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ANALYTICAL REPORT

PROJECT NO. 300 AREA TEDF

R06-001

Lot #: F6H030206
SDG #: W04972

John Trechter

Fluor Hanford Inc
600 Area, MO280, MSIN S3-30
Richland, WA 99352

SEVERN TRENT LABORATORIES, INC.

FOR: **Melania Harris**
Project Manager

August 16, 2006

Case Narrative
LOT NUMBER: F6H030206
SDG: W04972

This report contains the analytical results for the sample received under chain of custody by STL St. Louis on August 2, 2006. This sample is associated with your R06-001 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.

Purgeables Method: 624

Batch 6216092

The LCS recovery for Tetrachlorethene (160%) is outside the upper QC limit (137%), indicating a potential positive bias for that analyte. 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:

F6H030206 (1): TEDF0802061

Nitrite Method: 354.1

Batch 6215368

The MS recovery is outside the established QC limits. A matrix interference is evident in the sample. Method performance is demonstrated by acceptable LCS recovery.

Affected Sample:

F6H030206 (1): TEDF0802061

Base/Neutrals and Acids Method: 625

There are no observations or nonconformances associated with this analysis.

Metals Method: 200.7

There are no observations or nonconformances associated with this analysis.

Mercury Method: 245.2

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.

EXECUTIVE SUMMARY - Detection Highlights

F6H030206

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
TEDF0802061 08/02/06 09:15 001				
Chloroform	6.1	5.0	ug/L	CFR136A 624

METHODS SUMMARY

F6H030206

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Base/Neutrals and Acids	CFR136A 625	CFR136A 625
Mercury (Automated Cold Vapor Technique)	MCAWW 245.2	
Nitrite	MCAWW 354.1	
Nitrogen, Ammonia	MCAWW 350.1	MCAWW 350.1
Purgeables	CFR136A 624	SW846 5030B
Trace Inductively Coupled Plasma (ICP) Metals	MCAWW 200.7	MCAWW 200.7

References:

CFR136A "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

SAMPLE SUMMARY

F6H030206

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
JAJ7D	001	TEDF0802061	08/02/06	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.

Fluor Hanford Inc

Client Sample ID: TEDF0802061

GC/MS Volatiles

Lot-Sample #...: F6H030206-001 Work Order #...: JAJ7D1AC Matrix.....: WATER
 Date Sampled...: 08/02/06 Date Received...: 08/02/06
 Prep Date.....: 08/03/06 Analysis Date...: 08/03/06
 Prep Batch #...: 6216092
 Dilution Factor: 1 Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromodichloromethane	ND	2.2	ug/L	0.14
Chloroform	6.1	5.0	ug/L	0.19
1,1-Dichloroethane	ND	4.7	ug/L	0.16
Methylene chloride	ND	5.0	ug/L	0.10
Tetrachloroethene	ND	5.0	ug/L	0.19
Toluene	ND	5.0	ug/L	0.20
1,1,1-Trichloroethane	ND	5.0	ug/L	0.15
Trichloroethene	ND	1.9	ug/L	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	110	(70 - 123)
Toluene-d8	121	(75 - 126)
4-Bromofluorobenzene	100	(72 - 124)

Fluor Hanford Inc

TEDF0802061

GC/MS Volatiles

Lot-Sample #: F6H030206-001

Work Order #: JAJ7D1AC

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/L

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: F6H030206
 MB Lot-Sample #: F6H040000-092

Work Order #...: JAL9M1AA

Matrix.....: WATER

Prep Date.....: 08/03/06

Analysis Date...: 08/03/06

Prep Batch #...: 6216092

Dilution Factor: 1

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
Bromodichloromethane	ND	2.2	ug/L	CFR136A 624
Chloroform	ND	5.0	ug/L	CFR136A 624
1,1-Dichloroethane	ND	4.7	ug/L	CFR136A 624
Methylene chloride	0.29 J	5.0	ug/L	CFR136A 624
Tetrachloroethene	ND	5.0	ug/L	CFR136A 624
Toluene	ND	5.0	ug/L	CFR136A 624
1,1,1-Trichloroethane	ND	5.0	ug/L	CFR136A 624
Trichloroethene	ND	1.9	ug/L	CFR136A 624

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1,2-Dichloroethane-d4	106	(70 - 123)
Toluene-d8	123	(75 - 126)
4-Bromofluorobenzene	101	(72 - 124)

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 #: F6H040000-092 B Work Order #: JAL9M1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
None				ug/L

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F6H030206 Work Order #...: JAL9M1AC Matrix.....: WATER
 LCS Lot-Sample#: F6H040000-092
 Prep Date.....: 08/03/06 Analysis Date...: 08/03/06
 Prep Batch #...: 6216092
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
Trichloroethene	20.0	19.9	ug/L	99	CFR136A 624
Toluene	20.0	23.8	ug/L	119	CFR136A 624
Bromodichloromethane	20.0	17.9	ug/L	89	CFR136A 624
Chloroform	20.0	17.6	ug/L	88	CFR136A 624
1,1-Dichloroethane	20.0	18.5	ug/L	92	CFR136A 624
Methylene chloride	20.0	17.0	ug/L	85	CFR136A 624
Tetrachloroethene	20.0	32.2 a	ug/L	161	CFR136A 624
1,1,1-Trichloroethane	20.0	20.8	ug/L	104	CFR136A 624

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	87	(76 - 116)
Toluene-d8	121	(81 - 122)
4-Bromofluorobenzene	90	(75 - 123)

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.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: F6H030206 Work Order #...: JAJ7D1AK-MS Matrix.....: WATER
 MS Lot-Sample #: F6H030206-001 JAJ7D1AL-MSD
 Date Sampled...: 08/02/06 Date Received...: 08/02/06
 Prep Date.....: 08/03/06 Analysis Date...: 08/03/06
 Prep Batch #...: 6216092
 Dilution Factor: 1

