Matrix Spike performed on sample J1V6M3; therefore, control limits are not applicable.

Boron was recovered outside the control limits in the Matrix Spike performed on sample J1V6M3, and the associated sample result has been flagged “N”. There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

GENERAL CHEMISTRY - MCAWW 353.2 - NITRATE NITRITE as N
No anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Lab Section	Qualifier	Description
GC VOA		
	U	Analyzed for but not detected.
GC Semi VOA		
	U	Analyzed for but not detected.
HPLC/IC		
	U	Analyzed for but not detected.
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 greater than 4 times 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.
	B	Estimated result. Result is less than the RL, but greater than MDL

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-68618-1	J1V6M3	Solid	04/29/2015 0911	05/01/2015 0930
280-68618-2	J1V6M4	Solid	04/29/2015 0908	05/01/2015 0930
280-68618-3	J1V6M5	Solid	04/29/2015 0920	05/01/2015 0930
280-68618-4	J1V6M6	Solid	04/29/2015 0903	05/01/2015 0930
280-68618-5	J1V6M7	Solid	04/29/2015 0943	05/01/2015 0930
280-68618-6	J1V6M8	Solid	04/29/2015 0917	05/01/2015 0930
280-68618-7	J1V6M9	Solid	04/29/2015 0923	05/01/2015 0930
280-68618-8	J1V6N0	Solid	04/29/2015 0936	05/01/2015 0930
280-68618-9	J1V6N1	Solid	04/29/2015 0940	05/01/2015 0930
280-68618-10	J1V6N2	Solid	04/29/2015 0927	05/01/2015 0930
280-68618-11	J1V6N3	Solid	04/29/2015 0933	05/01/2015 0930
280-68618-12	J1V6N4	Solid	04/29/2015 0930	05/01/2015 0930
280-68618-13	J1V6N5	Solid	04/29/2015 0903	05/01/2015 0930

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Northwest - Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Gx	
Purge and Trap	TAL DEN		SW846 5030B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
Ultrasonic Extraction	TAL DEN		SW846 3550C
PAHs (HPLC)	TAL DEN	SW846 8310	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
Nitrogen, Nitrate-Nitrite	TAL DEN	MCAWW 353.2	
Deionized Water Leaching Procedure	TAL DEN		ASTM DI Leach
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Method	Analyst	Analyst ID
NWTPH NWTPH-Gx	Redman, Erin E	EER
SW846 8082	Jackson, Todd D	TDJ
NWTPH NWTPH-Dx	Moore, Tegan E	TEM
SW846 6010B	Broander, Laura L	LLB
SW846 7471A	Whyte, Whitney A	WAW
MCAWW 353.2	Bland, Morgan R	MRB
ASTM D-2216	Schwemin, Andrew J	AJS
SW846 8310	Fiedler, Heather K	HKF

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M3**

Lab Sample ID: 280-68618-1
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 04/29/2015 0911
Date Received: 05/01/2015 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-276056	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-275702	Initial Weight/Volume:	10.02 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/06/2015 0233			Injection Volume:	5 mL
Prep Date:	05/03/2015 1251			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M4**

Lab Sample ID: 280-68618-2
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0908
Date Received: 05/01/2015 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-276056	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-275702	Initial Weight/Volume:	9.95 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/06/2015 0347			Injection Volume:	5 mL
Prep Date:	05/03/2015 1251			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M5**

Lab Sample ID: 280-68618-3
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/29/2015 0920
Date Received: 05/01/2015 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-276056	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-275702	Initial Weight/Volume:	9.95 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/06/2015 0412			Injection Volume:	5 mL
Prep Date:	05/03/2015 1251			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	92		77 - 123

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M6**

Lab Sample ID: 280-68618-4
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/29/2015 0903
Date Received: 05/01/2015 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-276056	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-275702	Initial Weight/Volume:	10.13 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/06/2015 0437			Injection Volume:	5 mL
Prep Date:	05/03/2015 1251			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		320	U	320	1200

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	92		77 - 123

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M7**

Lab Sample ID: 280-68618-5
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0943
Date Received: 05/01/2015 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-276056	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-275702	Initial Weight/Volume:	10.03 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/06/2015 0502			Injection Volume:	5 mL
Prep Date:	05/03/2015 1251			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	90		77 - 123

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M8**

Lab Sample ID: 280-68618-6
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0917
Date Received: 05/01/2015 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-276056	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-275702	Initial Weight/Volume:	10.32 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/06/2015 0527			Injection Volume:	5 mL
Prep Date:	05/03/2015 1251			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		320	U	320	1200

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M9**

Lab Sample ID: 280-68618-7
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 04/29/2015 0923
Date Received: 05/01/2015 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-276057	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-276035	Initial Weight/Volume:	10.13 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/06/2015 0731			Injection Volume:	5 mL
Prep Date:	05/05/2015 1104			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		320	U	320	1200

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	90		77 - 123

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N0**

Lab Sample ID: 280-68618-8
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0936
Date Received: 05/01/2015 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-276057	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-276035	Initial Weight/Volume:	10.08 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/06/2015 0846			Injection Volume:	5 mL
Prep Date:	05/05/2015 1104			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		320	U	320	1200

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N1**

Lab Sample ID: 280-68618-9
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 04/29/2015 0940
Date Received: 05/01/2015 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-276057	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-276035	Initial Weight/Volume:	10.06 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/06/2015 0912			Injection Volume:	5 mL
Prep Date:	05/05/2015 1104			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	90		77 - 123

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N2**

Lab Sample ID: 280-68618-10
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 04/29/2015 0927
Date Received: 05/01/2015 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-276057	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-276035	Initial Weight/Volume:	10.41 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/06/2015 0937			Injection Volume:	5 mL
Prep Date:	05/05/2015 1104			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		310	U	310	1200

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	88		77 - 123

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N3**

Lab Sample ID: 280-68618-11
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 04/29/2015 0933
Date Received: 05/01/2015 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-276057	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-276035	Initial Weight/Volume:	10.19 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/06/2015 1002			Injection Volume:	5 mL
Prep Date:	05/05/2015 1104			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		320	U	320	1200

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N4**

Lab Sample ID: 280-68618-12
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0930
Date Received: 05/01/2015 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-276057	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-276035	Initial Weight/Volume:	10.42 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/06/2015 1027			Injection Volume:	5 mL
Prep Date:	05/05/2015 1104			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		310	U	310	1200

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	88		77 - 123

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N5**

Lab Sample ID: 280-68618-13
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0903
Date Received: 05/01/2015 0930

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-276057	Instrument ID:	VGC_Q
Prep Method:	5030B	Prep Batch:	280-276035	Initial Weight/Volume:	10.24 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	05/06/2015 1052			Injection Volume:	5 mL
Prep Date:	05/05/2015 1104			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline		320	U	320	1200

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M3**

Lab Sample ID: 280-68618-1
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 04/29/2015 0911
Date Received: 05/01/2015 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-275813	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	05/06/2015 1252			Injection Volume:	1 uL
Prep Date:	05/04/2015 1306			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	96		59 - 130
Tetrachloro-m-xylene	79		53 - 128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6M4

Lab Sample ID: 280-68618-2
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0908
Date Received: 05/01/2015 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-275813	Initial Weight/Volume:	32.6 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	05/06/2015 1402			Injection Volume:	1 uL
Prep Date:	05/04/2015 1306			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.3
Aroclor 1221		7.4	U	7.4	15
Aroclor 1232		1.9	U	1.9	9.3
Aroclor 1242		4.3	U	4.3	9.3
Aroclor 1248		4.3	U	4.3	9.3
Aroclor 1254		2.4	U	2.4	9.3
Aroclor 1260		2.4	U	2.4	9.3

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	94		59 - 130
Tetrachloro-m-xylene	77		53 - 128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M5**

Lab Sample ID: 280-68618-3
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/29/2015 0920
Date Received: 05/01/2015 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-275813	Initial Weight/Volume:	32.9 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	05/06/2015 1425			Injection Volume:	1 uL
Prep Date:	05/04/2015 1306			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.5	U	2.5	9.2
Aroclor 1221		7.4	U	7.4	15
Aroclor 1232		1.8	U	1.8	9.2
Aroclor 1242		4.3	U	4.3	9.2
Aroclor 1248		4.3	U	4.3	9.2
Aroclor 1254		2.4	U	2.4	9.2
Aroclor 1260		2.4	U	2.4	9.2

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	100		59 - 130
Tetrachloro-m-xylene	78		53 - 128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M6**

Lab Sample ID: 280-68618-4
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/29/2015 0903
Date Received: 05/01/2015 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-275813	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	05/06/2015 1449			Injection Volume:	1 uL
Prep Date:	05/04/2015 1306			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	98		59 - 130
Tetrachloro-m-xylene	78		53 - 128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M7**

Lab Sample ID: 280-68618-5
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0943
Date Received: 05/01/2015 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-275813	Initial Weight/Volume:	32.5 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	05/06/2015 1512			Injection Volume:	1 uL
Prep Date:	05/04/2015 1306			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.3
Aroclor 1221		7.5	U	7.5	15
Aroclor 1232		1.9	U	1.9	9.3
Aroclor 1242		4.3	U	4.3	9.3
Aroclor 1248		4.3	U	4.3	9.3
Aroclor 1254		2.4	U	2.4	9.3
Aroclor 1260		2.4	U	2.4	9.3

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	96		59 - 130
Tetrachloro-m-xylene	78		53 - 128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M8**

Lab Sample ID: 280-68618-6
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0917
Date Received: 05/01/2015 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-275813	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	05/06/2015 1535			Injection Volume:	1 uL
Prep Date:	05/04/2015 1306			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.4
Aroclor 1221		7.5	U	7.5	15
Aroclor 1232		1.9	U	1.9	9.4
Aroclor 1242		4.4	U	4.4	9.4
Aroclor 1248		4.4	U	4.4	9.4
Aroclor 1254		2.4	U	2.4	9.4
Aroclor 1260		2.4	U	2.4	9.4

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	95		59 - 130
Tetrachloro-m-xylene	76		53 - 128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M9**

Lab Sample ID: 280-68618-7
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 04/29/2015 0923
Date Received: 05/01/2015 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-275813	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	05/06/2015 1558			Injection Volume:	1 uL
Prep Date:	05/04/2015 1306			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	91		59 - 130
Tetrachloro-m-xylene	71		53 - 128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N0**

Lab Sample ID: 280-68618-8
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0936
Date Received: 05/01/2015 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-275813	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	05/06/2015 1621			Injection Volume:	1 uL
Prep Date:	05/04/2015 1306			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	110		59 - 130
Tetrachloro-m-xylene	84		53 - 128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N1**

Lab Sample ID: 280-68618-9
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 04/29/2015 0940
Date Received: 05/01/2015 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-275813	Initial Weight/Volume:	32.9 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	05/06/2015 1645			Injection Volume:	1 uL
Prep Date:	05/04/2015 1306			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.5	U	2.5	9.2
Aroclor 1221		7.4	U	7.4	15
Aroclor 1232		1.8	U	1.8	9.2
Aroclor 1242		4.3	U	4.3	9.2
Aroclor 1248		4.3	U	4.3	9.2
Aroclor 1254		2.4	U	2.4	9.2
Aroclor 1260		2.4	U	2.4	9.2

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	101		59 - 130
Tetrachloro-m-xylene	81		53 - 128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N2**

Lab Sample ID: 280-68618-10
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 04/29/2015 0927
Date Received: 05/01/2015 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-275813	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	05/06/2015 1708			Injection Volume:	1 uL
Prep Date:	05/04/2015 1306			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	101		59 - 130
Tetrachloro-m-xylene	80		53 - 128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N3**

Lab Sample ID: 280-68618-11
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 04/29/2015 0933
Date Received: 05/01/2015 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-275813	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	05/06/2015 1731			Injection Volume:	1 uL
Prep Date:	05/04/2015 1306			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.4
Aroclor 1221		7.5	U	7.5	16
Aroclor 1232		1.9	U	1.9	9.4
Aroclor 1242		4.4	U	4.4	9.4
Aroclor 1248		4.4	U	4.4	9.4
Aroclor 1254		2.4	U	2.4	9.4
Aroclor 1260		2.4	U	2.4	9.4

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	102		59 - 130
Tetrachloro-m-xylene	82		53 - 128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N4**

Lab Sample ID: 280-68618-12
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0930
Date Received: 05/01/2015 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-275813	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	05/06/2015 1754			Injection Volume:	1 uL
Prep Date:	05/04/2015 1306			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	98		59 - 130
Tetrachloro-m-xylene	78		53 - 128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N5**

Lab Sample ID: 280-68618-13
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0903
Date Received: 05/01/2015 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Prep Method:	3550C	Prep Batch:	280-275813	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	05/06/2015 1817			Injection Volume:	1 uL
Prep Date:	05/04/2015 1306			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	89		59 - 130
Tetrachloro-m-xylene	76		53 - 128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M3**

Lab Sample ID: 280-68618-1
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 04/29/2015 0911
Date Received: 05/01/2015 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Prep Method:	3550C	Prep Batch:	280-275864	Lab File ID:	05070008.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	05/07/2015 1239			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	69		49 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6M4

Lab Sample ID: 280-68618-2
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0908
Date Received: 05/01/2015 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Prep Method:	3550C	Prep Batch:	280-275864	Lab File ID:	05070009.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	05/07/2015 1303			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		950	U	950	3800
C10-C28		640	U	640	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	68		49 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6M5

Lab Sample ID: 280-68618-3
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/29/2015 0920
Date Received: 05/01/2015 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Prep Method:	3550C	Prep Batch:	280-275864	Lab File ID:	05070010.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	05/07/2015 1327			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	70		49 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6M6

