STL ST. LOUIS

SEVERN TRENT STL

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ANALYTICAL REPORT

PROJECT NO. 216-Z9-TRENCH

F06-004

Lot #: F6E010204
SDG #: W04908

Steve Trent

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

SEVERN TRENT LABORATORIES, INC.

For: Melania Harris
Project Manager

May 30, 2006

Case Narrative
LOT NUMBER: **F6E010204**
W04908

This report contains the analytical results for the sample received under chain of custody by STL St. Louis on April 28, 2006. This sample is associated with your F06-004 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.

Herbicides Method: 8151A

Batch 6136405
There was insufficient sample volume to perform MS/MSD analysis. A LCS and LCSD were performed to demonstrate accuracy and replicate precision.

The LCS analyte dichloroprop is outside the upper QC limit, indicating a potential positive bias. This analyte was not observed above the reporting limit in the associated sample; therefore the sample data was not adversely affected by this excursion. The original sample results are provided.
Affected Sample:
F6E010204 (1): B1HKY0

Pesticides Method: 8081A

Batch 6122396
There was insufficient sample volume to perform MS/MSD analysis. A LCS and LCSD were performed to demonstrate accuracy and replicate precision.

Sample surrogate TCMX recovery is outside established lower QC limits. The sample was re-prepared outside holding time and reanalyzed. The reanalysis yielded acceptable surrogate results and the same sample results. Only the initial analysis within hold time is reported.
Affected Sample:
F6E010204 (1): B1HKY0

Nitrate-Nitrite Method: 353.1

Batch 6123445
The nitrate/nitrite MS recovery is outside the established QC limits. A matrix interference is evident in the sample. Method performance is demonstrated by acceptable LCS recovery. No further action is required.
Affected Sample:
F6E010204 (1): B1HKY0

TIC Method: 415.1

Batch 6136318
The TIC MS was low due to matrix interference. The LCS met criteria.

The closing CCV recovery was outside the upper QC limit (greater than 110%) for TIC batch 6136318 indicating a potential high bias for those analytes in the samples associated with this CCV. These analytes were not detected above the reporting limit in the associated samples. No further action is required.
Affected Sample:
F6E010204 (1): B1HKY0

Oil and Grease Method: 413.1
There are no observations or nonconformances associated with this analysis.

Sulfide Method: 9030
There are no observations or nonconformances associated with this analysis.

METHODS SUMMARY

F6E010204

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Chlorinated Herbicides by GC	SW846 8151A	SW846 8151A
Nitrate-Nitrite	MCAWW 353.1	
Oil & Grease (Gravimetric)	MCAWW 413.1	MCAWW 413.1
Organochlorine Pesticides	SW846 8081A	SW846 3510C
Sulfide	SW846 9030	
Total Inorganic Carbon	MCAWW 415.1	MCAWW 415.1
Total Organic Carbon	MCAWW 415.1	MCAWW 415.1

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

F6E010204

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H4GKG	001	B1HKY0	04/19/06	05:00

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: B1HKY0

GC Semivolatiles

Lot-Sample #...: F6E010204-001 **Work Order #...:** H4GKG1AA **Matrix.....:** WATER
Date Sampled...: 04/19/06 05:00 **Date Received..:** 04/28/06
Prep Date.....: 05/02/06 **Analysis Date..:** 05/03/06
Prep Batch #...: 6122396 **Analysis Time..:** 13:55
Dilution Factor: 1
Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Aldrin	ND	0.050	ug/L
4,4'-DDD	ND	0.050	ug/L
4,4'-DDE	ND	0.050	ug/L
4,4'-DDT	ND	0.050	ug/L
Endosulfan I	ND	0.050	ug/L
Endosulfan II	ND	0.050	ug/L
gamma-BHC (Lindane)	ND	0.050	ug/L
alpha-BHC	ND	0.050	ug/L
beta-BHC	ND	0.050	ug/L
Endrin	ND	0.050	ug/L
delta-BHC	ND	0.050	ug/L
Heptachlor	ND	0.050	ug/L
Heptachlor epoxide	ND	0.050	ug/L
alpha-Chlordane	ND	0.050	ug/L
Methoxychlor	ND	0.10	ug/L
gamma-Chlordane	ND	0.050	ug/L
Chlordane (technical)	ND	0.50	ug/L
Dieldrin	ND	0.050	ug/L
Endosulfan sulfate	ND	0.050	ug/L
Endrin aldehyde	ND	0.050	ug/L
Endrin ketone	ND	0.050	ug/L
Toxaphene	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	18 *	(40 - 150)
Decachlorobiphenyl	107	(37 - 123)

