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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

F08-031

Lot #: F8E160282
SDG #: W05399

Steve Trent

Fluor Hanford Inc
PO Box 1000 T6-03
Richland, WA 99352

RECEIVED
JAN 22 2009
EDMC

TESTAMERICA LABORATORIES, INC.

Michael C. Franks
Project Manager

June 16, 2008

13715 Rider Trail North Earth City, MO 63045 tel 314.298.8566 fax 314.298.8757 www.testamericainc.com

CASE NARRATIVE

Fluor Hanford, Inc.
P.O. Box 1000
MSIN E6-35
Richland, Washington 99352
June 16, 2008
Attention: Steve Trent

SDG	: W05399
Number of Samples	: 19 samples
Sample Matrix	: water
Data Deliverable	: Summary
Date SDG Closed	: May 16, 2008

II. Introduction

On May 16, 2008, twelve (12) soil samples and seven (7) methanol process control samples were received by TestAmerica - St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and CUR forms for documentation of any variations on receipt conditions and temperature. Upon receipt, the samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

08/26/08: This report is re-issued to include page two of the case narrative that was omitted from the submitted PDF data package. The Problem and Discrepancies report for W05399 is included with this case narrative.

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits. All results are based upon samples as they were received, i.e. wet weight, unless otherwise noted on the data sheets. See the attached Methods Summary Form for the methods used in this SDG.

Deviation from Request: None

IV. Definitions

QCBLK-	Quality Control Blank, Method Blank
QCLCS-	Quality Control Laboratory Control Sample, Blank Spike
DUP-	Laboratory Duplicate
MS-	Matrix Spike
MSD-	Matrix Spike Duplicate

V. Comments

General

The following SAFs are associated with this SDG: F08-031

The term "Detection Limit" used in the analytical data report refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

Fluor Hanford Inc.
June 16, 2008
SDG: W05399

MS/MSD/Dup analysis was done per the client requirements. Analytical batches that did not contain matrix QC were analyzed with a LCS/LCS duplicate.

Volatiles

Batch: 8144301

The MS/MSD RPD is not within method acceptance criteria for various analytes. MS/MSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix. The RPD excursion is caused by the large difference in sample weight between the MS and MSD.

The associated samples did not require an analysis at a dilution. As a result, neither the high level vials nor the methanol process control samples (B1VDMO, B1VDR7, B1VDT0, B1VDT4, B1VDT8, B1VDV4, and B1VFD1) were analyzed.
Affected Samples:
F8E160282 (1): B1VDL9
F8E160282 (3): B1VDR6
F8E160282 (5): B1VDR9
F8E160282 (7): B1VDT3
F8E160282 (9): B1VDT7
F8E160282 (11): B1VDV3

GC/MS Semivolatiles

Batch: 8142461

The reported target analyte in the associated sample (Tributyl phosphate) is not a spiked compound in the LCS or MS/MSD. As a result, no data is reported for these QC samples. All compounds that were spiked are in control in the LCS except for 2,4-Dinitrophenol. The MS/MSD recoveries and RPDs are outside QC limits for various analytes, indicting a potential matrix interence. The samples, method blank and MS/MSD exhibited poor surrogate recovery.
The samples were re-extracted outside hold time. The re-analysis yielded identical results for the target analyte and comparable surrogate recoveries for the samples, indicating a potential matrix interference. Surrogate recoveries in the method blank and LCS/LCSD recoveries in the re-extraction are acceptable.
The results from the original extraction/analysis are reported.
Affected Samples:
F8E160282 (13): B1VDT5
F8E160282 (15): B1VDT1
F8E160282 (16): B1VDT9
F8E160282 (17): B1VDV5
F8E160282 (18): B1VDM1
F8E160282 (19): B1VDR8

Fluor Hanford Inc.
June 16, 2008
SDG: W05399

TPH Extractables

Batch: 8142462/8161206

Sample surrogate recovery is outside established QC limits. The sample was reprepared/reanalyzed outside holding time. The reanalysis yielded acceptable results. Both results are reported.
Affected Samples:
F8E160282 (18): B1VDM1

ICP Metals

Batch: 8143049

The samples were analyzed at a dilution due to high and low concentrations of target and interfering analytes. The reporting limit has been adjusted for the dilution.

The MS and/or MSD recovery for Barium and Zinc are outside the established QC limits. The RPD is within method acceptance criteria indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.
Affected Samples:
F8E160282 (13): B1VDT5
F8E160282 (15): B1VDT1
F8E160282 (16): B1VDT9
F8E160282 (17): B1VDV5
F8E160282 (18): B1VDM1
F8E160282 (19): B1VDR8

There were no observations or nonconformances for the following methods:

Mercury
PCBs
Sulfides

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

Reviewed and approved:

Michael Franks
St. Louis Project Manager

Problems and Discrepancies

SDG W05399
TASL

1) The VOA analysis discussion is missing from the narrative. Please correct the narrative and reissue the hardcopy data package.

Response: Page two of the Case Narrative was inadvertently omitted from the data package. The missing page is included in the revised data package.

METHODS SUMMARY

F8E160282

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Extractable Petroleum Hydrocarbons	SW846 8015 MOD	SW846 3550
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
PCBs by SW-846 8082	SW846 8082	SW846 3550B/366
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3550B
Sulfides, Total 9030B/9034	SW846 9030B/903	SW846 9030B/903
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B	
Volatile Organics by GC/MS	SW846 8260B	SW846 5035

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

F8E160282

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
KND7M	001	B1VDL9	05/12/08	09:15
KND9A	003	B1VDR6	05/12/08	10:45
KND9K	005	B1VDR9	05/12/08	10:45
KND9T	007	B1VDT3	05/12/08	13:10
KND90	009	B1VDT7	05/13/08	07:35
KND93	011	B1VDV3	05/13/08	10:00
KNEAE	013	B1VDT5	05/12/08	13:10
KNEA3	015	B1VDT1	05/12/08	10:45
KNECV	016	B1VDT9	05/13/08	07:35
KNEC1	017	B1VDV5	05/13/08	10:00
KNEC6	018	B1VDM1	05/12/08	09:15
KNEE6	019	B1VDR8	05/12/08	10:45

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

VTSG399 CUL 5386

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-031-146	PAGE 1 OF 2

COLLECTOR HGO Sampler KAUER, ROSANE, McINTYRE	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8N / **AIR QUALITY** ☐ / **DATA TURNAROUND** 45 Days / 45 Days
SAMPLING LOCATION 00743, I-001	**PROJECT DESIGNATION** 216-B-55 Supplemental Characterization		**SAF NO.** F08-031	
ICE CHEST NO. GWO-07-009	**FIELD LOGBOOK NO.** HNF-N-583-1 pg 1	**ACTUAL SAMPLE DEPTH** 3.4' to 5.8'	**COA** 123055J278	**METHOD OF SHIPMENT** FEDERAL EXPRESS
SHIPPED TO TestAmerica St. Louis	**OFFSITE PROPERTY NO.** SEE PTR		**BILL OF LADING/AIR BILL NO.** SEE PTR	

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDL8 or B1TFM2

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1VDL9	SOIL	05-12-08	09.15	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/[signature]	5-12-08 10:08	B-55 Site Ref	5-12-08 1008
B-55 Site Frig	5-14-08 11:00	Ed Kauer/[signature]	5-14-08 11:00
Ed Kauer/[signature]	5-14-08 1230	MO 745 Ref #1	5-14-08 1230
MO 745 Ref #1	5/15/08 11:00	DW Beatty/[signature]	5/15/08 11:00
DW Beatty/[signature]	5/15/08 13:00	FED Ex	
RD Ex		[signature]	5/16/08 1000

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

A-6003-618(01/06)

TestAmerica St. Louis

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Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-146	PAGE 2 OF 2
COLLECTOR CCO Sampler Kauer, Rosane, McIntyre	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION 6743, I-001	PROJECT DESIGNATION 216-B-55 Supplemental Characterization		SAF NO. F08-031	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO. PS HNF-N-583-1	ACTUAL SAMPLE DEPTH 3.4' to 5.9'	COA 123055J278	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR		

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be include as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}
(2)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

A-6003-618(01/06)

TestAmerica St. Louis

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Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-147	PAGE 1 OF 1
COLLECTOR RCO Sampler KAUER, ROSANE, McINTYRE	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION 05743, I-001	PROJECT DESIGNATION 216-B-55 Supplemental Characterization		SAF NO. F08-031	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO. GWO-07-009	FIELD LOGBOOK NO. Pg 1 HNF-N-583-1	ACTUAL SAMPLE DEPTH 3.4' to 5.8'	COA 123055J278	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDL8 or B1TFM2

PRESERVATION	Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1VDM0	SOIL	05-12-08	0915

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/[signature]	5-12-08 10:08	B-55 site Ref	5-12-08 10:08
B-55 site Ref	5-14-08 11:00	Ed Kauer/[signature]	5-14-08 1100
Ed Kauer/[signature]	5-14-08 1230	MO 745 Ref #1	5-14-08 1230
MO 745 - Ref #1	5/15/08 1100	DW Brothers/[signature]	5/15/08 1100
DW Brothers/[signature]	5/15/08 12:00	FED EX	
FED EX		[signature]	5/16 1106 1008
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

VAS 399

Fluor Hanford Inc.

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

F08-031-152

COLLECTOR RCO Sampler Kauer/Rosane/McIntyre	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION 08743, I-002	**PROJECT DESIGNATION** 216-B-55 Supplemental Characterization		**SAF NO.** F08-031
ICE CHEST NO. GWO-07-009	**FIELD LOGBOOK NO.** Pg 1 HNF-N-583-1	**ACTUAL SAMPLE DEPTH** 12.25 to 14.75	**COA** 123055J278
SHIPPED TO TestAmerica St. Louis	**OFFSITE PROPERTY NO.** SEE PTR		**BILL OF LADING/AIR BILL NO.** SEE PTR

PRICE CODE 8N

AIR QUALITY ☐

DATA TURNAROUND 45 Days / 45 Days

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDR5 or B1TFM3

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~4 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1VDR6	SOIL	5-12-08	1045	✓	✓
	LLH			731210	→

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/[signature]	5-12-08 1140	B-55 - Site Ref	5-12-08 1140
B-55 - Site Ref	5-14-08 11:00	Ed Kauer/[signature]	5-14-08 11:00
Ed Kauer/[signature]	5-14-08 1230	MO 745 Ref #1	5-14-08 1230
MO 745 Ref #1	5/15/08 11:00	DW Brothers/[signature]	5/15/08 11:00
DW Brothers/[signature]	5/15/8 13:00	Red Ex	
Red Ex		[signature]	5/16/08 1000

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

A-6003-618(01/06)

TestAmerica St. Louis

SDG# M5108

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-152	PAGE 2 OF 2
COLLECTOR CO Sampler Kanzer / Rissane, McIntyre	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION 8743, I-002	PROJECT DESIGNATION 216-B-55 Supplemental Characterization		SAF NO. F08-031	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO. Pg 1 HNF-N-583-1	ACTUAL SAMPLE DEPTH 12.25' to 14.25'	COA 123055J278	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR		

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** Lionville is the primary laboratory for Chrome VI and anions analyses.

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be include as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}
(2)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

A-6003-618(01/06)

TestAmerica St. Louis

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Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-153	PAGE 1 OF 1
COLLECTOR RCO Sampler Kauer, Rosane, McIntyre	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION S8743, I-002	PROJECT DESIGNATION 216-B-55 Supplemental Characterization		SAF NO. F08-031	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO. GWU-07-009	FIELD LOGBOOK NO. Pg 1 HNF-N-583-1	ACTUAL SAMPLE DEPTH 12.25 to 14.75'	COA 123055J278	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDR5 or B1TFM3

PRESERVATION	Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1VDR7	SOIL	05-12-08	10:45	✓
	Lot#			771210

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/[signature] 5-12-08	1140	B-55 site Ref 5-12-08	1140
B-55- Site Ref 5-14-08	11:00	Ed Kauer/[signature] 5-14-08	11:00
Ed Kauer/[signature] 5-14-08	1230	MO-745 Ref #1 5-14-08	1230
MO-745 Ref #1 5-15-08	11:10	DuBrothers Brothers 5/15/8	11:00
DuBrothers/Brothers 5/15/8	13:00	FED Ex	
FED Ex		[signature] 5/16/08	1000

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** Lionville is the primary laboratory for Chrome VI and anions analyses.

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

08399

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-157	PAGE 1 OF 1
COLLECTOR RIO Sampler Kauer, Rosane, McIntyre	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION 09743, I-002-DUP	PROJECT DESIGNATION 216-B-55 Supplemental Characterization		SAF NO. F08-031	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO. GWO-07-009	FIELD LOGBOOK NO. pg 2 HNF-N-583-1	ACTUAL SAMPLE DEPTH 12.25 to 14.75'	COA 123055J278	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDR5 or B1TFM3

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	aGs*	aGs*	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME									
B1VDR9	SOIL	05-12-08	1045	✓	✓							

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / [signature] 5-12-08	1140	B-55 Site Ref 5-12-08	1140
B-55 Site Ref 5-14-08	1100	Ed Kauer / [signature] 5-14-08	1100
Ed Kauer / [signature] 5-14-08	1230	MO 745 Ref #1 5-14-08	1230
MO 745 Ref #1 5/15/08	11:00	[signature]	5/15/08 11:00
[signature] 5/15/08	13:00	FED EX	
FED EX		[signature]	5/16/08 1000

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** Analytical batch QC must be run on a sample associated with this SAF.
(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}
(2)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

125

VPB399

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-031-158	PAGE 1 OF 1

COLLECTOR ICO Sampler Kawa/Rosine/McIntyre	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** WIDRIG, DL
SAMPLING LOCATION 06743, I-002-DUP	**PROJECT DESIGNATION** 216-B-55 Supplemental Characterization		**SAF NO.** F08-031
ICE CHEST NO. GWO-07-009	**FIELD LOGBOOK NO.** Pg 2 HNF-N-583-1	**ACTUAL SAMPLE DEPTH** 12.25 to 14.75'	**COA** 123055J278
SHIPPED TO TestAmerica St. Louis	**OFFSITE PROPERTY NO.** SEE PTR		**BILL OF LADING/AIR BILL NO.** SEE PTR

PRICE CODE 8N **DATA TURNAROUND** 45 Days / 45 Days

AIR QUALITY ☐

METHOD OF SHIPMENT FEDERAL EXPRESS

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tle To: B1VDR5 or B1TFM3

PRESERVATION	Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1VDT0	SOIL	05-12-08	10:45	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kawa/[signature]	5-12-08 1140	B55 site Ref	5-12-08 1140
B-55 site Ref	5-14-08 1100	Ed Kawa/[signature]	5-14-08 1100
Ed Kawa/[signature]	5-14-08 1230	MO-745 Ref #1	5-14-08 1230
MO-745 Ref #1	5/15/08 11:00	DW Brothers/[signature]	5/15/08 11:00
DW Brothers/[signature]	5/15/08 13:00	FED EX	
FED EX		[signature]	5/16/08 1200

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** Analytical batch QC must be run on a sample associated with this SAF. (1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

A-6003-618(01/06)