Lab Sample ID: 280-68618-4
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/29/2015 0903
Date Received: 05/01/2015 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Prep Method:	3550C	Prep Batch:	280-275864	Lab File ID:	05070013.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	05/07/2015 1440			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	68		49 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M7**

Lab Sample ID: 280-68618-5
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0943
Date Received: 05/01/2015 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Prep Method:	3550C	Prep Batch:	280-275864	Lab File ID:	05070015.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	05/07/2015 1528			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	65		49 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6M8

Lab Sample ID: 280-68618-6
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0917
Date Received: 05/01/2015 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Prep Method:	3550C	Prep Batch:	280-275864	Lab File ID:	05070016.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	05/07/2015 1552			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		950	U	950	3800
C10-C28		640	U	640	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	66		49 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M9**

Lab Sample ID: 280-68618-7
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 04/29/2015 0923
Date Received: 05/01/2015 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Prep Method:	3550C	Prep Batch:	280-275864	Lab File ID:	05070017.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	05/07/2015 1616			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	63		49 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N0**

Lab Sample ID: 280-68618-8
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0936
Date Received: 05/01/2015 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Prep Method:	3550C	Prep Batch:	280-275864	Lab File ID:	05070018.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	05/07/2015 1640			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	70		49 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N1**

Lab Sample ID: 280-68618-9
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 04/29/2015 0940
Date Received: 05/01/2015 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Prep Method:	3550C	Prep Batch:	280-275864	Lab File ID:	05070019.D
Dilution:	1.0			Initial Weight/Volume:	32.6 g
Analysis Date:	05/07/2015 1704			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		920	U	920	3700
C10-C28		630	U	630	3700

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	63		49 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N2**

Lab Sample ID: 280-68618-10
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 04/29/2015 0927
Date Received: 05/01/2015 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Prep Method:	3550C	Prep Batch:	280-275864	Lab File ID:	05070020.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	05/07/2015 1729			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	63		49 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N3**

Lab Sample ID: 280-68618-11
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 04/29/2015 0933
Date Received: 05/01/2015 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Prep Method:	3550C	Prep Batch:	280-275864	Lab File ID:	05070021.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	05/07/2015 1753			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL

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

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N4**

Lab Sample ID: 280-68618-12
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0930
Date Received: 05/01/2015 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Prep Method:	3550C	Prep Batch:	280-275864	Lab File ID:	05070022.D
Dilution:	1.0			Initial Weight/Volume:	32.0 g
Analysis Date:	05/07/2015 1817			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL

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

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	70		49 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6N5

Lab Sample ID: 280-68618-13
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0903
Date Received: 05/01/2015 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Prep Method:	3550C	Prep Batch:	280-275864	Lab File ID:	05070023.D
Dilution:	1.0			Initial Weight/Volume:	31.8 g
Analysis Date:	05/07/2015 1841			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		950	U	950	3800
C10-C28		640	U	640	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	65		49 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M3**

Lab Sample ID: 280-68618-1
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 04/29/2015 0911
Date Received: 05/01/2015 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-275637	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	4 mL
Analysis Date:	05/06/2015 1616			Injection Volume:	20 uL
Prep Date:	05/01/2015 2315			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	87		72 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M4**

Lab Sample ID: 280-68618-2
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0908
Date Received: 05/01/2015 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-275637	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	4 mL
Analysis Date:	05/06/2015 1647			Injection Volume:	20 uL
Prep Date:	05/01/2015 2315			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M5**

Lab Sample ID: 280-68618-3
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/29/2015 0920
Date Received: 05/01/2015 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-275637	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	4 mL
Analysis Date:	05/06/2015 1718			Injection Volume:	20 uL
Prep Date:	05/01/2015 2315			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M6**

Lab Sample ID: 280-68618-4
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/29/2015 0903
Date Received: 05/01/2015 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-275637	Initial Weight/Volume:	32.1 g
Dilution:	1.0			Final Weight/Volume:	4 mL
Analysis Date:	05/06/2015 1748			Injection Volume:	20 uL
Prep Date:	05/01/2015 2315			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M7**

Lab Sample ID: 280-68618-5
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0943
Date Received: 05/01/2015 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-275637	Initial Weight/Volume:	31.5 g
Dilution:	1.0			Final Weight/Volume:	4 mL
Analysis Date:	05/06/2015 1920			Injection Volume:	20 uL
Prep Date:	05/01/2015 2315			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.6	U	9.6	96
Acenaphthylene		8.6	U	8.6	96
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.1	U	3.1	14
Benzo[a]pyrene		6.2	U	6.2	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.9	U	6.9	29
Benzo[k]fluoranthene		3.8	U	3.8	14
Chrysene		4.6	U	4.6	38
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		12	U	12	38
Fluorene		5.1	U	5.1	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	96
Phenanthrene		12	U	12	38
Pyrene		12	U	12	38

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M8**

Lab Sample ID: 280-68618-6
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0917
Date Received: 05/01/2015 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-275637	Initial Weight/Volume:	32.2 g
Dilution:	1.0			Final Weight/Volume:	4 mL
Analysis Date:	05/06/2015 1950			Injection Volume:	20 uL
Prep Date:	05/01/2015 2315			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.4	U	9.4	94
Acenaphthylene		8.4	U	8.4	94
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.0	U	3.0	14
Benzo[a]pyrene		6.0	U	6.0	14
Benzo[b]fluoranthene		3.9	U	3.9	14
Benzo[g,h,i]perylene		6.7	U	6.7	28
Benzo[k]fluoranthene		3.7	U	3.7	14
Chrysene		4.5	U	4.5	37
Dibenzo(a,h)anthracene		10	U	10	28
Fluoranthene		12	U	12	37
Fluorene		4.9	U	4.9	28
Indeno[1,2,3-cd]pyrene		11	U	11	28
Naphthalene		11	U	11	94
Phenanthrene		11	U	11	37
Pyrene		11	U	11	37

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6M9**

Lab Sample ID: 280-68618-7
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 04/29/2015 0923
Date Received: 05/01/2015 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-275637	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	4 mL
Analysis Date:	05/06/2015 2051			Injection Volume:	20 uL
Prep Date:	05/01/2015 2315			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N0**

Lab Sample ID: 280-68618-8
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0936
Date Received: 05/01/2015 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-275637	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	4 mL
Analysis Date:	05/06/2015 2122			Injection Volume:	20 uL
Prep Date:	05/01/2015 2315			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.8	U	9.8	98
Acenaphthylene		8.8	U	8.8	98
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.1	U	3.1	15
Benzo[a]pyrene		6.3	U	6.3	15
Benzo[b]fluoranthene		4.1	U	4.1	15
Benzo[g,h,i]perylene		7.0	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	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	90		72 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N1**

Lab Sample ID: 280-68618-9
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 04/29/2015 0940
Date Received: 05/01/2015 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-275637	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	4 mL
Analysis Date:	05/06/2015 2152			Injection Volume:	20 uL
Prep Date:	05/01/2015 2315			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N2**

Lab Sample ID: 280-68618-10
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 04/29/2015 0927
Date Received: 05/01/2015 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-275637	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	4 mL
Analysis Date:	05/06/2015 2223			Injection Volume:	20 uL
Prep Date:	05/01/2015 2315			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.5	U	9.5	95
Acenaphthylene		8.5	U	8.5	95
Anthracene		2.9	U	2.9	19
Benzo[a]anthracene		3.0	U	3.0	14
Benzo[a]pyrene		6.1	U	6.1	14
Benzo[b]fluoranthene		4.0	U	4.0	14
Benzo[g,h,i]perylene		6.8	U	6.8	28
Benzo[k]fluoranthene		3.7	U	3.7	14
Chrysene		4.6	U	4.6	38
Dibenzo(a,h)anthracene		10	U	10	28
Fluoranthene		12	U	12	38
Fluorene		5.0	U	5.0	28
Indeno[1,2,3-cd]pyrene		11	U	11	28
Naphthalene		11	U	11	95
Phenanthrene		11	U	11	38
Pyrene		11	U	11	38

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	87		72 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N3**

Lab Sample ID: 280-68618-11
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 04/29/2015 0933
Date Received: 05/01/2015 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-275637	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	4 mL
Analysis Date:	05/06/2015 2253			Injection Volume:	20 uL
Prep Date:	05/01/2015 2315			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.8	U	9.8	98
Acenaphthylene		8.8	U	8.8	98
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.1	U	3.1	15
Benzo[a]pyrene		6.3	U	6.3	15
Benzo[b]fluoranthene		4.1	U	4.1	15
Benzo[g,h,i]perylene		7.1	U	7.1	29
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		4.7	U	4.7	39
Dibenzo(a,h)anthracene		11	U	11	29
Fluoranthene		13	U	13	39
Fluorene		5.2	U	5.2	29
Indeno[1,2,3-cd]pyrene		12	U	12	29
Naphthalene		12	U	12	98
Phenanthrene		12	U	12	39
Pyrene		12	U	12	39

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N4**

Lab Sample ID: 280-68618-12
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0930
Date Received: 05/01/2015 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-275637	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	4 mL
Analysis Date:	05/06/2015 2324			Injection Volume:	20 uL
Prep Date:	05/01/2015 2315			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N5**

Lab Sample ID: 280-68618-13
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0903
Date Received: 05/01/2015 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-275637	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	4 mL
Analysis Date:	05/06/2015 2355			Injection Volume:	20 uL
Prep Date:	05/01/2015 2315			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: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6M3

Lab Sample ID: 280-68618-1
Client Matrix: Solid
% Moisture: 1.0

Date Sampled: 04/29/2015 0911
Date Received: 05/01/2015 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-276143	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26c050515.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	05/05/2015 1706			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4440	X	1.4	4.4
Arsenic		1.3		0.58	0.88
Barium		68.1	X	0.067	0.44
Boron		0.86	U N	0.86	1.8
Cadmium		0.036	U	0.036	0.18
Calcium		6030	X	12.4	43.9
Chromium		5.3	X	0.051	0.18
Iron		24700	X	3.3	4.4
Magnesium		4360	X	3.2	17.6
Manganese		300	X	0.088	0.88
Molybdenum		0.23	U	0.23	1.8
Nickel		11.1	X	0.11	3.5
Potassium		583		36.0	263
Selenium		0.76	U	0.76	0.88
Silicon		236		5.0	8.8
Silver		0.14	U	0.14	0.18
Sodium		242		51.8	105
Zinc		43.6	X	0.35	0.88

Analysis Method:	6010B	Analysis Batch:	280-276371	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26b050615.asc
Dilution:	5.0			Initial Weight/Volume:	1.15 g
Analysis Date:	05/06/2015 1408			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		1.7	U	1.7	2.6
Cobalt		10.7		0.44	4.4
Copper		17.7		0.95	4.4
Lead		2.8		1.2	2.2
Vanadium		91.3		0.41	8.8
Beryllium		0.20	B	0.14	0.88

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-276397	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0			Initial Weight/Volume:	0.56 g
Analysis Date:	05/06/2015 2010			Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6M4

Lab Sample ID: 280-68618-2
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0908
Date Received: 05/01/2015 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-275978	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26f050415.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	05/05/2015 0207			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4640	X	1.3	4.3
Arsenic		1.5		0.57	0.87
Barium		75.4	X	0.066	0.43
Boron		0.85	U	0.85	1.7
Cadmium		0.036	U	0.036	0.17
Calcium		5660	X	12.3	43.4
Chromium		6.0	X	0.050	0.17
Iron		26600	X	3.3	4.3
Magnesium		4510	X	3.2	17.4
Manganese		341	X	0.087	0.87
Molybdenum		0.23	B	0.23	1.7
Nickel		10.8	X	0.11	3.5
Potassium		552		35.6	261
Selenium		0.75	U	0.75	0.87
Silicon		274		4.9	8.7
Silver		0.14	U	0.14	0.17
Sodium		311		51.3	104
Zinc		46.5	X	0.35	0.87

Analysis Method:	6010B	Analysis Batch:	280-276143	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26c050515.asc
Dilution:	5.0			Initial Weight/Volume:	1.16 g
Analysis Date:	05/05/2015 1717			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		1.7	U	1.7	2.6
Cobalt		11.2		0.43	4.3
Copper		15.9		0.94	4.3
Lead		2.2		1.2	2.2
Vanadium		86.4		0.41	8.7
Beryllium		0.14	U	0.14	0.87

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-276397	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0			Initial Weight/Volume:	0.52 g
Analysis Date:	05/06/2015 2017			Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0064	U	0.0064	0.020

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6M5

Lab Sample ID: 280-68618-3
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/29/2015 0920
Date Received: 05/01/2015 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-275978	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26f050415.asc
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	05/05/2015 0210			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3850	X	1.3	4.2
Arsenic		1.6		0.56	0.85
Barium		63.5	X	0.064	0.42
Boron		0.83	U	0.83	1.7
Cadmium		0.035	U	0.035	0.17
Calcium		6100	X	12.0	42.4
Chromium		6.6	X	0.049	0.17
Iron		25800	X	3.2	4.2
Magnesium		3970	X	3.1	17.0
Manganese		306	X	0.085	0.85
Molybdenum		0.22	U	0.22	1.7
Nickel		9.1	X	0.10	3.4
Potassium		416		34.8	254
Selenium		0.73	U	0.73	0.85
Silicon		174		4.8	8.5
Silver		0.14	U	0.14	0.17
Sodium		301		50.0	102
Zinc		45.3	X	0.34	0.85

