SEVERN TRENT STL

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ANALYTICAL REPORT

PROJECT NO. 216-Z9-TRENCH

F06-005

Lot #: F6D250237
SDG #: W04913

Steve Trent

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

SEVERN TRENT LABORATORIES, INC.

Kay Clay
FOR: Melanie Harris
Project Manager

JUN 2006
RECEIVED

May 25, 2006

Case Narrative
SDG: W04913

This report contains the analytical results for the 10 samples received under chain of custody by STL St. Louis between April 25, 2006 and May 5, 2006. These samples are associated with your F06-005 project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted below.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by STL St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances
Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

SVOAS Method: 8270C

Batch 6116261
There was insufficient sample volume to perform MS/MSD analysis. A LCS and LCSD were performed to demonstrate accuracy and replicate precision.
Affected Sample:
F6D250237 (2): B1HK42

TPH Method: 8015 MOD

Batch 6116265
There was insufficient sample volume to perform MS/MSD analysis. A LCS and LCSD were performed to demonstrate accuracy and replicate precision.
Affected Sample:
F6D250237 (2): B1HK42

VOAS Method: 8260B

Batch 6116543
There was insufficient sample volume to perform MS/MSD analysis. A LCS and LCSD were performed to demonstrate accuracy and replicate precision.
Affected Sample:
F6D250237 (1): B1HK40

TOC Method: 9060

Batch 6123416
The TOC MS was out of limits due to matrix interference.
Affected Sample:
F6D250237 (2): B1HK42

Oil and Grease Method: 413.1

Batch 6136210
The Oil and Grease LCS and LCSD recoveries are outside the upper QC limit, indicating a potential positive bias for that analyte(s). There was insufficient sample to perform re-preparation/reanalysis. The original results are provided with this narrative.
Affected Sample:
F6D250237 (2): B1HK42

Anions Method: 9056A

Batch 6135538
The anion matrix spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. High matrix spike recovery for Orthophosphate is attributed to matrix interference.
Affected Sample:
F6D250237 (2): B1HK42

Cation-Exchange Method: 9081
There are no observations or nonconformances associated with this analysis.

Nitrate-Nitrite Method: 353.1
There are no observations or nonconformances associated with this analysis.

Nitrogen, Ammonia Method: 350.1
There are no observations or nonconformances associated with this analysis.

Hexavalent Chromium Method: 7496A
There are no observations or nonconformances associated with this analysis.

Mercury Method: 7471A
There are no observations or nonconformances associated with this analysis.

Metals Method: 6010B
There are no observations or nonconformances associated with this analysis.

EXECUTIVE SUMMARY - Detection Highlights

W04913 : F6D250237

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
B1HK40 04/13/06 09:15 001				
Acetone	27	22	ug/kg	SW846 8260B
Benzene	1.4 J	5.4	ug/kg	SW846 8260B
2-Butanone	75	22	ug/kg	SW846 8260B
Carbon tetrachloride	0.83 J	5.4	ug/kg	SW846 8260B
Percent Moisture	7.7	0.10	%	MCAWW 160.3 MOD
B1HK42 04/13/06 09:15 002				
Mercury	43.9	36.4	ug/kg	SW846 7471A
Aluminum	13000	21.9	mg/kg	SW846 6010B
Arsenic	6.2	1.1	mg/kg	SW846 6010B
Barium	77.1	5.5	mg/kg	SW846 6010B
Beryllium	0.44 B	0.55	mg/kg	SW846 6010B
Bismuth	103	21.9	mg/kg	SW846 6010B
Calcium	5320 C	273	mg/kg	SW846 6010B
Cadmium	30.2	0.55	mg/kg	SW846 6010B
Cobalt	8.7	5.5	mg/kg	SW846 6010B
Chromium	18.7	1.1	mg/kg	SW846 6010B
Copper	13.3	2.7	mg/kg	SW846 6010B
Iron	17600	10.9	mg/kg	SW846 6010B
Potassium	1660 C	547	mg/kg	SW846 6010B
Lithium	13.9	5.5	mg/kg	SW846 6010B
Magnesium	5510 C	109	mg/kg	SW846 6010B
Manganese	321	1.1	mg/kg	SW846 6010B
Sodium	242 C	109	mg/kg	SW846 6010B
Nickel	21.0	4.4	mg/kg	SW846 6010B
Lead	5.2	1.1	mg/kg	SW846 6010B
Phosphorus	636	54.7	mg/kg	SW846 6010B
Antimony	0.88 B	1.1	mg/kg	SW846 6010B
Selenium	0.55 B	1.6	mg/kg	SW846 6010B
Strontium	29.5	1.1	mg/kg	SW846 6010B
Vanadium	33.9	5.5	mg/kg	SW846 6010B
Zinc	37.2 C	2.2	mg/kg	SW846 6010B
Di-n-butyl phthalate	38 J	360	ug/kg	SW846 8270C
Tributyl phosphate	4200	360	ug/kg	SW846 8270C
Total Organic Carbon	957	27.3	mg/kg	SW846 9060
Nitrate/Nitrite as N	129	10.9	mg/kg	MCAWW 353.1
Percent Moisture	8.6	0.10	%	MCAWW 160.3 MOD
Cation Exchange Capacity	11.4	5.0	meq/100g	SW846 9081
Fluoride	51.4	10.9	mg/kg	SW846 9056A
Chloride	5.7 C	2.2	mg/kg	SW846 9056A
Sulfate	82.9	5.5	mg/kg	SW846 9056A

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EXECUTIVE SUMMARY - Detection Highlights

W04913 : F6E050264

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
B1HK57 04/18/06 10:25 001				
Total Inorganic Carbon	1020	30.3	mg/kg	SW846 9060
Total Organic Carbon	3660	30.3	mg/kg	SW846 9060
Nitrate/Nitrite as N	236	24.2	mg/kg	MCAWW 353.1
Percent Moisture	17.4	0.10	%	MCAWW 160.3 MOD
Cation Exchange Capacity	13.1	5.0	meq/100g	SW846 9081

METHODS SUMMARY

W04913

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Cation-Exchange Capacity	SW846 9081	SW846 9081
Chloride	SW846 9056A	
Extractable Petroleum Hydrocarbons	SW846 8015 MOD	SW846 3550
Fluoride	SW846 9056A	
Hexavalent Chromium	SW846 7196A	SW846 3060A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A	SW846 7471A
Nitrate-Nitrite	MCAWW 353.1	
Nitrogen, Ammonia	MCAWW 350.1	
Oil & Grease (Gravimetric)	MCAWW 413.1	
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
Phosphate, ortho as P	SW846 9056A	
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3550B
Sulfate	SW846 9056A	
Total Inorganic Carbon	SW846 9060	
Total Organic Carbon	SW846 9060	SW846 9060
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

W04913 : F6D250237

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H3192	001	B1HK40	04/13/06	09:15
H32CL	002	B1HK42	04/13/06	09:15

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.

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SAMPLE SUMMARY

W04913 : F6E050264

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H4T19	001	B1HK57	04/18/06	10:25

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.

Fluor Hanford Inc

Client Sample ID: B1HK40

GC/MS Volatiles

Lot-Sample #...: F6D250237-001 **Work Order #...:** H31921AC **Matrix.....:** SOLID
Date Sampled...: 04/13/06 **Date Received..:** 04/25/06
Prep Date.....: 04/25/06 **Analysis Date..:** 04/25/06
Prep Batch #...: 6116543
Dilution Factor: 1
% Moisture.....: 7.7 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**27**	**22**	**ug/kg**	**1.4**
Acetonitrile	ND	54	ug/kg	5.7
Benzene	**1.4 J**	**5.4**	**ug/kg**	**0.25**
Bromodichloromethane	ND	5.4	ug/kg	0.15
Bromoform	ND	5.4	ug/kg	0.22
Bromomethane	ND	11	ug/kg	0.48
1-Butanol	ND	110	ug/kg	36
2-Butanone	**75**	**22**	**ug/kg**	**1.2**
n-Butylbenzene	ND	5.4	ug/kg	0.24
Carbon disulfide	ND	5.4	ug/kg	0.29
Carbon tetrachloride	**0.83 J**	**5.4**	**ug/kg**	**0.16**
Chlorobenzene	ND	5.4	ug/kg	0.14
Dibromochloromethane	ND	5.4	ug/kg	0.37
Chloroethane	ND	11	ug/kg	0.61
Chloroform	ND	5.4	ug/kg	0.25
Chloromethane	ND	11	ug/kg	0.27
Cyclohexanone	ND	110	ug/kg	33
1,1-Dichloroethane	ND	5.4	ug/kg	0.21
1,2-Dichloroethane	ND	5.4	ug/kg	0.84
1,1-Dichloroethene	ND	5.4	ug/kg	0.74
1,2-Dichloroethene (total)	ND	11	ug/kg	0.66
1,2-Dichloropropane	ND	5.4	ug/kg	0.42
cis-1,3-Dichloropropene	ND	5.4	ug/kg	0.16
trans-1,3-Dichloropropene	ND	5.4	ug/kg	0.29
Ethylbenzene	ND	5.4	ug/kg	0.18
n-Hexane	ND	11	ug/kg	0.36
2-Hexanone	ND	22	ug/kg	1.4
Methylene chloride	ND	5.4	ug/kg	2.9
4-Methyl-2-pentanone	ND	22	ug/kg	0.97
Styrene	ND	5.4	ug/kg	0.28
1,1,2,2-Tetrachloroethane	ND	5.4	ug/kg	0.32
Tetrachloroethene	ND	5.4	ug/kg	0.42
Toluene	ND	5.4	ug/kg	0.62
1,1,1-Trichloroethane	ND	5.4	ug/kg	0.18
1,1,2-Trichloroethane	ND	5.4	ug/kg	0.53
Trichloroethene	ND	5.4	ug/kg	0.28
1,2,4-Trimethylbenzene	ND	5.4	ug/kg	0.23

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Fluor Hanford Inc

Client Sample ID: B1HK40

GC/MS Volatiles

Lot-Sample #...: F6D250237-001 **Work Order #...:** H31921AC **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	5.4	ug/kg	0.36
Xylenes (total)	ND	11	ug/kg	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	94	(78 - 136)
Dibromofluoromethane	100	(71 - 142)
1,2-Dichloroethane-d4	104	(62 - 147)
4-Bromofluorobenzene	82	(75 - 133)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Fluor Hanford Inc

B1HK40

GC/MS Volatiles

Lot-Sample #: F6D250237-001 **Work Order #:** H31921AC **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: W04913 **Work Order #...:** H350W1AA **Matrix.....:** SOLID
MB Lot-Sample #: F6D260000-543

Prep Date.....: 04/25/06
Analysis Date..: 04/25/06 **Prep Batch #...:** 6116543
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	ND	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
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	ND	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	**4.3 J**	**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	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: W04913 **Work Order #...:** H350W1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	89	(78 - 136)
Dibromofluoromethane	97	(71 - 142)
1,2-Dichloroethane-d4	97	(62 - 147)
4-Bromofluorobenzene	88	(75 - 133)

