0101685

SAF-RC-190
100N Field Remediation – Soil In-Process
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 1/31/12
INITIAL/DATE

COMMENTS:

SDG J01399 SAF-RC-190

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location: 100-N-63:2 Stains In Process

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-24638-1

SDG Number: J01399

Job Description: SAF# RC-190

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

Attention: Joan H Kessner

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JAN 2012

Approved for release.
Kae E Yoder
Project Manager II
1/27/2012 3:09 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
01/27/2012

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

The Lab Certification ID# is E87667.

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

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
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ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

Cover Title Page 1

Report Narrative 3

Data Qualifiers 4

Method Summary 5

Method / Analyst Summary 6

Sample Summary 7

Sample Results 8

Sample Datasheets 9

QC Results 27

Qc Association Summary 28

Qc Reports 31

Client Chain of Custody 39

Sample Receipt Checklist 41

CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-24638-1

SDG #: J01399
SAF#: RC-190

Date SDG Closed: January 13, 2012
Data Deliverable: 21 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1N281	280-24638-1	WTPH-D+/9071/8310	NWTPH-Dx/9071B/8310
J1N282	280-24638-2	WTPH-D+/9071/8310	NWTPH-Dx/9071B/8310
J1N283	280-24638-3	WTPH-D+/9071/8310	NWTPH-Dx/9071B/8310
J1N284	280-24638-4	WTPH-D+/9071/8310	NWTPH-Dx/9071B/8310
J1N285	280-24638-5	WTPH-D+/9071/8310	NWTPH-Dx/9071B/8310
J1N286	280-24638-6	WTPH-D+/9071/8310	NWTPH-Dx/9071B/8310

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

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

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

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

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

RECEIPT
The samples were received on 1/13/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was -0.1 C.

GC SEMIVOLATILES - NWTPH-Dx - DRO
Low levels of C10-C28 are present in the method blank associated with batch 280-103591. Because the concentration in the method blank is not present at a level greater than half the reporting limit, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

The MSD aliquot of the MS/MSD performed on sample J1N283 exhibited the percent recovery outside the control limits for C10-C36, and the associated sample result has been flagged "N". The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

HPLC - SW846 8310 - PAHs
In some cases, the RPD between the primary and confirmation columns exceeded 40%. The lower of the two values have been reported, as interference is evident on both columns. Associated results have been flagged with an "X".

No other anomalies were encountered.

GENERAL CHEMISTRY - SW846 9071B - OIL & GREASE
No anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Lab Section	Qualifier	Description
GC Semi VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	U	Analyzed for but not detected.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
HPLC/IC		
	U	Analyzed for but not detected.
	X	More than 40% difference between columns, lower result reported.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
Ultrasonic Extraction			SW846 3550C
PAHs (HPLC)	TAL DEN	SW846 8310	
Ultrasonic Extraction			SW846 3550C
HEM and SGT-HEM	TAL DEN	SW846 9071B	
Soxhlet Extraction			SW846 3540C
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

NWTPH = Northwest Total Petroleum Hydrocarbon

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

METHOD / ANALYST SUMMARY

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Method	Analyst	Analyst ID
NWTPH NWTPH-Dx	Pavlakovich, Adam M	AMP
SW846 9071B	Gheorghe, Philip A	PAG
ASTM D-2216	Berry III, Paul B	PBB
SW846 8310	Hall, Koley J	KJH

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-24638-1	J1N281	Solid	01/11/2012 1255	01/13/2012 1000
280-24638-2	J1N282	Solid	01/11/2012 1248	01/13/2012 1000
280-24638-3	J1N283	Solid	01/11/2012 1237	01/13/2012 1000
280-24638-4	J1N284	Solid	01/11/2012 1230	01/13/2012 1000
280-24638-5	J1N285	Solid	01/11/2012 1220	01/13/2012 1000
280-24638-6	J1N286	Solid	01/11/2012 1210	01/13/2012 1000

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Client Sample ID: **J1N281**