Analysis Method:	6010B	Analysis Batch:	280-276143	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26c050515.asc
Dilution:	5.0			Initial Weight/Volume:	1.19 g
Analysis Date:	05/05/2015 1719			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		1.6	U	1.6	2.5
Cobalt		11.1		0.42	4.2
Copper		14.9		0.92	4.2
Lead		1.9	B	1.1	2.1
Vanadium		93.2		0.40	8.5
Beryllium		0.14	U	0.14	0.85

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-276397	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0			Initial Weight/Volume:	0.51 g
Analysis Date:	05/06/2015 2020			Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0066	U	0.0066	0.020

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6M6

Lab Sample ID: 280-68618-4
Client Matrix: Solid
% Moisture: 0.9

Date Sampled: 04/29/2015 0903
Date Received: 05/01/2015 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-275978	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26f050415.asc
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	05/05/2015 0213			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3460	X	1.4	4.4
Arsenic		1.3		0.58	0.89
Barium		62.2	X	0.067	0.44
Boron		0.87	U	0.87	1.8
Cadmium		0.036	U	0.036	0.18
Calcium		5100	X	12.5	44.3
Chromium		3.3	X	0.051	0.18
Iron		25000	X	3.4	4.4
Magnesium		4000	X	3.3	17.7
Manganese		299	X	0.089	0.89
Molybdenum		0.23	U	0.23	1.8
Nickel		8.4	X	0.11	3.5
Potassium		402		36.3	266
Selenium		0.76	U	0.76	0.89
Silicon		136		5.0	8.9
Silver		0.14	U	0.14	0.18
Sodium		303		52.2	106
Zinc		44.2	X	0.35	0.89

Analysis Method:	6010B	Analysis Batch:	280-276143	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26c050515.asc
Dilution:	5.0			Initial Weight/Volume:	1.14 g
Analysis Date:	05/05/2015 1722			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		1.7	U	1.7	2.7
Cobalt		10.3		0.44	4.4
Copper		14.2		0.96	4.4
Lead		2.5		1.2	2.2
Vanadium		81.5		0.42	8.9
Beryllium		0.15	U	0.15	0.89

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-276397	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0			Initial Weight/Volume:	0.50 g
Analysis Date:	05/06/2015 2022			Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0067	U	0.0067	0.021

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6M7

Lab Sample ID: 280-68618-5
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0943
Date Received: 05/01/2015 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-275978	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26f050415.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	05/05/2015 0226			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4260	X	1.3	4.3
Arsenic		1.2		0.57	0.86
Barium		70.2	X	0.066	0.43
Boron		0.84	U	0.84	1.7
Cadmium		0.063	B	0.035	0.17
Calcium		5680	X	12.2	43.1
Chromium		5.9	X	0.050	0.17
Iron		26700	X	3.3	4.3
Magnesium		4620	X	3.2	17.2
Manganese		329	X	0.086	0.86
Molybdenum		0.22	U	0.22	1.7
Nickel		12.0	X	0.11	3.4
Potassium		479		35.3	259
Selenium		0.74	U	0.74	0.86
Silicon		200		4.9	8.6
Silver		0.14	U	0.14	0.17
Sodium		312		50.9	103
Zinc		48.3	X	0.34	0.86

Analysis Method:	6010B	Analysis Batch:	280-276143	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26c050515.asc
Dilution:	5.0			Initial Weight/Volume:	1.17 g
Analysis Date:	05/05/2015 1724			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		1.6	U	1.6	2.6
Cobalt		10.9		0.43	4.3
Copper		15.6		0.94	4.3
Lead		2.9		1.2	2.2
Vanadium		87.6		0.41	8.6
Beryllium		0.14	U	0.14	0.86

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-276397	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0			Initial Weight/Volume:	0.53 g
Analysis Date:	05/06/2015 2024			Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6M8

Lab Sample ID: 280-68618-6
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0917
Date Received: 05/01/2015 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-275978	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26f050415.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	05/05/2015 0229			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4140	X	1.4	4.4
Arsenic		1.5		0.59	0.89
Barium		64.8	X	0.068	0.44
Boron		0.87	U	0.87	1.8
Cadmium		0.036	U	0.036	0.18
Calcium		6300	X	12.5	44.5
Chromium		5.1	X	0.052	0.18
Iron		27400	X	3.4	4.4
Magnesium		4330	X	3.3	17.8
Manganese		334	X	0.089	0.89
Molybdenum		0.23	U	0.23	1.8
Nickel		9.4	X	0.11	3.6
Potassium		436		36.5	267
Selenium		0.76	U	0.76	0.89
Silicon		174		5.0	8.9
Silver		0.14	U	0.14	0.18
Sodium		289		52.5	107
Zinc		46.8	X	0.35	0.89

Analysis Method:	6010B	Analysis Batch:	280-276143	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26c050515.asc
Dilution:	5.0			Initial Weight/Volume:	1.13 g
Analysis Date:	05/05/2015 1727			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		1.7	U	1.7	2.7
Cobalt		11.1		0.44	4.4
Copper		15.0		0.97	4.4
Lead		1.7	B	1.2	2.2
Vanadium		93.4		0.42	8.9
Beryllium		0.15	U	0.15	0.89

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-276397	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0			Initial Weight/Volume:	0.52 g
Analysis Date:	05/06/2015 2031			Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0064	U	0.0064	0.020

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6M9

Lab Sample ID: 280-68618-7
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 04/29/2015 0923
Date Received: 05/01/2015 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-275978	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26f050415.asc
Dilution:	1.0			Initial Weight/Volume:	1.13 g
Analysis Date:	05/05/2015 0232			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3850	X	1.4	4.5
Arsenic		1.3		0.59	0.89
Barium		61.5	X	0.068	0.45
Boron		0.87	U	0.87	1.8
Cadmium		0.041	B	0.037	0.18
Calcium		5630	X	12.6	44.6
Chromium		5.9	X	0.052	0.18
Iron		24200	X	3.4	4.5
Magnesium		4010	X	3.3	17.8
Manganese		290	X	0.089	0.89
Molybdenum		0.23	U	0.23	1.8
Nickel		9.1	X	0.11	3.6
Potassium		447		36.5	267
Selenium		0.77	U	0.77	0.89
Silicon		171		5.0	8.9
Silver		0.14	U	0.14	0.18
Sodium		263		52.6	107
Zinc		41.8	X	0.35	0.89

Analysis Method:	6010B	Analysis Batch:	280-276143	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26c050515.asc
Dilution:	5.0			Initial Weight/Volume:	1.13 g
Analysis Date:	05/05/2015 1730			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		1.7	U	1.7	2.7
Cobalt		10.9		0.45	4.5
Copper		14.9		0.97	4.5
Lead		2.1	B	1.2	2.2
Vanadium		89.7		0.42	8.9
Beryllium		0.15	U	0.15	0.89

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-276397	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0			Initial Weight/Volume:	0.50 g
Analysis Date:	05/06/2015 2033			Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0067	U	0.0067	0.021

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N0**

Lab Sample ID: 280-68618-8
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0936
Date Received: 05/01/2015 0930

6010B Metals (ICP)

Analysis Method: 6010B
Prep Method: 3050B
Dilution: 1.0
Analysis Date: 05/05/2015 0234
Prep Date: 05/04/2015 1445

Analysis Batch: 280-275978
Prep Batch: 280-275722

Instrument ID: MT_026
Lab File ID: 26f050415.asc
Initial Weight/Volume: 1.14 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3750	X	1.4	4.4
Arsenic		1.1		0.58	0.88
Barium		62.7	X	0.067	0.44
Boron		0.86	U	0.86	1.8
Cadmium		0.036	U	0.036	0.18
Calcium		5350	X	12.4	44.1
Chromium		5.2	X	0.051	0.18
Iron		27200	X	3.4	4.4
Magnesium		4310	X	3.3	17.6
Manganese		325	X	0.088	0.88
Molybdenum		0.23	U	0.23	1.8
Nickel		9.2	X	0.11	3.5
Potassium		459		36.1	265
Selenium		0.76	U	0.76	0.88
Silicon		172		5.0	8.8
Silver		0.14	U	0.14	0.18
Sodium		312		52.0	106
Zinc		46.8	X	0.35	0.88

Analysis Method: 6010B
Prep Method: 3050B
Dilution: 5.0
Analysis Date: 05/05/2015 1743
Prep Date: 05/04/2015 1445

Analysis Batch: 280-276143
Prep Batch: 280-275722

Instrument ID: MT_026
Lab File ID: 26c050515.asc
Initial Weight/Volume: 1.14 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		1.7	U	1.7	2.6
Cobalt		11.1		0.44	4.4
Copper		15.2		0.96	4.4
Lead		1.6	B	1.2	2.2
Vanadium		92.6		0.41	8.8
Beryllium		0.15	U	0.15	0.88

7471A Mercury (CVAA)

Analysis Method: 7471A
Prep Method: 7471A
Dilution: 1.0
Analysis Date: 05/06/2015 2036
Prep Date: 05/06/2015 1500

Analysis Batch: 280-276397
Prep Batch: 280-275765

Instrument ID: MT_033
Lab File ID: 150506af.TXT
Initial Weight/Volume: 0.54 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0062	U	0.0062	0.019

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: **J1V6N1**

Lab Sample ID: 280-68618-9
Client Matrix: Solid
% Moisture: 0.7

Date Sampled: 04/29/2015 0940
Date Received: 05/01/2015 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-275978	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26f050415.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	05/05/2015 0237			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4120	X	1.4	4.6
Arsenic		1.5		0.61	0.92
Barium		61.1	X	0.070	0.46
Boron		0.91	U	0.91	1.8
Cadmium		0.042	B	0.038	0.18
Calcium		5760	X	13.0	46.2
Chromium		5.8	X	0.054	0.18
Iron		22300	X	3.5	4.6
Magnesium		4060	X	3.4	18.5
Manganese		294	X	0.092	0.92
Molybdenum		0.24	U	0.24	1.8
Nickel		9.6	X	0.11	3.7
Potassium		451		37.9	277
Selenium		0.79	U	0.79	0.92
Silicon		220		5.2	9.2
Silver		0.15	U	0.15	0.18
Sodium		236		54.5	111
Zinc		39.7	X	0.37	0.92

Analysis Method:	6010B	Analysis Batch:	280-276143	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26c050515.asc
Dilution:	2.0			Initial Weight/Volume:	1.09 g
Analysis Date:	05/05/2015 1745			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		0.70	U	0.70	1.1
Cobalt		9.9		0.18	1.8
Copper		15.4		0.40	1.8
Lead		2.3		0.50	0.92
Vanadium		80.0		0.17	3.7
Beryllium		0.061	U	0.061	0.37

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-276397	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0			Initial Weight/Volume:	0.59 g
Analysis Date:	05/06/2015 2038			Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6N2

Lab Sample ID: 280-68618-10
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 04/29/2015 0927
Date Received: 05/01/2015 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-275978	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26f050415.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	05/05/2015 0240			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4100	X	1.5	4.7
Arsenic		1.3		0.62	0.94
Barium		69.7	X	0.071	0.47
Boron		0.92	U	0.92	1.9
Cadmium		0.039	U	0.039	0.19
Calcium		5720	X	13.3	47.0
Chromium		5.9	X	0.055	0.19
Iron		27000	X	3.6	4.7
Magnesium		4400	X	3.5	18.8
Manganese		324	X	0.094	0.94
Molybdenum		0.24	U	0.24	1.9
Nickel		9.5	X	0.12	3.8
Potassium		425		38.5	282
Selenium		0.81	U	0.81	0.94
Silicon		182		5.3	9.4
Silver		0.15	U	0.15	0.19
Sodium		296		55.5	113
Zinc		48.1	X	0.37	0.94

Analysis Method:	6010B	Analysis Batch:	280-276143	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26c050515.asc
Dilution:	5.0			Initial Weight/Volume:	1.07 g
Analysis Date:	05/05/2015 1748			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		1.8	U	1.8	2.8
Cobalt		10.9		0.47	4.7
Copper		15.1		1.0	4.7
Lead		1.5	B	1.3	2.4
Vanadium		89.4		0.44	9.4
Beryllium		0.16	U	0.16	0.94

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-276397	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0			Initial Weight/Volume:	0.57 g
Analysis Date:	05/06/2015 2040			Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6N3

Lab Sample ID: 280-68618-11
Client Matrix: Solid
% Moisture: 0.6

Date Sampled: 04/29/2015 0933
Date Received: 05/01/2015 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-275978	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26f050415.asc
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	05/05/2015 0243			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4340	X	1.5	5.0
Arsenic		1.6		0.66	1.0
Barium		67.9	X	0.076	0.50
Boron		0.98	U	0.98	2.0
Cadmium		0.054	B	0.041	0.20
Calcium		5460	X	14.0	49.8
Chromium		6.2	X	0.058	0.20
Iron		24600	X	3.8	5.0
Magnesium		4320	X	3.7	19.9
Manganese		311	X	0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		10.7	X	0.12	4.0
Potassium		564		40.9	299
Selenium		0.86	U	0.86	1.0
Silicon		242		5.6	10
Silver		0.16	U	0.16	0.20
Sodium		268		58.8	120
Zinc		44.0	X	0.40	1.0

Analysis Method:	6010B	Analysis Batch:	280-276143	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26c050515.asc
Dilution:	2.0			Initial Weight/Volume:	1.01 g
Analysis Date:	05/05/2015 1751			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		0.76	U	0.76	1.2
Cobalt		9.5		0.20	2.0
Copper		13.7		0.43	2.0
Lead		2.1		0.54	1.0
Vanadium		77.1		0.19	4.0
Beryllium		0.066	U	0.066	0.40