TestAmerica St. Louis

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Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-163	PAGE 1 OF 2
COLLECTOR KEO Sampler/KAUER, ROSANE, MCINTYRE	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION C9743, I-003	PROJECT DESIGNATION 216-B-55 Supplemental Characterization		SAF NO. F08-031	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO. GWO-07-009	FIELD LOGBOOK NO. pg 1 HNF-N-583-1	ACTUAL SAMPLE DEPTH 17.3 to 19.8'	COA 123055J278	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDT2 or B1TFM4

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER 5-15-08	aGs*	aGs*	
NO. OF CONTAINER(S)	7	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1VDT3	SOIL	5-12-08	1310	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/[signature]	5-12-08 1355	B-55 Site Ref	5-12-08 1355
B-55 Site Ref	5-14-08 11:00	Ed Kauer/[signature]	5-14-08 11:00
Ed Kauer/[signature]	5-14-08 1230	MO 745 Ref #3	5-14-08 1230
MO 745 Ref #3	5/15/8 11:00	Dan Brothers/[signature]	5/15/08 11:00
Dan Brothers/[signature]	5/15/08 1310	KEO Ex	
RD Ex		[signature]	5/16/08 1000

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

SDG# W5S98

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-163	PAGE 2 OF 2
COLLECTOR CO Sampler KAUER, ROSAN'e, MCINTYRE	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N AIR QUALITY ☐	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION 6743, I-003	PROJECT DESIGNATION 216-B-55 Supplemental Characterization		SAF NO. F08-031		
ICE CHEST NO.	FIELD LOGBOOK NO. Pg 1 1HNF-N-585-1	ACTUAL SAMPLE DEPTH 17.3' to 19.8'	COA 123055J278	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR		

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be include as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}
(2)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

A-6003-618(01/06)

TestAmerica St. Louis

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-164	PAGE 1 OF 1
COLLECTOR NCO Sampler/KAUER, ROSANE, MCINTYRE	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION 00743, I-003	PROJECT DESIGNATION 216-B-55 Supplemental Characterization		SAF NO. F08-031	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO. GWO-07-009	FIELD LOGBOOK NO. Pg 1 HNF-N-583-1	ACTUAL SAMPLE DEPTH 17.3' to 19.8'	COA 123055J278	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDT2 or B1TFM4

PRESERVATION	Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1VDT4	SOIL	05-12-08	13:10	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer	5-12-08 1355	B-55 Site Ref	5-12-08 1355
B-55 Site Frig	5-14-08 11:00	Ed Kauer	5-14-08 11:00
Ed Kauer	5-14-08 1230	M0-745 Ref #3	5/14/08 1230
M0-745 Ref #3	5/15/08 11:00		5/15/08 11:00
	5/15/08 13:00	Fed Ex	
Fed Ex			5/16/08 1400

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

083399

SDG# MG5168

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-031-169	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
NSO Sampler KAUER, ROSANE, McINTYRE	TRENT, SJ	373-5869	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	45 Days / 45 Days
8743, I-004	216-B-55 Supplemental Characterization		F08-031		
ICE CHEST NO.	**FIELD LOGBOOK NO.** PS 2	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
GWO-07-009	HNF-N-583-1	27.5' - 30'	123055J278	FEDERAL EXPRESS	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
TestAmerica St. Louis	SEE PTR		SEE PTR		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDT6 or B1TFM2

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	aGs*	aGs*	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1VDT7	SOIL	5-13-08	0735	✓	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
ARMcIntyre/[signature]	5-13-08 0830	B-55 site Ref	5-13-08 0830
B-55 site Ref	5/14/08 1100	ARMcIntyre/[signature]	5/14/08 1100
ARMcIntyre [signature]	5/14/08 1230	M0 745 Ref #	5/14/08 1230
M0 745 Ref #	5/15/08 11:00	[signature]/[signature]	5/15/08 11:00
[signature]/[signature]	5/15/08 13:45	FED Ex	
FED Ex		[signature]	5/16/08 1000
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

19 0125

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-169	PAGE 2 OF 2
COLLECTOR RCO Sampler KAUER, ROSANO, McINTYRE	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION [illegible]743, I-004	PROJECT DESIGNATION 216-B-55 Supplemental Characterization		SAF NO. F08-031	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.	FIELD LOGBOOK NO. Pg 2 HNF-N-583-1	ACTUAL SAMPLE DEPTH 27.5' - 30'	COA 123055J278	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR		

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** Lionville is the primary laboratory for Chrome VI and anions analyses.

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be include as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}
(2)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

A-6003-618(01/06)

TestAmerica St. Louis

08-399

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-170	PAGE 1 OF 2
COLLECTOR ECO Sampler Kauer, Rosane McIntyre	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N AIR QUALITY ☐	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION 06743, I-004	PROJECT DESIGNATION 216-B-55 Supplemental Characterization		SAF NO. F08-031		
ICE CHEST NO. GWO-07-009	FIELD LOGBOOK NO. PS2 HNF-N-583-1	ACTUAL SAMPLE DEPTH 27.5' - 30'	COA 123055J278	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDT6 or B1TFM2

PRESERVATION	Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1VDT8	SOIL	5-13-08	0735	✓

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
AR McIntyre / ARMcIntyre	5-13-08 0830	B-55 site Ref	5-13-08 0830
B-55 site Ref	5-14-08 1100	ARMcIntyre / ARMcIntyre	5/14/08 1100
ARMcIntyre / ARMcIntyre	5/14/08 1230	M0745 REF # 1	5/14/08 1230
M0745 REF # 1	5/14/08 11:00	DW Beckett / DW Beckett	5/15/8 11:00
DW Beckett / DW Beckett	5/15/08 13:00	FED EX	
FED EX		[illegible]	5/16/08 1[illegible]

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

125

SDG# W8 5 9 6

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-170	PAGE 2 OF 2
COLLECTOR RCO Sampler KAUER, ROSANE, McINTYRE	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N AIR QUALITY ☐	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION 6743, I-004	PROJECT DESIGNATION 216-B-55 Supplemental Characterization		SAF NO. F08-031		
ICE CHEST NO.	FIELD LOGBOOK NO. Pg 2 HNF-N-583-1	ACTUAL SAMPLE DEPTH 27.5' - 30'	COA 123055J278	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR		

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** Lionville is the primary laboratory for Chrome VI and anions analyses.

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be include as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

A-6003-618(01/06)

TestAmerica St. Louis

108-399

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-177	PAGE 1 OF 2
COLLECTOR: RCO Sampler Kauer, Rosane, McIntyre	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND
SAMPLING LOCATION: 06743, I-005	PROJECT DESIGNATION: 216-B-55 Supplemental Characterization		SAF NO.: F08-031	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.: GWO-07-009	FIELD LOGBOOK NO.: HNF-N-583-1 Pg 2	ACTUAL SAMPLE DEPTH: 47.8'- 50.3'	COA: 123055J278	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: SEE PTR		BILL OF LADING/AIR BILL NO.: SEE PTR		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDV2 or B1TFM6

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~4 C	
TYPE OF CONTAINER	aGs*	aGs*	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1VDV3	SOIL	5-13-08	1000	✓	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
AR McIntyre / [signature]	5-13-08 1045	B-55 site Ref	5-13-08 1045
B-55 site Ref	5-14-08 1100	AR McIntyre / [signature]	5/14/08 1100
AR McIntyre / [signature]	5/14/08 1230	M0745 Refer #1	5/14/08 1230
M0745 Refer #1	5/15/08 11:00	[signature]	5/15/08 11:00
[signature]	5/15/08 11:00	Fed Ex	
Fed Ex		[signature]	5/16/08 1000

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

125

SDG# WC5999

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-177	PAGE 2 OF 2
COLLECTOR CO Sampler Kaye, Rosane, McIntyre	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N AIR QUALITY ☐	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION 9743, I-005	PROJECT DESIGNATION 216-B-55 Supplemental Characterization		SAF NO. F08-031		
ICE CHEST NO.	FIELD LOGBOOK NO. Pg 2 HNF N-587-1	ACTUAL SAMPLE DEPTH 47.8' - 50.3'	COA 123055J278	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR		

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be include as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}
(2)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

A-6003-618(01/06)

TestAmerica St. Louis

VTSR399

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-031-178	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
NEO Sampler Karen, Rosanne, McIntyre	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
08743, I-005	216-B-55 Supplemental Characterization		F08-031		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
GWO-07-009	HNF-N-583-1 Pg 2	47.8' - 50.3'	123055J278	FEDERAL EXPRESS	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
TestAmerica St. Louis	SEE PTR		SEE PTR		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDV2 or B1TFM6

PRESERVATION	Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1VDV4	SOIL	5-13-08	1000	✓	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
AR McIntyre / [signature]	5-13-08 1045	B-55 site Ref	5-13-08 1045
B-55 site Ref.	5/14/08 1100	AR McIntyre / [signature]	5/14/08 1100
AR McIntyre / [signature]	5/14/08 1230	MO 745 Refer #2	5/14/08 1230
MO-745 REF #2	5/15/8 11:00	DW Bentley / [signature]	5/15/8 11:15
[signature] / DW Bentley	5/15/8 13:00	FED EX	
FED EX		[signature]	5/16/08 1000
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

10399

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-165	PAGE 1 OF 1
COLLECTOR: RIO Sampler KAUER, ROSANE, McINTYRE	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND
SAMPLING LOCATION: 00743, I-003	PROJECT DESIGNATION: 216-B-55 Supplemental Characterization		SAF NO.: F08-031	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.: GWO-07-009	FIELD LOGBOOK NO.: HNF-N-583-1 Pg 1	ACTUAL SAMPLE DEPTH: 17.3' to 19.8'	COA: 123055J278	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: SEE PTR		BILL OF LADING/AIR BILL NO.: SEE PTR		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDT2 or B1TFM4

PRESERVATION			Cool~4C	Cool~4C	Cool~4C	Cool~4C	Cool~4C				
TYPE OF CONTAINER			aG	aG	aG	G/P	G				
NO. OF CONTAINER(S)			1	1	1	1	1				
VOLUME			120mL	120mL	120mL	120mL	60mL				
SAMPLE ANALYSIS			Semi-VOA - 8270B (Add-On) {Tributyl phosphate} (1)	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS (2)	Sulfides - 9030;				
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME								
B1VDT5	SOIL	5-12-08	13:10	✓	✓	✓	✓	✓			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / [signature]	5-12-08 1355	B-55 Site Ref	5-12-08 13:55
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
B-55 Site Ref	5-14-08 11:00	Ed Kauer / [signature]	5-14-08 11:00
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / [signature]	5-14-08 1230	MO 745 Ref #3	5-14-08 1230
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
MO 745 Ref #3	5/15/08 11:00	[signature] / [signature]	5/15/08 11:00
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature] / [signature]	5/15/08 13:00	FED EX	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
FED EX		[signature]	5/16/08 1000
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** Analytical batch QC must be run on a sample associated with this SAF.
(1)TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(2)ICP Metals - 6010B (Supertrace) {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver} ICP Metals - 6010B (Supertrace Add-On) {Beryllium, Copper, Nickel, Zinc} Mercury - 7471 - (CV);
(1) Shipped 5-15-08
(2) Not Shipped

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

SDG# W0583 399 38

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-185	PAGE 1 OF 1
COLLECTOR: Kauer, Rosane, McIntyre	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND: 45 Days / 45 Days
SAMPLING LOCATION: 9955, Original VOA	PROJECT DESIGNATION: 216-B-55 Supplemental Characterization		SAF NO.: F08-031	AIR QUALITY: ☐	
ICE CHEST NO.: GWO-07-009	FIELD LOGBOOK NO.: HNF-N-583-1 PS 2	ACTUAL SAMPLE DEPTH	COA: 123055J278	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: See PTR		BILL OF LADING/AIR BILL NO.: See PTR		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS: Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	MEOH/Cool~4 C
TYPE OF CONTAINER	aG
NO. OF CONTAINER(S)	1
VOLUME	120mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1VFD1	SOIL	5-13-08	13:00	✓

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Edhron/[illegible]	5-13-08 1529	MO-745 Ref #3	5-13-08 1529
MO745 Ref #3	5/15/08 11:00	DW Brothers/[illegible]	5/15/08 11:00
DW Brothers/[illegible]	5/15/08 13:00	Fed Ex	
Fed Ex		[illegible]	5/16/08 1000

SPECIAL INSTRUCTIONS

(1)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, Acetonitrile, Hexane, Tetrahydrofuran}

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-159	PAGE 1 OF 1
COLLECTOR ECO Sampler Kauer, Rosanne, McIntyre	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N AIR QUALITY ☐	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION 06743, I-002-DUP	PROJECT DESIGNATION 216-B-55 Supplemental Characterization		SAF NO. F08-031		
ICE CHEST NO. SAWS-109	FIELD LOGBOOK NO. Pg 2 HNF-N-583-1	ACTUAL SAMPLE DEPTH 12.25' to 14.75'	COA 123055J278	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR 7984 4247 7111		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDR5 or B1TFM3

PRESERVATION	Cool~4C	Cool~4C	Cool~4C	Cool~4C	Cool~4C						
TYPE OF CONTAINER	aG	aG	aG	G/P	G						
NO. OF CONTAINER(S)	1	1	1	1	1						
VOLUME	120mL	120mL	120mL	120mL	60mL						
SAMPLE ANALYSIS	Semi-VOA - 8270B (Add-On) (Tributyl phosphate)	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Sulfides - 9030;						

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1VDT1	SOIL	05-12-08	1045	✓	✓	✓	✓	✓					

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer	5-12-08 1140	B-55 Site Ref	5-12-08 1140
B-55 Site Ref	5-14-08 1100	Ed Kauer	5-14-08 1100
Ed Kauer	5-14-08 1230	MO 745 Ref #1	5-14-08 1230
MO745 Ref 1	5-15-8 1100	DConnolly	5-15-8 1100
DConnolly	5-15-8 1500	Fed Ex	
Fed Ex			5/16/08 (OW)

SPECIAL INSTRUCTIONS

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** Analytical batch QC must be run on a sample associated with this SAF.
(1)TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(2)ICP Metals - 6010B (Supertrace) {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver} ICP Metals - 6010B (Supertrace Add-On) {Beryllium, Copper, Nickel, Zinc} Mercury - 7471 - (CV);

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

58-399

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-171	PAGE 1 OF 2
COLLECTOR: ECO Sampler KAVER, ROSANE, McINTYRE	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND
SAMPLING LOCATION: C6743, I-004	PROJECT DESIGNATION: 216-B-55 Supplemental Characterization		SAF NO.: F08-031	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.: SAWJ-109	FIELD LOGBOOK NO.: HNF-N-583-1	ACTUAL SAMPLE DEPTH: 27.5'-30'	COA: 1230553278	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: SEE PTR		BILL OF LADING/AIR BILL NO.: SEE PTR 7984 4247 7111		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDT6

PRESERVATION	Cool~4C	Cool~4C	Cool~4C	Cool~4C	Cool~4C						
TYPE OF CONTAINER	aG	aG	aG	G/P	G						
NO. OF CONTAINER(S)	1	1	1	1	1						
VOLUME	120mL	120mL	120mL	120mL	60mL						
SAMPLE ANALYSIS	Semi-VOA - 82700 (Add-On) (Tributyl phosphate)	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Sulfides - 9030;						

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1VDT9	SOIL	5-13-08	0735	✓	✓	✓	✓	✓					

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
AR McIntyre / [illegible]	5-13-08 0830	B-55 site Ref	5-13-08 0830
B-55 site Ref	5-14-08 1100	AR McIntyre / [illegible]	5/14/08 1100
AR McIntyre / [illegible]	5/14/08 1230	M0745 Ref #1	5/14/08 1230
M0745 Ref #1	5-15-8 1100	D Connolly [illegible]	5-15-8 1100
D Connolly [illegible]	5-15-8 1300	Fed Ex	
Fed Ex		[illegible]	5/16/08 1000

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

SDG# SW8 5 9 6

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-171	PAGE 2 OF 2
COLLECTOR RCO Sampler Kayser, McIntyre, Rosane	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION 5743, I-004	PROJECT DESIGNATION 216-B-55 Supplemental Characterization		SAF NO. F08-031	AIR QUALITY ☐	
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-583-1 Pg 2	ACTUAL SAMPLE DEPTH 27.5'-30'	COA 123055J278	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR		

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** Lionville is the primary laboratory for Chrome VI and anions analyses.