Lab Sample ID: 280-24638-1
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 01/11/2012 1255
Date Received: 01/13/2012 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-104469	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-103591	Lab File ID:	024B2401.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	01/20/2012 0006			Final Weight/Volume:	1000 uL
Prep Date:	01/16/2012 1730			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		88000		1000	4100
C10-C28		32000	B	690	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	104		49 - 115

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Client Sample ID: **J1N282**

Lab Sample ID: 280-24638-2
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 01/11/2012 1248
Date Received: 01/13/2012 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-104469	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-103591	Lab File ID:	025B2501.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	01/20/2012 0035			Final Weight/Volume:	1000 uL
Prep Date:	01/16/2012 1730			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		74000		1100	4200
C10-C28		33000	B	720	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	102		49 - 115

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Client Sample ID: **J1N283**

Lab Sample ID: 280-24638-3
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 01/11/2012 1237
Date Received: 01/13/2012 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-104469	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-103591	Lab File ID:	026B2601.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	01/20/2012 0103			Final Weight/Volume:	1000 uL
Prep Date:	01/16/2012 1730			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		6500	N	1100	4300
C10-C28		4400	B	730	4300

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	98		49 - 115

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Client Sample ID: **J1N284**

Lab Sample ID: 280-24638-4
Client Matrix: Solid
% Moisture: 6.7

Date Sampled: 01/11/2012 1230
Date Received: 01/13/2012 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-104469	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-103591	Lab File ID:	029B2901.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	01/20/2012 0228			Final Weight/Volume:	1000 uL
Prep Date:	01/16/2012 1730			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		5900		1000	4200
C10-C28		3800	J B	710	4200

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	93		49 - 115

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Client Sample ID: **J1N285**

Lab Sample ID: 280-24638-5
Client Matrix: Solid
% Moisture: 7.6

Date Sampled: 01/11/2012 1220
Date Received: 01/13/2012 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-104469	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-103591	Lab File ID:	030B3001.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	01/20/2012 0256			Final Weight/Volume:	1000 uL
Prep Date:	01/16/2012 1730			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		68000		1100	4300
C10-C28		30000	B	730	4300

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

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Client Sample ID: **J1N286**

Lab Sample ID: 280-24638-6
Client Matrix: Solid
% Moisture: 8.3

Date Sampled: 01/11/2012 1210
Date Received: 01/13/2012 1000

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-104469	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-103591	Lab File ID:	031B3101.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	01/20/2012 0325			Final Weight/Volume:	1000 uL
Prep Date:	01/16/2012 1730			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		61000		1100	4300
C10-C28		21000	B	730	4300

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	60		49 - 115

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Client Sample ID: **J1N281**

Lab Sample ID: 280-24638-1
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 01/11/2012 1255
Date Received: 01/13/2012 1000

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-104246	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-103851	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	01/20/2012 2105			Injection Volume:	20 uL
Prep Date:	01/18/2012 1230			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.2	U	9.2	100
Anthracene		150		3.1	20
Benzo[a]anthracene		250		3.3	15
Benzo[a]pyrene		190		6.6	15
Benzo[b]fluoranthene		160		4.3	15
Benzo[g,h,i]perylene		82		7.4	31
Benzo[k]fluoranthene		93		4.0	15
Chrysene		220		4.9	41
Dibenzo(a,h)anthracene		27	J X	11	31
Fluoranthene		580		13	41
Fluorene		42		5.4	31
Indeno[1,2,3-cd]pyrene		96		12	31
Naphthalene		12	U	12	100
Phenanthrene		480		12	41
Pyrene		450	X	12	41

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

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Client Sample ID: **J1N282**

Lab Sample ID: 280-24638-2
Client Matrix: Solid
% Moisture: 5.8

Date Sampled: 01/11/2012 1248
Date Received: 01/13/2012 1000

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-104246	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-103851	Initial Weight/Volume:	31.8 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	01/20/2012 2135			Injection Volume:	20 uL
Prep Date:	01/18/2012 1230			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.0	U	9.0	100
Anthracene		87		3.1	20
Benzo[a]anthracene		130		3.2	15
Benzo[a]pyrene		140	X	6.4	15
Benzo[b]fluoranthene		110		4.2	15
Benzo[g,h,i]perylene		25	J	7.2	30
Benzo[k]fluoranthene		50		3.9	15
Chrysene		120		4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		310		13	40
Fluorene		22	J	5.3	30
Indeno[1,2,3-cd]pyrene		69		12	30
Naphthalene		12	U	12	100
Phenanthrene		250		12	40
Pyrene		310		12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	105		72 - 115