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-276397	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0			Initial Weight/Volume:	0.54 g
Analysis Date:	05/06/2015 2043			Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0062	U	0.0062	0.019

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6N4

Lab Sample ID: 280-68618-12
Client Matrix: Solid
% Moisture: 0.5

Date Sampled: 04/29/2015 0930
Date Received: 05/01/2015 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-275978	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26f050415.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	05/05/2015 0245			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		4040	X	1.4	4.6
Arsenic		2.0		0.61	0.92
Barium		58.8	X	0.070	0.46
Boron		0.90	U	0.90	1.8
Cadmium		0.038	U	0.038	0.18
Calcium		6040	X	13.0	46.1
Chromium		6.0	X	0.053	0.18
Iron		22000	X	3.5	4.6
Magnesium		4320	X	3.4	18.4
Manganese		329	X	0.092	0.92
Molybdenum		0.24	U	0.24	1.8
Nickel		12.1	X	0.11	3.7
Potassium		390		37.8	277
Selenium		0.79	U	0.79	0.92
Silicon		192		5.2	9.2
Silver		0.15	U	0.15	0.18
Sodium		235		54.4	111
Zinc		39.6	X	0.37	0.92

Analysis Method:	6010B	Analysis Batch:	280-276143	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26c050515.asc
Dilution:	2.0			Initial Weight/Volume:	1.09 g
Analysis Date:	05/05/2015 1753			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		0.70	U	0.70	1.1
Cobalt		9.2		0.18	1.8
Copper		13.8		0.40	1.8
Lead		2.1		0.50	0.92
Vanadium		76.1		0.17	3.7
Beryllium		0.061	U	0.061	0.37

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-276397	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0			Initial Weight/Volume:	0.56 g
Analysis Date:	05/06/2015 2045			Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Client Sample ID: J1V6N5

Lab Sample ID: 280-68618-13
Client Matrix: Solid
% Moisture: 0.8

Date Sampled: 04/29/2015 0903
Date Received: 05/01/2015 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-275978	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26f050415.asc
Dilution:	1.0			Initial Weight/Volume:	1.02 g
Analysis Date:	05/05/2015 0248			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		3830	X	1.5	4.9
Arsenic		1.2		0.65	0.99
Barium		64.2	X	0.075	0.49
Boron		0.97	U	0.97	2.0
Cadmium		0.041	U	0.041	0.20
Calcium		6400	X	13.9	49.4
Chromium		4.4	X	0.057	0.20
Iron		26500	X	3.8	4.9
Magnesium		4070	X	3.7	19.8
Manganese		326	X	0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		8.4	X	0.12	4.0
Potassium		427		40.5	296
Selenium		0.85	U	0.85	0.99
Silicon		172		5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		311		58.3	119
Zinc		46.1	X	0.39	0.99

Analysis Method:	6010B	Analysis Batch:	280-276143	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-275722	Lab File ID:	26c050515.asc
Dilution:	5.0			Initial Weight/Volume:	1.02 g
Analysis Date:	05/05/2015 1756			Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		1.9	U	1.9	3.0
Cobalt		10.8		0.49	4.9
Copper		14.6		1.1	4.9
Lead		2.2	B	1.3	2.5
Vanadium		86.6		0.46	9.9
Beryllium		0.16	U	0.16	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-276397	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0			Initial Weight/Volume:	0.59 g
Analysis Date:	05/06/2015 2047			Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				

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

General Chemistry

Client Sample ID: J1V6M3

Lab Sample ID: 280-68618-1
Client Matrix: Solid
% Moisture: 1.0
Date Sampled: 04/29/2015 0911
Date Received: 05/01/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	0.74	1.0	353.2

Analysis Batch: 280-275928 Analysis Date: 05/04/2015 1744 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.99		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-275677 Analysis Date: 05/02/2015 1420 DryWt Corrected: N

General Chemistry

Client Sample ID: J1V6M4

Lab Sample ID: 280-68618-2
Client Matrix: Solid
% Moisture: 0.8
Date Sampled: 04/29/2015 0908
Date Received: 05/01/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	0.74	1.0	353.2

Analysis Batch: 280-275928 Analysis Date: 05/04/2015 1802 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.79		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-275677 Analysis Date: 05/02/2015 1420 DryWt Corrected: N

General Chemistry

Client Sample ID: J1V6M5

Lab Sample ID: 280-68618-3
Client Matrix: Solid
% Moisture: 0.9
Date Sampled: 04/29/2015 0920
Date Received: 05/01/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.34	U	mg/Kg	0.34	0.72	1.0	353.2

Analysis Batch: 280-275928 Analysis Date: 05/04/2015 1804 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.93		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-275677 Analysis Date: 05/02/2015 1420 DryWt Corrected: N

General Chemistry

Client Sample ID: J1V6M6

Lab Sample ID: 280-68618-4
Client Matrix: Solid
% Moisture: 0.9
Date Sampled: 04/29/2015 0903
Date Received: 05/01/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.36	U	mg/Kg	0.36	0.75	1.0	353.2

Analysis Batch: 280-275928 Analysis Date: 05/04/2015 1806 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.88		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-275677 Analysis Date: 05/02/2015 1420 DryWt Corrected: N

General Chemistry

Client Sample ID: J1V6M7

Lab Sample ID: 280-68618-5
Client Matrix: Solid
% Moisture: 0.8
Date Sampled: 04/29/2015 0943
Date Received: 05/01/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	1.1		mg/Kg	0.36	0.75	1.0	353.2

Analysis Batch: 280-275928 Analysis Date: 05/04/2015 1808 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.84		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-275677 Analysis Date: 05/02/2015 1420 DryWt Corrected: N

General Chemistry

Client Sample ID: J1V6M8

Lab Sample ID: 280-68618-6
Client Matrix: Solid
% Moisture: 0.5
Date Sampled: 04/29/2015 0917
Date Received: 05/01/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	0.74	1.0	353.2

Analysis Batch: 280-275928 Analysis Date: 05/04/2015 1810 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.51		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-275677 Analysis Date: 05/02/2015 1420 DryWt Corrected: N

General Chemistry

Client Sample ID: J1V6M9

Lab Sample ID: 280-68618-7
Client Matrix: Solid
% Moisture: 0.7
Date Sampled: 04/29/2015 0923
Date Received: 05/01/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	2.1		mg/Kg	0.34	0.71	1.0	353.2

Analysis Batch: 280-275928 Analysis Date: 05/04/2015 1812 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.69		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-275677 Analysis Date: 05/02/2015 1420 DryWt Corrected: N

General Chemistry

Client Sample ID: J1V6N0

Lab Sample ID: 280-68618-8
Client Matrix: Solid
% Moisture: 0.5
Date Sampled: 04/29/2015 0936
Date Received: 05/01/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	0.74	1.0	353.2

Analysis Batch: 280-275928 Analysis Date: 05/04/2015 1814 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.51		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-275677 Analysis Date: 05/02/2015 1420 DryWt Corrected: N

General Chemistry

Client Sample ID: J1V6N1

Lab Sample ID: 280-68618-9
Client Matrix: Solid
% Moisture: 0.7
Date Sampled: 04/29/2015 0940
Date Received: 05/01/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.36	U	mg/Kg	0.36	0.75	1.0	353.2

Analysis Batch: 280-275928 Analysis Date: 05/04/2015 1816 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.73		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-275677 Analysis Date: 05/02/2015 1420 DryWt Corrected: N

General Chemistry

Client Sample ID: J1V6N2

Lab Sample ID: 280-68618-10
Client Matrix: Solid
% Moisture: 0.6
Date Sampled: 04/29/2015 0927
Date Received: 05/01/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	0.74	1.0	353.2

Analysis Batch: 280-275928 Analysis Date: 05/04/2015 1830 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.59		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-275677 Analysis Date: 05/02/2015 1420 DryWt Corrected: N

General Chemistry

Client Sample ID: J1V6N3

Lab Sample ID: 280-68618-11
Client Matrix: Solid
% Moisture: 0.6
Date Sampled: 04/29/2015 0933
Date Received: 05/01/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.45	B	mg/Kg	0.33	0.70	1.0	353.2

Analysis Batch: 280-275928 Analysis Date: 05/04/2015 1832 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.64		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-275677 Analysis Date: 05/02/2015 1420 DryWt Corrected: N

General Chemistry

Client Sample ID: J1V6N4

Lab Sample ID: 280-68618-12
Client Matrix: Solid
% Moisture: 0.5
Date Sampled: 04/29/2015 0930
Date Received: 05/01/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	0.73	1.0	353.2

Analysis Batch: 280-275928 Analysis Date: 05/04/2015 1838 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.53		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-275677 Analysis Date: 05/02/2015 1420 DryWt Corrected: N

General Chemistry

Client Sample ID: J1V6N5

Lab Sample ID: 280-68618-13
Client Matrix: Solid
% Moisture: 0.8
Date Sampled: 04/29/2015 0903
Date Received: 05/01/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	0.36	U	mg/Kg	0.36	0.74	1.0	353.2

Analysis Batch: 280-275928 Analysis Date: 05/04/2015 1840 DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.79		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-275677 Analysis Date: 05/02/2015 1420 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Surrogate Recovery Report

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TFT1 %Rec
280-68618-1	J1V6M3	93
280-68618-2	J1V6M4	94
280-68618-3	J1V6M5	92
280-68618-4	J1V6M6	92
280-68618-5	J1V6M7	90
280-68618-6	J1V6M8	91
280-68618-7	J1V6M9	90
280-68618-8	J1V6N0	87
280-68618-9	J1V6N1	90
280-68618-10	J1V6N2	88
280-68618-11	J1V6N3	87
280-68618-12	J1V6N4	88
280-68618-13	J1V6N5	87
MB 280-275702/1-A		90
MB 280-276035/1-A		91
LCS 280-275702/2-A		94
LCS 280-276035/2-A		91
LCSD 280-275702/3-A		93
LCSD 280-276035/3-A		92
280-68618-1 MS	J1V6M3 MS	94
280-68618-7 MS	J1V6M9 MS	90
280-68618-1 MSD	J1V6M3 MSD	94
280-68618-7 MSD	J1V6M9 MSD	90

Surrogate	Acceptance Limits
TFT = a,a,a-Trifluorotoluene	77-123

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Surrogate Recovery Report

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Matrix: Solid

Lab Sample ID	Client Sample ID	DCB1 %Rec	TCX1 %Rec
280-68618-1	J1V6M3	96	79
280-68618-2	J1V6M4	94	77
280-68618-3	J1V6M5	100	78
280-68618-4	J1V6M6	98	78
280-68618-5	J1V6M7	96	78
280-68618-6	J1V6M8	95	76
280-68618-7	J1V6M9	91	71
280-68618-8	J1V6N0	110	84
280-68618-9	J1V6N1	101	81
280-68618-10	J1V6N2	101	80
280-68618-11	J1V6N3	102	82
280-68618-12	J1V6N4	98	78
280-68618-13	J1V6N5	89	76
MB 280-275813/1-A		85	83
LCS 280-275813/2-A		107	83
280-68618-1 MS	J1V6M3 MS	108	86
280-68618-1 MSD	J1V6M3 MSD	101	84

Surrogate	Acceptance Limits
DCB = Decachlorobiphenyl	59-130
TCX = Tetrachloro-m-xylene	53-128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Surrogate Recovery Report

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

Client Matrix: Solid

Lab Sample ID	Client Sample ID	OTPH %Rec
280-68618-1	J1V6M3	69
280-68618-2	J1V6M4	68
280-68618-3	J1V6M5	70
280-68618-4	J1V6M6	68
280-68618-5	J1V6M7	65
280-68618-6	J1V6M8	66
280-68618-7	J1V6M9	63
280-68618-8	J1V6N0	70
280-68618-9	J1V6N1	63
280-68618-10	J1V6N2	63
280-68618-11	J1V6N3	75
280-68618-12	J1V6N4	70
280-68618-13	J1V6N5	65
MB 280-275864/1-A		69
LCS 280-275864/2-A		68
LCSD 280-275864/3-A		74
280-68618-3 MS	J1V6M5 MS	69
280-68618-3 MSD	J1V6M5 MSD	66

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	49-115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Surrogate Recovery Report

8310 PAHs (HPLC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TPH1 %Rec
280-68618-1	J1V6M3	87
280-68618-2	J1V6M4	91
280-68618-3	J1V6M5	89
280-68618-4	J1V6M6	91
280-68618-5	J1V6M7	92
280-68618-6	J1V6M8	91
280-68618-7	J1V6M9	94
280-68618-8	J1V6N0	90
280-68618-9	J1V6N1	89
280-68618-10	J1V6N2	87
280-68618-11	J1V6N3	93
280-68618-12	J1V6N4	89
280-68618-13	J1V6N5	94
MB 280-275637/1-A		88
LCS 280-275637/2-A		93
280-68618-4 MS	J1V6M6 MS	92
280-68618-4 MSD	J1V6M6 MSD	93

Surrogate	Acceptance Limits
TPH = Terphenyl-d14 (SUR)	72-115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Method Blank - Batch: 280-275702

Method: NWTPH-Gx
Preparation: 5030B

Lab Sample ID:	MB 280-275702/1-A	Analysis Batch:	280-276056	Instrument ID:	VGC_Q
Client Matrix:	Solid	Prep Batch:	280-275702	Lab File ID:	025F3101.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 g
Analysis Date:	05/06/2015 0118	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/03/2015 1251			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Gasoline	330	U	330	1200