NOTE(S):

* Surrogate recovery is outside stated control limits.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: F6E010204 **Work Order #...:** H4KC21AA **Matrix.....:** WATER
MB Lot-Sample #: F6E020000-396

Prep Date.....: 05/02/06 **Analysis Time..:** 12:32
Analysis Date..: 05/03/06 **Prep Batch #...:** 6122396
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aldrin	ND	0.050	ug/L	SW846 8081A
4,4'-DDD	ND	0.050	ug/L	SW846 8081A
4,4'-DDE	ND	0.050	ug/L	SW846 8081A
4,4'-DDT	ND	0.050	ug/L	SW846 8081A
Endosulfan I	ND	0.050	ug/L	SW846 8081A
Endosulfan II	ND	0.050	ug/L	SW846 8081A
gamma-BHC (Lindane)	ND	0.050	ug/L	SW846 8081A
alpha-BHC	ND	0.050	ug/L	SW846 8081A
beta-BHC	ND	0.050	ug/L	SW846 8081A
Endrin	ND	0.050	ug/L	SW846 8081A
delta-BHC	ND	0.050	ug/L	SW846 8081A
Heptachlor	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
alpha-Chlordane	ND	0.050	ug/L	SW846 8081A
Methoxychlor	ND	0.10	ug/L	SW846 8081A
gamma-Chlordane	ND	0.050	ug/L	SW846 8081A
Chlordane (technical)	ND	0.50	ug/L	SW846 8081A
Dieldrin	ND	0.050	ug/L	SW846 8081A
Endosulfan sulfate	ND	0.050	ug/L	SW846 8081A
Endrin aldehyde	ND	0.050	ug/L	SW846 8081A
Endrin ketone	ND	0.050	ug/L	SW846 8081A
Toxaphene	ND	2.0	ug/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	62	(40 - 150)
Decachlorobiphenyl	105	(37 - 123)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: F6E010204 Work Order #...: H4KC21AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F6E020000-396 H4KC21AD-LCSD
Prep Date.....: 05/02/06 Analysis Date..: 05/03/06
Prep Batch #...: 6122396 Analysis Time..: 12:53
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aldrin	77	(70 - 116)			SW846 8081A
	77	(70 - 116)	0.26	(0-20)	SW846 8081A
4,4'-DDT	123	(73 - 137)			SW846 8081A
	123	(73 - 137)	0.16	(0-20)	SW846 8081A
4,4'-DDD	109	(77 - 128)			SW846 8081A
	110	(77 - 128)	0.72	(0-20)	SW846 8081A
4,4'-DDE	103	(74 - 122)			SW846 8081A
	106	(74 - 122)	2.9	(0-20)	SW846 8081A
Endosulfan I	108	(50 - 138)			SW846 8081A
	108	(50 - 138)	0.18	(0-20)	SW846 8081A
Endosulfan II	105	(55 - 138)			SW846 8081A
	106	(55 - 138)	0.95	(0-20)	SW846 8081A
gamma-BHC (Lindane)	105	(79 - 124)			SW846 8081A
	107	(79 - 124)	1.9	(0-20)	SW846 8081A
alpha-BHC	106	(80 - 124)			SW846 8081A
	107	(80 - 124)	1.1	(0-20)	SW846 8081A
Endrin	106	(81 - 130)			SW846 8081A
	108	(81 - 130)	1.9	(0-20)	SW846 8081A
beta-BHC	100	(75 - 119)			SW846 8081A
	103	(75 - 119)	2.4	(0-20)	SW846 8081A
Heptachlor	143	(50 - 150)			SW846 8081A
	150	(50 - 150)	4.5	(0-20)	SW846 8081A
delta-BHC	108	(78 - 127)			SW846 8081A
	107	(78 - 127)	0.37	(0-20)	SW846 8081A
Heptachlor epoxide	105	(79 - 119)			SW846 8081A
	107	(79 - 119)	1.9	(0-20)	SW846 8081A
alpha-Chlordane	105	(75 - 117)			SW846 8081A
	107	(75 - 117)	1.7	(0-20)	SW846 8081A
Methoxychlor	104	(70 - 131)			SW846 8081A
	103	(70 - 131)	1.4	(0-20)	SW846 8081A
gamma-Chlordane	105	(71 - 118)			SW846 8081A
	107	(71 - 118)	1.9	(0-20)	SW846 8081A
Dieldrin	108	(77 - 123)			SW846 8081A
	109	(77 - 123)	1.6	(0-20)	SW846 8081A
Endosulfan sulfate	106	(78 - 127)			SW846 8081A
	105	(78 - 127)	0.57	(0-20)	SW846 8081A
Endrin aldehyde	102	(78 - 125)			SW846 8081A
	101	(78 - 125)	0.59	(0-20)	SW846 8081A
Endrin ketone	107	(76 - 124)			SW846 8081A
	107	(76 - 124)	0.37	(0-20)	SW846 8081A