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Client Sample ID: **J1N283**

Lab Sample ID: 280-24638-3
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 01/11/2012 1237
Date Received: 01/13/2012 1000

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-104246	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-103851	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	01/20/2012 2206			Injection Volume:	20 uL
Prep Date:	01/18/2012 1230			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.7	U	9.7	110
Anthracene		3.3	U	3.3	21
Benzo[a]anthracene		3.4	U	3.4	16
Benzo[a]pyrene		6.9	U	6.9	16
Benzo[b]fluoranthene		4.5	U	4.5	16
Benzo[g,h,i]perylene		7.7	U	7.7	32
Benzo[k]fluoranthene		4.2	U	4.2	16
Chrysene		5.2	U	5.2	43
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		14	U	14	43
Fluorene		5.7	U	5.7	32
Indeno[1,2,3-cd]pyrene		13	U	13	32
Naphthalene		13	U	13	110
Phenanthrene		13	U	13	43
Pyrene		13	U	13	43

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

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Client Sample ID: **J1N284**

Lab Sample ID: 280-24638-4
Client Matrix: Solid
% Moisture: 6.7

Date Sampled: 01/11/2012 1230
Date Received: 01/13/2012 1000

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-104246	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-103851	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	01/20/2012 2236			Injection Volume:	20 uL
Prep Date:	01/18/2012 1230			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.6	U	9.6	110
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.4	U	3.4	16
Benzo[a]pyrene		6.8	U	6.8	16
Benzo[b]fluoranthene		4.5	U	4.5	16
Benzo[g,h,i]perylene		7.7	U	7.7	32
Benzo[k]fluoranthene		4.2	U	4.2	16
Chrysene		5.2	U	5.2	43
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		14	U	14	43
Fluorene		5.6	U	5.6	32
Indeno[1,2,3-cd]pyrene		13	U	13	32
Naphthalene		13	U	13	110
Phenanthrene		13	U	13	43
Pyrene		13	U	13	43

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

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Client Sample ID: **J1N285**

Lab Sample ID: 280-24638-5
Client Matrix: Solid
% Moisture: 7.6

Date Sampled: 01/11/2012 1220
Date Received: 01/13/2012 1000

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-104246	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-103851	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	01/21/2012 0008			Injection Volume:	20 uL
Prep Date:	01/18/2012 1230			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.4	U	9.4	100
Anthracene		17	J	3.2	21
Benzo[a]anthracene		150		3.3	16
Benzo[a]pyrene		170	X	6.7	16
Benzo[b]fluoranthene		120		4.4	16
Benzo[g,h,i]perylene		59		7.5	31
Benzo[k]fluoranthene		52		4.1	16
Chrysene		120		5.0	42
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		160		14	42
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		66	X	12	31
Naphthalene		12	U	12	100
Phenanthrene		42		12	42
Pyrene		140	X	12	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	111		72 - 115

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Client Sample ID: **J1N286**

Lab Sample ID: 280-24638-6
Client Matrix: Solid
% Moisture: 8.3

Date Sampled: 01/11/2012 1210
Date Received: 01/13/2012 1000

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-104246	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-103851	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	01/21/2012 0038			Injection Volume:	20 uL
Prep Date:	01/18/2012 1230			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.4	U	9.4	100
Anthracene		38		3.2	21
Benzo[a]anthracene		150		3.3	16
Benzo[a]pyrene		170		6.7	16
Benzo[b]fluoranthene		130		4.4	16
Benzo[g,h,i]perylene		72		7.6	31
Benzo[k]fluoranthene		79		4.1	16
Chrysene		170		5.1	42
Dibenzo(a,h)anthracene		23	J X	12	31
Fluoranthene		340		14	42
Fluorene		22	J	5.5	31
Indeno[1,2,3-cd]pyrene		74	X	13	31
Naphthalene		13	U	13	100
Phenanthrene		200		13	42
Pyrene		370		13	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	112		72 - 115