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene	90	77 - 123

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-275702

Method: NWTPH-Gx
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-275702/2-A	Analysis Batch:	280-276056	Instrument ID:	VGC_Q
Client Matrix:	Solid	Prep Batch:	280-275702	Lab File ID:	026F3201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 g
Analysis Date:	05/06/2015 0143	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/03/2015 1251			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY
LCSD Lab Sample ID:	LCSD 280-275702/3-A	Analysis Batch:	280-276056	Instrument ID:	VGC_Q
Client Matrix:	Solid	Prep Batch:	280-275702	Lab File ID:	027F3301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 g
Analysis Date:	05/06/2015 0208	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/03/2015 1251			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline	97	96	85 - 153	1	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	94	93	77 - 123

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-275702

Method: NWTPH-Gx
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-275702/2-A	Units: ug/Kg		LCSD Lab Sample ID:	LCSD 280-275702/3-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/06/2015 0143			Analysis Date:	05/06/2015 0208
Prep Date:	05/03/2015 1251			Prep Date:	05/03/2015 1251
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Gasoline	5500	5500	5350	5280

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-275702

Method: NWTPH-Gx
Preparation: 5030B

MS Lab Sample ID:	280-68618-1	Analysis Batch:	280-276056	Instrument ID:	VGC_Q
Client Matrix:	Solid	Prep Batch:	280-275702	Lab File ID:	029F3501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	9.90 g
Analysis Date:	05/06/2015 0258			Final Weight/Volume:	10 mL
Prep Date:	05/03/2015 1251			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY
MSD Lab Sample ID:	280-68618-1	Analysis Batch:	280-276056	Instrument ID:	VGC_Q
Client Matrix:	Solid	Prep Batch:	280-275702	Lab File ID:	030F3601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.05 g
Analysis Date:	05/06/2015 0322			Final Weight/Volume:	10 mL
Prep Date:	05/03/2015 1251			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Gasoline	101	98	85 - 153	4	30		

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-275702

Method: NWTPH-Gx
Preparation: 5030B

MS Lab Sample ID:	280-68618-1	Units: ug/Kg	
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	05/06/2015 0258		
Prep Date:	05/03/2015 1251		
Leach Date:	N/A		

MSD Lab Sample ID:	280-68618-1
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	05/06/2015 0322
Prep Date:	05/03/2015 1251
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Gasoline	330	U	5610	5530	5640	5410

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Method Blank - Batch: 280-276035

Method: NWTPH-Gx
Preparation: 5030B

Lab Sample ID:	MB 280-276035/1-A	Analysis Batch:	280-276057	Instrument ID:	VGC_Q
Client Matrix:	Solid	Prep Batch:	280-276035	Lab File ID:	037F4301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.18 g
Analysis Date:	05/06/2015 0617	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/05/2015 1104			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Gasoline	320	U	320	1200

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

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-276035

Method: NWTPH-Gx
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-276035/2-A	Analysis Batch:	280-276057	Instrument ID:	VGC_Q
Client Matrix:	Solid	Prep Batch:	280-276035	Lab File ID:	038F4401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.00 g
Analysis Date:	05/06/2015 0642	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/05/2015 1104			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY
LCSD Lab Sample ID:	LCSD 280-276035/3-A	Analysis Batch:	280-276057	Instrument ID:	VGC_Q
Client Matrix:	Solid	Prep Batch:	280-276035	Lab File ID:	039F4501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.14 g
Analysis Date:	05/06/2015 0706	Units:	ug/Kg	Final Weight/Volume:	10 mL
Prep Date:	05/05/2015 1104			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline	95	95	85 - 153	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	91	92	77 - 123

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-276035

Method: NWTPH-Gx
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-276035/2-A	Units: ug/Kg	LCSD Lab Sample ID:	LCSD 280-276035/3-A
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Analysis Date:	05/06/2015 0642		Analysis Date:	05/06/2015 0706
Prep Date:	05/05/2015 1104		Prep Date:	05/05/2015 1104
Leach Date:	N/A		Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Gasoline	5500	5420	5250	5140

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-276035

Method: NWTPH-Gx
Preparation: 5030B

MS Lab Sample ID:	280-68618-7	Analysis Batch:	280-276057	Instrument ID:	VGC_Q
Client Matrix:	Solid	Prep Batch:	280-276035	Lab File ID:	041F4701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.17 g
Analysis Date:	05/06/2015 0756			Final Weight/Volume:	10 mL
Prep Date:	05/05/2015 1104			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-68618-7	Analysis Batch:	280-276057	Instrument ID:	VGC_Q
Client Matrix:	Solid	Prep Batch:	280-276035	Lab File ID:	042F4801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.10 g
Analysis Date:	05/06/2015 0821			Final Weight/Volume:	10 mL
Prep Date:	05/05/2015 1104			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Gasoline	96	95	85 - 153	0	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	90	90	77 - 123

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-276035

Method: NWTPH-Gx
Preparation: 5030B

MS Lab Sample ID:	280-68618-7	Units: ug/Kg	
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	05/06/2015 0756		
Prep Date:	05/05/2015 1104		
Leach Date:	N/A		

MSD Lab Sample ID:	280-68618-7
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	05/06/2015 0821
Prep Date:	05/05/2015 1104
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Gasoline	320	U	5450	5480	5240	5230

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Method Blank - Batch: 280-275813

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-275813/1-A	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Client Matrix:	Solid	Prep Batch:	280-275813	Lab File ID:	05061509.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	33.0 g
Analysis Date:	05/06/2015 1206	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/04/2015 1306			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.5	U	2.5	9.1
Aroclor 1221	7.3	U	7.3	15
Aroclor 1232	1.8	U	1.8	9.1
Aroclor 1242	4.2	U	4.2	9.1
Aroclor 1248	4.2	U	4.2	9.1
Aroclor 1254	2.4	U	2.4	9.1
Aroclor 1260	2.4	U	2.4	9.1

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	85	59 - 130
Tetrachloro-m-xylene	83	53 - 128

Lab Control Sample - Batch: 280-275813

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-275813/2-A	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Client Matrix:	Solid	Prep Batch:	280-275813	Lab File ID:	05061510.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	05/06/2015 1229	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	05/04/2015 1306			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	33.0	31.3	95	54 - 132	
Aroclor 1260	33.0	33.5	101	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	107	59 - 130
Tetrachloro-m-xylene	83	53 - 128

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-275813

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-68618-1	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Client Matrix:	Solid	Prep Batch:	280-275813	Lab File ID:	05061512.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	05/06/2015 1316			Final Weight/Volume:	5 mL
Prep Date:	05/04/2015 1306			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-68618-1	Analysis Batch:	280-276123	Instrument ID:	SGC_W
Client Matrix:	Solid	Prep Batch:	280-275813	Lab File ID:	05061513.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	05/06/2015 1339			Final Weight/Volume:	5 mL
Prep Date:	05/04/2015 1306			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	105	106	54 - 132	3	26		
Aroclor 1260	109	107	62 - 129	0	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	108	101	59 - 130
Tetrachloro-m-xylene	86	84	53 - 128

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-275813

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-68618-1	Units:	ug/Kg	MSD Lab Sample ID:	280-68618-1
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/06/2015 1316			Analysis Date:	05/06/2015 1339
Prep Date:	05/04/2015 1306			Prep Date:	05/04/2015 1306
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Aroclor 1016	2.7	U	33.1	33.7	34.7	35.9
Aroclor 1260	2.5	U	33.1	33.7	36.1	36.1

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Method Blank - Batch: 280-275864

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-275864/1-A	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Client Matrix:	Solid	Prep Batch:	280-275864	Lab File ID:	05070005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.1 g
Analysis Date:	05/07/2015 1127	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	960	U	960	3900
C10-C28	650	U	650	3900

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	69	49 - 115

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-275864

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-275864/2-A	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Client Matrix:	Solid	Prep Batch:	280-275864	Lab File ID:	05070006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	05/07/2015 1151	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-275864/3-A	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Client Matrix:	Solid	Prep Batch:	280-275864	Lab File ID:	05070007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.1 g
Analysis Date:	05/07/2015 1215	Units:	ug/Kg	Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C36	81	86	57 - 115	2	23		
C10-C28	81	86	53 - 115	2	23		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	68	74	49 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-275864

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-275864/2-A	Units: ug/Kg	LCSD Lab Sample ID:	LCSD 280-275864/3-A
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Analysis Date:	05/07/2015 1151		Analysis Date:	05/07/2015 1215
Prep Date:	05/04/2015 1550		Prep Date:	05/04/2015 1550
Leach Date:	N/A		Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
C10-C36	64500	62300	52500	53500
C10-C28	64500	62300	52300	53300

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-275864

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-68618-3	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Client Matrix:	Solid	Prep Batch:	280-275864	Lab File ID:	05070011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	05/07/2015 1352			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-68618-3	Analysis Batch:	280-276387	Instrument ID:	SGC_U2a
Client Matrix:	Solid	Prep Batch:	280-275864	Lab File ID:	05070012.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	05/07/2015 1416			Final Weight/Volume:	1 mL
Prep Date:	05/04/2015 1550			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	84	81	57 - 115	2	23		
C10-C28	83	81	56 - 115	2	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	69	66	49 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-275864

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-68618-3	Units: ug/Kg	
Client Matrix:	Solid		
Dilution:	1.0		
Analysis Date:	05/07/2015 1352		
Prep Date:	05/04/2015 1550		
Leach Date:	N/A		

MSD Lab Sample ID:	280-68618-3
Client Matrix:	Solid
Dilution:	1.0
Analysis Date:	05/07/2015 1416
Prep Date:	05/04/2015 1550
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
C10-C36	960	U	66000	66800	55200	54200
C10-C28	650	U	66000	66800	55000	54000

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Method Blank - Batch: 280-275637

Method: 8310
Preparation: 3550C

Lab Sample ID:	MB 280-275637/1-A	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-275637	Lab File ID:	G0505052.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	05/06/2015 1515	Units:	ug/Kg	Final Weight/Volume:	4 mL
Prep Date:	05/01/2015 2315			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Lab Control Sample - Batch: 280-275637

Method: 8310
Preparation: 3550C

Lab Sample ID:	LCS 280-275637/2-A	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-275637	Lab File ID:	G0505053.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.3 g
Analysis Date:	05/06/2015 1546	Units:	ug/Kg	Final Weight/Volume:	4 mL
Prep Date:	05/01/2015 2315			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1860	1580	85	75 - 116	
Acenaphthylene	1860	1600	86	66 - 115	
Anthracene	1860	1570	85	71 - 115	
Benzo[a]anthracene	1860	1730	93	77 - 120	
Benzo[a]pyrene	1860	1680	91	69 - 115	
Benzo[b]fluoranthene	1860	1700	91	56 - 115	
Benzo[g,h,i]perylene	1860	1890	102	72 - 120	
Benzo[k]fluoranthene	1860	1750	94	76 - 115	
Chrysene	1860	1720	93	79 - 115	
Dibenzo(a,h)anthracene	1860	1660	90	72 - 115	
Fluoranthene	1860	1710	92	77 - 115	
Fluorene	1860	1760	95	77 - 115	
Indeno[1,2,3-cd]pyrene	1860	1730	93	78 - 115	
Naphthalene	1860	1590	86	68 - 120	
Phenanthrene	1860	1630	88	75 - 115	
Pyrene	1860	1810	98	72 - 115	

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

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-275637

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-68618-4	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-275637	Lab File ID:	G0505058.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	05/06/2015 1819			Final Weight/Volume:	4 mL
Prep Date:	05/01/2015 2315			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-68618-4	Analysis Batch:	280-275992	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-275637	Lab File ID:	G0505059.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	05/06/2015 1849			Final Weight/Volume:	4 mL
Prep Date:	05/01/2015 2315			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	87	86	75 - 116	4	20		
Acenaphthylene	87	87	66 - 115	2	20		
Anthracene	85	86	71 - 115	1	20		
Benzo[a]anthracene	93	93	77 - 120	2	20		
Benzo[a]pyrene	90	91	69 - 115	2	20		
Benzo[b]fluoranthene	91	91	56 - 115	2	20		
Benzo[g,h,i]perylene	102	102	72 - 120	2	20		
Benzo[k]fluoranthene	94	94	76 - 115	2	20		
Chrysene	92	92	79 - 115	2	20		
Dibenzo(a,h)anthracene	89	89	72 - 115	2	20		
Fluoranthene	93	93	77 - 115	2	20		
Fluorene	95	96	77 - 115	2	20		
Indeno[1,2,3-cd]pyrene	93	93	78 - 115	3	20		
Naphthalene	87	88	68 - 120	1	20		
Phenanthrene	88	89	75 - 115	1	20		
Pyrene	98	99	72 - 115	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	92	93	72 - 115

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-275637

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-68618-4	Units:	ug/Kg	MSD Lab Sample ID:	280-68618-4
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	05/06/2015 1819			Analysis Date:	05/06/2015 1849
Prep Date:	05/01/2015 2315			Prep Date:	05/01/2015 2315
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Acenaphthene	9.4	U	2010	1970	1760	1680
Acenaphthylene	8.5	U	2010	1970	1750	1710
Anthracene	2.9	U	2010	1970	1710	1690
Benzo[a]anthracene	3.0	U	2010	1970	1870	1830
Benzo[a]pyrene	6.0	U	2010	1970	1810	1780
Benzo[b]fluoranthene	4.0	U	2010	1970	1830	1790
Benzo[g,h,i]perylene	6.8	U	2010	1970	2040	2010
Benzo[k]fluoranthene	3.7	U	2010	1970	1880	1850
Chrysene	4.6	U	2010	1970	1850	1810
Dibenzo(a,h)anthracene	10	U	2010	1970	1800	1760
Fluoranthene	12	U	2010	1970	1860	1830
Fluorene	5.0	U	2010	1970	1920	1880
Indeno[1,2,3-cd]pyrene	11	U	2010	1970	1870	1820
Naphthalene	11	U	2010	1970	1740	1720
Phenanthrene	11	U	2010	1970	1770	1750
Pyrene	11	U	2010	1970	1970	1940