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: F6E010204 **Work Order #...:** H4KC21AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F6E020000-396 H4KC21AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	75	(56 - 125)
	76	(56 - 125)
Decachlorobiphenyl	109	(54 - 133)
	104	(54 - 133)

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: B1HKY0

GC Semivolatiles

Lot-Sample #...: F6E010204-001 **Work Order #...:** H4GKG2AC **Matrix.....:** WATER
Date Sampled...: 04/19/06 05:00 **Date Received..:** 04/28/06
Prep Date.....: 05/16/06 **Analysis Date..:** 05/19/06
Prep Batch #...: 6136405 **Analysis Time..:** 11:51
Dilution Factor: 1
Method.....: SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Dinoseb	ND	1.0	ug/L
2,4-D	ND	4.0	ug/L
Dalapon	ND	4.0	ug/L
2,4-DB	ND	4.0	ug/L
Dicamba	ND	2.0	ug/L
Dichlorprop	ND	4.0	ug/L
MCPA	ND	400	ug/L
MCPP	ND	400	ug/L
2,4,5-TP (Silvex)	ND	1.0	ug/L
2,4,5-T	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	94	(40 - 124)

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: F6E010204 **Work Order #...:** H5G2G1AA **Matrix.....:** WATER
MB Lot-Sample #: F6E160000-405

Prep Date.....: 05/16/06 **Analysis Time..:** 10:15
Analysis Date..: 05/19/06 **Prep Batch #...:** 6136405
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-D	ND	4.0	ug/L	SW846 8151A
Dalapon	ND	4.0	ug/L	SW846 8151A
2,4-DB	ND	4.0	ug/L	SW846 8151A
Dicamba	ND	2.0	ug/L	SW846 8151A
Dichlorprop	ND	4.0	ug/L	SW846 8151A
Dinoseb	ND	1.0	ug/L	SW846 8151A
MCPA	ND	400	ug/L	SW846 8151A
MCPP	ND	400	ug/L	SW846 8151A
2,4,5-TP (Silvex)	ND	1.0	ug/L	SW846 8151A
2,4,5-T	ND	1.0	ug/L	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	76	(40 - 124)