General Chemistry

Client Sample ID: **J1N281**

Lab Sample ID: 280-24638-1
Client Matrix: Solid
% Moisture: 4.4
Date Sampled: 01/11/2012 1255
Date Received: 01/13/2012 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Oil & Grease (HEM)	749		mg/Kg	87.0	513	1.0	9071B
Analysis Batch: 280-103835	Analysis Date: 01/18/2012 1008						DryWt Corrected: Y
Prep Batch: 280-103665	Prep Date: 01/17/2012 1005						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.4		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-103357	Analysis Date: 01/13/2012 1218						DryWt Corrected: N

General Chemistry

Client Sample ID: **J1N282**

Lab Sample ID: 280-24638-2
Client Matrix: Solid
% Moisture: 5.8
Date Sampled: 01/11/2012 1248
Date Received: 01/13/2012 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Oil & Grease (HEM)	237	B	mg/Kg	87.4	516	1.0	9071B
Analysis Batch: 280-103835	Analysis Date: 01/18/2012 1008						DryWt Corrected: Y
Prep Batch: 280-103665	Prep Date: 01/17/2012 1005						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.8		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-103357	Analysis Date: 01/13/2012 1218						DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

General Chemistry

Client Sample ID: **J1N283**

Lab Sample ID: 280-24638-3
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 01/11/2012 1237
Date Received: 01/13/2012 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Oil & Grease (HEM)	85.3	U	mg/Kg	85.3	503	1.0	9071B

Analysis Batch: 280-103835 Analysis Date: 01/18/2012 1008 DryWt Corrected: Y
Prep Batch: 280-103665 Prep Date: 01/17/2012 1005

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

Analysis Batch: 280-103357 Analysis Date: 01/13/2012 1218 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

General Chemistry

Client Sample ID: **J1N284**

Lab Sample ID: 280-24638-4
Client Matrix: Solid
% Moisture: 6.7

Date Sampled: 01/11/2012 1230
Date Received: 01/13/2012 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Oil & Grease (HEM)	90.0	U	mg/Kg	90.0	531	1.0	9071B
Analysis Batch: 280-103835	Analysis Date: 01/18/2012 1008						DryWt Corrected: Y
Prep Batch: 280-103665	Prep Date: 01/17/2012 1005						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.7		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-103357	Analysis Date: 01/13/2012 1218						DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

General Chemistry

Client Sample ID: **J1N285**

Lab Sample ID: 280-24638-5
Client Matrix: Solid
% Moisture: 7.6

Date Sampled: 01/11/2012 1220
Date Received: 01/13/2012 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Oil & Grease (HEM)	466	B	mg/Kg	89.8	529	1.0	9071B
Analysis Batch: 280-103835	Analysis Date: 01/18/2012 1008						DryWt Corrected: Y
Prep Batch: 280-103665	Prep Date: 01/17/2012 1005						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.6		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-103357	Analysis Date: 01/13/2012 1218						DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

General Chemistry

Client Sample ID: **J1N286**

Lab Sample ID: 280-24638-6
Client Matrix: Solid
% Moisture: 8.3

Date Sampled: 01/11/2012 1210
Date Received: 01/13/2012 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Oil & Grease (HEM)	311	B	mg/Kg	91.0	536	1.0	9071B

Analysis Batch: 280-103835 Analysis Date: 01/18/2012 1008 DryWt Corrected: Y
Prep Batch: 280-103665 Prep Date: 01/17/2012 1005