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Method Blank - Batch: 280-275722

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-275722/1-A	Analysis Batch:	280-275978	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-275722	Lab File ID:	26f050415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/05/2015 0151	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				
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	0.107	B	0.076	0.50
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	19.91	B	14.1	50.0
Chromium	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	5.14		3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	6.01	B	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
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
Beryllium	0.033	U	0.033	0.20

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Lab Control Sample - Batch: 280-275722

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-275722/2-A	Analysis Batch:	280-275978	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-275722	Lab File ID:	26f050415.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/05/2015 0154	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	203.0	101	82 - 116	
Antimony	50.0	49.85	100	82 - 110	
Arsenic	100	96.91	97	85 - 110	
Barium	200	211.9	106	87 - 112	
Boron	100	97.49	97	80 - 120	
Cadmium	10.0	9.96	100	87 - 110	
Calcium	5000	4998	100	82 - 114	
Chromium	20.0	20.04	100	84 - 114	
Cobalt	50.0	49.35	99	87 - 110	
Copper	25.0	26.32	105	88 - 110	
Iron	100	101.9	102	87 - 120	
Lead	50.0	49.53	99	86 - 110	
Magnesium	5000	4890	98	90 - 110	
Manganese	50.0	50.54	101	88 - 110	
Molybdenum	100	104.5	104	86 - 110	
Nickel	50.0	49.22	98	87 - 110	
Potassium	5000	5097	102	89 - 110	
Selenium	200	195.0	98	83 - 110	
Silicon	1000	129.4	13	10 - 70	
Silver	5.00	5.25	105	87 - 114	
Sodium	5000	5362	107	90 - 112	
Vanadium	50.0	50.63	101	88 - 110	
Zinc	50.0	48.55	97	76 - 114	
Beryllium	5.00	4.81	96	84 - 114	

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Matrix Spike - Batch: 280-275722

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-68618-1	Analysis Batch:	280-276143	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-275722	Lab File ID:	26c050515.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/05/2015 1714	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	4440		202	6428	983	50 - 200	4
Arsenic	1.3		101	79.21	77	76 - 111	
Barium	68.1		202	240.7	85	52 - 159	
Boron	0.86	U	101	77.85	77	80 - 120	N
Cadmium	0.036	U	10.1	7.79	77	40 - 130	
Calcium	6030		5050	12870	135	43 - 165	
Chromium	5.3		20.2	24.38	94	70 - 200	
Iron	24700		101	27080	2313	70 - 200	4
Magnesium	4360		5050	9059	93	64 - 145	
Manganese	300		50.5	426.1	249	40 - 200	4
Molybdenum	0.23	U	101	86.16	85	75 - 103	
Nickel	11.1		50.5	50.53	78	61 - 126	
Potassium	583		5050	4967	87	56 - 172	
Selenium	0.76	U	202	155.4	77	76 - 104	
Silicon	236		1010	518.4	28	20 - 200	
Silver	0.14	U	5.05	4.31	85	75 - 141	
Sodium	242		5050	5196	98	78 - 111	
Zinc	43.6		50.5	84.79	82	70 - 200	

Matrix Spike - Batch: 280-275722

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-68618-1	Analysis Batch:	280-276371	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-275722	Lab File ID:	26b050615.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.00 g
Analysis Date:	05/06/2015 1416	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Antimony	1.7	U	50.5	32.95	65	20 - 200	
Cobalt	10.7		50.5	59.30	96	72 - 106	
Copper	17.7		25.3	43.69	103	37 - 187	
Lead	2.8		50.5	51.31	96	70 - 200	
Vanadium	91.3		50.5	150.1	116	50 - 169	
Beryllium	0.20	B	5.05	5.15	98	72 - 105	

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Duplicate - Batch: 280-275722

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-68618-1	Analysis Batch:	280-276143	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-275722	Lab File ID:	26c050515.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.17 g
Analysis Date:	05/05/2015 1711	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	4440		3985	11	40	
Arsenic	1.3		1.36	8	30	
Barium	68.1		61.28	11	30	
Boron	0.86	U	0.85	NC	30	U
Cadmium	0.036	U	0.035	NC	30	U
Calcium	6030		6230	3	30	
Chromium	5.3		4.82	10	40	
Iron	24700		22940	8	40	
Magnesium	4360		3865	12	30	
Manganese	300		286.3	5	40	
Molybdenum	0.23	U	0.22	NC	30	U
Nickel	11.1		9.09	20	30	
Potassium	583		525.8	10	40	
Selenium	0.76	U	0.74	NC	30	U
Silicon	236		207.6	13	40	
Silver	0.14	U	0.14	NC	30	U
Sodium	242		202.5	18	30	
Zinc	43.6		40.21	8	40	

Duplicate - Batch: 280-275722

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-68618-1	Analysis Batch:	280-276371	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-275722	Lab File ID:	26b050615.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.17 g
Analysis Date:	05/06/2015 1413	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	05/04/2015 1445				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Antimony	1.7	U	1.6	NC	40	U
Cobalt	10.7		9.79	9	30	
Copper	17.7		15.47	13	30	
Lead	2.8		2.37	18	40	
Vanadium	91.3		79.08	14	30	
Beryllium	0.20	B	0.194	2	30	B

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Method Blank - Batch: 280-275765

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-275765/1-A	Analysis Batch:	280-276397	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/06/2015 1958	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-275765

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-275765/2-A	Analysis Batch:	280-276397	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/06/2015 2000	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.385	92	87 - 111	

Matrix Spike - Batch: 280-275765

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-68618-1	Analysis Batch:	280-276397	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.55 g
Analysis Date:	05/06/2015 2015	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0060	U	0.459	0.446	97	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Duplicate - Batch: 280-275765

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-68618-1	Analysis Batch:	280-276397	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-275765	Lab File ID:	150506af.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	05/06/2015 2013	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	05/06/2015 1500				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0060	U	0.0056	NC	20	U

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Method Blank - Batch: 280-275928

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-275893/1-A	Analysis Batch:	280-275928	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\050415B.R
Dilution:	1.0	Leach Batch:	280-275893	Initial Weight/Volume:	
Analysis Date:	05/04/2015 1740	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	05/04/2015 1456				

Analyte	Result	Qual	MDL	RL
Nitrate Nitrite as N-Soluble	0.35	U	0.35	0.74

Method Reporting Limit Check - Batch: 280-275928

Method: 353.2
Preparation: N/A

Lab Sample ID:	MRL 280-275928/20	Analysis Batch:	280-275928	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\050415B.R
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	05/04/2015 1221	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	0.100	0.0662	66	50 - 150	B

Lab Control Sample - Batch: 280-275928

Method: 353.2
Preparation: N/A

Lab Sample ID:	LCS 280-275893/2-A	Analysis Batch:	280-275928	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\050415B.R
Dilution:	1.0	Leach Batch:	280-275893	Initial Weight/Volume:	
Analysis Date:	05/04/2015 1742	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	05/04/2015 1456				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	48.5	47.47	98	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Matrix Spike - Batch: 280-275928

Method: 353.2
Preparation: N/A

Lab Sample ID:	280-68618-1	Analysis Batch:	280-275928	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\050415B.R
Dilution:	1.0	Leach Batch:	280-275893	Initial Weight/Volume:	
Analysis Date:	05/04/2015 1800	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	05/04/2015 1456				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	0.35	U	38.0	37.32	98	90 - 110	

Matrix Spike - Batch: 280-275928

Method: 353.2
Preparation: N/A

Lab Sample ID:	280-68618-11	Analysis Batch:	280-275928	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\050415B.R
Dilution:	1.0	Leach Batch:	280-275893	Initial Weight/Volume:	
Analysis Date:	05/04/2015 1836	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	05/04/2015 1456				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	0.45	B	39.7	39.93	99	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Duplicate - Batch: 280-275928

Method: 353.2
Preparation: N/A

Lab Sample ID:	280-68618-1	Analysis Batch:	280-275928	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\050415B.R
Dilution:	1.0	Leach Batch:	280-275893	Initial Weight/Volume:	
Analysis Date:	05/04/2015 1758	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	05/04/2015 1456				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Nitrate Nitrite as N-Soluble	0.35	U	0.34	NC	10	U

Duplicate - Batch: 280-275928

Method: 353.2
Preparation: N/A

Lab Sample ID:	280-68618-11	Analysis Batch:	280-275928	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\050415B.R
Dilution:	1.0	Leach Batch:	280-275893	Initial Weight/Volume:	
Analysis Date:	05/04/2015 1834	Units:	mg/Kg	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	05/04/2015 1456				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Nitrate Nitrite as N-Soluble	0.45	B	0.464	2	10	B

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

Duplicate - Batch: 280-275677

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-68618-1	Analysis Batch:	280-275677	Instrument ID:	WC_SHI2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/02/2015 1420	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	0.99	0.91	9	20	

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Prep Batch: 280-275702					
LCS 280-275702/2-A	Lab Control Sample	T	Solid	5030B	
LCSD 280-275702/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 280-275702/1-A	Method Blank	T	Solid	5030B	
280-68618-1	J1V6M3	T	Solid	5030B	
280-68618-1MS	Matrix Spike	T	Solid	5030B	
280-68618-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
280-68618-2	J1V6M4	T	Solid	5030B	
280-68618-3	J1V6M5	T	Solid	5030B	
280-68618-4	J1V6M6	T	Solid	5030B	
280-68618-5	J1V6M7	T	Solid	5030B	
280-68618-6	J1V6M8	T	Solid	5030B	
Prep Batch: 280-276035					
LCS 280-276035/2-A	Lab Control Sample	T	Solid	5030B	
LCSD 280-276035/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 280-276035/1-A	Method Blank	T	Solid	5030B	
280-68618-7	J1V6M9	T	Solid	5030B	
280-68618-7MS	Matrix Spike	T	Solid	5030B	
280-68618-7MSD	Matrix Spike Duplicate	T	Solid	5030B	
280-68618-8	J1V6N0	T	Solid	5030B	
280-68618-9	J1V6N1	T	Solid	5030B	
280-68618-10	J1V6N2	T	Solid	5030B	
280-68618-11	J1V6N3	T	Solid	5030B	
280-68618-12	J1V6N4	T	Solid	5030B	
280-68618-13	J1V6N5	T	Solid	5030B	
Analysis Batch:280-276056					
LCS 280-275702/2-A	Lab Control Sample	T	Solid	NWTPH-Gx	280-275702
LCSD 280-275702/3-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Gx	280-275702
MB 280-275702/1-A	Method Blank	T	Solid	NWTPH-Gx	280-275702
280-68618-1	J1V6M3	T	Solid	NWTPH-Gx	280-275702
280-68618-1MS	Matrix Spike	T	Solid	NWTPH-Gx	280-275702
280-68618-1MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Gx	280-275702
280-68618-2	J1V6M4	T	Solid	NWTPH-Gx	280-275702
280-68618-3	J1V6M5	T	Solid	NWTPH-Gx	280-275702
280-68618-4	J1V6M6	T	Solid	NWTPH-Gx	280-275702
280-68618-5	J1V6M7	T	Solid	NWTPH-Gx	280-275702
280-68618-6	J1V6M8	T	Solid	NWTPH-Gx	280-275702

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:280-276057					
LCS 280-276035/2-A	Lab Control Sample	T	Solid	NWTPH-Gx	280-276035
LCSD 280-276035/3-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Gx	280-276035
MB 280-276035/1-A	Method Blank	T	Solid	NWTPH-Gx	280-276035
280-68618-7	J1V6M9	T	Solid	NWTPH-Gx	280-276035
280-68618-7MS	Matrix Spike	T	Solid	NWTPH-Gx	280-276035
280-68618-7MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Gx	280-276035
280-68618-8	J1V6N0	T	Solid	NWTPH-Gx	280-276035
280-68618-9	J1V6N1	T	Solid	NWTPH-Gx	280-276035
280-68618-10	J1V6N2	T	Solid	NWTPH-Gx	280-276035
280-68618-11	J1V6N3	T	Solid	NWTPH-Gx	280-276035
280-68618-12	J1V6N4	T	Solid	NWTPH-Gx	280-276035
280-68618-13	J1V6N5	T	Solid	NWTPH-Gx	280-276035