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with an appended suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be include as part of the sample ID reported in the final data packages.
(1)TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(2)ICP Metals - 6010B (Supertrace) {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver} ICP Metals - 6010B (Supertrace Add-On) {Beryllium, Copper, Nickel, Zinc} Mercury - 7471 - (CV);

A-6003-618(01/06)

TestAmerica St. Louis

ID 99

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-179	PAGE 1 OF 1
COLLECTOR: RCO Sampler Hauge, Rosanne, McIntyre	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND
SAMPLING LOCATION: 06743, I-005	PROJECT DESIGNATION: 216-B-55 Supplemental Characterization		SAF NO.: F08-031	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.: SAWS-109	FIELD LOGBOOK NO.: HNF-N-583-1 PS 2	ACTUAL SAMPLE DEPTH: 47.8'-50.3'	COA: 123055J278	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: SEE PTR		BILL OF LADING/AIR BILL NO.: SEE PTR 7984 4247 7111		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDV2 or B1TFM6

PRESERVATION	Cool~4C	Cool~4C	Cool~4C	Cool~4C	Cool~4C						
TYPE OF CONTAINER	aG	aG	aG	G/P	G						
NO. OF CONTAINER(S)	1	1	1	1	1						
VOLUME	120mL	120mL	120mL	120mL	60mL						
SAMPLE ANALYSIS	Semi-VOA - 8270B (Add-On) {Tributyl phosphate}	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Sulfides - 9030;						

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1VDV5	SOIL	5-13-08	1000	✓	✓	–	–	–					

CHAIN OF POSSESSION — **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
AR McIntyre / [signature]	5-13-08 1045	B-55 site Ref	5-13-08 1045
B-55 site Ref	5/14/08 1100	AR McIntyre / [signature]	5/14/08 1100
AR McIntyre / [signature]	5/14/08 1230	MO 745 Refer #1	5/14/08 1230
MO745 Ref 1	5-15-8 1100	D Connolly [signature]	5-15-8 1100
D Connolly [signature]	5-15-8 1300	Fed Ex	
Fed Ex		B-Dr	5/16/08 1000
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** Analytical batch QC must be run on a sample associated with this SAF.
(1)TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(2)ICP Metals - 6010B (Supertrace) {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver} ICP Metals - 6010B (Supertrace Add-On) {Beryllium, Copper, Nickel, Zinc} Mercury - 7471 - (CV);

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F08-031-148	PAGE 1 OF 1
COLLECTOR: RCO Sampler KAVER, ROSANE, MCINTYRE	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8N	DATA TURNAROUND
SAMPLING LOCATION: 06743, I-001	PROJECT DESIGNATION: 216-B-55 Supplemental Characterization		SAF NO.: F08-031	AIR QUALITY ☐	45 Days / 45 Days
ICE CHEST NO.: SAWJ-109	FIELD LOGBOOK NO.: HNF-N-583-1 Pg 1	ACTUAL SAMPLE DEPTH: 3.4' to 5.9'	COA: 123055J278	METHOD OF SHIPMENT: FEDERAL EXPRESS	
SHIPPED TO: TestAmerica St. Louis	OFFSITE PROPERTY NO.: SEE PTR		BILL OF LADING/AIR BILL NO.: SEE PTR 7984 4247 7111		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, W=Water, WI=Wipe, X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDL8 or B1TFM2

PRESERVATION				Cool~4C	Cool~4C	Cool~4C	Cool~4C	Cool~4C			
TYPE OF CONTAINER				aG	aG	aG	G/P	G			
NO. OF CONTAINER(S)				1	1	1	1	1			
VOLUME				120mL	120mL	120mL	120mL	60mL			
SAMPLE ANALYSIS				Semi-VOA - 8270B (Add-On) (Tributyl phosphate)	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Sulfides - 9030;			
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME								
B1VDM1	SOIL	05-12-08	0915	✓	✓	✓	✓	✓			
	LCT #			028787							

CHAIN OF POSSESSION — SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kaver / [signature]	5-12-08 1008	B-55 Site Ref	5-12-08 10:08
B-55 Site Ref	5-14-08 11:00	Ed Kaver / [signature]	5-14-08 1100
Ed Kaver / [signature]	5-14-08 1230	M0745 Ref # 1	5-14-08 1230
M0745 Ref 1	5-15-8 1100	D Connolly [signature]	5-15-8 1100
D Connolly [signature]	5-15-8 1300	Fed Ex	
Fed Ex		[signature]	5/16/08 100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
(1)TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(2)ICP Metals - 6010B (Supertrace) {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver} ICP Metals - 6010B (Supertrace Add-On) {Beryllium, Copper, Nickel, Zinc} Mercury - 7471 - (CV);

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

VOA 394

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F08-031-154	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
RCO Sampler Kauen, Rosave, McIntyre	TRENT, SJ	373-5869	WIDRIG, DL	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
00743, I-002	216-B-55 Supplemental Characterization		F08-031		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
SAWS-109	HNF-N-583-1 Pg 1	12.25' to 14.75'	123055J278	FEDERAL EXPRESS	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
TestAmerica St. Louis	SEE PTR		SEE PTR 7984 4247 7111		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE
Radioactive Tie To: B1VDR5 or B1TFM3

PRESERVATION			Cool~4C	Cool~4C	Cool~4C	Cool~4C	Cool~4C				
TYPE OF CONTAINER			aG	aG	aG	G/P	G				
NO. OF CONTAINER(S)			1	1	1	1	1				
VOLUME			120mL	120mL	120mL	120mL	60mL				
SAMPLE ANALYSIS			Semi-VOA - B270B (Add-On) {Tributyl phosphate}	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	Sulfides - 9030;				
SAMPLE NO.	**MATRIX***	**SAMPLE DATE**	**SAMPLE TIME**								
B1VDR8	SOIL	05-12-08	10:45	✓	✓	✓	✓	✓			
	Lot #			028884	028784	→		024870			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauen / [signature]	5-12-08 1140	B-55 Site REF	5-12-08 1140
B-55 Site Ref	5-14-08 11:00	Ed Kauen / [signature]	5-14-08 1100
Ed Kauen / [signature]	5-14-08 1230	MO 745 Ref #1	5-14-08 1230
MO 745 Ref 1	5-15-8 1100	D Connolly [signature]	5-15-8 1100
D Connolly [signature]	5-15-8 1300	Fed Ex	
Fed Ex		[signature]	5/16/08 1000
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** TestAmerica St Louis is the primary lab for all chemical analyses with the exception of Anions by method 300.0
** Lionville is the primary laboratory for Chrome VI and anions analyses.

** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.

** Analytical batch QC must be run on a sample associated with this SAF.
** All VOA samples will be collected using EPA Method 5035A.
(1)TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(2)ICP Metals - 6010B (Supertrace) {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver} ICP Metals - 6010B (Supertrace Add-On) {Beryllium, Copper, Nickel, Zinc} Mercury - 7471 - (CV);

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

A-6003-618(01/06)

TestAmerica St. Louis

Track Shipments/FedEx Kinko's Orders

Detailed Results

Tracking number	798442477111	**Reference**	M8200 123055 J278
Signed for by	B.DANIELS	**Destination**	EARTH CITY, MO
Ship date	May 15, 2008	**Delivered to**	Shipping/Receiving
Delivery date	May 16, 2008 9:54 AM	**Service type**	Priority Overnight
		Weight	41.0 lbs.

Status Delivered

Signature image available Yes

Date/Time		Activity	Location
May 16, 2008	9:54 AM	**Delivered**	EARTH CITY, MO
	8:13 AM	On FedEx vehicle for delivery	EARTH CITY, MO
	6:47 AM	At local FedEx facility	EARTH CITY, MO
	5:58 AM	At dest sort facility	BERKELEY, MO
	4:29 AM	Departed FedEx location	MEMPHIS, TN
	12:53 AM	Arrived at FedEx location	MEMPHIS, TN
May 15, 2008	5:43 PM	Left origin	PASCO, WA
	3:22 PM	Picked up	PASCO, WA
	1:46 PM	Package data transmitted to FedEx	

Signature proof | E-mail results | Track more shipments/o

Subscribe to tracking updates (optional)

Your name: **Your e-mail address:**

E-mail address	**Language**	**Exception updates**
	English	
	English	
	English	
	English	

Select format: HTML Text Wireless

Add personal message:

Not available for Wireless or non-English characters.

By selecting this check box and the Submit button, I agree to these Terms and Conditions

Track Shipments/FedEx Kinko's Orders

Detailed Results

Tracking number	791902210501	**Reference**	M8200 123055 J278 H00370
Signed for by	B.DANIELS		
Ship date	May 15, 2008	**Destination**	Earth City, MO
Delivery date	May 16, 2008 9:54 AM	**Delivered to**	Shipping/Receiving
		Service type	Priority Overnight
		Weight	40.0 lbs.

Status Delivered

Signature image available Yes

Date/Time		Activity	Location
May 16, 2008	9:54 AM	**Delivered**	Earth City, MO
	8:13 AM	On FedEx vehicle for delivery	EARTH CITY, MO
	6:47 AM	At local FedEx facility	EARTH CITY, MO
	5:58 AM	At dest sort facility	BERKELEY, MO
	4:29 AM	Departed FedEx location	MEMPHIS, TN
	12:53 AM	Arrived at FedEx location	MEMPHIS, TN
May 15, 2008	5:43 PM	Left origin	PASCO, WA
	4:28 PM	Package data transmitted to FedEx	
	3:22 PM	Picked up	PASCO, WA

Signature proof | E-mail results | Track more shipments/o

Subscribe to tracking updates (optional)

Your name: **Your e-mail address:**

E-mail address	**Language**	**Exception updates**
	English	
	English	
	English	
	English	

Select format: HTML Text Wireless

Add personal message:

Not available for Wireless or non-English characters.

By selecting this check box and the Submit button, I agree to these Terms and Conditions

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): - 3388 - F8E160287 310

Condition Upon Receipt Form

Client: Hanford
Quote No: 76640, 79517
COC/RFA No: See below
Initiated By: GA
Date: 5/16/08
Time: 1600

Shipping Information

Shipper Name: FE

Multiple Packages (Y) N

Shipping # (s):*

1. 7919 0221 0501
2. 7984 4247 7111
3.
4.
5.
6.
7.
8.
9.
10.

Sample Temperature (s):**

1. 4
2. 3
3.
4.
5.
6.
7.
8.
9.
10.

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	(Y) N	Are there custody seals present on the cooler?	8.	(Y) N	Are there custody seals present on bottles?
2.	Y (N) N/A	Do custody seals on cooler appear to be tampered with?	9.	Y (N) N/A	Do custody seals on bottles appear to be tampered with?
3.	(Y) N	Were contents of cooler frisked after opening, but before unpacking?	10.	Y N (N/A)	Was sample received with proper pH[1]? (If not, make note below)
4.	(Y) N	Sample received with Chain of Custody?	11.	Y N	If N/A- Was pH taken by original TestAmerica lab?
5.	(Y) N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12.	(Y) N	Sample received in proper containers?
6.	Y (N)	Was sample received broken?	13.	Y (N) N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
7.	(Y) N	Is sample volume sufficient for analysis?	14.	Y N	Was Internal COC/Workshare received?

[1] For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes: F08-031-146, 147, 152, 153, 157, 158, 163, 164, 169, 170, 177, 178, 165, 185, 159, 171, 179, 154, 148

F08-033-021, 023

Corrective Action:

☐ Client Contact Name: Informed by:
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: If released, notify:
Project Management Review: Date: 05-18-08

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004, REVISED 08/06/07\\Slnw01\QA\FORMS\ST LOUIS\ADMIN\Admin004 rev11.doc

GC/MS VOLATILES

Fluor Hanford Inc

Client Sample ID: B1VDL9

GC/MS Volatiles

Lot-Sample #...: F8E160282-001 **Work Order #...:** KND7M1AA **Matrix.....:** SOLID
Date Sampled...: 05/12/08 **Date Received..:** 05/16/08
Prep Date.....: 05/22/08 **Analysis Date..:** 05/23/08
Prep Batch #...: 8144301
Dilution Factor: 1
% Moisture.....: **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	20	ug/kg	1.7
Acetonitrile	ND	50	ug/kg	5.4
Benzene	ND	5.0	ug/kg	0.087
Bromodichloromethane	ND	5.0	ug/kg	0.21
Bromoform	ND	5.0	ug/kg	0.059
Bromomethane	ND	10	ug/kg	0.13
1-Butanol	ND	100	ug/kg	9.0
2-Butanone	ND	20	ug/kg	0.87
n-Butylbenzene	ND	5.0	ug/kg	0.18
Carbon disulfide	ND	5.0	ug/kg	0.12
Carbon tetrachloride	ND	5.0	ug/kg	0.20
Chlorobenzene	ND	5.0	ug/kg	0.11
Dibromochloromethane	ND	5.0	ug/kg	0.12
Chloroethane	ND	10	ug/kg	0.46
Chloroform	ND	5.0	ug/kg	0.10
Chloromethane	ND	10	ug/kg	0.27
Cyclohexanone	**72 J,B**	**100**	**ug/kg**	**3.2**
1,1-Dichloroethane	ND	5.0	ug/kg	0.070
1,2-Dichloroethane	ND	5.0	ug/kg	0.066
1,1-Dichloroethene	ND	5.0	ug/kg	0.12
cis-1,2-Dichloroethene	ND	5.0	ug/kg	0.054
trans-1,2-Dichloroethene	ND	5.0	ug/kg	0.090
1,2-Dichloroethene (total)	ND	10	ug/kg	0.11
1,2-Dichloropropane	ND	5.0	ug/kg	0.11
cis-1,3-Dichloropropene	ND	5.0	ug/kg	0.10
trans-1,3-Dichloropropene	ND	5.0	ug/kg	0.10
Ethylbenzene	ND	5.0	ug/kg	0.058
n-Hexane	ND	10	ug/kg	0.90
2-Hexanone	ND	20	ug/kg	0.24
Methylene chloride	ND	5.0	ug/kg	0.69
4-Methyl-2-pentanone	ND	20	ug/kg	0.29
Styrene	ND	5.0	ug/kg	0.17
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	0.078
Tetrachloroethene	ND	5.0	ug/kg	0.087
Toluene	ND	5.0	ug/kg	0.32
1,1,1-Trichloroethane	ND	5.0	ug/kg	0.10
1,1,2-Trichloroethane	ND	5.0	ug/kg	0.067