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 #: F6D260000-543 B **Work Order #:** H350W1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: W04913 Work Order #...: H350W1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: F6D260000-543 H350W1AD-LCSD
Prep Date.....: 04/25/06 Analysis Date..: 04/25/06
Prep Batch #...: 6116543
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethane	50.0	51.2	ug/kg	102		SW846 8260B
	50.0	52.3	ug/kg	105	2.0	SW846 8260B
2-Butanone	50.0	48.4	ug/kg	97		SW846 8260B
	50.0	48.9	ug/kg	98	1.0	SW846 8260B
1,2-Dichloroethene (total)	100	105	ug/kg	105		SW846 8260B
	100	107	ug/kg	107	1.8	SW846 8260B
Chloroform	50.0	47.7	ug/kg	95		SW846 8260B
	50.0	49.9	ug/kg	100	4.4	SW846 8260B
1,1,1-Trichloroethane	50.0	45.4	ug/kg	91		SW846 8260B
	50.0	47.3	ug/kg	95	4.0	SW846 8260B
cis-1,3-Dichloropropene	50.0	44.6	ug/kg	89		SW846 8260B
	50.0	44.3	ug/kg	89	0.54	SW846 8260B
Dibromochloromethane	50.0	41.8	ug/kg	84		SW846 8260B
	50.0	44.8	ug/kg	90	7.0	SW846 8260B
Chloromethane	50.0	49.4	ug/kg	99		SW846 8260B
	50.0	49.5	ug/kg	99	0.18	SW846 8260B
Vinyl chloride	50.0	47.7	ug/kg	95		SW846 8260B
	50.0	49.0	ug/kg	98	2.7	SW846 8260B
Bromomethane	50.0	49.2	ug/kg	98		SW846 8260B
	50.0	51.6	ug/kg	103	4.8	SW846 8260B
Chloroethane	50.0	52.8	ug/kg	106		SW846 8260B
	50.0	51.6	ug/kg	103	2.3	SW846 8260B
Acetone	50.0	35.8	ug/kg	72		SW846 8260B
	50.0	36.4	ug/kg	73	1.8	SW846 8260B
1,1-Dichloroethene	50.0	49.8	ug/kg	100		SW846 8260B
	50.0	51.0	ug/kg	102	2.2	SW846 8260B
Methylene chloride	50.0	30.0	ug/kg	60		SW846 8260B
	50.0	31.7	ug/kg	63	5.6	SW846 8260B
Carbon disulfide	50.0	55.8	ug/kg	112		SW846 8260B
	50.0	56.4	ug/kg	113	1.2	SW846 8260B
Carbon tetrachloride	50.0	46.0	ug/kg	92		SW846 8260B
	50.0	47.6	ug/kg	95	3.4	SW846 8260B
1,2-Dichloroethane	50.0	45.5	ug/kg	91		SW846 8260B
	50.0	45.4	ug/kg	91	0.33	SW846 8260B
Benzene	50.0	44.5	ug/kg	89		SW846 8260B
	50.0	46.2	ug/kg	92	3.8	SW846 8260B
Trichloroethene	50.0	40.7	ug/kg	81		SW846 8260B
	50.0	42.7	ug/kg	85	4.8	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: W04913 **Work Order #...:** H350W1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F6D260000-543 H350W1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,2-Dichloropropane	50.0	45.3	ug/kg	91		SW846 8260B
	50.0	45.0	ug/kg	90	0.73	SW846 8260B
Bromodichloromethane	50.0	45.4	ug/kg	91		SW846 8260B
	50.0	46.9	ug/kg	94	3.2	SW846 8260B
1,1,2-Trichloroethane	50.0	43.8	ug/kg	88		SW846 8260B
	50.0	45.4	ug/kg	91	3.6	SW846 8260B
trans-1,3-Dichloropropene	50.0	47.6	ug/kg	95		SW846 8260B
	50.0	47.0	ug/kg	94	1.4	SW846 8260B
Toluene	50.0	47.7	ug/kg	95		SW846 8260B
	50.0	48.1	ug/kg	96	0.77	SW846 8260B
2-Hexanone	50.0	46.9	ug/kg	94		SW846 8260B
	50.0	46.1	ug/kg	92	1.7	SW846 8260B
4-Methyl-2-pentanone	50.0	46.4	ug/kg	93		SW846 8260B
	50.0	46.9	ug/kg	94	1.1	SW846 8260B
Chlorobenzene	50.0	45.0	ug/kg	90		SW846 8260B
	50.0	44.3	ug/kg	89	1.4	SW846 8260B
Bromoform	50.0	47.4	ug/kg	95		SW846 8260B
	50.0	48.3	ug/kg	97	1.9	SW846 8260B
Ethylbenzene	50.0	42.4	ug/kg	85		SW846 8260B
	50.0	43.5	ug/kg	87	2.4	SW846 8260B
Styrene	50.0	44.5	ug/kg	89		SW846 8260B
	50.0	47.2	ug/kg	94	5.9	SW846 8260B
1,1,2,2-Tetrachloroethane	50.0	42.6	ug/kg	85		SW846 8260B
	50.0	44.1	ug/kg	88	3.4	SW846 8260B
Tetrachloroethene	50.0	44.2	ug/kg	88		SW846 8260B
	50.0	45.6	ug/kg	91	2.9	SW846 8260B
n-Butylbenzene	50.0	43.1	ug/kg	86		SW846 8260B
	50.0	43.9	ug/kg	88	1.7	SW846 8260B
Cyclohexanone	500	652	ug/kg	130		SW846 8260B
	500	718	ug/kg	144	9.5	SW846 8260B
n-Hexane	50.0	48.1	ug/kg	96		SW846 8260B
	50.0	48.8	ug/kg	98	1.5	SW846 8260B
1-Butanol	500	476	ug/kg	95		SW846 8260B
	500	472	ug/kg	94	0.80	SW846 8260B
Acetonitrile	250	215	ug/kg	86		SW846 8260B
	250	218	ug/kg	87	1.2	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	98	(79 - 128)
	98	(79 - 128)
Dibromofluoromethane	98	(76 - 130)
	103	(76 - 130)
1,2-Dichloroethane-d4	96	(72 - 131)
	98	(72 - 131)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: W04913 **Work Order #...:** H350W1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F6D260000-543 H350W1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	83	(78 - 126)
	84	(78 - 126)

NOTE(S):

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

Bold print denotes control parameters

Fluor Hanford Inc

Client Sample ID: B1HK42

GC/MS Semivolatiles

Lot-Sample #...: F6D250237-002 **Work Order #...:** H32CL1AD **Matrix.....:** SOLID
Date Sampled...: 04/13/06 **Date Received..:** 04/25/06
Prep Date.....: 04/26/06 **Analysis Date..:** 05/15/06
Prep Batch #...: 6116261
Dilution Factor: 1
% Moisture.....: 8.6 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Benzo(ghi)perylene	ND	360	ug/kg	36
Anthracene	ND	360	ug/kg	36
Carbazole	ND	360	ug/kg	36
Di-n-butyl phthalate	**38 J**	**360**	**ug/kg**	**36**
Fluoranthene	ND	360	ug/kg	36
Pyrene	ND	360	ug/kg	36
Butyl benzyl phthalate	ND	360	ug/kg	36
3,3'-Dichlorobenzidine	ND	1800	ug/kg	36
Benzo(a)anthracene	ND	360	ug/kg	36
Chrysene	ND	360	ug/kg	36
bis(2-Ethylhexyl) phthalate	ND	360	ug/kg	36
Di-n-octyl phthalate	ND	360	ug/kg	16
Benzo(b)fluoranthene	ND	360	ug/kg	36
Benzo(k)fluoranthene	ND	360	ug/kg	36
Benzo(a)pyrene	ND	360	ug/kg	36
Indeno(1,2,3-cd)pyrene	ND	360	ug/kg	36
Dibenzo(a,h)anthracene	ND	360	ug/kg	36
Acenaphthene	ND	360	ug/kg	36
2,4-Dinitrophenol	ND	1800	ug/kg	360
4-Nitrophenol	ND	1800	ug/kg	360
Dibenzofuran	ND	360	ug/kg	36
2,4-Dinitrotoluene	ND	360	ug/kg	36
Diethyl phthalate	ND	360	ug/kg	36
Fluorene	ND	360	ug/kg	36
4-Chlorophenyl phenyl ether	ND	360	ug/kg	36
4-Nitroaniline	ND	1800	ug/kg	360
4,6-Dinitro-2-methylphenol	ND	1800	ug/kg	360
N-Nitrosodiphenylamine	ND	360	ug/kg	36
4-Bromophenyl phenyl ether	ND	360	ug/kg	36
Hexachlorobenzene	ND	360	ug/kg	36
Atrazine	ND	360	ug/kg	36
Pentachlorophenol	ND	1800	ug/kg	360
Phenanthrene	ND	360	ug/kg	36
Naphthalene	ND	360	ug/kg	36

(Continued on next page)

Fluor Hanford Inc

Client Sample ID: B1HK42

GC/MS Semivolatiles

Lot-Sample #...: F6D250237-002 **Work Order #...:** H32CL1AD **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4-Chloroaniline	ND	360	ug/kg	36
Hexachlorobutadiene	ND	360	ug/kg	36
Caprolactam	ND	360	ug/kg	36
4-Chloro-3-methylphenol	ND	360	ug/kg	36
2-Methylnaphthalene	ND	360	ug/kg	36
Hexachlorocyclopenta-diene	ND	1800	ug/kg	360
2,4,6-Trichloro-phenol	ND	360	ug/kg	36
2,4,5-Trichloro-phenol	ND	360	ug/kg	36
1,1'-Biphenyl	ND	360	ug/kg	36
2-Chloronaphthalene	ND	360	ug/kg	36
2-Nitroaniline	ND	1800	ug/kg	36
Dimethyl phthalate	ND	360	ug/kg	36
2,6-Dinitrotoluene	ND	360	ug/kg	36
Acenaphthylene	ND	360	ug/kg	36
3-Nitroaniline	ND	1800	ug/kg	36
Benzaldehyde	ND	360	ug/kg	36
Phenol	ND	360	ug/kg	36
bis(2-Chloroethyl)-ether	ND	360	ug/kg	36
2-Chlorophenol	ND	360	ug/kg	36
2-Methylphenol	ND	360	ug/kg	36
2,2'-oxybis(1-Chloropropane)	ND	360	ug/kg	36
Acetophenone	ND	360	ug/kg	36
N-Nitrosodi-n-propyl-amine	ND	360	ug/kg	36
Hexachloroethane	ND	360	ug/kg	36
Nitrobenzene	ND	360	ug/kg	36
Isophorone	ND	360	ug/kg	36
2-Nitrophenol	ND	360	ug/kg	36
2,4-Dimethylphenol	ND	360	ug/kg	36
bis(2-Chloroethoxy) methane	ND	360	ug/kg	36
2,4-Dichlorophenol	ND	360	ug/kg	36
1,3-Dichlorobenzene	ND	360	ug/kg	36
1,4-Dichlorobenzene	ND	360	ug/kg	36
1,2-Dichlorobenzene	ND	360	ug/kg	36
3-Methylphenol & 4-Methylphenol	ND	720	ug/kg	73
1,2,4-Trichloro-benzene	ND	360	ug/kg	36

(Continued on next page)

Fluor Hanford Inc

Client Sample ID: B1HK42

GC/MS Semivolatiles

Lot-Sample #...: F6D250237-002 **Work Order #...:** H32CL1AD **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tributyl phosphate	**4200**	**360**	**ug/kg**	**36**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	72	(38 - 101)
Phenol-d5	75	(36 - 107)
Nitrobenzene-d5	70	(41 - 107)
2-Fluorobiphenyl	75	(44 - 111)
2,4,6-Tribromophenol	62	(36 - 116)
Terphenyl-d14	79	(30 - 114)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Fluor Hanford Inc

B1HK42

GC/MS Semivolatiles

Lot-Sample #: F6D250237-002 **Work Order #:** H32CL1AD **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown aldol condensate		27000	M	4.486	ug/kg
Unknown alkane		230	M	17.376	ug/kg
Unknown alkane		570	M	18.718	ug/kg
Unknown alkane		450	M	19.344	ug/kg
Unknown alkane		400	M	19.954	ug/kg
Unknown alkane		290	M	20.553	ug/kg
Unknown alkane		290	M	21.205	ug/kg
Unknown alkane		240	M	21.933	ug/kg
Unknown alkane		190	M	22.767	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 #...: W04913 **Work Order #...:** H333L1AA **Matrix.....:** SOLID
MB Lot-Sample #: F6D260000-261

Prep Date.....: 04/26/06
Analysis Date..: 05/14/06 **Prep Batch #...:** 6116261
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Dibenzo(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Acenaphthene	ND	330	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Atrazine	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	1600	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Caprolactam	ND	330	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: W04913 **Work Order #...:** H333L1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopenta-diene	ND	1600	ug/kg	SW846 8270C
2,4,6-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
2,4,5-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
1,1'-Biphenyl	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Benzaldehyde	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	330	ug/kg	SW846 8270C
Acetophenone	ND	330	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	330	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
1,3-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
1,4-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
1,2-Dichlorobenzene	ND	330	ug/kg	SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	660	ug/kg	SW846 8270C
1,2,4-Trichloro-benzene	ND	330	ug/kg	SW846 8270C
Tributyl phosphate	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(38 - 101)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: W04913 **Work Order #...:** H333L1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol-d5	64	(36 - 107)		
Nitrobenzene-d5	58	(41 - 107)		
2-Fluorobiphenyl	63	(44 - 111)		
2,4,6-Tribromophenol	48	(36 - 116)		
Terphenyl-d14	67	(30 - 114)		

NOTE(S):

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

Fluor Hanford Inc

Method Blank Report

GC/MS Semivolatiles

Lot-Sample #: F6D260000-261 B **Work Order #:** H333L1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Unknown		240	M	3.9724	ug/kg
Unknown aldol condensate		20000	M	4.4752	ug/kg
Unknown organic acid		250	M	18.868	ug/kg
Unknown		2600	M	20.173	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 Semivolatiles