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-275813					
LCS 280-275813/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-275813/1-A	Method Blank	T	Solid	3550C	
280-68618-1	J1V6M3	T	Solid	3550C	
280-68618-1MS	Matrix Spike	T	Solid	3550C	
280-68618-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-68618-2	J1V6M4	T	Solid	3550C	
280-68618-3	J1V6M5	T	Solid	3550C	
280-68618-4	J1V6M6	T	Solid	3550C	
280-68618-5	J1V6M7	T	Solid	3550C	
280-68618-6	J1V6M8	T	Solid	3550C	
280-68618-7	J1V6M9	T	Solid	3550C	
280-68618-8	J1V6N0	T	Solid	3550C	
280-68618-9	J1V6N1	T	Solid	3550C	
280-68618-10	J1V6N2	T	Solid	3550C	
280-68618-11	J1V6N3	T	Solid	3550C	
280-68618-12	J1V6N4	T	Solid	3550C	
280-68618-13	J1V6N5	T	Solid	3550C	
Prep Batch: 280-275864					
LCS 280-275864/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-275864/3-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-275864/1-A	Method Blank	T	Solid	3550C	
280-68618-1	J1V6M3	T	Solid	3550C	
280-68618-2	J1V6M4	T	Solid	3550C	
280-68618-3	J1V6M5	T	Solid	3550C	
280-68618-3MS	Matrix Spike	T	Solid	3550C	
280-68618-3MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-68618-4	J1V6M6	T	Solid	3550C	
280-68618-5	J1V6M7	T	Solid	3550C	
280-68618-6	J1V6M8	T	Solid	3550C	
280-68618-7	J1V6M9	T	Solid	3550C	
280-68618-8	J1V6N0	T	Solid	3550C	
280-68618-9	J1V6N1	T	Solid	3550C	
280-68618-10	J1V6N2	T	Solid	3550C	
280-68618-11	J1V6N3	T	Solid	3550C	
280-68618-12	J1V6N4	T	Solid	3550C	
280-68618-13	J1V6N5	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-276123					
LCS 280-275813/2-A	Lab Control Sample	T	Solid	8082	280-275813
MB 280-275813/1-A	Method Blank	T	Solid	8082	280-275813
280-68618-1	J1V6M3	T	Solid	8082	280-275813
280-68618-1MS	Matrix Spike	T	Solid	8082	280-275813
280-68618-1MSD	Matrix Spike Duplicate	T	Solid	8082	280-275813
280-68618-2	J1V6M4	T	Solid	8082	280-275813
280-68618-3	J1V6M5	T	Solid	8082	280-275813
280-68618-4	J1V6M6	T	Solid	8082	280-275813
280-68618-5	J1V6M7	T	Solid	8082	280-275813
280-68618-6	J1V6M8	T	Solid	8082	280-275813
280-68618-7	J1V6M9	T	Solid	8082	280-275813
280-68618-8	J1V6N0	T	Solid	8082	280-275813
280-68618-9	J1V6N1	T	Solid	8082	280-275813
280-68618-10	J1V6N2	T	Solid	8082	280-275813
280-68618-11	J1V6N3	T	Solid	8082	280-275813
280-68618-12	J1V6N4	T	Solid	8082	280-275813
280-68618-13	J1V6N5	T	Solid	8082	280-275813
Analysis Batch:280-276387					
LCS 280-275864/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-275864
LCSD 280-275864/3-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Dx	280-275864
MB 280-275864/1-A	Method Blank	T	Solid	NWTPH-Dx	280-275864
280-68618-1	J1V6M3	T	Solid	NWTPH-Dx	280-275864
280-68618-2	J1V6M4	T	Solid	NWTPH-Dx	280-275864
280-68618-3	J1V6M5	T	Solid	NWTPH-Dx	280-275864
280-68618-3MS	Matrix Spike	T	Solid	NWTPH-Dx	280-275864
280-68618-3MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-275864
280-68618-4	J1V6M6	T	Solid	NWTPH-Dx	280-275864
280-68618-5	J1V6M7	T	Solid	NWTPH-Dx	280-275864
280-68618-6	J1V6M8	T	Solid	NWTPH-Dx	280-275864
280-68618-7	J1V6M9	T	Solid	NWTPH-Dx	280-275864
280-68618-8	J1V6N0	T	Solid	NWTPH-Dx	280-275864
280-68618-9	J1V6N1	T	Solid	NWTPH-Dx	280-275864
280-68618-10	J1V6N2	T	Solid	NWTPH-Dx	280-275864
280-68618-11	J1V6N3	T	Solid	NWTPH-Dx	280-275864
280-68618-12	J1V6N4	T	Solid	NWTPH-Dx	280-275864
280-68618-13	J1V6N5	T	Solid	NWTPH-Dx	280-275864

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-275722					
LCS 280-275722/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-275722/1-A	Method Blank	T	Solid	3050B	
280-68618-1	J1V6M3	T	Solid	3050B	
280-68618-1DU	Duplicate	T	Solid	3050B	
280-68618-1MS	Matrix Spike	T	Solid	3050B	
280-68618-2	J1V6M4	T	Solid	3050B	
280-68618-3	J1V6M5	T	Solid	3050B	
280-68618-4	J1V6M6	T	Solid	3050B	
280-68618-5	J1V6M7	T	Solid	3050B	
280-68618-6	J1V6M8	T	Solid	3050B	
280-68618-7	J1V6M9	T	Solid	3050B	
280-68618-8	J1V6N0	T	Solid	3050B	
280-68618-9	J1V6N1	T	Solid	3050B	
280-68618-10	J1V6N2	T	Solid	3050B	
280-68618-11	J1V6N3	T	Solid	3050B	
280-68618-12	J1V6N4	T	Solid	3050B	
280-68618-13	J1V6N5	T	Solid	3050B	
Prep Batch: 280-275765					
LCS 280-275765/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-275765/1-A	Method Blank	T	Solid	7471A	
280-68618-1	J1V6M3	T	Solid	7471A	
280-68618-1DU	Duplicate	T	Solid	7471A	
280-68618-1MS	Matrix Spike	T	Solid	7471A	
280-68618-2	J1V6M4	T	Solid	7471A	
280-68618-3	J1V6M5	T	Solid	7471A	
280-68618-4	J1V6M6	T	Solid	7471A	
280-68618-5	J1V6M7	T	Solid	7471A	
280-68618-6	J1V6M8	T	Solid	7471A	
280-68618-7	J1V6M9	T	Solid	7471A	
280-68618-8	J1V6N0	T	Solid	7471A	
280-68618-9	J1V6N1	T	Solid	7471A	
280-68618-10	J1V6N2	T	Solid	7471A	
280-68618-11	J1V6N3	T	Solid	7471A	
280-68618-12	J1V6N4	T	Solid	7471A	
280-68618-13	J1V6N5	T	Solid	7471A	

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-275978					
LCS 280-275722/2-A	Lab Control Sample	T	Solid	6010B	280-275722
MB 280-275722/1-A	Method Blank	T	Solid	6010B	280-275722
280-68618-2	J1V6M4	T	Solid	6010B	280-275722
280-68618-3	J1V6M5	T	Solid	6010B	280-275722
280-68618-4	J1V6M6	T	Solid	6010B	280-275722
280-68618-5	J1V6M7	T	Solid	6010B	280-275722
280-68618-6	J1V6M8	T	Solid	6010B	280-275722
280-68618-7	J1V6M9	T	Solid	6010B	280-275722
280-68618-8	J1V6N0	T	Solid	6010B	280-275722
280-68618-9	J1V6N1	T	Solid	6010B	280-275722
280-68618-10	J1V6N2	T	Solid	6010B	280-275722
280-68618-11	J1V6N3	T	Solid	6010B	280-275722
280-68618-12	J1V6N4	T	Solid	6010B	280-275722
280-68618-13	J1V6N5	T	Solid	6010B	280-275722
Analysis Batch:280-276143					
280-68618-1	J1V6M3	T	Solid	6010B	280-275722
280-68618-1DU	Duplicate	T	Solid	6010B	280-275722
280-68618-1MS	Matrix Spike	T	Solid	6010B	280-275722
280-68618-2	J1V6M4	T	Solid	6010B	280-275722
280-68618-3	J1V6M5	T	Solid	6010B	280-275722
280-68618-4	J1V6M6	T	Solid	6010B	280-275722
280-68618-5	J1V6M7	T	Solid	6010B	280-275722
280-68618-6	J1V6M8	T	Solid	6010B	280-275722
280-68618-7	J1V6M9	T	Solid	6010B	280-275722
280-68618-8	J1V6N0	T	Solid	6010B	280-275722
280-68618-9	J1V6N1	T	Solid	6010B	280-275722
280-68618-10	J1V6N2	T	Solid	6010B	280-275722
280-68618-11	J1V6N3	T	Solid	6010B	280-275722
280-68618-12	J1V6N4	T	Solid	6010B	280-275722
280-68618-13	J1V6N5	T	Solid	6010B	280-275722
Analysis Batch:280-276371					
280-68618-1	J1V6M3	T	Solid	6010B	280-275722
280-68618-1DU	Duplicate	T	Solid	6010B	280-275722
280-68618-1MS	Matrix Spike	T	Solid	6010B	280-275722

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-276397					
LCS 280-275765/2-A	Lab Control Sample	T	Solid	7471A	280-275765
MB 280-275765/1-A	Method Blank	T	Solid	7471A	280-275765
280-68618-1	J1V6M3	T	Solid	7471A	280-275765
280-68618-1DU	Duplicate	T	Solid	7471A	280-275765
280-68618-1MS	Matrix Spike	T	Solid	7471A	280-275765
280-68618-2	J1V6M4	T	Solid	7471A	280-275765
280-68618-3	J1V6M5	T	Solid	7471A	280-275765
280-68618-4	J1V6M6	T	Solid	7471A	280-275765
280-68618-5	J1V6M7	T	Solid	7471A	280-275765
280-68618-6	J1V6M8	T	Solid	7471A	280-275765
280-68618-7	J1V6M9	T	Solid	7471A	280-275765
280-68618-8	J1V6N0	T	Solid	7471A	280-275765
280-68618-9	J1V6N1	T	Solid	7471A	280-275765
280-68618-10	J1V6N2	T	Solid	7471A	280-275765
280-68618-11	J1V6N3	T	Solid	7471A	280-275765
280-68618-12	J1V6N4	T	Solid	7471A	280-275765
280-68618-13	J1V6N5	T	Solid	7471A	280-275765

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-275677					
280-68618-1	J1V6M3	T	Solid	D-2216	
280-68618-1DU	Duplicate	T	Solid	D-2216	
280-68618-2	J1V6M4	T	Solid	D-2216	
280-68618-3	J1V6M5	T	Solid	D-2216	
280-68618-4	J1V6M6	T	Solid	D-2216	
280-68618-5	J1V6M7	T	Solid	D-2216	
280-68618-6	J1V6M8	T	Solid	D-2216	
280-68618-7	J1V6M9	T	Solid	D-2216	
280-68618-8	J1V6N0	T	Solid	D-2216	
280-68618-9	J1V6N1	T	Solid	D-2216	
280-68618-10	J1V6N2	T	Solid	D-2216	
280-68618-11	J1V6N3	T	Solid	D-2216	
280-68618-12	J1V6N4	T	Solid	D-2216	
280-68618-13	J1V6N5	T	Solid	D-2216	
Prep Batch: 280-275893					
LCS 280-275893/2-A	Lab Control Sample	S	Solid	DI Leach	
MB 280-275893/1-A	Method Blank	S	Solid	DI Leach	
280-68618-1	J1V6M3	S	Solid	DI Leach	
280-68618-1DU	Duplicate	S	Solid	DI Leach	
280-68618-1MS	Matrix Spike	S	Solid	DI Leach	
280-68618-2	J1V6M4	S	Solid	DI Leach	
280-68618-3	J1V6M5	S	Solid	DI Leach	
280-68618-4	J1V6M6	S	Solid	DI Leach	
280-68618-5	J1V6M7	S	Solid	DI Leach	
280-68618-6	J1V6M8	S	Solid	DI Leach	
280-68618-7	J1V6M9	S	Solid	DI Leach	
280-68618-8	J1V6N0	S	Solid	DI Leach	
280-68618-9	J1V6N1	S	Solid	DI Leach	
280-68618-10	J1V6N2	S	Solid	DI Leach	
280-68618-11	J1V6N3	S	Solid	DI Leach	
280-68618-11DU	Duplicate	S	Solid	DI Leach	
280-68618-11MS	Matrix Spike	S	Solid	DI Leach	
280-68618-12	J1V6N4	S	Solid	DI Leach	
280-68618-13	J1V6N5	S	Solid	DI Leach	

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-275928					
LCS 280-275893/2-A	Lab Control Sample	S	Solid	353.2	
MB 280-275893/1-A	Method Blank	S	Solid	353.2	
280-68618-1	J1V6M3	S	Solid	353.2	
280-68618-1DU	Duplicate	S	Solid	353.2	
280-68618-1MS	Matrix Spike	S	Solid	353.2	
280-68618-2	J1V6M4	S	Solid	353.2	
280-68618-3	J1V6M5	S	Solid	353.2	
280-68618-4	J1V6M6	S	Solid	353.2	
280-68618-5	J1V6M7	S	Solid	353.2	
280-68618-6	J1V6M8	S	Solid	353.2	
280-68618-7	J1V6M9	S	Solid	353.2	
280-68618-8	J1V6N0	S	Solid	353.2	
280-68618-9	J1V6N1	S	Solid	353.2	
280-68618-10	J1V6N2	S	Solid	353.2	
280-68618-11	J1V6N3	S	Solid	353.2	
280-68618-11DU	Duplicate	S	Solid	353.2	
280-68618-11MS	Matrix Spike	S	Solid	353.2	
280-68618-12	J1V6N4	S	Solid	353.2	
280-68618-13	J1V6N5	S	Solid	353.2	