(Continued on next page)

Fluor Hanford Inc

Client Sample ID: B1VDL9

GC/MS Volatiles

Lot-Sample #...: F8E160282-001 **Work Order #...:** KND7M1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichloroethene	ND	5.0	ug/kg	0.10
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	0.13
Vinyl chloride	ND	5.0	ug/kg	0.11
Xylenes (total)	**5.0 J**	**10**	**ug/kg**	**0.23**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	104	(42 - 150)
Dibromofluoromethane	106	(56 - 133)
1,2-Dichloroethane-d4	112	(50 - 143)
4-Bromofluorobenzene	97	(20 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Fluor Hanford Inc

B1VDL9

GC/MS Volatiles

Lot-Sample #: F8E160282-001 **Work Order #:** KND7M1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

Fluor Hanford Inc

Client Sample ID: B1VDR6

GC/MS Volatiles

Lot-Sample #...: F8E160282-003 **Work Order #...:** KND9A1AA **Matrix.....:** SOLID
Date Sampled...: 05/12/08 **Date Received..:** 05/16/08
Prep Date.....: 05/22/08 **Analysis Date..:** 05/23/08
Prep Batch #...: 8144301
Dilution Factor: 1
% Moisture.....: **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	20	ug/kg	1.7
Acetonitrile	ND	50	ug/kg	5.4
Benzene	ND	5.0	ug/kg	0.087
Bromodichloromethane	ND	5.0	ug/kg	0.21
Bromoform	ND	5.0	ug/kg	0.059
Bromomethane	ND	10	ug/kg	0.13
1-Butanol	ND	100	ug/kg	9.0
2-Butanone	ND	20	ug/kg	0.87
n-Butylbenzene	ND	5.0	ug/kg	0.18
Carbon disulfide	ND	5.0	ug/kg	0.12
Carbon tetrachloride	ND	5.0	ug/kg	0.20
Chlorobenzene	ND	5.0	ug/kg	0.11
Dibromochloromethane	ND	5.0	ug/kg	0.12
Chloroethane	ND	10	ug/kg	0.46
Chloroform	ND	5.0	ug/kg	0.10
Chloromethane	ND	10	ug/kg	0.27
Cyclohexanone	ND	100	ug/kg	3.2
1,1-Dichloroethane	ND	5.0	ug/kg	0.070
1,2-Dichloroethane	ND	5.0	ug/kg	0.066
1,1-Dichloroethene	ND	5.0	ug/kg	0.12
cis-1,2-Dichloroethene	ND	5.0	ug/kg	0.054
trans-1,2-Dichloroethene	ND	5.0	ug/kg	0.090
1,2-Dichloroethene (total)	ND	10	ug/kg	0.11
1,2-Dichloropropane	ND	5.0	ug/kg	0.11
cis-1,3-Dichloropropene	ND	5.0	ug/kg	0.10
trans-1,3-Dichloropropene	ND	5.0	ug/kg	0.10
Ethylbenzene	**1.0 J**	**5.0**	**ug/kg**	**0.058**
n-Hexane	ND	10	ug/kg	0.90
2-Hexanone	ND	20	ug/kg	0.24
Methylene chloride	ND	5.0	ug/kg	0.69
4-Methyl-2-pentanone	ND	20	ug/kg	0.29
Styrene	ND	5.0	ug/kg	0.17
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	0.078
Tetrachloroethene	ND	5.0	ug/kg	0.087
Toluene	ND	5.0	ug/kg	0.32
1,1,1-Trichloroethane	ND	5.0	ug/kg	0.10
1,1,2-Trichloroethane	ND	5.0	ug/kg	0.067

(Continued on next page)

Fluor Hanford Inc

Client Sample ID: B1VDR6

GC/MS Volatiles

Lot-Sample #...: F8E160282-003 **Work Order #...:** KND9A1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichloroethene	ND	5.0	ug/kg	0.10
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	0.13
Vinyl chloride	ND	5.0	ug/kg	0.11
Xylenes (total)	**5.4 J**	**10**	**ug/kg**	**0.23**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	99	(42 - 150)
Dibromofluoromethane	104	(56 - 133)
1,2-Dichloroethane-d4	114	(50 - 143)
4-Bromofluorobenzene	101	(20 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

Fluor Hanford Inc

B1VDR6

GC/MS Volatiles

Lot-Sample #: F8E160282-003 **Work Order #:** KND9A1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

Fluor Hanford Inc

Client Sample ID: B1VDR9

GC/MS Volatiles

Lot-Sample #...: F8E160282-005 **Work Order #...:** KND9K1AA **Matrix.....:** SOLID
Date Sampled...: 05/12/08 **Date Received..:** 05/16/08
Prep Date.....: 05/22/08 **Analysis Date..:** 05/23/08
Prep Batch #...: 8144301
Dilution Factor: 1
% Moisture.....: **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	20	ug/kg	1.7
Acetonitrile	ND	50	ug/kg	5.4
Benzene	ND	5.0	ug/kg	0.087
Bromodichloromethane	ND	5.0	ug/kg	0.21
Bromoform	ND	5.0	ug/kg	0.059
Bromomethane	ND	10	ug/kg	0.13
1-Butanol	ND	100	ug/kg	9.0
2-Butanone	ND	20	ug/kg	0.87
n-Butylbenzene	ND	5.0	ug/kg	0.18
Carbon disulfide	ND	5.0	ug/kg	0.12
Carbon tetrachloride	ND	5.0	ug/kg	0.20
Chlorobenzene	ND	5.0	ug/kg	0.11
Dibromochloromethane	ND	5.0	ug/kg	0.12
Chloroethane	ND	10	ug/kg	0.46
Chloroform	ND	5.0	ug/kg	0.10
Chloromethane	ND	10	ug/kg	0.27
Cyclohexanone	ND	100	ug/kg	3.2
1,1-Dichloroethane	ND	5.0	ug/kg	0.070
1,2-Dichloroethane	ND	5.0	ug/kg	0.066
1,1-Dichloroethene	ND	5.0	ug/kg	0.12
cis-1,2-Dichloroethene	ND	5.0	ug/kg	0.054
trans-1,2-Dichloroethene	ND	5.0	ug/kg	0.090
1,2-Dichloroethene (total)	ND	10	ug/kg	0.11
1,2-Dichloropropane	ND	5.0	ug/kg	0.11
cis-1,3-Dichloropropene	ND	5.0	ug/kg	0.10
trans-1,3-Dichloropropene	ND	5.0	ug/kg	0.10
Ethylbenzene	ND	5.0	ug/kg	0.058
n-Hexane	ND	10	ug/kg	0.90
2-Hexanone	ND	20	ug/kg	0.24
Methylene chloride	ND	5.0	ug/kg	0.69
4-Methyl-2-pentanone	ND	20	ug/kg	0.29
Styrene	ND	5.0	ug/kg	0.17
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	0.078
Tetrachloroethene	ND	5.0	ug/kg	0.087
Toluene	ND	5.0	ug/kg	0.32
1,1,1-Trichloroethane	ND	5.0	ug/kg	0.10
1,1,2-Trichloroethane	ND	5.0	ug/kg	0.067

(Continued on next page)

Fluor Hanford Inc

Client Sample ID: B1VDR9

GC/MS Volatiles

Lot-Sample #...: F8E160282-005 Work Order #...: KND9K1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichloroethene	ND	5.0	ug/kg	0.10
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	0.13
Vinyl chloride	ND	5.0	ug/kg	0.11
Xylenes (total)	**1.2 J**	**10**	**ug/kg**	**0.23**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	103	(42 - 150)
Dibromofluoromethane	103	(56 - 133)
1,2-Dichloroethane-d4	114	(50 - 143)
4-Bromofluorobenzene	96	(20 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

Fluor Hanford Inc

B1VDR9

GC/MS Volatiles

Lot-Sample #: F8E160282-005 **Work Order #:** KND9K1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		5.8	M	3.0769	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Fluor Hanford Inc

Client Sample ID: B1VDT3

GC/MS Volatiles

Lot-Sample #...: F8E160282-007 **Work Order #...:** KND9T1AA **Matrix.....:** SOLID
Date Sampled...: 05/12/08 **Date Received..:** 05/16/08
Prep Date.....: 05/22/08 **Analysis Date..:** 05/23/08
Prep Batch #...: 8144301
Dilution Factor: 1
% Moisture.....: **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	20	ug/kg	1.7
Acetonitrile	ND	50	ug/kg	5.4
Benzene	ND	5.0	ug/kg	0.087
Bromodichloromethane	ND	5.0	ug/kg	0.21
Bromoform	ND	5.0	ug/kg	0.059
Bromomethane	ND	10	ug/kg	0.13
1-Butanol	ND	100	ug/kg	9.0
2-Butanone	ND	20	ug/kg	0.87
n-Butylbenzene	ND	5.0	ug/kg	0.18
Carbon disulfide	ND	5.0	ug/kg	0.12
Carbon tetrachloride	ND	5.0	ug/kg	0.20
Chlorobenzene	ND	5.0	ug/kg	0.11
Dibromochloromethane	ND	5.0	ug/kg	0.12
Chloroethane	ND	10	ug/kg	0.46
Chloroform	ND	5.0	ug/kg	0.10
Chloromethane	ND	10	ug/kg	0.27
Cyclohexanone	ND	100	ug/kg	3.2
1,1-Dichloroethane	ND	5.0	ug/kg	0.070
1,2-Dichloroethane	ND	5.0	ug/kg	0.066
1,1-Dichloroethene	ND	5.0	ug/kg	0.12
cis-1,2-Dichloroethene	ND	5.0	ug/kg	0.054
trans-1,2-Dichloroethene	ND	5.0	ug/kg	0.090
1,2-Dichloroethene (total)	ND	10	ug/kg	0.11
1,2-Dichloropropane	ND	5.0	ug/kg	0.11
cis-1,3-Dichloropropene	ND	5.0	ug/kg	0.10
trans-1,3-Dichloropropene	ND	5.0	ug/kg	0.10
Ethylbenzene	ND	5.0	ug/kg	0.058
n-Hexane	ND	10	ug/kg	0.90
2-Hexanone	ND	20	ug/kg	0.24
Methylene chloride	**0.71 J,B**	**5.0**	**ug/kg**	**0.69**
4-Methyl-2-pentanone	ND	20	ug/kg	0.29
Styrene	ND	5.0	ug/kg	0.17
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	0.078
Tetrachloroethene	ND	5.0	ug/kg	0.087
Toluene	ND	5.0	ug/kg	0.32
1,1,1-Trichloroethane	ND	5.0	ug/kg	0.10
1,1,2-Trichloroethane	ND	5.0	ug/kg	0.067

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Fluor Hanford Inc

Client Sample ID: B1VDT3

GC/MS Volatiles

Lot-Sample #...: F8E160282-007 Work Order #...: KND9T1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichloroethene	ND	5.0	ug/kg	0.10
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	0.13
Vinyl chloride	ND	5.0	ug/kg	0.11
Xylenes (total)	0.98 J	10	ug/kg	0.23

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	96	(42 - 150)
Dibromofluoromethane	113	(56 - 133)
1,2-Dichloroethane-d4	118	(50 - 143)
4-Bromofluorobenzene	100	(20 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Fluor Hanford Inc

B1VDT3

GC/MS Volatiles

Lot-Sample #: F8E160282-007 **Work Order #:** KND9T1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

Fluor Hanford Inc

Client Sample ID: B1VDT7

GC/MS Volatiles

Lot-Sample #...: F8E160282-009 **Work Order #...:** KND901AA **Matrix.....:** SOLID
Date Sampled...: 05/13/08 **Date Received..:** 05/16/08
Prep Date.....: 05/22/08 **Analysis Date..:** 05/23/08
Prep Batch #...: 8144301
Dilution Factor: 1
% Moisture.....: **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	0.13
Vinyl chloride	ND	5.0	ug/kg	0.11
Xylenes (total)	ND	10	ug/kg	0.23
Acetone	ND	20	ug/kg	1.7
Acetonitrile	ND	50	ug/kg	5.4
Benzene	ND	5.0	ug/kg	0.087
Bromodichloromethane	ND	5.0	ug/kg	0.21
Bromoform	ND	5.0	ug/kg	0.059
Bromomethane	ND	10	ug/kg	0.13
1-Butanol	ND	100	ug/kg	9.0
2-Butanone	ND	20	ug/kg	0.87
n-Butylbenzene	ND	5.0	ug/kg	0.18
Carbon disulfide	ND	5.0	ug/kg	0.12
Carbon tetrachloride	ND	5.0	ug/kg	0.20
Chlorobenzene	ND	5.0	ug/kg	0.11
Dibromochloromethane	ND	5.0	ug/kg	0.12
Chloroethane	ND	10	ug/kg	0.46
Chloroform	ND	5.0	ug/kg	0.10
Chloromethane	ND	10	ug/kg	0.27
Cyclohexanone	ND	100	ug/kg	3.2
1,1-Dichloroethane	ND	5.0	ug/kg	0.070
1,2-Dichloroethane	ND	5.0	ug/kg	0.066
1,1-Dichloroethene	ND	5.0	ug/kg	0.12
cis-1,2-Dichloroethene	ND	5.0	ug/kg	0.054
trans-1,2-Dichloroethene	ND	5.0	ug/kg	0.090
1,2-Dichloroethene (total)	ND	10	ug/kg	0.11
1,2-Dichloropropane	ND	5.0	ug/kg	0.11
cis-1,3-Dichloropropene	ND	5.0	ug/kg	0.10
trans-1,3-Dichloropropene	ND	5.0	ug/kg	0.10
Ethylbenzene	ND	5.0	ug/kg	0.058
n-Hexane	ND	10	ug/kg	0.90
2-Hexanone	ND	20	ug/kg	0.24
Methylene chloride	ND	5.0	ug/kg	0.69
4-Methyl-2-pentanone	ND	20	ug/kg	0.29
Styrene	ND	5.0	ug/kg	0.17
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	0.078
Tetrachloroethene	ND	5.0	ug/kg	0.087

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Fluor Hanford Inc

Client Sample ID: B1VDT7

GC/MS Volatiles

Lot-Sample #...: F8E160282-009 Work Order #...: KND901AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	5.0	ug/kg	0.32
1,1,1-Trichloroethane	ND	5.0	ug/kg	0.10
1,1,2-Trichloroethane	ND	5.0	ug/kg	0.067
Trichloroethene	ND	5.0	ug/kg	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	93	(42 - 150)
Dibromofluoromethane	107	(56 - 133)
1,2-Dichloroethane-d4	111	(50 - 143)
4-Bromofluorobenzene	105	(20 - 150)

Fluor Hanford Inc

B1VDT7

GC/MS Volatiles

Lot-Sample #: F8E160282-009 **Work Order #:** KND901AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		5.4	M	3.0941	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Fluor Hanford Inc