Client Lot #...: W04913 Work Order #...: H333L1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: F6D260000-261 H333L1AD-LCSD
Prep Date.....: 04/26/06 Analysis Date..: 05/15/06
Prep Batch #...: 6116261
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzo(ghi)perylene	3330	2780	ug/kg	84		SW846 8270C
	3330	2630	ug/kg	79	5.7	SW846 8270C
Anthracene	3330	2650	ug/kg	80		SW846 8270C
	3330	2500	ug/kg	75	6.0	SW846 8270C
Carbazole	3330	2630	ug/kg	79		SW846 8270C
	3330	2450	ug/kg	73	7.0	SW846 8270C
Di-n-butyl phthalate	3330	2690	ug/kg	81		SW846 8270C
	3330	2540	ug/kg	76	5.6	SW846 8270C
Fluoranthene	3330	2660	ug/kg	80		SW846 8270C
	3330	2510	ug/kg	75	5.8	SW846 8270C
Pyrene	3330	2800	ug/kg	84		SW846 8270C
	3330	2650	ug/kg	79	5.6	SW846 8270C
Butyl benzyl phthalate	3330	2770	ug/kg	83		SW846 8270C
	3330	2630	ug/kg	79	5.4	SW846 8270C
3,3'-Dichlorobenzidine	3330	2110	ug/kg	63		SW846 8270C
	3330	2090	ug/kg	63	1.0	SW846 8270C
Benzo(a)anthracene	3330	2890	ug/kg	87		SW846 8270C
	3330	2740	ug/kg	82	5.5	SW846 8270C
Chrysene	3330	2700	ug/kg	81		SW846 8270C
	3330	2540	ug/kg	76	6.2	SW846 8270C
bis(2-Ethylhexyl) phthalate	3330	2790	ug/kg	84		SW846 8270C
	3330	2630	ug/kg	79	6.0	SW846 8270C
Di-n-octyl phthalate	3330	2810	ug/kg	84		SW846 8270C
	3330	2680	ug/kg	80	4.6	SW846 8270C
Benzo(b)fluoranthene	3330	2670	ug/kg	80		SW846 8270C
	3330	2610	ug/kg	78	2.4	SW846 8270C
Benzo(k)fluoranthene	3330	2780	ug/kg	84		SW846 8270C
	3330	2610	ug/kg	78	6.5	SW846 8270C
Benzo(a)pyrene	3330	2760	ug/kg	83		SW846 8270C
	3330	2610	ug/kg	78	5.5	SW846 8270C
Indeno(1,2,3-cd)pyrene	3330	2690	ug/kg	81		SW846 8270C
	3330	2580	ug/kg	77	4.4	SW846 8270C
Dibenzo(a,h)anthracene	3330	2680	ug/kg	80		SW846 8270C
	3330	2520	ug/kg	76	5.9	SW846 8270C
Acenaphthene	3330	2600	ug/kg	78		SW846 8270C
	3330	2470	ug/kg	74	5.4	SW846 8270C
2,4-Dinitrophenol	3330	1590	ug/kg	48		SW846 8270C
	3330	1360	ug/kg	41	16	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: W04913 **Work Order #...:** H333L1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F6D260000-261 H333L1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
4-Nitrophenol	3330	2570	ug/kg	77		SW846 8270C
	3330	2380	ug/kg	71	7.8	SW846 8270C
Dibenzofuran	3330	2590	ug/kg	78		SW846 8270C
	3330	2430	ug/kg	73	6.6	SW846 8270C
2,4-Dinitrotoluene	3330	2750	ug/kg	83		SW846 8270C
	3330	2570	ug/kg	77	6.9	SW846 8270C
Diethyl phthalate	3330	2660	ug/kg	80		SW846 8270C
	3330	2480	ug/kg	74	6.9	SW846 8270C
Fluorene	3330	2630	ug/kg	79		SW846 8270C
	3330	2470	ug/kg	74	6.2	SW846 8270C
4-Chlorophenyl phenyl ether	3330	2560	ug/kg	77		SW846 8270C
	3330	2400	ug/kg	72	6.2	SW846 8270C
4-Nitroaniline	3330	2450	ug/kg	73		SW846 8270C
	3330	2280	ug/kg	68	7.2	SW846 8270C
4,6-Dinitro-2-methylphenol	3330	1980	ug/kg	60		SW846 8270C
	3330	1770	ug/kg	53	11	SW846 8270C
N-Nitrosodiphenylamine	3330	2770	ug/kg	83		SW846 8270C
	3330	2600	ug/kg	78	6.1	SW846 8270C
4-Bromophenyl phenyl ether	3330	2540	ug/kg	76		SW846 8270C
	3330	2420	ug/kg	73	4.9	SW846 8270C
Hexachlorobenzene	3330	2560	ug/kg	77		SW846 8270C
	3330	2430	ug/kg	73	5.2	SW846 8270C
Pentachlorophenol	3330	2240	ug/kg	67		SW846 8270C
	3330	2100	ug/kg	63	6.2	SW846 8270C
Phenanthrene	3330	2650	ug/kg	80		SW846 8270C
	3330	2510	ug/kg	75	5.6	SW846 8270C
Naphthalene	3330	2520	ug/kg	76		SW846 8270C
	3330	2410	ug/kg	72	4.5	SW846 8270C
4-Chloroaniline	3330	1500	ug/kg	45		SW846 8270C
	3330	1580	ug/kg	47	5.2	SW846 8270C
Hexachlorobutadiene	3330	2370	ug/kg	71		SW846 8270C
	3330	2320	ug/kg	69	2.5	SW846 8270C
4-Chloro-3-methylphenol	3330	2570	ug/kg	77		SW846 8270C
	3330	2400	ug/kg	72	7.0	SW846 8270C
2-Methylnaphthalene	3330	2530	ug/kg	76		SW846 8270C
	3330	2410	ug/kg	72	4.7	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: W04913 Work Order #...: H333L1AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: F6D260000-261 H333L1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hexachlorocyclopenta-diene	3330	3420	ug/kg	102		SW846 8270C
	3330	3390	ug/kg	102	0.64	SW846 8270C
2,4,6-Trichloro-phenol	3330	2500	ug/kg	75		SW846 8270C
	3330	2380	ug/kg	71	5.0	SW846 8270C
2,4,5-Trichloro-phenol	3330	2550	ug/kg	76		SW846 8270C
	3330	2400	ug/kg	72	5.8	SW846 8270C
2-Nitroaniline	3330	2550	ug/kg	77		SW846 8270C
	3330	2400	ug/kg	72	6.2	SW846 8270C
Dimethyl phthalate	3330	2610	ug/kg	78		SW846 8270C
	3330	2460	ug/kg	74	6.0	SW846 8270C
2,6-Dinitrotoluene	3330	2700	ug/kg	81		SW846 8270C
	3330	2540	ug/kg	76	6.3	SW846 8270C
Acenaphthylene	3330	2710	ug/kg	81		SW846 8270C
	3330	2590	ug/kg	78	4.6	SW846 8270C
3-Nitroaniline	3330	2010	ug/kg	60		SW846 8270C
	3330	1960	ug/kg	59	2.6	SW846 8270C
Phenol	3330	2500	ug/kg	75		SW846 8270C
	3330	2350	ug/kg	70	6.3	SW846 8270C
bis(2-Chloroethyl)-ether	3330	2320	ug/kg	70		SW846 8270C
	3330	2200	ug/kg	66	5.2	SW846 8270C
2-Chlorophenol	3330	2480	ug/kg	74		SW846 8270C
	3330	2350	ug/kg	71	5.2	SW846 8270C
2-Methylphenol	3330	2570	ug/kg	77		SW846 8270C
	3330	2420	ug/kg	73	6.3	SW846 8270C
2,2'-oxybis(1-Chloropropan	3330	2500	ug/kg	75		SW846 8270C
	3330	2350	ug/kg	70	6.1	SW846 8270C
N-Nitrosodi-n-propyl-amine	3330	2740	ug/kg	82		SW846 8270C
	3330	2600	ug/kg	78	5.3	SW846 8270C
Hexachloroethane	3330	2430	ug/kg	73		SW846 8270C
	3330	2360	ug/kg	71	3.1	SW846 8270C
Nitrobenzene	3330	2540	ug/kg	76		SW846 8270C
	3330	2430	ug/kg	73	4.6	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: W04913 **Work Order #...:** H333L1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F6D260000-261 H333L1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Isophorone	**3330**	**2940**	**ug/kg**	**88**		**SW846 8270C**
	3330	**2810**	**ug/kg**	**84**	**4.5**	**SW846 8270C**
2-Nitrophenol	**3330**	**2560**	**ug/kg**	**77**		**SW846 8270C**
	3330	**2450**	**ug/kg**	**73**	**4.3**	**SW846 8270C**
2,4-Dimethylphenol	**3330**	**2400**	**ug/kg**	**72**		**SW846 8270C**
	3330	**2280**	**ug/kg**	**68**	**5.2**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**3330**	**2620**	**ug/kg**	**78**		**SW846 8270C**
	3330	**2490**	**ug/kg**	**75**	**5.0**	**SW846 8270C**
2,4-Dichlorophenol	**3330**	**2510**	**ug/kg**	**75**		**SW846 8270C**
	3330	**2370**	**ug/kg**	**71**	**5.4**	**SW846 8270C**
3-Methylphenol & 4-Methylphenol	**6670**	**4990**	**ug/kg**	**75**		**SW846 8270C**
	6670	**4690**	**ug/kg**	**70**	**6.2**	**SW846 8270C**
1,2,4-Trichloro-benzene	**3330**	**2480**	**ug/kg**	**74**		**SW846 8270C**
	3330	**2420**	**ug/kg**	**73**	**2.6**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	78	(44 - 101)
	73	(44 - 101)
Phenol-d5	80	(46 - 101)
	74	(46 - 101)
Nitrobenzene-d5	76	(45 - 108)
	71	(45 - 108)
2-Fluorobiphenyl	79	(50 - 114)
	75	(50 - 114)
2,4,6-Tribromophenol	75	(48 - 112)
	69	(48 - 112)
Terphenyl-d14	75	(37 - 115)
	70	(37 - 115)

NOTE(S):

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

Bold print denotes control parameters

Fluor Hanford Inc

Client Sample ID: B1HK42

GC Semivolatiles

Lot-Sample #...: F6D250237-002 **Work Order #...:** H32CL1AE **Matrix.....:** SOLID
Date Sampled...: 04/13/06 **Date Received..:** 04/25/06
Prep Date.....: 04/26/06 **Analysis Date..:** 05/01/06
Prep Batch #...: 6116265
Dilution Factor: 1
% Moisture.....: 8.6 **Method.....:** SW846 8015 MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
TPH - Diesel Range - WTPH-D	ND	27	mg/kg	1.7
Kerosene	ND	27	mg/kg	0.55

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	60	(35 - 123)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: W04913 **Work Order #...:** H335V1AA **Matrix.....:** SOLID
MB Lot-Sample #: F6D260000-265

Prep Date.....: 04/26/06
Analysis Date..: 05/01/06 **Prep Batch #...:** 6116265
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	52	(35 - 123)

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: W04913 **Work Order #...:** H335V1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: F6D260000-265 H335V1AD-LCSD
Prep Date.....: 04/26/06 **Analysis Date..:** 05/01/06
Prep Batch #...: 6116265
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH - Diesel Range - WTPH-	**83.3**	**50.3**	**mg/kg**	**60**		**SW846 8015 MOD**
	83.3	**50.7**	**mg/kg**	**61**	**0.91**	**SW846 8015 MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	77	(69 - 138)
	77	(69 - 138)

NOTE(S):

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

Bold print denotes control parameters

Fluor Hanford Inc

Client Sample ID: B1HK42

TOTAL Metals

Lot-Sample #:...: F6D250237-002 **Matrix.....:** SOLID
Date Sampled...: 04/13/06 **Date Received..:** 04/25/06
% Moisture.....: 8.6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6116090						
Silver	ND	1.1	mg/kg	SW846 6010B	04/26-04/27/06	H32CL1AF
		Dilution Factor: 1		MDL.....: 0.21		
Aluminum	**13000**	**21.9**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AG**
		Dilution Factor: 1		MDL.....: 6.8		
Arsenic	**6.2**	**1.1**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AH**
		Dilution Factor: 1		MDL.....: 0.30		
Barium	**77.1**	**5.5**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AJ**
		Dilution Factor: 1		MDL.....: 0.55		
Beryllium	**0.44 B**	**0.55**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AK**
		Dilution Factor: 1		MDL.....: 0.077		
Bismuth	**103**	**21.9**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AL**
		Dilution Factor: 1		MDL.....: 5.5		
Calcium	**5320 C**	**273**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AM**
		Dilution Factor: 1		MDL.....: 9.3		
Cadmium	**30.2**	**0.55**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AN**
		Dilution Factor: 1		MDL.....: 0.15		
Cobalt	**8.7**	**5.5**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AP**
		Dilution Factor: 1		MDL.....: 0.55		
Chromium	**18.7**	**1.1**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AQ**
		Dilution Factor: 1		MDL.....: 0.39		
Copper	**13.3**	**2.7**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AR**
		Dilution Factor: 1		MDL.....: 0.33		
Iron	**17600**	**10.9**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AT**
		Dilution Factor: 1		MDL.....: 2.6		
Potassium	**1660 C**	**547**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AU**
		Dilution Factor: 1		MDL.....: 54.7		
Lithium	**13.9**	**5.5**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1A7**
		Dilution Factor: 1		MDL.....: 1.5		

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Fluor Hanford Inc

Client Sample ID: B1HK42

TOTAL Metals

Lot-Sample #...: F6D250237-002 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**5510 C**	**109**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AV**
		Dilution Factor: 1		MDL.....: 13.3		
Manganese	**321**	**1.1**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AW**
		Dilution Factor: 1		MDL.....: 0.11		
Sodium	**242 C**	**109**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1AX**
		Dilution Factor: 1		MDL.....: 10.9		
Nickel	**21.0**	**4.4**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1A0**
		Dilution Factor: 1		MDL.....: 0.83		
Lead	**5.2**	**1.1**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1A1**
		Dilution Factor: 1		MDL.....: 0.16		
Phosphorus	**636**	**54.7**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1A2**
		Dilution Factor: 1		MDL.....: 2.1		
Antimony	**0.88 B**	**1.1**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1A3**
		Dilution Factor: 1		MDL.....: 0.36		
Selenium	**0.55 B**	**1.6**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1A4**
		Dilution Factor: 1		MDL.....: 0.19		
Strontium	**29.5**	**1.1**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1A8**
		Dilution Factor: 1		MDL.....: 0.11		
Vanadium	**33.9**	**5.5**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1A5**
		Dilution Factor: 1		MDL.....: 0.74		
Zinc	**37.2 C**	**2.2**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H32CL1A6**
		Dilution Factor: 1		MDL.....: 1.5		
Prep Batch #...: 6121275						
Mercury	**43.9**	**36.4**	**ug/kg**	**SW846 7471A**	**05/01/06**	**H32CL1A9**
		Dilution Factor: 1		MDL.....: 7.3		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: W04913 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F6D260000-090 **Prep Batch #...:** 6116090						
Aluminum	ND	20.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AC
		Dilution Factor: 1				
Antimony	ND	1.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AX
		Dilution Factor: 1				
Arsenic	ND	1.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AD
		Dilution Factor: 1				
Barium	ND	5.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AE
		Dilution Factor: 1				
Beryllium	ND	0.50	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AF
		Dilution Factor: 1				
Bismuth	ND	20.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AG
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AJ
		Dilution Factor: 1				
Calcium	**9.1 B**	**250**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H33JE1AH**
		Dilution Factor: 1				
Chromium	ND	1.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AL
		Dilution Factor: 1				
Cobalt	ND	5.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AK
		Dilution Factor: 1				
Copper	ND	2.5	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AM
		Dilution Factor: 1				
Iron	ND	10.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AN
		Dilution Factor: 1				
Lead	ND	1.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AV
		Dilution Factor: 1				
Lithium	ND	5.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1A3
		Dilution Factor: 1				
Magnesium	**16.3 B**	**100**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H33JE1AQ**
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: W04913 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	ND	1.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AR
		Dilution Factor: 1				
Nickel	ND	4.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AU
		Dilution Factor: 1				
Phosphorus	ND	50.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AW
		Dilution Factor: 1				
Potassium	**119 B**	**500**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H33JE1AP**
		Dilution Factor: 1				
Selenium	ND	1.5	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1A0
		Dilution Factor: 1				
Silver	ND	1.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1AA
		Dilution Factor: 1				
Sodium	**18.3 B**	**100**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H33JE1AT**
		Dilution Factor: 1				
Strontium	ND	1.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1A4
		Dilution Factor: 1				
Vanadium	ND	5.0	mg/kg	SW846 6010B	04/26-04/27/06	H33JE1A1
		Dilution Factor: 1				
Zinc	**1.7 B**	**2.0**	**mg/kg**	**SW846 6010B**	**04/26-04/27/06**	**H33JE1A2**
		Dilution Factor: 1				