Report Basis
S = Soluble
T = Total

Client: Washington Closure Hanford

Job Number: 280-68618-1
Sdg Number: JP0957

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-275637					
LCS 280-275637/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-275637/1-A	Method Blank	T	Solid	3550C	
280-68618-1	J1V6M3	T	Solid	3550C	
280-68618-2	J1V6M4	T	Solid	3550C	
280-68618-3	J1V6M5	T	Solid	3550C	
280-68618-4	J1V6M6	T	Solid	3550C	
280-68618-4MS	Matrix Spike	T	Solid	3550C	
280-68618-4MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-68618-5	J1V6M7	T	Solid	3550C	
280-68618-6	J1V6M8	T	Solid	3550C	
280-68618-7	J1V6M9	T	Solid	3550C	
280-68618-8	J1V6N0	T	Solid	3550C	
280-68618-9	J1V6N1	T	Solid	3550C	
280-68618-10	J1V6N2	T	Solid	3550C	
280-68618-11	J1V6N3	T	Solid	3550C	
280-68618-12	J1V6N4	T	Solid	3550C	
280-68618-13	J1V6N5	T	Solid	3550C	
Analysis Batch:280-275992					
LCS 280-275637/2-A	Lab Control Sample	T	Solid	8310	280-275637
MB 280-275637/1-A	Method Blank	T	Solid	8310	280-275637
280-68618-1	J1V6M3	T	Solid	8310	280-275637
280-68618-2	J1V6M4	T	Solid	8310	280-275637
280-68618-3	J1V6M5	T	Solid	8310	280-275637
280-68618-4	J1V6M6	T	Solid	8310	280-275637
280-68618-4MS	Matrix Spike	T	Solid	8310	280-275637
280-68618-4MSD	Matrix Spike Duplicate	T	Solid	8310	280-275637
280-68618-5	J1V6M7	T	Solid	8310	280-275637
280-68618-6	J1V6M8	T	Solid	8310	280-275637
280-68618-7	J1V6M9	T	Solid	8310	280-275637
280-68618-8	J1V6N0	T	Solid	8310	280-275637
280-68618-9	J1V6N1	T	Solid	8310	280-275637
280-68618-10	J1V6N2	T	Solid	8310	280-275637
280-68618-11	J1V6N3	T	Solid	8310	280-275637
280-68618-12	J1V6N4	T	Solid	8310	280-275637
280-68618-13	J1V6N5	T	Solid	8310	280-275637

Report Basis
T = Total

Washington Closure Hanford

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-232-098

Collector STOWE, QG	**Company Contact** Joan Kessner	**Telephone No.** 375-4688	**Project Coordinator** KESSNER, JH
Price Code 8B	**Data Turnaround** 7 days		
Project Designation 100-IU-2 & 100-IU-6 Remaining Waste Sites	**Sampling Location** 600-358 (excavation, verification)		**SAF No.** RC-232
Ice Chest No. RCC-07-005	**Field Logbook No.** EL-1667-03	**COA** 0603582000	**Method of Shipment** Commercial Carrier \ Fed Ex
Shipped To TestAmerica Denver	**Offsite Property No.** A131408		**Bill of Lading/Air Bill No.** See OSPC

Other Labs Shipped To
N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
N/A

Special Handling and/or Storage
Cooling as required

280-68618 Chain of Custody

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C
Type of Container	G/P	aG	aG	aG	Gs*	G/P
No. of Container(s)	1	1	1	1	3	1
Volume	250mL	125mL	250mL	250mL	40mL	250mL
Sample Analysis	See item (1) in Special Instructions	TPH-Diesel Range - WTPH-D +	PAHs - 8310	PCBs - 8082	TPH-Gasoline Range - WTPH-G	NO2/NO3 - 353.2 {Nitrogen in Nitrite and Nitrate}

Sample No.	Matrix	Sample Date	Sample Time						
J1V6M3	SOIL	4/29/15	0911	X	X	X	X	X	X
J1V6M4	SOIL	4/29/15	0908	X	X	X	X	X	X
J1V6M5	SOIL	4/29/15	0920	X	X	X	X	X	X
J1V6M6	SOIL	4/29/15	0903	X	X	X	X	X	X
J1V6M7	SOIL	4/29/15	0943	X	X	X	X	X	X

Page 1 of 35

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	1150 4-29-15	C. Martinez/C. Martinez	1150 4/29/15
C. Martinez/C. Martinez	4/29/15	C. Bingham	1400 4-29-15
C. Bingham	1400 4-29-15	1060 Battelle, Fridge #3A	1430 4-29-15
1060 Battelle, Fridge #3A	1430 4-29-15	C. Bingham	0720 4-30-15
C. Bingham WCH	0720 4-30-15	Fed Ex	1010 4-30-15
			5-1-15 9:30

FINAL SAMPLE DISPOSITION — Disposal Method — Disposed By — 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) {Mercury}

4.9, 2.8, 3.3, 4.5 IRS +0.2
Transferred By 5-1-15

REVIEWED BY KW DATE 4/30/15

JP0957

WCH-EE-011

Washington Closure Hanford — CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-232-098

Collector: STOWE, QG	Company Contact: Joan Kessner	Telephone No.: 375-4688	Project Coordinator: KESSNER, JH
Price Code: 8B	Data Turnaround: 7 days		
Project Designation: 100-IU-2 & 100-IU-6 Remaining Waste Sites	Sampling Location: 600-358 (excavation, verification)		SAF No.: RC-232
Ice Chest No.: RCC-07-005	Field Logbook No.: EL-1667-03	COA: 0603582000	Method of Shipment: Commercial Carrier \Fed Ex
Shipped To: TestAmerica Denver	Offsite Property No.: A131408		Bill of Lading/Air Bill No.: See OSPC

Other Labs Shipped To: n/A

POSSIBLE SAMPLE HAZARDS/REMARKS: N/A

Special Handling and/or Storage: Cooling as required

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C					
Type of Container	G/P	aG	aG	aG	Gs*	G/P					
No. of Container(s)	1	1	1	1	3	1					
Volume	250mL	125mL	250mL	250mL	40mL	250mL					
Sample Analysis	See item (1) in Special Instructions	TPH-Diesel Range - WTPH-D +	PAHs - 8310	PCBs - 8082	TPH-Gasoline Range - WTPH-G	NO2/NO3 - 353.2 {Nitrogen in Nitrite and Nitrate}					

Sample No.	Matrix	Sample Date	Sample Time										
J1V6M8	SOIL	4/29/15	0917	X	X	X	X	X	X				
J1V6M9	SOIL	4/29/15	0923	X	X	X	X	X	X				
J1V6N0	SOIL	4/29/15	0936	X	X	X	X	X	X				
J1V6N1	SOIL	4/29/15	0940	X	X	X	X	X	X				
J1V6N2	SOIL	4/29/15	0927	X	X	X	X	X	X				

CHAIN OF POSSESSION / Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	1150 4-29-15	C. Martinez/C. Martinez	1150 4/29/15
C. Martinez/C. Martinez	4/29/15	C. Bingham	4-29-15 1400
C. Bingham	4-29-15 1430	1060 Battelle fridge #3A	1430 4-29-15
1060 Battelle fridge #3A	0720 4-30-15	C. Bingham	4-30-15 0720
C. Bingham WCH	4-30-15 1010	Fed Ex	4-30-15
			5-1-15 9:30

FINAL SAMPLE DISPOSITION: Disposal Method | Disposed By | 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) {Mercury}

REVIEWED BY KW DATE 4/30/15

JP0957

WCH-EE-011

Washington Closure Hanford — CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-232-098

Collector: STOWE, QG	Company Contact: Joan Kessner	Telephone No.: 375-4688	Project Coordinator: KESSNER, JH
Price Code: 8B	Data Turnaround: 7 days		
Project Designation: 100-IU-2 & 100-IU-6 Remaining Waste Sites	Sampling Location: 600-358 (excavation, verification)		SAF No.: RC-232
Ice Chest No.: RCC-07-005	Field Logbook No.: EL-1667-03	COA: 0603582000	Method of Shipment: Commercial Carrier / Fed Ex
Shipped To: TestAmerica Denver	Offsite Property No.: A131408		Bill of Lading/Air Bill No.: See OSPC

Other Labs Shipped To: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS: N/A

Special Handling and/or Storage: Cooling as required

Preservation	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C					
Type of Container	G/P	aG	aG	aG	Gs*	G/P					
No. of Container(s)	1	1	1	1	3	1					
Volume	250mL	125mL	250mL	250mL	40mL	250mL					
Sample Analysis	See item (1) in Special Instructions	TPH-Diesel Range - WTPH-D +	PAHs - 8310	PCBs - 8082	TPH-Gasoline Range - WTPH-G	NO2/NO3 - 353.2 {Nitrogen in Nitrite and Nitrate}					
Sample No.	Matrix	Sample Date	Sample Time								
J1V6N3	SOIL	4/29/15	0933	X	X	X	X	X	X		
J1V6N4	SOIL	4/29/15	0930	X	X	X	X	X	X		
J1V6N5	SOIL	4/29/15	0903	X	X	X	X	X	X		

Page 139 of 335

CHAIN OF POSSESSION / Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	1150 4-29-15	C. Martinez/C. Martinez	1150 4/29/15
C. Martinez/C. Martinez	1400 4/29/15	C. Bingham	1400 4-29-15
C. Bingham	1430 4-29-15	1060 Battelle, fridge #3A	1430 4-29-15
1060 Battelle, fridge #3A	0720 4-30-15	C. Bingham	0720 4-30-15
C. Bingham WCH	1010 4-30-15	Fed Ex	4-30-15
			5-1-15 9:30

FINAL SAMPLE DISPOSITION: Disposal Method | Disposed By | 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) {Mercury}

REVIEWED BY KW DATE 4/30/15

JP0957

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

90 w Permission

Project 28002142

Report Due: 5-8-15

TALs TAT: Rush 5day

Sample Check-in List

Date/Time Received: 5-1-15 9:30 GM Screen Result 12 microR/hr

Client: Washington Closure Hanford SDG #: JP0957 NA[ ] SAF #: RC-232 NA [ ]

Job Number: 68618 Chain of Custody # RC-232-098

Shipping Container ID: RCC-07-004 FBP-217 RCC-07-002 RCC-08-017 Air Bill # 7734 9891 5815

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: 4.9, 2.8, 3.3, 4.5 IR5 +0.2 MYS 5-1-15 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 13
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
   - ___ 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? * yes
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ___

Sample Custodian: [signature] Date: 5-1-15

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person Contacted ___

[ ] No action necessary; process as is.

Project Manager [signature] Date 5-1-15

LS-023, Rev. 7, 1/08

From: (509) 376-7492
1162 Shipping
US DOE c/oWCH
2355 Stevens Dr

Richland, WA 99354

Origin ID: PSCA

FedEx Express

J15121502203uv

SHIP TO: (303) 736-0100
Kae Yoder
TestAmerica
4955 Yarrow St.
A131408
ARVADA, CO 80002

BILL THIRD PARTY

Ship Date: 30APR15
ActWgt: 93.0 LB
CAD: 105266502/INET3810

Delivery Address Bar Code

Ref # 0503582000
Invoice #
PO #
Dept #

Temp 4.9 IR# 5
CF +0.2 Initals
Date: 05/01/15

FBP-217

6 of 6

MPS# 7734 9891 5860
0263
Mstr# 7734 9891 5815 0201

FRI - 01 MAY 10:30A
PRIORITY OVERNIGHT

XH WHHA

80002
CO-US
DEN

537J1/26B2/EE40

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

From: (509) 376-7492
1182 Shipping
US DOE c/oWCH
2355 Stevens Dr

Richland, WA 99354

Origin ID: PSCA

FedEx Express

J1512602230uv

SHIP TO: (303) 736-0190
BILL THIRD PARTY

Kae Yoder
TestAmerica
4955 Yarrow St.
A131408
ARVADA, CO 80002

Ship Date: 30APR15
ActWgt: 67.0 LB
CAD: 105266502/NET3610

Delivery Address Bar Code

Ref # 0803582000
Invoice #
PO #
Dept #

4 of 6

MPS# 7734 9891 6215
0263
Mstr# 7734 9891 5815 0201

FRI - 01 MAY 10:30A
PRIORITY OVERNIGHT

XH WHHA

80002
CO-US
DEN

637J/25E2EE4B

Temp 2.8 IR# 5
CF +0.2 Initals
Date: 05/01/15

RCC-08-017

After printing this label:
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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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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

From: (509) 376-7492
1162 Shipping
US DOE c/o WCH
2355 Stevens Dr

Richland, WA 99354

Origin ID: PSCA

FedEx Express

J1512160223031w

SHIP TO: (303) 736-0100
BILL THIRD PARTY

Kae Yoder
TestAmerica
4955 Yarrow St.
A131408
ARVADA, CO 80002

Ship Date: 30APR15
ActWgt: 71.0 LB
CAD: 105266602/INET3610

Delivery Address Bar Code

Ref # 0603582000
Invoice #
PO #
Dept #

Temp 3.3 IR# 5
CF +0.2 Initals
Date: 05/01/15

RCC-07-002

5 of 6

FRI - 01 MAY 10:30A
PRIORITY OVERNIGHT

MPS# 7734 9891 5848
0263
Mstr# 7734 9891 5815
0201

XH WHHA

80002
CO-US
DEN

537J126E2EE40

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.
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From: (509) 376-7492
1162 Shipping
US DOE c/oWCH
2355 Stevens Dr

Richland, WA 99354

Origin ID: PSCA

FedEx Express

J15121502230uy

SHIP TO: (303) 736-0190
BILL THIRD PARTY

Kae Yoder
TestAmerica
4955 Yarrow St.
A131408
ARVADA, CO 80002

Ship Date: 30APR15
ActWgt 74.0 LB
CAD: 105288502/INET3610

Delivery Address Bar Code

Ref# 0603562000
Invoice #
PO #
Dept #

Temp 4.5 IR# 5
CF +0.2 Initals
Date: 05/01/15

RCC-07-004

3 of 6

MPS# 7734 9891 5399
0263
Mstr# 7734 9891 5815
0201

FRI - 01 MAY 10:30A
PRIORITY OVERNIGHT

XH WHHA

80002
CO-US
DEN

537J1/25E2/EE4B

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