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-103357 Analysis Date: 01/13/2012 1218 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-103591					
LCS 280-103591/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-103591/1-A	Method Blank	T	Solid	3550C	
280-24638-1	J1N281	T	Solid	3550C	
280-24638-2	J1N282	T	Solid	3550C	
280-24638-3	J1N283	T	Solid	3550C	
280-24638-3MS	Matrix Spike	T	Solid	3550C	
280-24638-3MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-24638-4	J1N284	T	Solid	3550C	
280-24638-5	J1N285	T	Solid	3550C	
280-24638-6	J1N286	T	Solid	3550C	
Analysis Batch:280-104469					
LCS 280-103591/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-103591
MB 280-103591/1-A	Method Blank	T	Solid	NWTPH-Dx	280-103591
280-24638-1	J1N281	T	Solid	NWTPH-Dx	280-103591
280-24638-2	J1N282	T	Solid	NWTPH-Dx	280-103591
280-24638-3	J1N283	T	Solid	NWTPH-Dx	280-103591
280-24638-3MS	Matrix Spike	T	Solid	NWTPH-Dx	280-103591
280-24638-3MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-103591
280-24638-4	J1N284	T	Solid	NWTPH-Dx	280-103591
280-24638-5	J1N285	T	Solid	NWTPH-Dx	280-103591
280-24638-6	J1N286	T	Solid	NWTPH-Dx	280-103591

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-103357					
280-24638-1	J1N281	T	Solid	D-2216	
280-24638-1DU	Duplicate	T	Solid	D-2216	
280-24638-2	J1N282	T	Solid	D-2216	
280-24638-3	J1N283	T	Solid	D-2216	
280-24638-4	J1N284	T	Solid	D-2216	
280-24638-5	J1N285	T	Solid	D-2216	
280-24638-6	J1N286	T	Solid	D-2216	
Prep Batch: 280-103665					
LCS 280-103665/2-A	Lab Control Sample	T	Solid	3540C	
MB 280-103665/1-A	Method Blank	T	Solid	3540C	
280-24638-1	J1N281	T	Solid	3540C	
280-24638-2	J1N282	T	Solid	3540C	
280-24638-3	J1N283	T	Solid	3540C	
280-24638-4	J1N284	T	Solid	3540C	
280-24638-4DU	Duplicate	T	Solid	3540C	
280-24638-4MS	Matrix Spike	T	Solid	3540C	
280-24638-5	J1N285	T	Solid	3540C	
280-24638-6	J1N286	T	Solid	3540C	
Analysis Batch:280-103835					
LCS 280-103665/2-A	Lab Control Sample	T	Solid	9071B	280-103665
MB 280-103665/1-A	Method Blank	T	Solid	9071B	280-103665
280-24638-1	J1N281	T	Solid	9071B	280-103665
280-24638-2	J1N282	T	Solid	9071B	280-103665
280-24638-3	J1N283	T	Solid	9071B	280-103665
280-24638-4	J1N284	T	Solid	9071B	280-103665
280-24638-4DU	Duplicate	T	Solid	9071B	280-103665
280-24638-4MS	Matrix Spike	T	Solid	9071B	280-103665
280-24638-5	J1N285	T	Solid	9071B	280-103665
280-24638-6	J1N286	T	Solid	9071B	280-103665

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-103851					
LCS 280-103851/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-103851/1-A	Method Blank	T	Solid	3550C	
280-24638-1	J1N281	T	Solid	3550C	
280-24638-2	J1N282	T	Solid	3550C	
280-24638-3	J1N283	T	Solid	3550C	
280-24638-4	J1N284	T	Solid	3550C	
280-24638-4MS	Matrix Spike	T	Solid	3550C	
280-24638-4MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-24638-5	J1N285	T	Solid	3550C	
280-24638-6	J1N286	T	Solid	3550C	
Analysis Batch:280-104246					
LCS 280-103851/2-A	Lab Control Sample	T	Solid	8310	280-103851
MB 280-103851/1-A	Method Blank	T	Solid	8310	280-103851
280-24638-1	J1N281	T	Solid	8310	280-103851
280-24638-2	J1N282	T	Solid	8310	280-103851
280-24638-3	J1N283	T	Solid	8310	280-103851
280-24638-4	J1N284	T	Solid	8310	280-103851
280-24638-4MS	Matrix Spike	T	Solid	8310	280-103851
280-24638-4MSD	Matrix Spike Duplicate	T	Solid	8310	280-103851
280-24638-5	J1N285	T	Solid	8310	280-103851
280-24638-6	J1N286	T	Solid	8310	280-103851