Client Sample ID: B1VDV3

GC/MS Volatiles

Lot-Sample #...: F8E160282-011 **Work Order #...:** KND931AA **Matrix.....:** SOLID
Date Sampled...: 05/13/08 **Date Received..:** 05/16/08
Prep Date.....: 05/22/08 **Analysis Date..:** 05/23/08
Prep Batch #...: 8144301
Dilution Factor: 1
% Moisture.....: **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	20	ug/kg	1.7
Acetonitrile	ND	50	ug/kg	5.4
Benzene	ND	5.0	ug/kg	0.087
Bromodichloromethane	ND	5.0	ug/kg	0.21
Bromoform	ND	5.0	ug/kg	0.059
Bromomethane	ND	10	ug/kg	0.13
1-Butanol	ND	100	ug/kg	9.0
2-Butanone	ND	20	ug/kg	0.87
n-Butylbenzene	ND	5.0	ug/kg	0.18
Carbon disulfide	ND	5.0	ug/kg	0.12
Carbon tetrachloride	ND	5.0	ug/kg	0.20
Chlorobenzene	ND	5.0	ug/kg	0.11
Dibromochloromethane	ND	5.0	ug/kg	0.12
Chloroethane	ND	10	ug/kg	0.46
Chloroform	ND	5.0	ug/kg	0.10
Chloromethane	ND	10	ug/kg	0.27
Cyclohexanone	ND	100	ug/kg	3.2
1,1-Dichloroethane	ND	5.0	ug/kg	0.070
1,2-Dichloroethane	ND	5.0	ug/kg	0.066
1,1-Dichloroethene	ND	5.0	ug/kg	0.12
cis-1,2-Dichloroethene	ND	5.0	ug/kg	0.054
trans-1,2-Dichloroethene	ND	5.0	ug/kg	0.090
1,2-Dichloroethene (total)	ND	10	ug/kg	0.11
1,2-Dichloropropane	ND	5.0	ug/kg	0.11
cis-1,3-Dichloropropene	ND	5.0	ug/kg	0.10
trans-1,3-Dichloropropene	ND	5.0	ug/kg	0.10
Ethylbenzene	ND	5.0	ug/kg	0.058
n-Hexane	ND	10	ug/kg	0.90
2-Hexanone	ND	20	ug/kg	0.24
Methylene chloride	ND	5.0	ug/kg	0.69
4-Methyl-2-pentanone	ND	20	ug/kg	0.29
Styrene	ND	5.0	ug/kg	0.17
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	0.078
Tetrachloroethene	ND	5.0	ug/kg	0.087
Toluene	ND	5.0	ug/kg	0.32
1,1,1-Trichloroethane	ND	5.0	ug/kg	0.10
1,1,2-Trichloroethane	ND	5.0	ug/kg	0.067

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Fluor Hanford Inc

Client Sample ID: B1VDV3

GC/MS Volatiles

Lot-Sample #...: F8E160282-011 **Work Order #...:** KND931AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Trichloroethene	ND	5.0	ug/kg	0.10
1,2,4-Trimethylbenzene	ND	5.0	ug/kg	0.13
Vinyl chloride	ND	5.0	ug/kg	0.11
Xylenes (total)	ND	10	ug/kg	0.23

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	105	(42 - 150)
Dibromofluoromethane	100	(56 - 133)
1,2-Dichloroethane-d4	112	(50 - 143)
4-Bromofluorobenzene	98	(20 - 150)

Fluor Hanford Inc

B1VDV3

GC/MS Volatiles

Lot-Sample #: F8E160282-011 **Work Order #:** KND931AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		5.2	M	3.0967	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F8E160282 **Work Order #...:** KN9WQ1AA **Matrix.....:** SOLID
MB Lot-Sample #: F8E230000-301

Prep Date.....: 05/22/08
Analysis Date..: 05/23/08 **Prep Batch #...:** 8144301
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	20	ug/kg	SW846 8260B
Acetonitrile	ND	50	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	10	ug/kg	SW846 8260B
1-Butanol	ND	100	ug/kg	SW846 8260B
2-Butanone	ND	20	ug/kg	SW846 8260B
n-Butylbenzene	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	10	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	10	ug/kg	SW846 8260B
Cyclohexanone	**93 J**	**100**	**ug/kg**	**SW846 8260B**
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethene (total)	ND	10	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
n-Hexane	ND	10	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Methylene chloride	**0.92 J**	**5.0**	**ug/kg**	**SW846 8260B**
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	**0.32 J**	**5.0**	**ug/kg**	**SW846 8260B**
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F8E160282 Work Order #...: KN9WQ1AA Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Xylenes (total)	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	96	(42 - 150)
Dibromofluoromethane	107	(56 - 133)
1,2-Dichloroethane-d4	110	(50 - 143)
4-Bromofluorobenzene	103	(20 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

Fluor Hanford Inc

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F8E230000-301 B **Work Order #:** KN9WQ1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		6.0	M	3.094	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F8E160282 Work Order #...: KN9WQ1AC Matrix.....: SOLID
LCS Lot-Sample#: F8E230000-301
Prep Date.....: 05/22/08 Analysis Date..: 05/22/08
Prep Batch #...: 8144301
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
cis-1,3-Dichloropropene	50.0	55.2	ug/kg	110	SW846 8260B
Dibromochloromethane	50.0	51.9	ug/kg	104	SW846 8260B
Chloromethane	50.0	45.5	ug/kg	91	SW846 8260B
Vinyl chloride	50.0	59.2	ug/kg	118	SW846 8260B
Bromomethane	50.0	48.0	ug/kg	96	SW846 8260B
Chloroethane	50.0	48.9	ug/kg	98	SW846 8260B
Acetone	50.0	49.2	ug/kg	98	SW846 8260B
1,1-Dichloroethene	50.0	48.5	ug/kg	97	SW846 8260B
Methylene chloride	50.0	47.5	ug/kg	95	SW846 8260B
Carbon disulfide	50.0	51.5	ug/kg	103	SW846 8260B
1,1-Dichloroethane	50.0	51.5	ug/kg	103	SW846 8260B
2-Butanone	50.0	54.6	ug/kg	109	SW846 8260B
1,2-Dichloroethene (total)	100	99.3	ug/kg	99	SW846 8260B
Chloroform	50.0	50.6	ug/kg	101	SW846 8260B
1,1,1-Trichloroethane	50.0	49.4	ug/kg	99	SW846 8260B
Carbon tetrachloride	50.0	47.0	ug/kg	94	SW846 8260B
1,2-Dichloroethane	50.0	51.4	ug/kg	103	SW846 8260B
Benzene	50.0	48.2	ug/kg	96	SW846 8260B
Trichloroethene	50.0	47.2	ug/kg	94	SW846 8260B
1,2-Dichloropropane	50.0	51.2	ug/kg	102	SW846 8260B
Bromodichloromethane	50.0	54.8	ug/kg	110	SW846 8260B
1,1,2-Trichloroethane	50.0	54.7	ug/kg	109	SW846 8260B
trans-1,3-Dichloropropene	50.0	58.7	ug/kg	117	SW846 8260B
Toluene	50.0	49.4	ug/kg	99	SW846 8260B
2-Hexanone	50.0	65.8	ug/kg	132	SW846 8260B
4-Methyl-2-pentanone	50.0	57.2	ug/kg	114	SW846 8260B
Chlorobenzene	50.0	50.6	ug/kg	101	SW846 8260B
Bromoform	50.0	57.9	ug/kg	116	SW846 8260B
Ethylbenzene	50.0	48.8	ug/kg	98	SW846 8260B
Styrene	50.0	49.6	ug/kg	99	SW846 8260B
1,1,2,2-Tetrachloroethane	50.0	57.7	ug/kg	115	SW846 8260B
Tetrachloroethene	50.0	41.2	ug/kg	82	SW846 8260B
n-Butylbenzene	50.0	46.8	ug/kg	94	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F8E160282 **Work Order #...:** KN9WQ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: F8E230000-301

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Cyclohexanone	**500**	**632**	**ug/kg**	**126**	**SW846 8260B**
cis-1,2-Dichloroethene	**50.0**	**50.0**	**ug/kg**	**100**	**SW846 8260B**
trans-1,2-Dichloroethene	**50.0**	**49.3**	**ug/kg**	**99**	**SW846 8260B**
n-Hexane	**50.0**	**48.6**	**ug/kg**	**97**	**SW846 8260B**
1-Butanol	**500**	**383**	**ug/kg**	**77**	**SW846 8260B**
Acetonitrile	**250**	**288**	**ug/kg**	**115**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	108	(78 - 127)
Dibromofluoromethane	103	(77 - 123)
1,2-Dichloroethane-d4	110	(69 - 128)
4-Bromofluorobenzene	101	(75 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F8E160282 Work Order #...: KND7M1AC-MS Matrix.....: SOLID
MS Lot-Sample #: F8E160282-001 KND7M1AD-MSD
Date Sampled...: 05/12/08 Date Received..: 05/16/08
Prep Date.....: 05/22/08 Analysis Date..: 05/23/08
Prep Batch #...: 8144301
Dilution Factor: 1 % Moisture.....:

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
cis-1,3-Dichloropropene	ND	75.8	80.6	ug/kg	106		SW846 8260B
	ND	53.2	55.7	ug/kg	105 p	37	SW846 8260B
Chloromethane	ND	75.8	67.2	ug/kg	89		SW846 8260B
	ND	53.2	46.9	ug/kg	88 p	36	SW846 8260B
Vinyl chloride	ND	75.8	90.1	ug/kg	119		SW846 8260B
	ND	53.2	61.6	ug/kg	116 p	38	SW846 8260B
Bromomethane	ND	75.8	68.2	ug/kg	90		SW846 8260B
	ND	53.2	50.5	ug/kg	95	30	SW846 8260B
Chloroethane	ND	75.8	68.3	ug/kg	90		SW846 8260B
	ND	53.2	48.7	ug/kg	92 p	34	SW846 8260B
Acetone	ND	75.8	67.3	ug/kg	89		SW846 8260B
	ND	53.2	47.8	ug/kg	90 p	34	SW846 8260B
1,1-Dichloroethene	ND	75.8	73.7	ug/kg	97		SW846 8260B
	ND	53.2	52.2	ug/kg	98 p	34	SW846 8260B
Methylene chloride	ND	75.8	71.8	ug/kg	95		SW846 8260B
	ND	53.2	53.4	ug/kg	100	29	SW846 8260B
Carbon disulfide	ND	75.8	76.6	ug/kg	101		SW846 8260B
	ND	53.2	53.3	ug/kg	100 p	36	SW846 8260B
1,1-Dichloroethane	ND	75.8	77.6	ug/kg	102		SW846 8260B
	ND	53.2	53.9	ug/kg	101 p	36	SW846 8260B
1,2-Dichloroethene (total)	ND	152	150	ug/kg	99		SW846 8260B
	ND	106	107	ug/kg	101 p	33	SW846 8260B
Chloroform	ND	75.8	78.7	ug/kg	104		SW846 8260B
	ND	53.2	54.4	ug/kg	102 p	36	SW846 8260B
1,1,1-Trichloroethane	ND	75.8	74.9	ug/kg	99		SW846 8260B
	ND	53.2	54.6	ug/kg	103 p	31	SW846 8260B
Carbon tetrachloride	ND	75.8	70.1	ug/kg	93		SW846 8260B
	ND	53.2	54.2	ug/kg	102	26	SW846 8260B
1,2-Dichloroethane	ND	75.8	77.3	ug/kg	102		SW846 8260B
	ND	53.2	53.8	ug/kg	101 p	36	SW846 8260B
Benzene	ND	75.8	73.1	ug/kg	97		SW846 8260B
	ND	53.2	53.7	ug/kg	101 p	31	SW846 8260B
Trichloroethene	ND	75.8	77.2	ug/kg	102		SW846 8260B
	ND	53.2	60.8	ug/kg	114	24	SW846 8260B
1,2-Dichloropropane	ND	75.8	76.8	ug/kg	101		SW846 8260B
	ND	53.2	52.6	ug/kg	99 p	37	SW846 8260B
Bromodichloromethane	ND	75.8	84.0	ug/kg	111		SW846 8260B
	ND	53.2	58.4	ug/kg	110 p	36	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F8E160282 Work Order #...: KND7M1AC-MS Matrix.....: SOLID
MS Lot-Sample #: F8E160282-001 KND7M1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloroethane	ND	75.8	84.6	ug/kg	112		SW846 8260B
	ND	53.2	59.9	ug/kg	113 p	34	SW846 8260B
trans-1,3-Dichloropropene	ND	75.8	90.2	ug/kg	119		SW846 8260B
	ND	53.2	57.6	ug/kg	108 p	44	SW846 8260B
Toluene	ND	75.8	79.7	ug/kg	105		SW846 8260B
	ND	53.2	53.9	ug/kg	101 p	39	SW846 8260B
2-Hexanone	ND	75.8	69.1	ug/kg	91		SW846 8260B
	ND	53.2	54.6	ug/kg	103	23	SW846 8260B
4-Methyl-2-pentanone	ND	75.8	69.7	ug/kg	92		SW846 8260B
	ND	53.2	54.9	ug/kg	103	24	SW846 8260B
Chlorobenzene	ND	75.8	80.0	ug/kg	106		SW846 8260B
	ND	53.2	53.1	ug/kg	100 p	40	SW846 8260B
Bromoform	ND	75.8	96.3	ug/kg	127		SW846 8260B
	ND	53.2	64.2	ug/kg	121 p	40	SW846 8260B
Ethylbenzene	ND	75.8	77.8	ug/kg	103		SW846 8260B
	ND	53.2	53.0	ug/kg	100 p	38	SW846 8260B
Styrene	ND	75.8	77.1	ug/kg	102		SW846 8260B
	ND	53.2	57.4	ug/kg	108	29	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	75.8	79.7	ug/kg	105		SW846 8260B
	ND	53.2	49.0	ug/kg	92 p	48	SW846 8260B
Tetrachloroethene	ND	75.8	95.3	ug/kg	126		SW846 8260B
	ND	53.2	66.5	ug/kg	125 p	36	SW846 8260B
2-Butanone	ND	75.8	63.8	ug/kg	84		SW846 8260B
	ND	53.2	52.3	ug/kg	98	20	SW846 8260B
Dibromochloromethane	ND	75.8	81.1	ug/kg	107		SW846 8260B
	ND	53.2	62.6	ug/kg	118	26	SW846 8260B
n-Butylbenzene	ND	75.8	66.3	ug/kg	87		SW846 8260B
	ND	53.2	50.1	ug/kg	94	28	SW846 8260B
Cyclohexanone	72	758	590	ug/kg	68		SW846 8260B
	72	532	580	ug/kg	95	1.8	SW846 8260B
cis-1,2-Dichloroethene	ND	75.8	77.0	ug/kg	102		SW846 8260B
	ND	53.2	54.6	ug/kg	103 p	34	SW846 8260B
trans-1,2-Dichloroethene	ND	75.8	72.7	ug/kg	96		SW846 8260B
	ND	53.2	52.8	ug/kg	99 p	32	SW846 8260B
n-Hexane	ND	75.8	66.8	ug/kg	88		SW846 8260B
	ND	53.2	47.7	ug/kg	90 p	33	SW846 8260B
1-Butanol	ND	758	581	ug/kg	77		SW846 8260B
	ND	532	411	ug/kg	77 p	34	SW846 8260B
Acetonitrile	ND	379	439	ug/kg	116		SW846 8260B
	ND	266	276	ug/kg	104 p	45	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F8E160282 **Work Order #...:** KND7M1AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: F8E160282-001 KND7M1AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	114	(42 - 150)
	104	(42 - 150)
Dibromofluoromethane	102	(56 - 133)
	105	(56 - 133)
1,2-Dichloroethane-d4	106	(50 - 143)
	106	(50 - 143)
4-Bromofluorobenzene	101	(20 - 150)
	104	(20 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