MB Lot-Sample #: F6E010000-275 **Prep Batch #...:** 6121275

Mercury	ND	33.3	ug/kg	SW846 7471A	05/01/06	H4FTC1AA
		Dilution Factor: 1				

NOTE(S):

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

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: W04913 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Aluminum	6320	5100	mg/kg	81		SW846 6010B	04/26-04/27/06	6116090
	6320	5580	mg/kg	88	8.9	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Antimony	60.9	39.6	mg/kg	65		SW846 6010B	04/26-04/27/06	6116090
	60.9	42.6	mg/kg	70	7.4	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Arsenic	161	166	mg/kg	103		SW846 6010B	04/26-04/27/06	6116090
	161	181	mg/kg	112	8.3	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Barium	252	267	mg/kg	106		SW846 6010B	04/26-04/27/06	6116090
	252	295	mg/kg	117	9.7	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Beryllium	94.4	100	mg/kg	106		SW846 6010B	04/26-04/27/06	6116090
	94.4	107	mg/kg	113	6.3	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Bismuth	100	95.8 N	mg/kg	96		SW846 6010B	04/26-04/27/06	6116090
	100	102 N,*	mg/kg	102	6.0	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Cadmium	128	132	mg/kg	103		SW846 6010B	04/26-04/27/06	6116090
	128	138	mg/kg	108	5.1	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Calcium	3320	3240	mg/kg	98		SW846 6010B	04/26-04/27/06	6116090
	3320	3540	mg/kg	107	8.8	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Chromium	69.5	65.6	mg/kg	94		SW846 6010B	04/26-04/27/06	6116090
	69.5	72.4	mg/kg	104	9.9	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Cobalt	35.2	34.6	mg/kg	98		SW846 6010B	04/26-04/27/06	6116090
	35.2	37.0	mg/kg	105	6.7	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: W04913 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Copper	148	151	mg/kg	102		SW846 6010B	04/26-04/27/06	6116090
	148	159	mg/kg	107	5.4	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Iron	11200	9950	mg/kg	89		SW846 6010B	04/26-04/27/06	6116090
	11200	10700	mg/kg	95	7.2	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Lead	142	142	mg/kg	100		SW846 6010B	04/26-04/27/06	6116090
	142	156	mg/kg	110	8.9	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Lithium	100	97.0	mg/kg	97		SW846 6010B	04/26-04/27/06	6116090
	100	99.0 *	mg/kg	99	2.1	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Magnesium	2040	1920	mg/kg	94		SW846 6010B	04/26-04/27/06	6116090
	2040	2080	mg/kg	102	8.2	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Manganese	408	393	mg/kg	96		SW846 6010B	04/26-04/27/06	6116090
	408	418	mg/kg	103	6.3	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Nickel	147	147	mg/kg	100		SW846 6010B	04/26-04/27/06	6116090
	147	157	mg/kg	107	6.4	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Phosphorus	500	475 N	mg/kg	95		SW846 6010B	04/26-04/27/06	6116090
	500	490 N,*	mg/kg	98	3.0	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Potassium	1920	2090	mg/kg	109		SW846 6010B	04/26-04/27/06	6116090
	1920	1890	mg/kg	98	10	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Selenium	64.2	66.0	mg/kg	103		SW846 6010B	04/26-04/27/06	6116090
	64.2	71.3	mg/kg	111	7.7	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: W04913 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Silver	130	145	mg/kg	111		SW846 6010B	04/26-04/27/06	6116090
	130	157	mg/kg	121	8.2	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Sodium	445	449	mg/kg	101		SW846 6010B	04/26-04/27/06	6116090
	445	469	mg/kg	105	4.4	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Strontium	84.0	90.5	mg/kg	108		SW846 6010B	04/26-04/27/06	6116090
	84.0	97.6	mg/kg	116	7.6	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Vanadium	97.3	91.3	mg/kg	94		SW846 6010B	04/26-04/27/06	6116090
	97.3	99.3	mg/kg	102	8.4	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					
Zinc	165	158	mg/kg	96		SW846 6010B	04/26-04/27/06	6116090
	165	170	mg/kg	103	7.1	SW846 6010B	04/26-04/27/06	6116090
			Dilution Factor: 1					

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: W04913 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F6E010000-275 **Prep Batch #...:** 6121275							
Mercury	16900	17700	ug/kg	105	SW846 7471A	05/01/06	H4FTC1AC
			Dilution Factor: 20				

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: W04913 **Matrix.....:** SOLID
Date Sampled...: 04/13/06 **Date Received..:** 04/25/06

MS Lot-Sample #: F6D250237-002 **Prep Batch #...:** 6121275
% Moisture.....: 8.6

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Mercury									
	43.9	182	237	ug/kg	106		SW846 7471A	05/01/06	H32CL1EE
	43.9	182	230	ug/kg	102	3.1	SW846 7471A	05/01/06	H32CL1EF

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.

Fluor Hanford Inc

Client Sample ID: B1HK40

General Chemistry

Lot-Sample #...: F6D250237-001 **Work Order #...:** H3192 **Matrix.....:** SOLID
Date Sampled...: 04/13/06 **Date Received..:** 04/25/06
% Moisture.....: 7.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	7.7	0.10	%	MCAWW 160.3 MOD	04/26-04/27/06	6116097

Dilution Factor: 1 MDL.....:

Fluor Hanford Inc

Client Sample ID: B1HK42

General Chemistry

Lot-Sample #...: F6D250237-002 **Work Order #...:** H32CL **Matrix.....:** SOLID
Date Sampled...: 04/13/06 **Date Received..:** 04/25/06
% Moisture.....: 8.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphate as P, Ortho	ND	5.5	mg/kg	SW846 9056A	05/15/06	6135538
		Dilution Factor: 1		MDL.....: 0.20		
Cation Exchange Capacity	**11.4**	**5.0**	**meq/100g**	**SW846 9081**	**04/28/06**	**6118126**
		Dilution Factor: 10		MDL.....:		
Chloride	**5.7 C**	**2.2**	**mg/kg**	**SW846 9056A**	**05/15/06**	**6135536**
		Dilution Factor: 1		MDL.....: 0.69		
Fluoride	**51.4**	**10.9**	**mg/kg**	**SW846 9056A**	**05/15-05/16/06**	**6135537**
		Dilution Factor: 10		MDL.....: 0.56		
Hexavalent Chromium	ND	0.44	mg/kg	SW846 7196A	05/03/06	6123131
		Dilution Factor: 1		MDL.....: 0.16		
Nitrate/Nitrite as N	**129**	**10.9**	**mg/kg**	**MCAWW 353.1**	**05/03/06**	**6123443**
		Dilution Factor: 20		MDL.....: 0.68		
Nitrogen, as Ammonia	ND	5.5	mg/kg	MCAWW 350.1	04/26/06	6116126
		Dilution Factor: 1		MDL.....: 2.3		
Oil and Grease (Gravimetric)	ND	219	mg/kg	MCAWW 413.1	05/15-05/16/06	6136210
		Dilution Factor: 1		MDL.....: 82.3		
Percent Moisture	**8.6**	**0.10**	**%**	**MCAWW 160.3 MOD**	**04/26-04/27/06**	**6116097**
		Dilution Factor: 1		MDL.....:		
Sulfate	**82.9**	**5.5**	**mg/kg**	**SW846 9056A**	**05/15/06**	**6135539**
		Dilution Factor: 1		MDL.....: 0.67		
Total Inorganic Carbon	ND	27.3	mg/kg	SW846 9060	05/02/06	6122504
		Dilution Factor: 1		MDL.....: 8.6		
Total Organic Carbon	**957**	**27.3**	**mg/kg**	**SW846 9060**	**05/03/06**	**6123416**
		Dilution Factor: 1		MDL.....: 22.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

C Analyte detected in method blank above the MDL/IDL.

Fluor Hanford Inc

Client Sample ID: B1HK57

General Chemistry

Lot-Sample #...: F6E050264-001 **Work Order #...:** H4T19 **Matrix.....:** SOLID
Date Sampled...: 04/18/06 **Date Received..:** 05/05/06
% Moisture.....: 17

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cation Exchange Capacity	**13.1**	**5.0**	**meq/100g**	**SW846 9081**	**05/22-05/23/06**	**6142087**
		Dilution Factor: 10		MDL.....:		
Hexavalent Chromium	ND	0.48	mg/kg	SW846 7196A	05/24/06	6144562
		Dilution Factor: 1		MDL.....: 0.18		
Nitrate/Nitrite as N	**236**	**24.2**	**mg/kg**	**MCAWW 353.1**	**05/11/06**	**6131334**
		Dilution Factor: 40		MDL.....: 1.5		
Oil and Grease (Gravimetric)	ND	242	mg/kg	MCAWW 413.1	05/23-05/24/06	6144538
		Dilution Factor: 1		MDL.....: 91.1		
Percent Moisture	**17.4**	**0.10**	**%**	**MCAWW 160.3 MOD**	**05/09-05/10/06**	**6129396**
		Dilution Factor: 1		MDL.....:		
Total Inorganic Carbon	**1020**	**30.3**	**mg/kg**	**SW846 9060**	**05/16/06**	**6143595**
		Dilution Factor: 1		MDL.....: 9.5		
Total Organic Carbon	**3660**	**30.3**	**mg/kg**	**SW846 9060**	**05/10/06**	**6136573**
		Dilution Factor: 1		MDL.....: 24.4		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: W04913 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cation Exchange Capacity		Work Order #: H39881AA		MB Lot-Sample #:	F6D280000-126	
	ND	5.0	meq/100g	SW846 9081	04/28/06	6118126
		Dilution Factor: 10				
Cation Exchange Capacity		Work Order #: H5WP21AA		MB Lot-Sample #:	F6E220000-087	
	ND	5.0	meq/100g	SW846 9081	05/22-05/23/06	6142087
		Dilution Factor: 10				
Chloride		Work Order #: H5E5R1AA		MB Lot-Sample #:	F6E150000-536	
	0.25 B	**2.0**	**mg/kg**	**SW846 9056A**	**05/15/06**	**6135536**
		Dilution Factor: 1				
Fluoride		Work Order #: H5E5T1AA		MB Lot-Sample #:	F6E150000-537	
	ND	1.0	mg/kg	SW846 9056A	05/15/06	6135537
		Dilution Factor: 1				
Hexavalent Chromium		Work Order #: H4K4L1AA		MB Lot-Sample #:	F6E030000-131	
	ND	0.40	mg/kg	SW846 7196A	05/03/06	6123131
		Dilution Factor: 1				
Hexavalent Chromium		Work Order #: H54HP1AA		MB Lot-Sample #:	F6E240000-562	
	ND	0.40	mg/kg	SW846 7196A	05/24/06	6144562
		Dilution Factor: 1				
Nitrate/Nitrite as N		Work Order #: H4L471AA		MB Lot-Sample #:	F6E030000-443	
	ND	0.50	mg/kg	MCAWW 353.1	05/03/06	6123443
		Dilution Factor: 1				
Nitrate/Nitrite as N		Work Order #: H46WN1AA		MB Lot-Sample #:	F6E110000-334	
	ND	0.50	mg/kg	MCAWW 353.1	05/11/06	6131334
		Dilution Factor: 1				
Nitrogen, as Ammonia		Work Order #: H33LX1AA		MB Lot-Sample #:	F6D260000-126	
	ND	5.0	mg/kg	MCAWW 350.1	04/26/06	6116126
		Dilution Factor: 1				
Oil and Grease (Gravimetric)		Work Order #: H5F111AA		MB Lot-Sample #:	F6E160000-210	
	ND	200	mg/kg	MCAWW 413.1	05/15-05/16/06	6136210
		Dilution Factor: 1				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: W04913 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Oil and Grease (Gravimetric)		Work Order #: H54CM1AA		MB Lot-Sample #:	F6E240000-538	
	ND	200	mg/kg	MCAWW 413.1	05/23-05/24/06	6144538
		Dilution Factor: 1				
Phosphate as P, Ortho		Work Order #: H5E5V1AA		MB Lot-Sample #:	F6E150000-538	
	ND	5.0	mg/kg	SW846 9056A	05/15/06	6135538
		Dilution Factor: 1				
Sulfate		Work Order #: H5E5X1AA		MB Lot-Sample #:	F6E150000-539	
	ND	5.0	mg/kg	SW846 9056A	05/15/06	6135539
		Dilution Factor: 1				
Total Inorganic Carbon		Work Order #: H4J771AA		MB Lot-Sample #:	F6E020000-504	
	ND	25.0	mg/kg	SW846 9060	05/02/06	6122504
		Dilution Factor: 1				
Total Inorganic Carbon		Work Order #: H51431AA		MB Lot-Sample #:	F6E230000-595	
	ND	25.0	mg/kg	SW846 9060	05/16/06	6143595
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: H4L8N1AA		MB Lot-Sample #:	F6E030000-416	
	ND	25.0	mg/kg	SW846 9060	05/03/06	6123416
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: H51401AA		MB Lot-Sample #:	F6E160000-573	
	ND	25.0	mg/kg	SW846 9060	05/10/06	6136573
		Dilution Factor: 1				