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Method Blank - Batch: 280-103591

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-103591/1-A	Analysis Batch:	280-104469	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-103591	Lab File ID:	022B2201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	01/19/2012 2309	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	01/16/2012 1730			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	990	U	990	4000
C10-C28	685	J	680	4000

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	108	49 - 115

Lab Control Sample - Batch: 280-103591

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	LCS 280-103591/2-A	Analysis Batch:	280-104469	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-103591	Lab File ID:	023B2301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	01/19/2012 2338	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	01/16/2012 1730			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C10-C36	66200	75200	113	57 - 115	
C10-C28	66200	75000	113	53 - 115	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	105	49 - 115

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-103591

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-24638-3	Analysis Batch:	280-104469	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-103591	Lab File ID:	027B2701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	01/20/2012 0132			Final Weight/Volume:	1000 uL
Prep Date:	01/16/2012 1730			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-24638-3	Analysis Batch:	280-104469	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-103591	Lab File ID:	028B2801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	01/20/2012 0200			Final Weight/Volume:	1000 uL
Prep Date:	01/16/2012 1730			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	104	122	57 - 115	13	23		N
C10-C28	105	113	56 - 115	5	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	110	98	49 - 115

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Method Blank - Batch: 280-103851

Method: 8310
Preparation: 3550C

Lab Sample ID:	MB 280-103851/1-A	Analysis Batch:	280-104246	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-103851	Lab File ID:	G0120017.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	01/20/2012 2004	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	01/18/2012 1230			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)	99	72 - 115

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Lab Control Sample - Batch: 280-103851

Method: 8310
Preparation: 3550C

Lab Sample ID:	LCS 280-103851/2-A	Analysis Batch:	280-104246	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-103851	Lab File ID:	G0120018.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	01/20/2012 2034	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	01/18/2012 1230			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1970	2130	108	78 - 116	
Acenaphthylene	1970	2020	102	76 - 115	
Anthracene	1970	2020	102	74 - 115	
Benzo[a]anthracene	1970	2190	111	85 - 120	
Benzo[a]pyrene	1970	2110	107	74 - 121	
Benzo[b]fluoranthene	1970	2210	112	85 - 115	
Benzo[g,h,i]perylene	1970	2260	114	85 - 120	
Benzo[k]fluoranthene	1970	2130	108	85 - 115	
Chrysene	1970	2080	106	83 - 115	
Dibenzo(a,h)anthracene	1970	2140	108	83 - 115	
Fluoranthene	1970	2130	108	83 - 115	
Fluorene	1970	2100	106	80 - 115	
Indeno[1,2,3-cd]pyrene	1970	2210	112	85 - 123	
Naphthalene	1970	2110	107	80 - 121	
Phenanthrene	1970	2110	107	80 - 115	
Pyrene	1970	2110	107	75 - 116	

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

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-103851

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-24638-4	Analysis Batch:	280-104246	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-103851	Lab File ID:	G0120023.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	01/20/2012 2307			Final Weight/Volume:	4000 uL
Prep Date:	01/18/2012 1230			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-24638-4	Analysis Batch:	280-104246	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-103851	Lab File ID:	G0120024.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	01/20/2012 2337			Final Weight/Volume:	4000 uL
Prep Date:	01/18/2012 1230			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	107	106	78 - 116	1	20		
Acenaphthylene	102	101	76 - 115	1	21		
Anthracene	102	102	74 - 115	0	20		
Benzo[a]anthracene	111	111	85 - 120	1	20		
Benzo[a]pyrene	107	106	74 - 121	1	20		
Benzo[b]fluoranthene	108	108	85 - 115	0	20		
Benzo[g,h,i]perylene	115	115	85 - 120	1	20		
Benzo[k]fluoranthene	106	105	85 - 115	1	20		
Chrysene	105	105	83 - 115	0	20		
Dibenzo(a,h)anthracene	108	108	83 - 115	1	20		
Fluoranthene	108	109	83 - 115	0	20		
Fluorene	106	106	80 - 115	0	20		
Indeno[1,2,3-cd]pyrene	112	112	85 - 123	1	20		
Naphthalene	106	107	80 - 121	0	20		
Phenanthrene	107	107	80 - 115	0	20		
Pyrene	107	107	75 - 116	0	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	97	98	72 - 115