GC/MS SEMIVOLATILES

Fluor Hanford Inc

Client Sample ID: B1VDT5

GC/MS Semivolatiles

Lot-Sample #...: F8E160282-013 **Work Order #...:** KNEAE1AU **Matrix.....:** SOLID
Date Sampled...: 05/12/08 **Date Received..:** 05/16/08
Prep Date.....: 05/20/08 **Analysis Date..:** 06/11/08
Prep Batch #...: 8142461
Dilution Factor: 1
% Moisture.....: 2.6 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tributyl phosphate	ND	340	ug/kg	34

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	69	(45 - 88)
Phenol-d5	78	(46 - 93)
Nitrobenzene-d5	74	(41 - 97)
2-Fluorobiphenyl	77	(43 - 101)
2,4,6-Tribromophenol	26 *	(39 - 106)
Terphenyl-d14	79	(31 - 123)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

B1VDT5

GC/MS Semivolatiles

Lot-Sample #: F8E160282-013 **Work Order #:** KNEAE1AU **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown aldol condensate		10000	M	3.723	ug/kg
Unknown		290	M	8.595	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Fluor Hanford Inc

Client Sample ID: B1VDT1

GC/MS Semivolatiles

Lot-Sample #...: F8E160282-015 **Work Order #...:** KNEA31AU **Matrix.....:** SOLID
Date Sampled...: 05/12/08 **Date Received..:** 05/16/08
Prep Date.....: 05/20/08 **Analysis Date..:** 06/11/08
Prep Batch #...: 8142461
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tributyl phosphate	ND	370	ug/kg	37

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	59	(45 - 88)
Phenol-d5	67	(46 - 93)
Nitrobenzene-d5	62	(41 - 97)
2-Fluorobiphenyl	65	(43 - 101)
2,4,6-Tribromophenol	26 *	(39 - 106)
Terphenyl-d14	75	(31 - 123)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

B1VDT1

GC/MS Semivolatiles

Lot-Sample #: F8E160282-015 **Work Order #:** KNEA31AU **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown aldol condensate		8400	M	3.7081	ug/kg
Unknown		240	M	8.5908	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Fluor Hanford Inc

Client Sample ID: B1VDT9

GC/MS Semivolatiles

Lot-Sample #...: F8E160282-016 **Work Order #...:** KNECV1AU **Matrix.....:** SOLID
Date Sampled...: 05/13/08 **Date Received..:** 05/16/08
Prep Date.....: 05/20/08 **Analysis Date..:** 06/11/08
Prep Batch #...: 8142461
Dilution Factor: 1
% Moisture.....: 3.2 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tributyl phosphate	ND	340	ug/kg	34

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(45 - 88)
Phenol-d5	72	(46 - 93)
Nitrobenzene-d5	66	(41 - 97)
2-Fluorobiphenyl	69	(43 - 101)
2,4,6-Tribromophenol	20 *	(39 - 106)
Terphenyl-d14	75	(31 - 123)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

B1VDT9

GC/MS Semivolatiles

Lot-Sample #: F8E160282-016 **Work Order #:** KNECV1AU **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		8000	M	3.7107	ug/kg
Unknown		340	M	8.5881	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Fluor Hanford Inc

Client Sample ID: B1VDV5

GC/MS Semivolatiles

Lot-Sample #...:	F8E160282-017	**Work Order #...:**	KNEC11AU	**Matrix.....:**	SOLID
Date Sampled...:	05/13/08	**Date Received..:**	05/16/08		
Prep Date.....:	05/20/08	**Analysis Date..:**	06/11/08		
Prep Batch #...:	8142461				
Dilution Factor:	1				
% Moisture.....:	2.8	**Method.....:**	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tributyl phosphate	ND	340	ug/kg	34

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	0.0	(45 - 88)
Phenol-d5	1.6 *	(46 - 93)
Nitrobenzene-d5	0.0	(41 - 97)
2-Fluorobiphenyl	5.4 *	(43 - 101)
2,4,6-Tribromophenol	13 *	(39 - 106)
Terphenyl-d14	76	(31 - 123)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

B1VDV5

GC/MS Semivolatiles

Lot-Sample #: F8E160282-017 **Work Order #:** KNEC11AU **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		380	M	8.5949	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Fluor Hanford Inc

Client Sample ID: B1VDM1

GC/MS Semivolatiles

Lot-Sample #...:	F8E160282-018	**Work Order #...:**	KNEC61AU	**Matrix.....:**	SOLID
Date Sampled...:	05/12/08	**Date Received..:**	05/16/08		
Prep Date.....:	05/20/08	**Analysis Date..:**	06/11/08		
Prep Batch #...:	8142461				
Dilution Factor:	1				
% Moisture.....:	6.4	**Method.....:**	SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tributyl phosphate	ND	350	ug/kg	36

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(45 - 88)
Phenol-d5	77	(46 - 93)
Nitrobenzene-d5	71	(41 - 97)
2-Fluorobiphenyl	73	(43 - 101)
2,4,6-Tribromophenol	29 *	(39 - 106)
Terphenyl-d14	71	(31 - 123)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

B1VDM1

GC/MS Semivolatiles

Lot-Sample #: F8E160282-018 **Work Order #:** KNEC61AU **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown aldol condensate		11000	M	3.7208	ug/kg
Unknown		250	M	8.5982	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Fluor Hanford Inc

Client Sample ID: B1VDR8

GC/MS Semivolatiles

Lot-Sample #...: F8E160282-019 **Work Order #...:** KNEE61AU **Matrix.....:** SOLID
Date Sampled...: 05/12/08 **Date Received..:** 05/16/08
Prep Date.....: 05/20/08 **Analysis Date..:** 06/11/08
Prep Batch #...: 8142461
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tributyl phosphate	ND	370	ug/kg	37

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(45 - 88)
Phenol-d5	78	(46 - 93)
Nitrobenzene-d5	72	(41 - 97)
2-Fluorobiphenyl	78	(43 - 101)
2,4,6-Tribromophenol	31 *	(39 - 106)
Terphenyl-d14	76	(31 - 123)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

B1VDR8

GC/MS Semivolatiles

Lot-Sample #: F8E160282-019 **Work Order #:** KNEE61AU **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown aldol condensate		11000	M	3.7126	ug/kg
Unknown		240	M	8.5846	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: F8E160282 **Work Order #...:** KNLL21AA **Matrix.....:** SOLID
MB Lot-Sample #: F8E210000-461

Prep Date.....: 05/20/08
Analysis Date..: 06/10/08 **Prep Batch #...:** 8142461
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Tributyl phosphate	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	65	(45 - 88)
Phenol-d5	76	(46 - 93)
Nitrobenzene-d5	69	(41 - 97)
2-Fluorobiphenyl	72	(43 - 101)
2,4,6-Tribromophenol	24 *	(39 - 106)
Terphenyl-d14	73	(31 - 123)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

* Surrogate recovery is outside stated control limits.

Fluor Hanford Inc

Method Blank Report

GC/MS Semivolatiles

Lot-Sample #: F8E210000-461 B **Work Order #:** KNLL21AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		450	M	2.3393	ug/kg
Unknown aldol condensate		10000	M	3.7069	ug/kg
Unknown		500	M	8.5842	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

EXTRACTABLE PETROLEUM HYDROCARBONS

Fluor Hanford Inc

Client Sample ID: B1VDT5

GC Semivolatiles

Lot-Sample #...: F8E160282-013 **Work Order #...:** KNEAE1AR **Matrix.....:** SOLID
Date Sampled...: 05/12/08 **Date Received..:** 05/16/08
Prep Date.....: 05/21/08 **Analysis Date..:** 06/05/08
Prep Batch #...: 8142462
Dilution Factor: 1
% Moisture.....: 2.6 **Method.....:** SW846 8015 MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Kerosene	ND	26	mg/kg	0.34
TPH - Diesel Range - WTPH-D	ND	26	mg/kg	0.34

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	84	(73 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDT1

GC Semivolatiles

Lot-Sample #...: F8E160282-015 **Work Order #...:** KNEA31AR **Matrix.....:** SOLID
Date Sampled...: 05/12/08 **Date Received..:** 05/16/08
Prep Date.....: 05/21/08 **Analysis Date..:** 06/05/08
Prep Batch #...: 8142462
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8015 MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Kerosene	ND	28	mg/kg	0.37
TPH - Diesel Range - WTPH-D	ND	28	mg/kg	0.37

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	88	(73 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDT9

GC Semivolatiles

Lot-Sample #...:	F8E160282-016	**Work Order #...:**	KNECV1AR	**Matrix.....:**	SOLID
Date Sampled...:	05/13/08	**Date Received..:**	05/16/08		
Prep Date.....:	05/21/08	**Analysis Date..:**	06/05/08		
Prep Batch #...:	8142462				
Dilution Factor:	1				
% Moisture.....:	3.2	**Method.....:**	SW846 8015 MOD		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Kerosene	ND	26	mg/kg	0.34
TPH - Diesel Range - WTPH-D	ND	26	mg/kg	0.34

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	86	(73 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDV5

GC Semivolatiles

Lot-Sample #...:	F8E160282-017	**Work Order #...:**	KNEC11AR	**Matrix.....:**	SOLID
Date Sampled...:	05/13/08	**Date Received..:**	05/16/08		
Prep Date.....:	05/21/08	**Analysis Date..:**	06/05/08		
Prep Batch #...:	8142462				
Dilution Factor:	1				
% Moisture.....:	2.8	**Method.....:**	SW846 8015 MOD		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Kerosene	ND	26	mg/kg	0.34
TPH - Diesel Range - WTPH-D	ND	26	mg/kg	0.34

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	80	(73 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDM1

GC Semivolatiles

Lot-Sample #...:	F8E160282-018	**Work Order #...:**	KNEC61AR	**Matrix.....:**	SOLID
Date Sampled...:	05/12/08	**Date Received..:**	05/16/08		
Prep Date.....:	05/21/08	**Analysis Date..:**	06/05/08		
Prep Batch #...:	8142462				
Dilution Factor:	1				
% Moisture.....:	6.4	**Method.....:**	SW846 8015 MOD		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Kerosene	ND	27	mg/kg	0.36
TPH - Diesel Range - WTPH-D	ND	27	mg/kg	0.36

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	56 *	(73 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDM1

GC Semivolatiles

Lot-Sample #...:	F8E160282-018	**Work Order #...:**	KNEC62AR	**Matrix.....:**	SOLID
Date Sampled...:	05/12/08	**Date Received..:**	05/16/08		
Prep Date.....:	06/09/08	**Analysis Date..:**	06/09/08		
Prep Batch #...:	8161206				
Dilution Factor:	1				
% Moisture.....:	6.4	**Method.....:**	SW846 8015 MOD		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Kerosene	ND	27	mg/kg	0.36
TPH - Diesel Range - WTPH-D	ND	27	mg/kg	0.36

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	87	(73 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDR8

GC Semivolatiles

Lot-Sample #...:	F8E160282-019	**Work Order #...:**	KNEE61AR	**Matrix.....:**	SOLID
Date Sampled...:	05/12/08	**Date Received..:**	05/16/08		
Prep Date.....:	05/21/08	**Analysis Date..:**	06/06/08		
Prep Batch #...:	8142462				
Dilution Factor:	1				
% Moisture.....:	11	**Method.....:**	SW846 8015 MOD		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Kerosene	ND	28	mg/kg	0.37
TPH - Diesel Range - WTPH-D	ND	28	mg/kg	0.37

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	89	(73 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: F8E160282 Work Order #...: KNLL71AD Matrix.....: SOLID
MB Lot-Sample #: F8E210000-462

Prep Date.....: 05/21/08
Analysis Date..: 06/05/08 Prep Batch #...: 8142462
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Kerosene	ND	25	mg/kg	SW846 8015 MOD
TPH - Diesel Range - WTPH	ND	25	mg/kg	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	72	(69 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: F8E160282 **Work Order #...:** KPK631AA **Matrix.....:** SOLID
MB Lot-Sample #: F8F090000-206

Prep Date.....: 06/09/08
Analysis Date..: 06/09/08 **Prep Batch #...:** 8161206
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Kerosene	ND	25	mg/kg	SW846 8015 MOD
TPH - Diesel Range - WTPH	ND	25	mg/kg	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	78	(73 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: F8E160282 **Work Order #...:** KNLL71AE **Matrix.....:** SOLID
LCS Lot-Sample#: F8E210000-462
Prep Date.....: 05/21/08 **Analysis Date..:** 06/05/08
Prep Batch #...: 8142462
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH - Diesel Range - WTPH	**83.3**	**61.3**	**mg/kg**	**74**	**SW846 8015 MO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	116	(69 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: F8E160282 Work Order #...: KPK631AC Matrix.....: SOLID
LCS Lot-Sample#: F8F090000-206
Prep Date.....: 06/09/08 Analysis Date..: 06/09/08
Prep Batch #...: 8161206
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
TPH - Diesel Range - WTPH	**83.3**	**64.2**	**mg/kg**	**77**	**SW846 8015 MO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	118	(69 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: F8E160282 Work Order #...: KNEC61A0-MS Matrix.....: SOLID
MS Lot-Sample #: F8E160282-018 KNEC61A1-MSD
Date Sampled...: 05/12/08 Date Received..: 05/16/08
Prep Date.....: 05/21/08 Analysis Date..: 06/05/08
Prep Batch #...: 8142462
Dilution Factor: 1 % Moisture.....: 6.4

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
TPH - Diesel Range - WTPH	ND	88.1	63.9	mg/kg	73		SW846 8015 MOD
	ND	88.7	70.5	mg/kg	79	9.8	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	122	(73 - 150)
	124	(73 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: F8E160282 Work Order #...: KNEC61A2-MS Matrix.....: SOLID
MS Lot-Sample #: F8E160282-018 KNEC61A3-MSD
Date Sampled...: 05/12/08 Date Received..: 05/16/08
Prep Date.....: 06/09/08 Analysis Date..: 06/09/08
Prep Batch #...: 8161206
Dilution Factor: 1 % Moisture.....: 6.4

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
TPH - Diesel Range - **WTPH**	**ND**	**89.0**	**68.5**	**mg/kg**	**77**		**SW846 8015 MOD**
	ND	**88.7**	**67.8**	**mg/kg**	**76**	**1.0**	**SW846 8015 MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	120	(73 - 150)
	117	(73 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

PCBs

Fluor Hanford Inc

Client Sample ID: B1VDT5

GC Semivolatiles

Lot-Sample #...: F8E160282-013 Work Order #...: KNEAE1AV Matrix.....: SOLID
Date Sampled...: 05/12/08 Date Received..: 05/16/08
Prep Date.....: 05/21/08 Analysis Date..: 06/03/08
Prep Batch #...: 8142464
Dilution Factor: 1
% Moisture.....: 2.6 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	34	ug/kg	5.0
Aroclor 1221	ND	34	ug/kg	5.0
Aroclor 1232	ND	34	ug/kg	5.0
Aroclor 1242	ND	34	ug/kg	5.0
Aroclor 1248	ND	34	ug/kg	5.0
Aroclor 1254	ND	34	ug/kg	2.8
Aroclor 1260	ND	34	ug/kg	2.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	119	(51 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDT1