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: F6E010204 **Work Order #...:** H5G2G1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F6E160000-405 H5G2G1AD-LCSD
Prep Date.....: 05/16/06 **Analysis Date..:** 05/19/06
Prep Batch #...: 6136405 **Analysis Time..:** 10:47
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dalapon	117	(30 - 118)			SW846 8151A
	101	(30 - 118)	15	(0-20)	SW846 8151A
2,4-DB	103	(30 - 130)			SW846 8151A
	96	(30 - 130)	7.2	(0-20)	SW846 8151A
2,4,5-TP (Silvex)	116	(41 - 149)			SW846 8151A
	120	(41 - 149)	3.7	(0-20)	SW846 8151A
2,4,5-T	106	(40 - 130)			SW846 8151A
	103	(40 - 130)	3.1	(0-20)	SW846 8151A
2,4-D	100	(30 - 130)			SW846 8151A
	120	(30 - 130)	18	(0-20)	SW846 8151A
Dicamba	125	(50 - 130)			SW846 8151A
	124	(50 - 130)	0.96	(0-20)	SW846 8151A
Dichlorprop	128	(49 - 130)			SW846 8151A
	131 a	(49 - 130)	1.8	(0-20)	SW846 8151A
Dinoseb	88	(40 - 130)			SW846 8151A
	90	(40 - 130)	1.8	(0-20)	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4-Dichlorophenylacetic acid	112	(40 - 124)
	115	(40 - 124)

NOTE(S):

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

Bold print denotes control parameters.

a Spiked analyte recovery is outside stated control limits.

Fluor Hanford Inc

Client Sample ID: B1HKY0

General Chemistry

Lot-Sample #...: F6E010204-001 **Work Order #...:** H4GKG **Matrix.....:** WATER
Date Sampled...: 04/19/06 05:00 **Date Received..:** 04/28/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N	ND	50.0	ug/L	MCAWW 353.1	05/03/06	6123445
		Dilution Factor: 1		Analysis Time..: 00:00		
Oil and Grease (Gravimetric)	ND	5.0	mg/L	MCAWW 413.1	05/19-05/22/06	6142263
		Dilution Factor: 1		Analysis Time..: 00:00		
Total Inorganic Carbon	ND	1.0	mg/L	MCAWW 415.1	05/15/06	6136318
		Dilution Factor: 1		Analysis Time..: 00:00		
Total Organic Carbon	ND	1.0	mg/L	MCAWW 415.1	05/14/06	6135350
		Dilution Factor: 1		Analysis Time..: 00:00		
Total Sulfide	ND	1.0	mg/L	SW846 9030	05/02-05/04/06	6122160
		Dilution Factor: 1		Analysis Time..: 00:00		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F6E010204 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N		Work Order #: H4L481AA		MB Lot-Sample #:	F6E030000-445	
	ND	50.0	ug/L	MCAWW 353.1	05/03/06	6123445
		Dilution Factor: 1				
		Analysis Time..: 00:00				
Oil and Grease (Gravimetric)		Work Order #: H5W701AA		MB Lot-Sample #:	F6E220000-263	
	ND	5.0	mg/L	MCAWW 413.1	05/19-05/22/06	6142263
		Dilution Factor: 1				
		Analysis Time..: 00:00				
Total Inorganic Carbon		Work Order #: H5KGP1AA		MB Lot-Sample #:	F6E160000-318	
	ND	1.0	mg/L	MCAWW 415.1	05/15/06	6136318
		Dilution Factor: 1				
		Analysis Time..: 00:00				
Total Organic Carbon		Work Order #: H5EEP1AA		MB Lot-Sample #:	F6E150000-350	
	ND	1.0	mg/L	MCAWW 415.1	05/14/06	6135350
		Dilution Factor: 1				
		Analysis Time..: 00:00				
Total Sulfide		Work Order #: H4NMH1AA		MB Lot-Sample #:	F6E020000-160	
	ND	1.0	mg/L	SW846 9030	05/02-05/04/06	6122160
		Dilution Factor: 1				
		Analysis Time..: 00:00				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: F6E010204 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N		WO#:H4L481AC-LCS/H4L481AD-LCSD			LCS Lot-Sample#: F6E030000-445		
	99	(90 - 110)			MCAWW 353.1	05/03/06	6123445
	102	(90 - 110)	2.8	(0-20)	MCAWW 353.1	05/03/06	6123445
		Dilution Factor: 1			Analysis Time..: 00:00		
Oil and Grease (Gravimetric)		WO#:H5W701AC-LCS/H5W701AD-LCSD			LCS Lot-Sample#: F6E220000-263		
	98	(78 - 114)			MCAWW 413.1	05/19-05/22/06	6142263
	98	(78 - 114)	0.30	(0-20)	MCAWW 413.1	05/19-05/22/06	6142263
		Dilution Factor: 1			Analysis Time..: 00:00		
Total Inorganic Carbon		WO#:H5KGP1AC-LCS/H5KGP1AD-LCSD			LCS Lot-Sample#: F6E160000-318		
	102	(80 - 120)			MCAWW 415.1	05/15/06	6136318
	102	(80 - 120)	0.68	(0-20)	MCAWW 415.1	05/15/06	6136318
		Dilution Factor: 1			Analysis Time..: 00:00		
Total Organic Carbon		WO#:H5EEP1AC-LCS/H5EEP1AD-LCSD			LCS Lot-Sample#: F6E150000-350		
	98	(90 - 111)			MCAWW 415.1	05/14/06	6135350
	98	(90 - 111)	0.52	(0-20)	MCAWW 415.1	05/14/06	6135350
		Dilution Factor: 1			Analysis Time..: 00:00		