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Method Blank - Batch: 280-103665

Method: 9071B
Preparation: 3540C

Lab Sample ID:	MB 280-103665/1-A	Analysis Batch:	280-103835	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	280-103665	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.02 g
Analysis Date:	01/18/2012 1008	Units:	mg/Kg	Final Weight/Volume:	10 g
Prep Date:	01/17/2012 1005				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Oil & Grease (HEM)	84.6	U	84.6	499

Lab Control Sample - Batch: 280-103665

Method: 9071B
Preparation: 3540C

Lab Sample ID:	LCS 280-103665/2-A	Analysis Batch:	280-103835	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	280-103665	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.08 g
Analysis Date:	01/18/2012 1008	Units:	mg/Kg	Final Weight/Volume:	10 g
Prep Date:	01/17/2012 1005				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Oil & Grease (HEM)	1980	1974	99	56 - 142	

Matrix Spike - Batch: 280-103665

Method: 9071B
Preparation: 3540C

Lab Sample ID:	280-24638-4	Analysis Batch:	280-103835	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	280-103665	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.03 g
Analysis Date:	01/18/2012 1008	Units:	mg/Kg	Final Weight/Volume:	10 g
Prep Date:	01/17/2012 1005				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Oil & Grease (HEM)	90.0	U	2140	2149	100	56 - 142	

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Duplicate - Batch: 280-103665

Method: 9071B
Preparation: 3540C

Lab Sample ID:	280-24638-4	Analysis Batch:	280-103835	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	280-103665	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.12 g
Analysis Date:	01/18/2012 1008	Units:	mg/Kg	Final Weight/Volume:	10 g
Prep Date:	01/17/2012 1005				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Oil & Grease (HEM)	90.0	U	89.8	NC	32	U

Client: Washington Closure Hanford

Job Number: 280-24638-1
Sdg Number: J01399

Duplicate - Batch: 280-103357

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-24638-1	Analysis Batch:	280-103357	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	01/13/2012 1218	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	4.4	4.0	9	20	

-0.1, JH, 1/13/12

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-190-081	Page 1 of 2

Collector: JK Russell	Company Contact: Joan Kessner	Telephone No.: 375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100N Field Remediation - Soil In-Process	Sampling Location: 100-N-63:2 Stains In Process		SAF No.: RC-190
Ice Chest No.: ERC-96-030	Field Logbook No.: EL-1652-5	COA: R10N632000	Method of Shipment: Fed Ex
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: ~~NA~~ A110118		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4C

Preservation				Cool 4C	Cool 4C	Cool 4C						
Type of Container				G	G	aG						
No. of Container(s)				1	1	1						
Volume				60mL	60mL	60mL						
SAMPLE ANALYSIS				TPH-Diesel Range - WTPH-D +	Oil & Grease - 9071	PAHs - 8310						RCF
Sample No.	Matrix *	Sample Date	Sample Time									
J1N281	SOIL	1-11-12	1255	X	X	X						31225
J1N282	SOIL	1-11-12	1248	X	X	X						31226
J1N283	SOIL	1-11-12	1237	X	X	X						
J1N284	SOIL	1-11-12	1230	X	X	X						
J1N285	SOIL	1-11-12	1220	X	X	X						

CHAIN OF POSSESSION	Sign/Print Names		
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
		1/11/12	
Relinquished By/Removed From	Date/Time 1-11-12 1310	Received By/Stored In Dennis Newman	Date/Time 1-11-12 1310
Relinquished By/Removed From Dennis Newman	Date/Time 1-11-12 1525	Received By/Stored In A. Freier	Date/Time 1060#2 1-11-12 1525
Relinquished By/Removed From WCH A. Freier	Date/Time 1060#2 1-12-12 1305	Received By/Stored In Fed Ex	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time 1/13/12 1000
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