GC Semivolatiles

Lot-Sample #...: F8E160282-015 Work Order #...: KNEA31AV Matrix.....: SOLID
Date Sampled...: 05/12/08 Date Received..: 05/16/08
Prep Date.....: 05/21/08 Analysis Date..: 06/03/08
Prep Batch #...: 8142464
Dilution Factor: 1
% Moisture.....: 10 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	5.5
Aroclor 1221	ND	37	ug/kg	5.5
Aroclor 1232	ND	37	ug/kg	5.5
Aroclor 1242	ND	37	ug/kg	5.5
Aroclor 1248	ND	37	ug/kg	5.5
Aroclor 1254	ND	37	ug/kg	3.0
Aroclor 1260	ND	37	ug/kg	3.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	117	(51 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDT9

GC Semivolatiles

Lot-Sample #....: F8E160282-016 Work Order #...: KNECV1AV Matrix.....: SOLID
Date Sampled...: 05/13/08 Date Received..: 05/16/08
Prep Date.....: 05/21/08 Analysis Date..: 06/03/08
Prep Batch #...: 8142464
Dilution Factor: 1
% Moisture.....: 3.2 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	34	ug/kg	5.1
Aroclor 1221	ND	34	ug/kg	5.1
Aroclor 1232	ND	34	ug/kg	5.1
Aroclor 1242	ND	34	ug/kg	5.1
Aroclor 1248	ND	34	ug/kg	5.1
Aroclor 1254	ND	34	ug/kg	2.8
Aroclor 1260	ND	34	ug/kg	2.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	98	(51 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDV5

GC Semivolatiles

Lot-Sample #...: F8E160282-017 Work Order #...: KNEC11AV Matrix.....: SOLID
Date Sampled...: 05/13/08 Date Received..: 05/16/08
Prep Date.....: 05/21/08 Analysis Date..: 06/03/08
Prep Batch #...: 8142464
Dilution Factor: 1
% Moisture.....: 2.8 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	34	ug/kg	5.0
Aroclor 1221	ND	34	ug/kg	5.0
Aroclor 1232	ND	34	ug/kg	5.0
Aroclor 1242	ND	34	ug/kg	5.0
Aroclor 1248	ND	34	ug/kg	5.0
Aroclor 1254	ND	34	ug/kg	2.8
Aroclor 1260	ND	34	ug/kg	2.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	109	(51 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDM1

GC Semivolatiles

Lot-Sample #...: F8E160282-018 Work Order #...: KNEC61AV Matrix.....: SOLID
Date Sampled...: 05/12/08 Date Received..: 05/16/08
Prep Date.....: 05/21/08 Analysis Date..: 06/03/08
Prep Batch #...: 8142464
Dilution Factor: 1
% Moisture.....: 6.4 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	35	ug/kg	5.2
Aroclor 1221	ND	35	ug/kg	5.2
Aroclor 1232	ND	35	ug/kg	5.2
Aroclor 1242	ND	35	ug/kg	5.2
Aroclor 1248	ND	35	ug/kg	5.2
Aroclor 1254	ND	35	ug/kg	2.9
Aroclor 1260	ND	35	ug/kg	2.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	107	(51 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDR8

GC Semivolatiles

Lot-Sample #...: F8E160282-019 Work Order #...: KNEE61AV Matrix.....: SOLID
Date Sampled...: 05/12/08 Date Received..: 05/16/08
Prep Date.....: 05/21/08 Analysis Date..: 06/03/08
Prep Batch #...: 8142464
Dilution Factor: 1
% Moisture.....: 11 Method.....: SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	5.5
Aroclor 1221	ND	37	ug/kg	5.5
Aroclor 1232	ND	37	ug/kg	5.5
Aroclor 1242	ND	37	ug/kg	5.5
Aroclor 1248	ND	37	ug/kg	5.5
Aroclor 1254	ND	37	ug/kg	3.0
Aroclor 1260	ND	37	ug/kg	3.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	118	(51 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: F8E160282 Work Order #...: KNLL91AD Matrix.....: SOLID
MB Lot-Sample #: F8E210000-464

Prep Date.....: 05/21/08
Analysis Date..: 06/03/08 Prep Batch #...: 8142464
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	103	(51 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: F8E160282 **Work Order #...:** KNLL91AE **Matrix.....:** SOLID
LCS Lot-Sample#: F8E210000-464
Prep Date.....: 05/21/08 **Analysis Date..:** 06/03/08
Prep Batch #...: 8142464
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Aroclor 1016	**167**	**148**	**ug/kg**	**89**	**SW846 8082**
Aroclor 1260	**167**	**157**	**ug/kg**	**94**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	104	(77 - 136)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: F8E160282 Work Order #...: KNECV1A0-MS Matrix.....: SOLID
MS Lot-Sample #: F8E160282-016 KNECV1A1-MSD
Date Sampled...: 05/13/08 Date Received..: 05/16/08
Prep Date.....: 05/21/08 Analysis Date..: 06/03/08
Prep Batch #...: 8142464
Dilution Factor: 1 % Moisture.....: 3.2

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Aroclor 1016	ND	172	164	ug/kg	96		SW846 8082
	ND	172	164	ug/kg	96	0.0	SW846 8082
Aroclor 1260	ND	172	165	ug/kg	96		SW846 8082
	ND	172	167	ug/kg	97	0.93	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	113	(51 - 150)
	107	(51 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

METALS

Fluor Hanford Inc

Client Sample ID: B1VDT5

TOTAL Metals

Lot-Sample #...: F8E160282-013 Matrix.....: SOLID
Date Sampled...: 05/12/08 Date Received..: 05/16/08
% Moisture.....: 2.6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8143049						
Silver	ND D	2.1	mg/kg	SW846 6010B	05/22-05/23/08	KNEAE1AG
		Dilution Factor: 2		MDL.....: 0.48		
Arsenic	ND D	2.1	mg/kg	SW846 6010B	05/22-05/23/08	KNEAE1AJ
		Dilution Factor: 2		MDL.....: 0.45		
Barium	**72.6 D,N**	**10.3**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEAE1AK**
		Dilution Factor: 2		MDL.....: 0.30		
Beryllium	ND D	1.0	mg/kg	SW846 6010B	05/22-05/23/08	KNEAE1AL
		Dilution Factor: 2		MDL.....: 0.35		
Cadmium	ND D	1.0	mg/kg	SW846 6010B	05/22-05/23/08	KNEAE1AD
		Dilution Factor: 2		MDL.....: 0.088		
Chromium	**6.1 D**	**2.1**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEAE1AH**
		Dilution Factor: 2		MDL.....: 0.63		
Copper	**10.6 D**	**5.1**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEAE1AE**
		Dilution Factor: 2		MDL.....: 0.82		
Nickel	**11.3 D**	**8.2**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEAE1AM**
		Dilution Factor: 2		MDL.....: 0.46		
Lead	**2.8 D**	**2.1**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEAE1AF**
		Dilution Factor: 2		MDL.....: 0.35		
Selenium	ND D	3.1	mg/kg	SW846 6010B	05/22-05/23/08	KNEAE1AN
		Dilution Factor: 2		MDL.....: 0.59		
Zinc	**29.1 D,N**	**10.3**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEAE1AP**
		Dilution Factor: 2		MDL.....: 4.1		
Prep Batch #...: 8150065						
Mercury	**23.8 B**	**34.2**	**ug/kg**	**SW846 7471A**	**05/29/08**	**KNEAE1AQ**
		Dilution Factor: 1		MDL.....: 11.8		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

B Estimated result. Result is less than RL.

Fluor Hanford Inc

Client Sample ID: B1VDT1

TOTAL Metals

Lot-Sample #...: F8E160282-015 **Matrix.....:** SOLID
Date Sampled...: 05/12/08 **Date Received..:** 05/16/08
% Moisture.....: 10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8143049						
Silver	ND D	2.2	mg/kg	SW846 6010B	05/22-05/23/08	KNEA31AG
		Dilution Factor: 2		MDL.....: 0.52		
Arsenic	ND D	2.2	mg/kg	SW846 6010B	05/22-05/23/08	KNEA31AJ
		Dilution Factor: 2		MDL.....: 0.49		
Barium	**67.2 D,N**	**11.1**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEA31AK**
		Dilution Factor: 2		MDL.....: 0.33		
Beryllium	ND D	1.1	mg/kg	SW846 6010B	05/22-05/23/08	KNEA31AL
		Dilution Factor: 2		MDL.....: 0.38		
Cadmium	ND D	2.8	mg/kg	SW846 6010B	05/22-05/23/08	KNEA31AD
		Dilution Factor: 5		MDL.....: 0.24		
Chromium	**3.6 D**	**2.2**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEA31AH**
		Dilution Factor: 2		MDL.....: 0.68		
Copper	**9.7 D**	**5.6**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEA31AE**
		Dilution Factor: 2		MDL.....: 0.89		
Nickel	**6.0 B,D**	**8.9**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEA31AM**
		Dilution Factor: 2		MDL.....: 0.50		
Lead	**3.5 B,D**	**5.6**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEA31AF**
		Dilution Factor: 5		MDL.....: 0.96		
Selenium	ND D	8.3	mg/kg	SW846 6010B	05/22-05/23/08	KNEA31AN
		Dilution Factor: 5		MDL.....: 1.6		
Zinc	**42.3 D,N**	**27.8**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEA31AP**
		Dilution Factor: 5		MDL.....: 11.0		
Prep Batch #...: 8150065						
Mercury	ND	37.1	ug/kg	SW846 7471A	05/29/08	KNEA31AQ
		Dilution Factor: 1		MDL.....: 12.8		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

B Estimated result. Result is less than RL.

Fluor Hanford Inc

Client Sample ID: B1VDT9

TOTAL Metals

Lot-Sample #...: F8E160282-016 **Matrix.....:** SOLID
Date Sampled...: 05/13/08 **Date Received..:** 05/16/08
% Moisture.....: 3.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8143049						
Silver	ND D	2.1	mg/kg	SW846 6010B	05/22-05/23/08	KNECV1AG
		Dilution Factor: 2		MDL.....: 0.48		
Arsenic	**3.1 D**	**2.1**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNECV1AJ**
		Dilution Factor: 2		MDL.....: 0.45		
Barium	**49.6 D,N**	**10.3**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNECV1AK**
		Dilution Factor: 2		MDL.....: 0.30		
Beryllium	ND D	1.0	mg/kg	SW846 6010B	05/22-05/23/08	KNECV1AL
		Dilution Factor: 2		MDL.....: 0.35		
Cadmium	ND D	1.0	mg/kg	SW846 6010B	05/22-05/23/08	KNECV1AD
		Dilution Factor: 2		MDL.....: 0.089		
Chromium	**9.3 D**	**2.1**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNECV1AH**
		Dilution Factor: 2		MDL.....: 0.63		
Copper	**8.0 D**	**5.2**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNECV1AE**
		Dilution Factor: 2		MDL.....: 0.83		
Nickel	**9.0 D**	**8.3**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNECV1AM**
		Dilution Factor: 2		MDL.....: 0.46		
Lead	**5.1 D**	**2.1**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNECV1AF**
		Dilution Factor: 2		MDL.....: 0.36		
Selenium	ND D	3.1	mg/kg	SW846 6010B	05/22-05/23/08	KNECV1AN
		Dilution Factor: 2		MDL.....: 0.60		
Zinc	**31.4 D,N**	**10.3**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNECV1AP**
		Dilution Factor: 2		MDL.....: 4.1		
Prep Batch #...: 8150065						
Mercury	ND	34.4	ug/kg	SW846 7471A	05/29/08	KNECV1AQ
		Dilution Factor: 1		MDL.....: 11.9		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

Fluor Hanford Inc

Client Sample ID: B1VDV5

TOTAL Metals

Lot-Sample #...: F8E160282-017 Matrix.....: SOLID
Date Sampled...: 05/13/08 Date Received..: 05/16/08
% Moisture.....: 2.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8143049						
Silver	ND D	2.1	mg/kg	SW846 6010B	05/22-05/23/08	KNEC11AG
		Dilution Factor: 2		MDL.....: 0.48		
Arsenic	**0.89 B,D**	**2.1**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEC11AJ**
		Dilution Factor: 2		MDL.....: 0.45		
Barium	**47.3 D,N**	**10.3**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEC11AK**
		Dilution Factor: 2		MDL.....: 0.30		
Beryllium	ND D	1.0	mg/kg	SW846 6010B	05/22-05/23/08	KNEC11AL
		Dilution Factor: 2		MDL.....: 0.35		
Cadmium	ND D	1.0	mg/kg	SW846 6010B	05/22-05/23/08	KNEC11AD
		Dilution Factor: 2		MDL.....: 0.088		
Chromium	**9.8 D**	**2.1**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEC11AH**
		Dilution Factor: 2		MDL.....: 0.63		
Copper	**7.7 D**	**5.1**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEC11AE**
		Dilution Factor: 2		MDL.....: 0.82		
Nickel	**14.0 D**	**8.2**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEC11AM**
		Dilution Factor: 2		MDL.....: 0.46		
Lead	**4.4 D**	**2.1**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEC11AF**
		Dilution Factor: 2		MDL.....: 0.35		
Selenium	ND D	3.1	mg/kg	SW846 6010B	05/22-05/23/08	KNEC11AN
		Dilution Factor: 2		MDL.....: 0.59		
Zinc	**34.9 D,N**	**10.3**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEC11AP**
		Dilution Factor: 2		MDL.....: 4.1		
Prep Batch #...: 8150065						
Mercury	ND	34.3	ug/kg	SW846 7471A	05/29/08	KNEC11AQ
		Dilution Factor: 1		MDL.....: 11.8		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

Fluor Hanford Inc

Client Sample ID: B1VDM1

TOTAL Metals

Lot-Sample #...: F8E160282-018 **Matrix.....:** SOLID
Date Sampled...: 05/12/08 **Date Received..:** 05/16/08
% Moisture.....: 6.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8143049						
Silver	ND D	2.1	mg/kg	SW846 6010B	05/22-05/23/08	KNEC61AG
		Dilution Factor: 2		MDL.....: 0.50		
Arsenic	ND D	2.1	mg/kg	SW846 6010B	05/22-05/23/08	KNEC61AJ
		Dilution Factor: 2		MDL.....: 0.47		
Barium	**95.9 D,N**	**10.7**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEC61AK**
		Dilution Factor: 2		MDL.....: 0.31		
Beryllium	ND D	1.1	mg/kg	SW846 6010B	05/22-05/23/08	KNEC61AL
		Dilution Factor: 2		MDL.....: 0.36		
Cadmium	ND D	2.7	mg/kg	SW846 6010B	05/22-05/23/08	KNEC61AD
		Dilution Factor: 5		MDL.....: 0.23		
Chromium	**6.2 D**	**2.1**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEC61AH**
		Dilution Factor: 2		MDL.....: 0.66		
Copper	**10.4 D**	**5.3**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEC61AE**
		Dilution Factor: 2		MDL.....: 0.85		
Nickel	**8.9 D**	**8.5**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEC61AM**
		Dilution Factor: 2		MDL.....: 0.48		
Lead	**8.3 D**	**5.3**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEC61AF**
		Dilution Factor: 5		MDL.....: 0.92		
Selenium	ND D	8.0	mg/kg	SW846 6010B	05/22-05/23/08	KNEC61AN
		Dilution Factor: 5		MDL.....: 1.5		
Zinc	**47.2 D,N**	**26.7**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEC61AP**
		Dilution Factor: 5		MDL.....: 10.6		
Prep Batch #...: 8150065						
Mercury	ND	35.6	ug/kg	SW846 7471A	05/29/08	KNEC61AQ
		Dilution Factor: 1		MDL.....: 12.3		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