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F6E010204 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Sulfide		Work Order #: H4NMH1AC	LCS Lot-Sample#: F6E020000-160		
	86	(75 - 112)	SW846 9030	05/02-05/04/06	6122160
		Dilution Factor: 1	Analysis Time..: 00:00		

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F6E010204 **Matrix.....:** WATER
Date Sampled...: 04/19/06 05:00 **Date Received..:** 04/28/06

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite	as N	Work Order #...: H4GKG1AJ		MS Lot-Sample #: F6E010204-001	
	118 N	(90 - 110)	MCAWW 353.1	05/03/06	6123445
		Dilution Factor: 1	Analysis Time..: 00:00		
Oil and Grease (Gravimetric)		Work Order #...: H4GKG1AM		MS Lot-Sample #:	F6E010204-001
	98	(78 - 114)	MCAWW 413.1	05/19-05/22/06	6142263
		Dilution Factor: 1	Analysis Time..: 00:00		
Total Inorganic Carbon		Work Order #...: H39721G5		MS Lot-Sample #:	F6D270317-002
	43 N	(75 - 125)	MCAWW 415.1	05/15/06	6136318
		Dilution Factor: 2	Analysis Time..: 00:00		
Total Organic Carbon		Work Order #...: H39721G3		MS Lot-Sample #: F6D270317-002	
	91	(62 - 132)	MCAWW 415.1	05/14/06	6135350
		Dilution Factor: 1	Analysis Time..: 00:00		
Total Sulfide		Work Order #...: H4GKG1AL		MS Lot-Sample #: F6E010204-001	
	84	(68 - 128)	SW846 9030	05/02-05/04/06	6122160
		Dilution Factor: 1	Analysis Time..: 00:00		

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: P6E010204 **Work Order #...:** H4GKG-SMP **Matrix.....:** WATER
H4GKG-DUP
Date Sampled...: 04/19/06 05:00 **Date Received..:** 04/28/06

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate/Nitrite as N						SD Lot-Sample #: P6E010204-001		
	ND	ND	ug/L	0	(0-20)	MCAWW 353.1	05/03/06	6123445
		Dilution Factor: 1				Analysis Time..: 00:00		