NOTE(S):

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

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: W04913 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			WO#:H5E5R1AC-LCS/H5E5R1AD-LCSD				LCS Lot-Sample#: F6E150000-536	
	10.0	9.48	mg/kg	95		SW846 9056A	05/15/06	6135536
	10.0	9.55	mg/kg	96	0.74	SW846 9056A	05/15/06	6135536
			Dilution Factor: 1					
Fluoride			WO#:H5E5T1AC-LCS/H5E5T1AD-LCSD				LCS Lot-Sample#: F6E150000-537	
	5.00	4.68	mg/kg	94		SW846 9056A	05/15/06	6135537
	5.00	4.66	mg/kg	93	0.54	SW846 9056A	05/15/06	6135537
			Dilution Factor: 1					
Hexavalent Chromium			WO#:H4K4L1AC-LCS/H4K4L1AD-LCSD				LCS Lot-Sample#: F6E030000-131	
	2.00	1.95	mg/kg	97		SW846 7196A	05/03/06	6123131
	2.00	2.11	mg/kg	106	8.3	SW846 7196A	05/03/06	6123131
			Dilution Factor: 1					
Hexavalent Chromium			WO#:H54HP1AC-LCS/H54HP1AD-LCSD				LCS Lot-Sample#: F6E240000-562	
	2.00	1.99	mg/kg	100		SW846 7196A	05/24/06	6144562
	2.00	1.74	mg/kg	87	13	SW846 7196A	05/24/06	6144562
			Dilution Factor: 1					
Nitrate/Nitrite as N			WO#:H4L471AC-LCS/H4L471AD-LCSD				LCS Lot-Sample#: F6E030000-443	
	1.81	1.79	mg/kg	99		MCAWW 353.1	05/03/06	6123443
	1.81	1.84	mg/kg	102	2.8	MCAWW 353.1	05/03/06	6123443
			Dilution Factor: 1					
Nitrate/Nitrite as N			WO#:H46WN1AC-LCS/H46WN1AD-LCSD				LCS Lot-Sample#: F6E110000-334	
	1.81	1.77	mg/kg	98		MCAWW 353.1	05/11/06	6131334
	1.81	1.81	mg/kg	100	2.2	MCAWW 353.1	05/11/06	6131334
			Dilution Factor: 1					
Nitrogen, as Ammonia			WO#:H33LX1AC-LCS/H33LX1AD-LCSD				LCS Lot-Sample#: F6D260000-126	
	4.00	3.61	mg/kg	90		MCAWW 350.1	04/26/06	6116126
	4.00	3.74	mg/kg	94	3.5	MCAWW 350.1	04/26/06	6116126
			Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: W04913 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Oil and Grease (Gravimetric)		WO#:H5F111AC-LCS/H5F111AD-LCSD					LCS Lot-Sample#: F6E160000-210	
	3330	4600 N	mg/kg	138		MCAWW 413.1	05/15-05/16/06	6136210
	3330	4500 N	mg/kg	135	2.2	MCAWW 413.1	05/15-05/16/06	6136210
		Dilution Factor: 1						
Oil and Grease (Gravimetric)		WO#:H54CM1AC-LCS/H54CM1AD-LCSD					LCS Lot-Sample#: F6E240000-538	
	3330	3100	mg/kg	93		MCAWW 413.1	05/23-05/24/06	6144538
	3330	3000	mg/kg	90	3.3	MCAWW 413.1	05/23-05/24/06	6144538
		Dilution Factor: 1						
Phosphate as P, Ortho		WO#:H5E5V1AC-LCS/H5E5V1AD-LCSD					LCS Lot-Sample#: F6E150000-538	
	40.0	38.3	mg/kg	96		SW846 9056A	05/15/06	6135538
	40.0	39.0	mg/kg	97	1.8	SW846 9056A	05/15/06	6135538
		Dilution Factor: 1						
Sulfate		WO#:H5E5X1AC-LCS/H5E5X1AD-LCSD					LCS Lot-Sample#: F6E150000-539	
	40.0	37.6	mg/kg	94		SW846 9056A	05/15/06	6135539
	40.0	37.6	mg/kg	94	0.18	SW846 9056A	05/15/06	6135539
		Dilution Factor: 1						
Total Inorganic Carbon		WO#:H4J771AC-LCS/H4J771AD-LCSD					LCS Lot-Sample#: F6E020000-504	
	600	608	mg/kg	101		SW846 9060	05/02/06	6122504
	600	596	mg/kg	99	2.0	SW846 9060	05/02/06	6122504
		Dilution Factor: 1						
Total Inorganic Carbon		WO#:H51431AC-LCS/H51431AD-LCSD					LCS Lot-Sample#: F6E230000-595	
	600	615	mg/kg	103		SW846 9060	05/16/06	6143595
	600	605	mg/kg	101	1.7	SW846 9060	05/16/06	6143595
		Dilution Factor: 1						
Total Organic Carbon		WO#:H4L8N1AC-LCS/H4L8N1AD-LCSD					LCS Lot-Sample#: F6E030000-416	
	600	591	mg/kg	98		SW846 9060	05/03/06	6123416
	600	587	mg/kg	98	0.72	SW846 9060	05/03/06	6123416
		Dilution Factor: 1						

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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: W04913 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon		WO#:H51401AC-LCS/H51401AD-LCSD				LCS Lot-Sample#: F6E160000-573		
	600	592	mg/kg	99		SW846 9060	05/10/06	6136573
	600	656	mg/kg	109	10	SW846 9060	05/10/06	6136573

Dilution Factor: 1

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: W04913 **Matrix.....:** SOLID
Date Sampled...: 05/03/06 **Date Received..:** 05/19/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
							% Moisture.....: 0.0		
Hexavalent Chromium			WO#: H5R881AJ-MS/H5R881AK-MSD				MS Lot-Sample #: F6E190261-005		
	ND	40.0	41.0	mg/kg	103		SW846 7196A	05/24/06	6144562
	ND	1290	1400 *	mg/kg	108	189	SW846 7196A	05/24/06	6144562
			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.

N Spiked analyte recovery is outside stated control limits.

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: W04913 **Matrix.....:** SOLID
Date Sampled...: 04/13/06 **Date Received..:** 04/25/06

Percnt Moisture: 0.0

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #...:		H32CL1EJ		MS Lot-Sample #:	F6D250237-002
	5.7	21.9	28.3	mg/kg	103	SW846 9056A	05/15/06	6135536
			Dilution Factor: 1					
Fluoride			Work Order #...:		H32CL1EL		MS Lot-Sample #:	F6D250237-002
	51.4	21.9	292 N	mg/kg	1100	SW846 9056A	05/15-05/16/06	6135537
			Dilution Factor: 10					
Nitrate/Nitrite as N			Work Order #...:		H32CL1EG		MS Lot-Sample #:	F6D250237-002
	129	24.7	154	mg/kg	102	MCAWW 353.1	05/03/06	6123443
			Dilution Factor: 1					
Nitrate/Nitrite as N			Work Order #...:		H4T191AK		MS Lot-Sample #:	F6E050264-001
	236	54.7	286	mg/kg	91	MCAWW 353.1	05/11/06	6131334
			Dilution Factor: 1					
Nitrogen, as Ammonia			Work Order #...:		H32CL1EC		MS Lot-Sample #:	F6D250237-002
	ND	5.47	6.63	mg/kg	99	MCAWW 350.1	04/26/06	6116126
			Dilution Factor: 1					
Oil and Grease (Gravimetric)			Work Order #...:		H32CL1ET		MS Lot-Sample #:	F6D250237-002
	ND	4380	3830	mg/kg	88	MCAWW 413.1	05/15-05/16/06	6136210
			Dilution Factor: 1					
Oil and Grease (Gravimetric)			Work Order #...:		H4T191AN		MS Lot-Sample #:	F6E050264-001
	ND	4840	3630	mg/kg	75	MCAWW 413.1	05/23-05/24/06	6144538
			Dilution Factor: 1					
Phosphate as P, Ortho			Work Order #...:		H32CL1EN		MS Lot-Sample #:	F6D250237-002
	ND	21.9	38.8 N	mg/kg	177	SW846 9056A	05/15/06	6135538
			Dilution Factor: 1					
Sulfate			Work Order #...:		H32CL1EQ		MS Lot-Sample #:	F6D250237-002
	82.9	43.8	127	mg/kg	101	SW846 9056A	05/15/06	6135539
			Dilution Factor: 1					
Total Organic Carbon			Work Order #...:		H4E6H1A5		MS Lot-Sample #:	F6D290214-001
	3850	687	6850 N	mg/kg	437	SW846 9060	05/03/06	6123416
			Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: W04913 **Matrix.....:** SOLID
Date Sampled...: 04/13/06 **Date Received..:** 04/25/06

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.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F6D250237 **Work Order #...:** H32PQ-SMP H32PQ-DUP **Matrix.....:** SOLID

Date Sampled...: 04/24/06 **Date Received..:** 04/25/06

% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	F6D250294-002	
	14.7	21.8	%	39	(0-30)	MCAWW 160.3 MOD	04/26-04/27/06	6116097

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F6D250237 **Work Order #...:** H3FF5-SMP H3FF5-DUP **Matrix.....:** SOLID

Date Sampled...: 04/04/06 **Date Received..:** 04/15/06

% Moisture.....: 7.4

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Cation Exchange Capacity						SD Lot-Sample #: F6D170197-002		
	9.7	9.0	meq/100g	7.7	(0-0.0)	SW846 9081	04/28/06	6118126

Dilution Factor: 10

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F6D250237 **Work Order #...:** H4E6H-SMP **Matrix.....:** SOLID
H4E6H-DUP
Date Sampled...: 04/24/06 **Date Received..:** 04/29/06
% Moisture.....: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon						SD Lot-Sample #:	F6D290214-001	
	3850	2920	mg/kg	27	(0-30)	SW846 9060	05/03/06	6123416

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 #...: F6D250237 **Work Order #...:** H4T19-SMP H4T19-DUP **Matrix.....:** SOLID

Date Sampled...: 04/18/06 **Date Received..:** 05/05/06

% Moisture.....: 17

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	F6E050264-001	
	17.4	17.2	%	1.3	(0-30)	MCAWW 160.3 MOD	05/09-05/10/06	6129396
			Dilution Factor: 1					
Nitrate/Nitrite as N						SD Lot-Sample #:	F6E050264-001	
	236	240	mg/kg	1.5	(0-30)	MCAWW 353.1	05/11/06	6131334
			Dilution Factor: 40					
Cation Exchange Capacity						SD Lot-Sample #:	F6E050264-001	
	13.1	14.0	meq/100g	7.2	(0-0.0)	SW846 9081	05/22-05/23/06	6142087
			Dilution Factor: 10					

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 #...: F6D250237 **Work Order #...:** H32CL-SMP **Matrix.....:** SOLID
H32CL-DUP
Date Sampled...: 04/13/06 **Date Received..:** 04/25/06
% Moisture.....: 8.6

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #:	F6D250237-002	
	5.7 C	5.8	mg/kg	0.89	(0-30)	SW846 9056A	05/15/06	6135536
			Dilution Factor: 1					
Fluoride						SD Lot-Sample #:	F6D250237-002	
	51.4	51.2 B	mg/kg	0.42	(0-30)	SW846 9056A	05/15-05/16/06	6135537
			Dilution Factor: 10					
Phosphate as P, Ortho						SD Lot-Sample #:	F6D250237-002	
	ND	ND	mg/kg	0	(0-30)	SW846 9056A	05/15/06	6135538
			Dilution Factor: 1					
Sulfate						SD Lot-Sample #:	F6D250237-002	
	82.9	82.4	mg/kg	0.57	(0-30)	SW846 9056A	05/15/06	6135539
			Dilution Factor: 1					
Nitrate/Nitrite as N						SD Lot-Sample #:	F6D250237-002	
	129	132	mg/kg	2.5	(0-30)	MCAWW 353.1	05/03/06	6123443
			Dilution Factor: 20					
Nitrogen, as Ammonia						SD Lot-Sample #:	F6D250237-002	
	ND	ND	mg/kg	22	(0-30)	MCAWW 350.1	04/26/06	6116126
			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.

C Analyte detected in method blank above the MDL/IDL.