Fluor Hanford Inc

Client Sample ID: B1VDR8

TOTAL Metals

Lot-Sample #...: F8E160282-019 **Matrix.....:** SOLID
Date Sampled...: 05/12/08 **Date Received..:** 05/16/08
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8143049						
Silver	ND D	2.2	mg/kg	SW846 6010B	05/22-05/23/08	KNEE61AG
		Dilution Factor: 2		MDL.....: 0.53		
Arsenic	ND D	5.6	mg/kg	SW846 6010B	05/22-05/23/08	KNEE61AJ
		Dilution Factor: 5		MDL.....: 1.2		
Barium	**85.9 D,N**	**11.2**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEE61AK**
		Dilution Factor: 2		MDL.....: 0.33		
Beryllium	ND D	1.1	mg/kg	SW846 6010B	05/22-05/23/08	KNEE61AL
		Dilution Factor: 2		MDL.....: 0.38		
Cadmium	ND D	2.8	mg/kg	SW846 6010B	05/22-05/23/08	KNEE61AD
		Dilution Factor: 5		MDL.....: 0.24		
Chromium	**4.4 D**	**2.2**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEE61AH**
		Dilution Factor: 2		MDL.....: 0.69		
Copper	**11.8 D**	**5.6**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEE61AE**
		Dilution Factor: 2		MDL.....: 0.90		
Nickel	**10.4 D**	**9.0**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEE61AM**
		Dilution Factor: 2		MDL.....: 0.51		
Lead	**4.3 B,D**	**5.6**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEE61AF**
		Dilution Factor: 5		MDL.....: 0.97		
Selenium	ND D	8.4	mg/kg	SW846 6010B	05/22-05/23/08	KNEE61AN
		Dilution Factor: 5		MDL.....: 1.6		
Zinc	**54.8 D,N**	**28.1**	**mg/kg**	**SW846 6010B**	**05/22-05/23/08**	**KNEE61AP**
		Dilution Factor: 5		MDL.....: 11.1		
Prep Batch #...: 8150065						
Mercury	ND	37.4	ug/kg	SW846 7471A	05/29/08	KNEE61AQ
		Dilution Factor: 1		MDL.....: 12.9		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F8E160282 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F8E220000-049 **Prep Batch #...:** 8143049						
Arsenic	ND	1.0	mg/kg	SW846 6010B	05/22-05/23/08	KNMX11AG
		Dilution Factor: 1				
Barium	ND	5.0	mg/kg	SW846 6010B	05/22-05/23/08	KNMX11AH
		Dilution Factor: 1				
Beryllium	ND	0.50	mg/kg	SW846 6010B	05/22-05/23/08	KNMX11AJ
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010B	05/22-05/23/08	KNMX11AA
		Dilution Factor: 1				
Chromium	ND	1.0	mg/kg	SW846 6010B	05/22-05/23/08	KNMX11AF
		Dilution Factor: 1				
Copper	ND	2.5	mg/kg	SW846 6010B	05/22-05/23/08	KNMX11AC
		Dilution Factor: 1				
Lead	ND	1.0	mg/kg	SW846 6010B	05/22-05/23/08	KNMX11AD
		Dilution Factor: 1				
Nickel	ND	4.0	mg/kg	SW846 6010B	05/22-05/23/08	KNMX11AK
		Dilution Factor: 1				
Selenium	ND	1.5	mg/kg	SW846 6010B	05/22-05/23/08	KNMX11AL
		Dilution Factor: 1				
Silver	ND	1.0	mg/kg	SW846 6010B	05/22-05/23/08	KNMX11AE
		Dilution Factor: 1				
Zinc	ND	5.0	mg/kg	SW846 6010B	05/22-05/23/08	KNMX11AM
		Dilution Factor: 1				
MB Lot-Sample #: F8E290000-065 **Prep Batch #...:** 8150065						
Mercury	ND	33.3	ug/kg	SW846 7471A	05/29/08	KN1W91AA
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F8E160282 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F8E220000-049 **Prep Batch #...:** 8143049							
Cadmium	182	188	mg/kg	103	SW846 6010B	05/22-05/23/08	KNMX11AN
			Dilution Factor: 1				
Copper	132	129	mg/kg	97	SW846 6010B	05/22-05/23/08	KNMX11AP
			Dilution Factor: 1				
Lead	72.2	73.3	mg/kg	102	SW846 6010B	05/22-05/23/08	KNMX11AQ
			Dilution Factor: 1				
Silver	126	126	mg/kg	100	SW846 6010B	05/22-05/23/08	KNMX11AR
			Dilution Factor: 1				
Chromium	142	136	mg/kg	96	SW846 6010B	05/22-05/23/08	KNMX11AT
			Dilution Factor: 1				
Arsenic	280	284	mg/kg	101	SW846 6010B	05/22-05/23/08	KNMX11AU
			Dilution Factor: 1				
Barium	520	538	mg/kg	103	SW846 6010B	05/22-05/23/08	KNMX11AV
			Dilution Factor: 1				
Beryllium	51.0	56.2	mg/kg	110	SW846 6010B	05/22-05/23/08	KNMX11AW
			Dilution Factor: 1				
Nickel	155	157	mg/kg	102	SW846 6010B	05/22-05/23/08	KNMX11AX
			Dilution Factor: 1				
Selenium	165	168	mg/kg	102	SW846 6010B	05/22-05/23/08	KNMX11A0
			Dilution Factor: 1				
Zinc	346	366	mg/kg	106	SW846 6010B	05/22-05/23/08	KNMX11A1
			Dilution Factor: 1				
LCS Lot-Sample#: F8E290000-065 **Prep Batch #...:** 8150065							
Mercury	8480	8470	ug/kg	100	SW846 7471A	05/29/08	KN1W91AC
			Dilution Factor: 10				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F8E160282 **Matrix.....:** SOLID
Date Sampled...: 05/12/08 **Date Received..:** 05/16/08

MS Lot-Sample #: F8E160282-015 **Prep Batch #...:** 8143049
% Moisture.....: 10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Arsenic									
	ND	111	97.8 D	mg/kg	88		SW846 6010B	05/22-05/23/08	KNEA31A8
	ND	111	102 D	mg/kg	92	4.2	SW846 6010B	05/22-05/23/08	KNEA31A9
			Dilution Factor: 2						
Barium									
	67.2	111	217 N,D	mg/kg	135		SW846 6010B	05/22-05/23/08	KNEA31CA
	67.2	111	250 N,D	mg/kg	165	14	SW846 6010B	05/22-05/23/08	KNEA31CC
			Dilution Factor: 2						
Beryllium									
	ND	2.78	3.09 D	mg/kg	102		SW846 6010B	05/22-05/23/08	KNEA31CD
	ND	2.78	3.26 D	mg/kg	108	5.1	SW846 6010B	05/22-05/23/08	KNEA31CE
			Dilution Factor: 2						
Cadmium									
	ND	2.78	2.16 D	mg/kg	78		SW846 6010B	05/22-05/23/08	KNEA31AW
	ND	2.78	2.43 D	mg/kg	87	12	SW846 6010B	05/22-05/23/08	KNEA31AX
			Dilution Factor: 5						
Chromium									
	3.6	11.1	13.5 D	mg/kg	89		SW846 6010B	05/22-05/23/08	KNEA31A6
	3.6	11.1	14.3 D	mg/kg	97	5.8	SW846 6010B	05/22-05/23/08	KNEA31A7
			Dilution Factor: 2						
Copper									
	9.7	13.9	24.0 D	mg/kg	103		SW846 6010B	05/22-05/23/08	KNEA31A0
	9.7	13.9	24.0 D	mg/kg	103	0.23	SW846 6010B	05/22-05/23/08	KNEA31A1
			Dilution Factor: 2						
Lead									
	3.5	27.8	32.9 D	mg/kg	106		SW846 6010B	05/22-05/23/08	KNEA31A2
	3.5	27.8	34.3 D	mg/kg	111	4.1	SW846 6010B	05/22-05/23/08	KNEA31A3
			Dilution Factor: 5						
Nickel									
	6.0	27.8	31.6 D	mg/kg	92		SW846 6010B	05/22-05/23/08	KNEA31CF
	6.0	27.8	33.2 D	mg/kg	98	5.0	SW846 6010B	05/22-05/23/08	KNEA31CG
			Dilution Factor: 2						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F8E160282 **Matrix.....:** SOLID
Date Sampled...: 05/12/08 **Date Received..:** 05/16/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium									
	ND	111	115 D	mg/kg	103		SW846 6010B	05/22-05/23/08	KNEA31CH
	ND	111	119 D	mg/kg	106	3.4	SW846 6010B	05/22-05/23/08	KNEA31CJ
			Dilution Factor: 5						
Silver									
	ND	2.78	2.63 D	mg/kg	94		SW846 6010B	05/22-05/23/08	KNEA31A4
	ND	2.78	2.67 D	mg/kg	96	1.5	SW846 6010B	05/22-05/23/08	KNEA31A5
			Dilution Factor: 2						
Zinc									
	42.3	27.8	72.9 D	mg/kg	110		SW846 6010B	05/22-05/23/08	KNEA31CK
	42.3	27.8	81.7	mg/kg	142	11	SW846 6010B	05/22-05/23/08	KNEA31CL
			Qualifiers: N,D						
			Dilution Factor: 5						

MS Lot-Sample #: F8E160282-015 **Prep Batch #...:** 8150065
% Moisture.....: 10

Mercury									
	ND	186	174	ug/kg	94		SW846 7471A	05/29/08	KNEA31CM
	ND	186	152	ug/kg	82	14	SW846 7471A	05/29/08	KNEA31CN
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

WET CHEMISTRY

Fluor Hanford Inc

Client Sample ID: B1VDT5

General Chemistry

Lot-Sample #...: F8E160282-013 Work Order #...: KNEAE Matrix.....: SOLID
Date Sampled...: 05/12/08 Date Received..: 05/16/08
% Moisture.....: 2.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.6**	**0.10**	**%**	**MCAWW 160.3 MOD**	**05/19-05/20/08**	**8140146**
		Dilution Factor: 1		MDL.....:		
Total Sulfide	ND	10.3	mg/kg	SW846 9030B/9034	05/19-05/23/08	8141157
		Dilution Factor: 1		MDL.....: 2.4		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDT1

General Chemistry

Lot-Sample #...: F8E160282-015 Work Order #...: KNEA3 Matrix.....: SOLID
Date Sampled...: 05/12/08 Date Received..: 05/16/08
% Moisture.....: 10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**10.2**	**0.10**	**%**	**MCAWW 160.3 MOD**	**05/19-05/20/08**	**8140146**
		Dilution Factor: 1		MDL.....:		
Total Sulfide	ND	11.1	mg/kg	SW846 9030B/9034	05/19-05/23/08	8141157
		Dilution Factor: 1		MDL.....: 2.6		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDT9

General Chemistry

Lot-Sample #...: F8E160282-016 Work Order #...: KNECV Matrix.....: SOLID
Date Sampled...: 05/13/08 Date Received..: 05/16/08
% Moisture.....: 3.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**3.2**	**0.10**	**%**	**MCAWW 160.3 MOD**	**05/19-05/20/08**	**8140146**
		Dilution Factor: 1		MDL.....:		
Total Sulfide	ND	10.3	mg/kg	SW846 9030B/9034	05/19-05/23/08	8141157
		Dilution Factor: 1		MDL.....: 2.4		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDV5

General Chemistry

Lot-Sample #...: F8E160282-017 Work Order #...: KNEC1 Matrix.....: SOLID
Date Sampled...: 05/13/08 Date Received..: 05/16/08
% Moisture.....: 2.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.8**	**0.10**	**%**	**MCAWW 160.3 MOD**	**05/19-05/20/08**	**8140146**
		Dilution Factor: 1		MDL.....:		
Total Sulfide	ND	10.3	mg/kg	SW846 9030B/9034	05/19-05/23/08	8141157
		Dilution Factor: 1		MDL.....: 2.4		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDM1

General Chemistry

Lot-Sample #...: F8E160282-018 Work Order #...: KNEC6 Matrix.....: SOLID
Date Sampled...: 05/12/08 Date Received..: 05/16/08
% Moisture.....: 6.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**6.4**	**0.10**	**%**	**MCAWW 160.3 MOD**	**05/19-05/20/08**	**8140146**
		Dilution Factor: 1		MDL.....:		
Total Sulfide	ND	10.7	mg/kg	SW846 9030B/9034	05/19-05/23/08	8141157
		Dilution Factor: 1		MDL.....: 2.5		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Fluor Hanford Inc

Client Sample ID: B1VDR8

General Chemistry

Lot-Sample #...: F8E160282-019 Work Order #...: KNEE6 Matrix.....: SOLID
Date Sampled...: 05/12/08 Date Received..: 05/16/08
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**11.0**	**0.10**	**%**	**MCAWW 160.3 MOD**	**05/19-05/20/08**	**8140146**
		Dilution Factor: 1		MDL.....:		
Total Sulfide	ND	11.2	mg/kg	SW846 9030B/9034	05/19-05/23/08	8141157
		Dilution Factor: 1		MDL.....: 2.7		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F8E160282 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide		Work Order #:	KNWG21AA	MB Lot-Sample #:	F8E200000-157	
	ND	10.0	mg/kg	SW846 9030B/9034	05/19-05/23/08	8141157
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: F8E160282 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide			Work Order #:	KNWG21AC	LCS Lot-Sample#:	F8E200000-157	
	200	198	mg/kg	99	SW846 9030B/9034	05/19-05/23/08	8141157
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: F8E160282 **Matrix.....:** SOLID
Date Sampled...: 05/13/08 **Date Received..:** 05/16/08

Percnt Moisture: 0.0

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide			Work Order #...:		KNEC11AW		MS Lot-Sample #: F8E160282-017	
	ND	206	206	mg/kg	100	SW846 9030B/9	05/19-05/23/08	8141157
			Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8E160282 **Work Order #...:** KNEE6-SMP KNEE6-DUP **Matrix.....:** SOLID

Date Sampled...: 05/12/08 **Date Received..:** 05/16/08

% Moisture.....: 11

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	F8E160282-019	
	11.0	9.6	%	13	(0-30)	MCAWW 160.3 MOD	05/19-05/20/08	8140146

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8E160282 **Work Order #...:** KNEC1-SMP KNEC1-DUP **Matrix.....:** SOLID

Date Sampled...: 05/13/08 **Date Received..:** 05/16/08

% Moisture.....: 2.8

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide						SD Lot-Sample #:	F8E160282-017	
	ND	ND	mg/kg	0	(0-30)	SW846 9030B/9034	05/19-05/23/08	8141157

Dilution Factor: 1