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F6E010204 **Work Order #...:** H3972-SMP **Matrix.....:** WATER
H3972-DUP
Date Sampled...: 04/26/06 12:45 **Date Received..:** 04/27/06

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon						SD Lot-Sample #: F6D270317-002		
	3.3	3.2	mg/L	3.5	(0-20)	MCAWW 415.1	05/14/06	6135350
			Dilution Factor: 1			Analysis Time..: 00:00		
Total Inorganic Carbon						SD Lot-Sample #: F6D270317-002		
	11.2	11.2	mg/L	0.18	(0-20)	MCAWW 415.1	05/15-05/16/06	6136318
			Dilution Factor: 2			Analysis Time..: 00:00		

SDG# W04908

STL ST. LOUIS

Fluor Hanford Inc.	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST COR#23158 2183 JM 04.28.06	F06-004-003	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7N	DATA TURNAROUND
Molder/Pfister/Pope	TRENT, SJ	373-5869	TRENT, SJ	AIR QUALITY ☐	45 Days / 45 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C4327, Slant, E.B.	216-Z-9 Trench Slant Characterization Borehole - QC Sampling	F06-004

ICE CHEST NO.	FIELD LOGBOOK NO.	COA	METHOD OF SHIPMENT
GRP-03-004	HNF-N-360-1	121618ES10	FEDERAL EXPRESS

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
Severn Trent St. Louis	SEE PTR#17307	SEE PTR# 17307

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	ZnAc+NaOH to pH >9/Cool 4C	H2SO4 to pH <2/Cool 4C	HCl to pH <2/Cool 4C	Cool 4C	HCl or H2SO4 to pH <2/Cool 4C			
TYPE OF CONTAINER	aG	aG	G/P	G/P	G	G	G				
NO. OF CONTAINER(S)	4	3	1	1	2	1	1				
VOLUME	1000mL	1000mL	500mL	500mL	1000mL	125mL 4-12-06	~~125mL~~ 4-12-06				
SAMPLE ANALYSIS	Pesticides - 8081;	Chloro-Herbicides - EPA8151;	Sulfides - 9030;	NO2/NO3 - 353.1;	Oil &Grease - 413.1;	TIC - 415.1M (Total Inorganic Carbon)	TOC - 415.1 (Total organic carbon)				

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1HKY0	WATER	4-19-06	0500	X	X	X	X	X	X	X			

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: J.S. Pope / [signature]	DATE/TIME: 4-19-06 0545	RECEIVED BY/STORED IN: MO-745 Fridge #1	DATE/TIME: 4-19-06 0545
RELINQUISHED BY/REMOVED FROM: MO-745 FRIDGE #1	DATE/TIME: 4-27-06/1015	RECEIVED BY/STORED IN: D. TODAK / [signature]	DATE/TIME: 4-27-06/1015
RELINQUISHED BY/REMOVED FROM: D. TODAK / [signature]	DATE/TIME: 4-27-06/1015	RECEIVED BY/STORED IN: FED EX	DATE/TIME:
RELINQUISHED BY/REMOVED FROM:	DATE/TIME:	RECEIVED BY/STORED IN: [signature]	DATE/TIME: 04-28-06 0930
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

SDG: W04908

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): FGED10204

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Condition Upon Receipt Form

Client: Fluor Hanford COC/RFA No: F06-004-003 Date 04.28.06
Quote No: TO32 Initiated By: NM Time: 0930

Shipping Information

Shipper Name: Fedex

Multiple Packages Y (N) N/A

Shipping # (s):*

1.	7919 2671 1873	6.		1.	3°C	6.	
2.		7.		2.		7.	
3.		8.		3.		8.	
4.		9.		4.		9.	
5.		10.		5.		10.	

Sample Temperature (s):**

*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)	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: Sample preserved with Zinc Acetate/NaOH was received with a neutral Ph. We attempted to preserve it in the lab, but the ph did not change.

Corrective Action:

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

Project Management Review: _____ Date: 05-02-06

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.