B Estimated result. Result is less than RL.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F6D250237 **Work Order #...:** H5R88-SMP **Matrix.....:** SOLID
H5R88-DUP
Date Sampled...: 05/03/06 **Date Received..:** 05/19/06
% Moisture.....: 0.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Hexavalent Chromium						SD Lot-Sample #:	F6E190261-005	
	ND	ND	mg/kg	0	(0-30)	SW846 7196A	05/24/06	6144562

Dilution Factor: 1

SDG# W04913

STL ST. LOUIS

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F06-005-035	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Mokler/Pope/Pfister	TRENT, SJ	373-5869	TRENT, SJ	AIR QUALITY ☐	45 Days / 45 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C3427, Slant, I-18	216-Z-9 Trench Slant Characterization Borehole - Soil	F06-005

ICE CHEST NO.	FIELD LOGBOOK NO.	COA	METHOD OF SHIPMENT
2103-050024	HNF-N-360-1	121618ES10	FEDERAL EXPRESS

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
Severn Trent St. Louis	See RSR FJ010000	See RSR FJ010000

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

SPECIAL HANDLING AND/OR STORAGE
NOTE: ORIGINAL COC ATTACHED TO DOCUMENT CHAIN OF POSSESSION

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

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1HK40	SOIL	4/13/06	0915	X

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Z-9 Site Friday	4/24/06 1135	M.H. Beuchler/M.G. Beuchler	4/24/06 1135
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
M.H. Beuchler/M.G. Beuchler	4/24/06 1135	Fed EX	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
		B-[illegible]	4/25/06 09:15
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

VOA bottles will be labeled with an appended suffix of K, L, M, N, and P. These suffixes should NOT be used as part of the sample ID reported in the final data packages.***
The laboratory is to use one VOA bottle for moisture content determination
(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, 1-Butanol, Acetonitrile, Cyclohexanone, Hexane, n-Butylbenzene}

SDG: W04913

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

A-6003-618(01/06)

SDG# W04913

STL ST. LOUIS

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F06-005-035	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Mokler/Pope/Pfister / W/MAF	TRENT, SJ	373-5869	TRENT, SJ		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	45 Days / 45 Days
C3427, Slant, I-18	216-Z-9 Trench Slant Characterization Borehole - Soil		F06-005		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA**	**METHOD OF SHIPMENT**		
	HNF-N-360-1	121618ES10	GOVERNMENT VEHICLE		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Waste Sampling & Characterization					

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		
	PRESERVATION	Cool <-7C and >-20C
	TYPE OF CONTAINER	aGs*
	NO. OF CONTAINER(S)	5 PMG 4/17/06
	VOLUME	40mL
SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1HK40	SOIL	4/13/6	0915	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Nealon / [illegible]	4/13/6-1240	SITE FREEZER 29	4/13/6-1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

VOA bottles will be labeled with an appended suffix ofK, L, M, and N. These suffixes should NOT be used as part of the sample ID reported in the final data packages.

The laboratory is to use one VOA bottle for moisture content determination

(1)VOA - 5035/8260 (LOW LEVEL); VOA - 5035/8260 (LOW LEVEL) - (Add-On) {1-Butanol, Acetonitrile, Hexane, n-Butylbenzene}

AND P' PMG 4/17/06

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

A-6003-618(03/03)

SDG# W04913

STL ST. LOUIS

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F06-005-037	PAGE 1 OF 1
COLLECTOR Mokler/Pope/Pfister	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 8N AIR QUALITY ☐	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C3427, Slant, I-18	PROJECT DESIGNATION 216-Z-9 Trench Slant Characterization Borehole - Soil		SAF NO. F06-005		
ICE CHEST NO. 2103-050024	FIELD LOGBOOK NO. HNF-N-360-1	COA 121618ES10	METHOD OF SHIPMENT FEDERAL EXPRESS		
SHIPPED TO Severn Trent St. Louis	OFFSITE PROPERTY NO. See RSR FJ010000		BILL OF LADING/AIR BILL NO. See RSR FJ010000		

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

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION				Cool 4C	Cool 4C	Cool 4C	Cool 4C						
TYPE OF CONTAINER				aG	aG	G	G						
NO. OF CONTAINER(S)				1	1	1	1						
VOLUME				120mL	120mL	120mL	120mL						
SAMPLE ANALYSIS				SEE ITEM (1) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS						
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1HK42	SOIL	4/13/06	0915	X	X	X	X						

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Z-9 Site Fridge 4/24/06	DATE/TIME 1135	RECEIVED BY/STORED IN M.H. Baechler M.G. Baechler 4/24/06	DATE/TIME 1135
RELINQUISHED BY/REMOVED FROM M.H. Baechler M.G. Baechler 4/24/06	DATE/TIME 1135	RECEIVED BY/STORED IN Fed Y X	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN [signature] 4/25/06	DATE/TIME 1095
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

NOTE: ORIGINAL COC ATTACHED TO DOCUMENT CHAIN OF POSSESSION
(1)Semi-VOA - 8270B (TCL); Semi-VOA - 8270B (Add-On) {Dibutyl Butylphosphonate, Tributyl phosphate} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range}
(2)ICP Metals - 6010B (TAL); ICP Metals - 6010B (Add-On) {Arsenic, Beryllium, Bismuth, Lead, Lithium, Phosphorus, Selenium, Strontium} Mercury - 7471 - (CV);
(3)IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphate, Sulfate} Ammonia - 350.1;

1 of 2 - [initials]

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

A-6003-618(01/06)

SDG# W0491 3

STL ST. LOUIS

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F06-005-037	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	8N	DATA TURNAROUND
Mokler/Pope/Pfister / WISE	TRENT, SJ	373-5869	TRENT, SJ	AIR QUALITY	☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**			
C3427, Slant, I-18	216-Z-9 Trench Slant Characterization Borehole - Soil		F06-005			
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA**	**METHOD OF SHIPMENT**			
	HNF-N-360-1	121618ES10	GOVERNMENT VEHICLE			
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**			
Waste Sampling & Characterization						

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

ITEM #1 – 190g
ITEM #2 – 189g
PCBs – 179g
ITEM #3 – 185g

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool 4C	Cool 4C	Cool 4C	Cool 4C					
TYPE OF CONTAINER	aG	aG	G/P	G					
NO. OF CONTAINER(S)	1	1	1	1					
VOLUME	120mL	120mL	120mL	120mL					
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	PCBs - 8082;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS					

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1HK42	SOIL	4/13/6	0915	✓	✓	✓	✓						

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Smoldn Dulle	4/13/6-1240	Site Ref 29	4/13/6-1240

SPECIAL INSTRUCTIONS

(1)Semi-VOA - 8270B (TCL); Semi-VOA - 8270B (Add-On) {1,2,4-Trimethylbenzene, Cyclohexanone, Dibutyl Butylphosphonate, Tributyl phosphate}
(2)ICP Metals - 6010B (TAL); ICP Metals - 6010B (Add-On) {Arsenic, Beryllium, Bismuth, Lead, Lithium, Phosphorus, Selenium, Strontium} ICP/MS - 200.8 (Hg);
(3)IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate} Cations (IC) - 300.7 {Nitrogen in ammonium}

DEPTH - 118.5' - 120.5'

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

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F06-005-038	PAGE 1 OF 1
COLLECTOR Mokler/Pope/Pfister/WISE	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 8N AIR QUALITY ☐	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION C3427, Slant, I-18	PROJECT DESIGNATION 216-Z-9 Trench Slant Characterization Borehole - Soil		SAF NO. F06-005		
ICE CHEST NO. 2103-050024	FIELD LOGBOOK NO. HNF-N-360-1	COA 121618ES10	METHOD OF SHIPMENT FEDERAL EXPRESS		
SHIPPED TO Severn Trent St. Louis	OFFSITE PROPERTY NO. See RSR FJ010000		BILL OF LADING/AIR BILL NO. See RSR FJ010000		

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
ITEM #1 - 346g
ITEM #2 - 190g

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool 4C	Cool 4C									
TYPE OF CONTAINER	G	aG									
NO. OF CONTAINER(S)	1	1									
VOLUME	250mL	120mL									
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS									

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME									
B1HK42	SOIL	4/13/6	0915	\	\							

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM J. Mokler [signature]	DATE/TIME 4/13/6 1240	RECEIVED BY/STORED IN SITE REF	DATE/TIME 4/13/6 - 1240
RELINQUISHED BY/REMOVED FROM Z-9 Site Fridge	DATE/TIME 4/24/06 1115	RECEIVED BY/STORED IN M.H. Baechler M.G. Baechler	DATE/TIME 4/24/06 1115
RELINQUISHED BY/REMOVED FROM M.H. Baechler M.G. Baechler	DATE/TIME 4/24/06 1115	RECEIVED BY/STORED IN Fed Ex	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(1)NO2/NO3 - 353.1; Soil Cation Exchange Capacity - 9080; Chromium Hex - 7196; Oil & Grease - 413.1;
(2)TOC - 415.1 {Total organic carbon} TIC - 415.1M {Total Inorganic Carbon}

DEPTH 118.5' - 120.5'

282 - MAS

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

A-6003-618(03/03)

14 - Apr - 2006 10:32:27
DSRHardcopyWOLimits 1.2
DSR.Jar v. 2.7.17

I-18

GEA Radscreen Results for SDG 222S20060436
Z9 SLANT 1

Category: R
Core Number: 222S20060436
Segment Number: B1HKC9-A
Segment Portion: Special Sample (Total)

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err %	Qual Flags
S06Z001077			Actinium-228	uCi/g	n/a	n/a	<1.4E-05	n/a	n/a	n/a	n/a	1.4E-05	n/a	U
S06Z001077			Aluminum-28	uCi/g	n/a	n/a	<1.1E-04	n/a	n/a	n/a	n/a	1.1E-04	n/a	U
S06Z001077			Americium-241	uCi/g	n/a	n/a	0.0832	n/a	n/a	n/a	n/a	1.9E-04	6.06	
S06Z001077			Americium-243	uCi/g	n/a	n/a	<6.1E-06	n/a	n/a	n/a	n/a	6.1E-06	n/a	U
S06Z001077			Antimony-124	uCi/g	n/a	n/a	<2.9E-06	n/a	n/a	n/a	n/a	2.9E-06	n/a	U
S06Z001077			Antimony-125	uCi/g	n/a	n/a	<9.0E-06	n/a	n/a	n/a	n/a	9.0E-06	n/a	U
S06Z001077			Antimony-126	uCi/g	n/a	n/a	<3.1E-06	n/a	n/a	n/a	n/a	3.1E-06	n/a	U
S06Z001077			Argon-41	uCi/g	n/a	n/a	<5.5E-06	n/a	n/a	n/a	n/a	5.5E-06	n/a	U
S06Z001077			Barium-133	uCi/g	n/a	n/a	<4.6E-06	n/a	n/a	n/a	n/a	4.6E-06	n/a	U
S06Z001077			Barium-140	uCi/g	n/a	n/a	<1.1E-05	n/a	n/a	n/a	n/a	1.1E-05	n/a	U
S06Z001077			Beryllium-7	uCi/g	n/a	n/a	<2.6E-05	n/a	n/a	n/a	n/a	2.6E-05	n/a	U
S06Z001077			Bismuth-207	uCi/g	n/a	n/a	<4.5E-06	n/a	n/a	n/a	n/a	4.5E-06	n/a	U
S06Z001077			Bismuth-212	uCi/g	n/a	n/a	<2.6E-05	n/a	n/a	n/a	n/a	2.6E-05	n/a	U
S06Z001077			Bismuth-214	uCi/g	n/a	n/a	<7.9E-06	n/a	n/a	n/a	n/a	7.9E-06	n/a	U
S06Z001077			Cadmium-109	uCi/g	n/a	n/a	<9.7E-05	n/a	n/a	n/a	n/a	9.7E-05	n/a	U
S06Z001077			Cerium-139	uCi/g	n/a	n/a	<2.2E-06	n/a	n/a	n/a	n/a	2.2E-06	n/a	U
S06Z001077			Cerium-141	uCi/g	n/a	n/a	<3.6E-06	n/a	n/a	n/a	n/a	3.6E-06	n/a	U
S06Z001077			Cerium-144	uCi/g	n/a	n/a	<1.5E-05	n/a	n/a	n/a	n/a	1.5E-05	n/a	U
S06Z001077			Cerium/Praseodymium-144	uCi/g	n/a	n/a	<3.0E-05	n/a	n/a	n/a	n/a	3.0E-05	n/a	U
S06Z001077			Cesium-134	uCi/g	n/a	n/a	<3.4E-06	n/a	n/a	n/a	n/a	3.4E-06	n/a	U
S06Z001077			Cesium-136	uCi/g	n/a	n/a	<3.1E-06	n/a	n/a	n/a	n/a	3.1E-06	n/a	U
S06Z001077			Cesium-137	uCi/g	n/a	n/a	<4.1E-06	n/a	n/a	n/a	n/a	4.1E-06	n/a	U
S06Z001077			Cesium-138	uCi/g	n/a	n/a	<1.4E-05	n/a	n/a	n/a	n/a	1.4E-05	n/a	U
S06Z001077			Chlorine-38	uCi/g	n/a	n/a	<2.6E-05	n/a	n/a	n/a	n/a	2.6E-05	n/a	U
S06Z001077			Chromium-51	uCi/g	n/a	n/a	<2.4E-05	n/a	n/a	n/a	n/a	2.4E-05	n/a	U
S06Z001077			Cobalt-56	uCi/g	n/a	n/a	<3.3E-06	n/a	n/a	n/a	n/a	3.3E-06	n/a	U
S06Z001077			Cobalt-57	uCi/g	n/a	n/a	<2.1E-06	n/a	n/a	n/a	n/a	2.1E-06	n/a	U
S06Z001077			Cobalt-58	uCi/g	n/a	n/a	<3.2E-06	n/a	n/a	n/a	n/a	3.2E-06	n/a	U
S06Z001077			Cobalt-60	uCi/g	n/a	n/a	<3.4E-06	n/a	n/a	n/a	n/a	3.4E-06	n/a	U