SDG
J01399

REVIEWED BY CMB DATE 1-12-12

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

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

WCH-EE-011

- OSC, #21, 54 11/3/17

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-190-081	Page 2 of 2

Collector: JK Russell	Company Contact: Joan Kessner	Telephone No.: 375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: 21 Days		
Project Designation: 100N Field Remediation - Soil In-Process	Sampling Location: 100-N-63:2 Stains In Process		SAF No.: RC-190
Ice Chest No.: ERC-96-030 11/1/12	Field Logbook No.: EL-1652-5	COA: R10N632000	Method of Shipment: Fed Ex
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No.: ~~NA~~ AJ 1-11-12 A110118		Bill of Lading/Air Bill No.: See OSPC

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4C

Preservation				Cool 4C	Cool 4C	Cool 4C						
Type of Container				G	G	aG						
No. of Container(s)				1	1	1						
Volume				60mL	60mL	60mL						
SAMPLE ANALYSIS				TPH-Diesel Range - WTPH-D+	Oil & Grease - 9071	PAHs - 8310						RCF
Sample No.	Matrix *	Sample Date	Sample Time									
J1N286	SOIL	1-11-12	1210	X	X	X						31225 31226

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: John Russell	1/11/12 1310	Received By/Stored In: Dennis Newman Dennis Newman	1-11-12 1310
Relinquished By/Removed From: Dennis Newman Dennis Newman	1-11-12 1525	Received By/Stored In: A. Freier A. Freier	1060#2 1-11-12 1525
Relinquished By/Removed From: WCH A. Freier A. Freier	1060#2 1-12-12 1305	Received By/Stored In: Fed Ex	
Relinquished By/Removed From		Received By/Stored In: [illegible]	1/13/12 1000
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

SDG J01399

REVIEWED BY CMB DATE 1-12-12

Matrix *
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T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

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

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 Solid

Analytical Due:

Report Due: 2/3/12 (15d TAT)

Sample Check-in List

Date/Time Received: 1/13/12 1000 **GM Screen Result** 12 **microR/hr**

Client: Washington Closure Hanford **SDG #:** J01399 NA[ ] **SAF #:** RC-190 NA [ ]

Job Number: 24638 **Chain of Custody #** RC-190-081

Shipping Container ID: ERC96-030 **Air Bill #** 7931 7220 3800

1. Custody Seals on shipping container intact? NA [ ] Yes [X] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [X] No [ ]
3. Chain of Custody record present? NA [ ] Yes [X] No [ ]
4. Cooler Temperature °C: -0.1 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [X]
6. Number of samples in shipping container: 2 1/13/12
7. Sample holding times exceeded? NA [ ] Yes [ ] No [X]
8. Samples have:
   - [X] Tape
   - [X] Custody Seals
   - [X] Hazard Lables
   - [X] Appropriate Sample Lables
9. Samples are:
   - [X] In Good Condition
   - [ ] Broken
   - [ ] Leaking
   - [ ] Have Air Bubbles
   (Only for samples requiring no head space.)
10. Sample pH taken? NA [X] pH<2 [ ] pH>2 [ ] pH>9 [ ] **Amount HNO_3 Added** _____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [X]
13. Description of anomalies (include sample numbers): _____

Sample Custodian: [signature] **Date:** 1/13/12

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager [signature] Date 1/13/12

LS-023, Rev. 7, 1/08

From: (509) 376-7768
1162 SHIPPING DEPT
US DOE
2355 STEVENS DR

RICHLAND, WA 99354

Origin ID: PSCA

FedEx. Express

J1120110805022S

Ship Date: 12JAN12
ActWgt: 60.0 LB
CAD: 5851986/INET3210

Delivery Address Bar Code

SHIP TO: (303) 736-0190

BILL THIRD PARTY

KAE YODER
TEST AMERICA
4955 YARROW ST # A110118

ARVADA, CO 80002

Ref # R10N632000
Invoice #
PO #
Dept #

FRI - 13 JAN A1
PRIORITY OVERNIGHT

TRK# 0201 **7931 1220 3800**

80002
CO-US
DEN

XH WHHA

50FG2/A78E/F5F4

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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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