14 - Apr - 2006 10:32:27
DSRHardcopyWOLimits 1.2
DSR.Jar v. 2.7.17

GEA Radscreen Results for SDG 222S20060436
Z9 SLANT 1

Category: R
Core Number: 222S20060436
Segment Number: B1HKC9-A
Segment Portion: Special Sample (Total)

Sample# R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err %	Qual Flags
S06Z001077		Copper-64	uCi/g	n/a	n/a	<7.2E-04	n/a	n/a	n/a	n/a	7.2E-04	n/a	U
S06Z001077		Copper-66	uCi/g	n/a	n/a	<7.7E-04	n/a	n/a	n/a	n/a	7.7E-04	n/a	U
S06Z001077		Europium-152	uCi/g	n/a	n/a	<1.8E-05	n/a	n/a	n/a	n/a	1.8E-05	n/a	U
S06Z001077		Europium-154	uCi/g	n/a	n/a	<1.0E-05	n/a	n/a	n/a	n/a	1.0E-05	n/a	U
S06Z001077		Europium-155	uCi/g	n/a	n/a	<1.0E-05	n/a	n/a	n/a	n/a	1.0E-05	n/a	U
S06Z001077		Gold-198	uCi/g	n/a	n/a	<2.8E-06	n/a	n/a	n/a	n/a	2.8E-06	n/a	U
S06Z001077		Hafnium-181	uCi/g	n/a	n/a	<3.3E-06	n/a	n/a	n/a	n/a	3.3E-06	n/a	U
S06Z001077		Iodine-129	uCi/g	n/a	n/a	<0.023	n/a	n/a	n/a	n/a	0.023	n/a	U
S06Z001077		Iodine-131	uCi/g	n/a	n/a	<3.1E-06	n/a	n/a	n/a	n/a	3.1E-06	n/a	U
S06Z001077		Iron-59	uCi/g	n/a	n/a	<6.6E-06	n/a	n/a	n/a	n/a	6.6E-06	n/a	U
S06Z001077		Krypton-85	uCi/g	n/a	n/a	<8.8E-04	n/a	n/a	n/a	n/a	8.8E-04	n/a	U
S06Z001077		Lanthanum-140	uCi/g	n/a	n/a	<3.0E-06	n/a	n/a	n/a	n/a	3.0E-06	n/a	U
S06Z001077		Lead-210	uCi/g	n/a	n/a	<7.5E-03	n/a	n/a	n/a	n/a	7.5E-03	n/a	U
S06Z001077		Lead-212	uCi/g	n/a	n/a	<5.4E-06	n/a	n/a	n/a	n/a	5.4E-06	n/a	U
S06Z001077		Lead-214	uCi/g	n/a	n/a	<7.0E-06	n/a	n/a	n/a	n/a	7.0E-06	52.37	U
S06Z001077		Manganese-54	uCi/g	n/a	n/a	<3.3E-06	n/a	n/a	n/a	n/a	3.3E-06	n/a	U
S06Z001077		Manganese-56	uCi/g	n/a	n/a	<4.5E-06	n/a	n/a	n/a	n/a	4.5E-06	n/a	U
S06Z001077		Mercury-203	uCi/g	n/a	n/a	<3.0E-06	n/a	n/a	n/a	n/a	3.0E-06	n/a	U
S06Z001077		Neptunium-237	uCi/g	n/a	n/a	<2.9E-05	n/a	n/a	n/a	n/a	2.9E-05	n/a	U
S06Z001077		Neptunium-238	uCi/g	n/a	n/a	<1.2E-05	n/a	n/a	n/a	n/a	1.2E-05	n/a	U
S06Z001077		Neptunium-239	uCi/g	n/a	n/a	<7.3E-06	n/a	n/a	n/a	n/a	7.3E-06	n/a	U
S06Z001077		Niobium-94	uCi/g	n/a	n/a	<3.2E-06	n/a	n/a	n/a	n/a	3.2E-06	n/a	U
S06Z001077		Plutonium-239	uCi/g	n/a	n/a	<0.028	n/a	n/a	n/a	n/a	0.028	n/a	U
S06Z001077		Potassium-40	uCi/g	n/a	n/a	<9.4E-05	n/a	n/a	n/a	n/a	9.4E-05	n/a	U
S06Z001077		Protactinium-233	uCi/g	n/a	n/a	5.09E-05	n/a	n/a	n/a	n/a	7.2E-06	10.21	
S06Z001077		Protactinium-234	uCi/g	n/a	n/a	<5.1E-04	n/a	n/a	n/a	n/a	5.1E-04	n/a	U
S06Z001077		Radium-224	uCi/g	n/a	n/a	<6.2E-05	n/a	n/a	n/a	n/a	6.2E-05	n/a	U
S06Z001077		Radium-226	uCi/g	n/a	n/a	<5.8E-05	n/a	n/a	n/a	n/a	5.8E-05	n/a	U
S06Z001077		Rubidium/Rhodium-106	uCi/g	n/a	n/a	<5.6E-05	n/a	n/a	n/a	n/a	5.6E-05	n/a	U

14 - Apr - 2006 10:32:27
DSRHardcopyWOLimits 1.2
DSR.Jar v. 2.7.17

GEA Radscreen Results for SDG 222S20060436
Z9 SLANT 1

Category: R
Core Number: 222S20060436
Segment Number: B1HKC9-A
Segment Portion: Special Sample (Total)

Sample# R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err %	Qual Flags
S06Z001077		Ruthenium-103	uCi/g	n/a	n/a	<3.0E-06	n/a	n/a	n/a	n/a	3.0E-06	n/a	U
S06Z001077		Scandium-46	uCi/g	n/a	n/a	<4.2E-06	n/a	n/a	n/a	n/a	4.2E-06	n/a	U
S06Z001077		Selenium-75	uCi/g	n/a	n/a	<3.7E-06	n/a	n/a	n/a	n/a	3.7E-06	n/a	U
S06Z001077		Selenium-79	uCi/g	n/a	n/a	<5.9E-04	n/a	n/a	n/a	n/a	5.9E-04	n/a	U
S06Z001077		Silver-108	uCi/g	n/a	n/a	<3.5E-06	n/a	n/a	n/a	n/a	3.5E-06	n/a	U
S06Z001077		Silver-110	uCi/g	n/a	n/a	<3.6E-06	n/a	n/a	n/a	n/a	3.6E-06	n/a	U
S06Z001077		Sodium-22	uCi/g	n/a	n/a	<3.6E-06	n/a	n/a	n/a	n/a	3.6E-06	n/a	U
S06Z001077		Sodium-24	uCi/g	n/a	n/a	<3.6E-06	n/a	n/a	n/a	n/a	3.6E-06	n/a	U
S06Z001077		Strontium-85	uCi/g	n/a	n/a	<3.8E-06	n/a	n/a	n/a	n/a	3.8E-06	n/a	U
S06Z001077		Tantalum-182	uCi/g	n/a	n/a	<1.2E-05	n/a	n/a	n/a	n/a	1.2E-05	n/a	U
S06Z001077		Tellurium-123	uCi/g	n/a	n/a	<2.0E-06	n/a	n/a	n/a	n/a	2.0E-06	n/a	U
S06Z001077		Tellurium-125	uCi/g	n/a	n/a	<1.7	n/a	n/a	n/a	n/a	1.7	n/a	U
S06Z001077		Thallium-208	uCi/g	n/a	n/a	<3.9E-06	n/a	n/a	n/a	n/a	3.9E-06	n/a	U
S06Z001077		Thorium-228	uCi/g	n/a	n/a	<2.0E-04	n/a	n/a	n/a	n/a	2.0E-04	n/a	U
S06Z001077		Thorium-229	uCi/g	n/a	n/a	<2.5E-05	n/a	n/a	n/a	n/a	2.5E-05	n/a	U
S06Z001077		Thorium-234	uCi/g	n/a	n/a	<5.9E-04	n/a	n/a	n/a	n/a	5.9E-04	n/a	U
S06Z001077		Tin-113	uCi/g	n/a	n/a	<4.0E-06	n/a	n/a	n/a	n/a	4.0E-06	n/a	U
S06Z001077		Tin-126	uCi/g	n/a	n/a	<5.5E-06	n/a	n/a	n/a	n/a	5.5E-06	n/a	U
S06Z001077		Uranium-232	uCi/g	n/a	n/a	<0.084	n/a	n/a	n/a	n/a	0.084	n/a	U
S06Z001077		Uranium-235	uCi/g	n/a	n/a	<3.5E-06	n/a	n/a	n/a	n/a	3.5E-06	n/a	U
S06Z001077		Uranium-237	uCi/g	n/a	n/a	<1.2E-05	n/a	n/a	n/a	n/a	1.2E-05	n/a	U
S06Z001077		Uranium/Thorium-233	uCi/g	n/a	n/a	<2.1E-03	n/a	n/a	n/a	n/a	2.1E-03	n/a	U
S06Z001077		Xenon-131	uCi/g	n/a	n/a	<8.9E-05	n/a	n/a	n/a	n/a	8.9E-05	n/a	U
S06Z001077		Yttrium-88	uCi/g	n/a	n/a	<2.6E-06	n/a	n/a	n/a	n/a	2.6E-06	n/a	U
S06Z001077		Yttrium-91	uCi/g	n/a	n/a	<1.4E-03	n/a	n/a	n/a	n/a	1.4E-03	n/a	U
S06Z001077		Zinc-65	uCi/g	n/a	n/a	<8.4E-06	n/a	n/a	n/a	n/a	8.4E-06	n/a	U
S06Z001077		Zirconium/Neodymium-95	uCi/g	n/a	n/a	<6.2E-06	n/a	n/a	n/a	n/a	6.2E-06	n/a	U

SDG# W0491-3

STL ST. LOUIS

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F06-005-036	PAGE 1 OF 1

COLLECTOR Mokler/Pope/Pfister	**COMPANY CONTACT** TRENT, SJ	**TELEPHONE NO.** 373-5869	**PROJECT COORDINATOR** TRENT, SJ
PRICE CODE 8N	**DATA TURNAROUND** 45 Days / 45 Days	**AIR QUALITY** ☐	
SAMPLING LOCATION C3427, Slant, I-18	**PROJECT DESIGNATION** 216-Z-9 Trench Slant Characterization Borehole - Soil	**SAF NO.** F06-005	
ICE CHEST NO. 2/03-050024	**FIELD LOGBOOK NO.** HNF-N-360-1	**COA** 121618ES10	**METHOD OF SHIPMENT** FEDERAL EXPRESS
SHIPPED TO Severn Trent St. Louis	**OFFSITE PROPERTY NO.** 2eRSR FJ010000		**BILL OF LADING/AIR BILL NO.** 2eRSR FJ010000

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

SPECIAL HANDLING AND/OR STORAGE

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	
B1HK41	SOIL	4/13/06	0915	X

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Z-9 Site Fridge	4/24/06 1135	M.H. Boechler M.G. Boechler	4/24/06 1135
M.H. Boechler M.G. Boechler	4/24/06 1135	Fed Ex	
		B. [illegible]	4/25/06 0915

SPECIAL INSTRUCTIONS

NOTE: ORIGINAL COC ATTACHED TO DOCUMENT CHAIN OF POSSESSION
(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {1,2,4-Trimethylbenzene, 1-Butanol, Acetonitrile, Cyclohexanone, Hexane, n-Butylbenzene}

MeOH Blank - hold

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

A-6003-618(01/06)

SDG# W04913

STL ST. LOUIS

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F06-005-036	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Mokler/Pope/Pfister	TRENT, SJ	373-5869	TRENT, SJ	AIR QUALITY ☐	45 Days / 45 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C3427, Slant, I-18	216-Z-9 Trench Slant Characterization Borehole - Soil	F06-005

ICE CHEST NO.	FIELD LOGBOOK NO.	COA	METHOD OF SHIPMENT
	HNF-N-360-1	121618ES10	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
Waste Sampling & Characterization		

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

SPECIAL HANDLING AND/OR STORAGE

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

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1HK41	SOIL	4/13/6	0915

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Mauer	4/13/6 - 0915	SITE TREE Z9	4/13/6 - 1240
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

(1)VOA - 5035/8260 (TCL); VOA - 5035/8260 - (Add-On) {1-Butanol, Acetonitrile, Hexane, n-Butylbenzene}

DEPTH - 118.5' - 120.5'

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

A-6003-618(03/03)

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F06-005-034	PAGE 1 OF 1

COLLECTOR Mokler/Pope/Pfister	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR TRENT, SJ
SAMPLING LOCATION C3427, Slant, I-18	PROJECT DESIGNATION 216-Z-9 Trench Slant Characterization Borehole - Soil		SAF NO. F06-005
ICE CHEST NO. 2103-050024	FIELD LOGBOOK NO. HNF-N-360-1	COA 121618ES10	METHOD OF SHIPMENT FEDERAL EXPRESS
SHIPPED TO Severn Trent St. Louis	OFFSITE PROPERTY NO. See RSR FJ010000		BILL OF LADING/AIR BILL NO. See RSR FJ010000

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

SPECIAL HANDLING AND/OR STORAGE
Preserve with methanol after collection

PRESERVATION	Cool 4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1HK39	SOIL	4/13/06	0915	X									

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM Z-9 Site Fridge 4/24/06	DATE/TIME 1135	RECEIVED BY/STORED IN M.H. Baechler M.G. Baechler 4/24/06	DATE/TIME 1135
RELINQUISHED BY/REMOVED FROM M.H. Baechler M.G. Baechler 4/24/06	DATE/TIME 1135	RECEIVED BY/STORED IN Fed EX	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN B-Dif 4/25/06	DATE/TIME 0915
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

NOTE: ORIGINAL COC ATTACHED TO DOCUMENT CHAIN OF POSSESSION
VOA bottles will be labeled with an appended suffix of W, X, and Y. These suffixes should NOT be used as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1,2,4-Trimethylbenzene, 1-Butanol, Acetonitrile, Cyclohexanone, Hexane, n-Butylbenzene}

Hold

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

A-6003-618(01/06)

SDG# W04913

STL ST. LOUIS

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F06-005-034	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8N	DATA TURNAROUND
Mokler/Pope/Pfister / WISE	TRENT, SJ	373-5869	TRENT, SJ	AIR QUALITY ☐	45 Days / 45 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C3427, Slant, I-18	216-Z-9 Trench Slant Characterization Borehole - Soil		F06-005		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**COA**	**METHOD OF SHIPMENT**		
	HNF-N-360-1	121618ES10	GOVERNMENT VEHICLE		
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
Waste Sampling & Characterization					

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

SPECIAL HANDLING AND/OR STORAGE
Preserve with methanol after collection

PRESERVATION	Cool 4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1HK39	SOIL	4/13/6	0915

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

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
J. Mokler / [illegible]	4/13/6-1240	SITE REF 29	4/13/6-1240

SPECIAL INSTRUCTIONS

VOA bottles will be labeled with an appended suffix of W, X, and Y. These suffixes should NOT be used as part of the sample ID reported in the final data packages.
(1)VOA - 5035/8260 (HIGH LEVEL); VOA - 5035/8260 (HIGH LEVEL) - (Add-On) {1-Butanol, Acetonitrile, Hexane, n-Butylbenzene}

DEPTH 1185' - 1205'

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

A-6003-618(03/03)

STL ST. LOUIS

SEVERN TRENT **STL** St. Louis

Lot #(s): F4D250237

- 2106 -

Condition Upon Receipt Form

Client: Fluor Hanford
Quote No: 69268
COC/RFA No:
Initiated By: BJ
Date 4/25/06
Time: 0915

Shipping Information

Shipper Name: FE

Shipping # (s):*

1. 1914 5644 0193
2.
3.
4.
5.
6.
7.
8.
9.
10.

Multiple Packages Y N N/A

Sample Temperature (s):**

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

Corrective Action:

- ☐ Client Contact Name: Informed by:
- ☐ Sample(s) processed "as is"
- ☐ Sample(s) on hold until: If released, notify:

Project Management Review: Date: 04-26-06

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 03/01/06\\Slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004030106.doc

F6D250237 CLIENT ANALYSIS SUMMARY

Storage Loc: VS24
Date Received: 2006-04-25
Analytical Due Date: 2006-05-15
Report Due Date: 2006-05-15

Project Manager: MLH
Quote #: 69268
SDG: W04913
Project: 216-Z9-TRENCH
F06-005
PO#:
Report to: Steve Trent
Client: 108302 Fluor Hanford Inc.
#SMPS in LOT: 4
Report Type: B Standard Report
EDD Code: FEADII

Sample Receipt Confirmation Required ** Limited Volume Sample ** See priorities below **** RUN LCS/ LCSD's ******
Anions: CCV/CCB criteria +/-10% Anions/Metals: CRDL standard required +/-25% pH needs to be done within 24 hours of receipt
WTPH needs to include Kerosene & diesel range Report = RO2 all raw data to reporting group **** Limited Volume Sample Priority ****
1) SVOC & TPH Diesel 2) Oil & Grease 3) TOC/TIC

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
1	B1HK40			2006-04-13 / 915	H3192	SOLID

SAMPLE COMMENTS:

XX	QK	SW846	8260B	Volatile Organics, GC/MS (8260B)	4P	ENCORE (COLD PRESERVATION)	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: Y	
XX	WM	MCAW W	160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06		

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
2	B1HK42			2006-04-13 / 915	H32CL	SOLID

SAMPLE COMMENTS:

XX	HS	SW846	8015 MOD	Hydrocarbons, Extractable Petroleum (8015 MOD)	13	SONICATION - Low Level	01	STANDARD TEST SET	PROT: A	WRK LOC	06		
HG	O9	SW846	7471A	Mercury (7471A, Cold Vapor) - Solids	70	METALS, TOTAL (Method Exclusive) - Solids	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
CO	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
NI	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
NA	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
MN	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
MG	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
LI	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
KX	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
FE	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
CR	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
SB	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
CD	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
CA	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
BI	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
BE	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
BA	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
AS	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
AL	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
AG	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
CU	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
ZN	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
SE	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
SR	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
VX	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
PB	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
PX	QM	SW846	6010B	Inductively Coupled Plasma (6010B Trace)	GK	METALS, TOTAL - 2% HCL	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06		
XX	QL	SW846	8270C	Base/Neutrals and Acids (8270C)	13	SONICATION - Low Level	01	STANDARD TEST SET	PROT: A	WRK LOC	06	TIC: Y	
XX	ZV		RAD SCREEN	RAD SCREEN	RA	IN-HOUSE RAD SCREEN	01	STANDARD TEST SET	PROT: A	WRK LOC	06		

F6D250237 CLIENT ANALYSIS SUMMARY

Storage Loc: 2-45

Date Received: 2006-04-25

Analytical Due Date: 2006-05-15

Report Due Date: 2006-05-15

Project Manager: MLH Quote #: 69268 SDG:

Project: 216-Z9-TRENCH F06-005

PO#: Report to: Steve Trent

Client: 108302 Fluor Hanford Inc #SMPS in LOT: 4

Report Type: B Standard Report

EDD Code: FEADII

Sample Receipt Confirmation Required ** Limited Volume Sample ** See priorities below **** RUN LCS/ LCSD's ******

Anions: CCV/CCB criteria +/-10% Anions/Metals: CRDL standard required +/-25% pH needs to be done within 24 hours of receipt

WTPH needs to include Kerosene & diesel range Report = RO2 all raw data to reporting group **** Limited Volume Sample Priority ****

1) SVOC & TPH Diesel 2) Oil & Grease 3) TOC/TIC

XX	3C	SW846	9056A	Fluoride (9056A, Ion Chromatography)	82	LEACHATE, DI (Routine)	5I	CLIENT: HANFORD	PROT: B	WRK LOC	06
XX	3D	SW846	9056A	Chloride (9056A, Ion Chromatography)	82	LEACHATE, DI (Routine)	5I	CLIENT: HANFORD	PROT: B	WRK LOC	06
XX	3H	SW846	9056A	Phosphate, ortho as P (9056A, Ion Chromatography)	82	LEACHATE, DI (Routine)	5I	CLIENT: HANFORD	PROT: B	WRK LOC	06
XX	3I	SW846	9056A	Sulfate (9056A, Ion Chromatography)	82	LEACHATE, DI (Routine)	5I	CLIENT: HANFORD	PROT: B	WRK LOC	06
XX	AY	SW846	9060	Carbon, Total Inorganic "TIC" (9060)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	5I	CLIENT: HANFORD	PROT: D	WRK LOC	06
XX	EA	SW846	7196A	Chromium, Hexavalent (7196A)	DW	Alkaline Digestion by method 3060A	5I	CLIENT: HANFORD	PROT: B	WRK LOC	06
XX	FM	SW846	9060	Carbon, Total Organic "TOC" (9060)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	5I	CLIENT: HANFORD	PROT: D	WRK LOC	06
XX	HC	MCAW W	413.1	Oil and Grease (Gravimetric - 413.1)	13	SONICATION - Low Level	5I	CLIENT: HANFORD	PROT: A	WRK LOC	06
XX	HN	MCAW W	353.1	Nitrate-Nitrite (353.1)	0R	LEACHATE, DI (Routine) -> REDUCTION	5I	CLIENT: HANFORD	PROT: B	WRK LOC	06
XX	VM	MCAW W	350.1	Nitrogen, Ammonia (350.1, Automated)	06	DISTILLATION, MICRO/MIDI - Acid	5I	CLIENT: HANFORD	PROT: B	WRK LOC	06
XX	WM	MCAW W	160.3 MOD	Moisture, Percent (160.3)	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK LOC	06
XX	XO	SW846	9081	Capacity, Cation-Exchange (9081)	94	ION EXCHANGE (NON-COLUMN)	01	STANDARD TEST SET	PROT: B	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
3	B1HK41			2006-04-13 / 915	H32R4	SOLID

SAMPLE COMMENTS:

XX	ZZ	NONE	NONE	Archive	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: Z	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	A
4	B1HK39			2006-04-13 / 915	H32R5	SOLID

SAMPLE COMMENTS:

XX	ZZ	NONE	NONE	Archive	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: Z	WRK LOC	06

F6D250237

CLIENT COMMENTS SUMMARY

Storage Loc: **VS24**

Date Received: 2006-04-25

Analytical Due Date: 2006-05-15

Report Due Date: 2006-05-15

Report Type: B Standard Report

EDD Code: FEADII

Project Manager: MLH Quote #: 69268 SDG:

Project: 216-Z9-TRENCH F06-005

PO#: Report to: Steve Trent

Client: 108302 Fluor Hanford Inc #SMPS in LOT: 4

Sample Receipt Confirmation Required
** Limited Volume Sample ** See priorities below
**** RUN LCS/ LCSD's ******
Anions: CCV/CCB criteria +/-10%
Anions/Metals: CRDL standard required +/-25%
pH needs to be done within 24 hours of receipt
WTPH needs to include Kerosene & diesel range
Report = RO2 all raw data to reporting group
**** Limited Volume Sample Priority ****
1) SVOC & TPH Diesel
2) Oil & Grease
3) TOC/TIC
4) Metals, Mercury, Hexavalent Chromium
5) Ammonia/
6) Anions/ Nitrate-Nitrite
7) PCBs
8) Cation Exchange Capacity
**** RUN LCS /LCSD's instead of Matrix QC *****

SDG# W04913

STL ST. LOUIS

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	F06-005-062	PAGE 1 OF 1

COLLECTOR: Mokler/Pope/Pfister	COMPANY CONTACT: TRENT, SJ	TELEPHONE NO.: 373-5869	PROJECT COORDINATOR: TRENT, SJ
SAMPLING LOCATION: C3427, Slant, I-22	PROJECT DESIGNATION: 216-Z-9 Trench Slant Characterization Borehole - Soil		SAF NO.: F06-005
ICE CHEST NO.: SAWS-114	FIELD LOGBOOK NO.: HNF-N-360-1	COA: 121618ES10	METHOD OF SHIPMENT: FEDERAL EXPRESS
SHIPPED TO: Severn Trent St. Louis	OFFSITE PROPERTY NO.: See RSR FJ011000		BILL OF LADING/AIR BILL NO.: See RSR FJ011000

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: ITEM #1 - 473g; ITEM #2 - 241g

SPECIAL HANDLING AND/OR STORAGE:

PRESERVATION	Cool 4C	Cool 4C	
TYPE OF CONTAINER	G	aG	
NO. OF CONTAINER(S)	1	1	
VOLUME	250mL	120mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1HK57	SOIL	4-18-06	1025	X	X	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: JS Pope / [signature]	DATE/TIME: 4-18-06 1130	RECEIVED BY/STORED IN: Site Rma Fridge	DATE/TIME: 4-18-06 1130
RELINQUISHED BY/REMOVED FROM: Jeff Kerr Z9	DATE/TIME: 4/27/6-1500	RECEIVED BY/STORED IN: J Mowler [signature]	DATE/TIME: 4/27/6-1300
RELINQUISHED BY/REMOVED FROM: J Mowler [signature]	DATE/TIME: 4/27/6-1510	RECEIVED BY/STORED IN: TRAILER 745 KEF3	DATE/TIME: 4/27/6-1510
RELINQUISHED BY/REMOVED FROM: MO 745	DATE/TIME: 5/4/06 0900	RECEIVED BY/STORED IN: M.H. Baechler M.G. Baechler	DATE/TIME: 5/4/06 0900
RELINQUISHED BY/REMOVED FROM: M.H. Baechler M.G. Baechler	DATE/TIME: 5/4/06 0900	RECEIVED BY/STORED IN: Fed Ex	DATE/TIME:
RELINQUISHED BY/REMOVED FROM:	DATE/TIME:	RECEIVED BY/STORED IN: Jill Clarke	DATE/TIME: 050506 0930
RELINQUISHED BY/REMOVED FROM:	DATE/TIME:	RECEIVED BY/STORED IN:	DATE/TIME:

SPECIAL INSTRUCTIONS

(1)NO2/NO3 - 353.1; Soil Cation Exchange Capacity - 9080; Chromium Hex - 7196; Oil & Grease - 413.1;
(2)TOC - 415.1 {Total organic carbon} TIC - 415.1M {Total Inorganic Carbon}

SDG! W04913

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

A-6003-618(03/03)

STL ST. LOUIS
SEVERN TRENT STL St. Louis

Lot #(s): F6E050264

- 2461 -

Condition Upon Receipt Form

Client: Fluor Hanford COC/RFA No: F06-005-0062 Date 050506
Quote No: 69268 Initiated By: Time: 0930

Shipping Information

Shipper Name: Fed Ex Multiple Packages Y (N) N/A

Shipping # (s):*
1. 7914 6997 6143
2.
3.
4.
5.
6.
7.
8.
9.
10.

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

Corrective Action:
☐ Client Contact Name: Informed by:
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: If released, notify:
Project Management Review: Date: 05-08-06

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 03/01/06\\Slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004030106.doc