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Toluene	ND	20.0	23.4	ug/L	117		CFR136A 624
	ND	20.0	23.8	ug/L	119	1.7	CFR136A 624
Bromodichloromethane	ND	20.0	20.8	ug/L	104		CFR136A 624
	ND	20.0	20.4	ug/L	102	2.0	CFR136A 624
Chloroform	6.1	20.0	25.7	ug/L	98		CFR136A 624
	6.1	20.0	25.4	ug/L	97	1.1	CFR136A 624
1,1-Dichloroethane	ND	20.0	21.0	ug/L	105		CFR136A 624
	ND	20.0	20.7	ug/L	104	1.2	CFR136A 624
Methylene chloride	ND	20.0	18.2	ug/L	91		CFR136A 624
	ND	20.0	18.8	ug/L	94	3.3	CFR136A 624
Tetrachloroethene	ND	20.0	18.2	ug/L	91		CFR136A 624
	ND	20.0	18.7	ug/L	94	2.9	CFR136A 624
1,1,1-Trichloroethane	ND	20.0	24.8	ug/L	124		CFR136A 624
	ND	20.0	23.8	ug/L	119	4.0	CFR136A 624
Trichloroethene	ND	20.0	21.0	ug/L	105		CFR136A 624
	ND	20.0	20.9	ug/L	104	0.52	CFR136A 624

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1,2-Dichloroethane-d4	94	(70 - 123)
	93	(70 - 123)
Toluene-d8	111	(75 - 126)
	113	(75 - 126)
4-Bromofluorobenzene	84	(72 - 124)
	85	(72 - 124)

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: TEDF0802061

GC/MS Semivolatiles

Lot-Sample #...: F6H030206-001 Work Order #...: JAJ7D1AA Matrix.....: WATER
Date Sampled...: 08/02/06 Date Received...: 08/02/06
Prep Date.....: 08/09/06 Analysis Date...: 08/12/06
Prep Batch #...: 6221522
Dilution Factor: 1 Method.....: CFR136A 625

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	2.6

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	46 *	(48 - 83)
2-Fluorophenol	32	(24 - 48)
2,4,6-Tribromophenol	63	(52 - 102)
Nitrobenzene-d5	58	(54 - 86)
Phenol-d5	23	(19 - 34)
Terphenyl-d14	70	(48 - 94)

NOTE(S) :

* Surrogate recovery is outside stated control limits.

Fluor Hanford Inc

TEDF0802061

GC/MS Semivolatiles

Lot-Sample #: F6H030206-001

Work Order #: JAJ7D1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
Unknown		140	M 2.4008	ug/L

NOTE(S) :

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

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: F6H030206
MB Lot-Sample #: F6H090000-522

Work Order #...: JA14W1AA

Matrix.....: WATER

Prep Date.....: 08/09/06

Analysis Date...: 08/11/06

Prep Batch #...: 6221522

Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	CFR136A 625

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
2-Fluorobiphenyl	48	(48 - 83)
2-Fluorophenol	37	(24 - 48)
2,4,6-Tribromophenol	66	(52 - 102)
Nitrobenzene-d5	63	(54 - 86)
Phenol-d5	26	(19 - 34)
Terphenyl-d14	75	(48 - 94)

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 #: F6H090000-522 B Work Order #: JA14W1AA

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
Unknown		160	M 2.4008	ug/L

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 #...: F6H030206 **Work Order #...**: JA14W1AC **Matrix.....**: WATER
LCS Lot-Sample#: F6H090000-522
Prep Date.....: 08/09/06 **Analysis Date...**: 08/11/06
Prep Batch #...: 6221522
Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
bis(2-Ethylhexyl) phthalate	100	83.3	ug/L	83	CFR136A 625

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	49	(45 - 87)
2-Fluorophenol	40	(28 - 49)
2,4,6-Tribromophenol	75	(61 - 96)
Nitrobenzene-d5	67	(55 - 85)
Phenol-d5	30	(22 - 35)
Terphenyl-d14	71	(60 - 86)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: F6H030206 Work Order #...: JAJ7D1AW-MS Matrix.....: WATER
 MS Lot-Sample #: F6H030206-001 JAJ7D1AX-MSD
 Date Sampled...: 08/02/06 Date Received...: 08/02/06
 Prep Date.....: 08/09/06 Analysis Date...: 08/12/06
 Prep Batch #...: 6221522
 Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
bis(2-Ethylhexyl) phthalate	ND	95.4	80.5	ug/L	84		CFR136A 625
	ND	96.0	82.9	ug/L	86	3.0	CFR136A 625

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorobiphenyl	57	(48 - 83)
	56	(48 - 83)
2-Fluorophenol	44	(24 - 48)
	44	(24 - 48)
2,4,6-Tribromophenol	79	(52 - 102)
	80	(52 - 102)
Nitrobenzene-d5	75	(54 - 86)
	75	(54 - 86)
Phenol-d5	32	(19 - 34)
	32	(19 - 34)
Terphenyl-d14	71	(48 - 94)
	72	(48 - 94)

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: TEDF0802061

TOTAL Metals

Lot-Sample #...: F6H030206-001
Date Sampled...: 08/02/06

Date Received...: 08/02/06

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #...: 6216065						
Iron	ND	100	ug/L	MCAWW 200.7	08/04-08/07/06	JAJ7D1AE
		Dilution Factor: 1		MDL.....: 25.0		
Prep Batch #...: 6216269						
Mercury	ND	0.20	ug/L	MCAWW 245.2	08/04/06	JAJ7D1AF
		Dilution Factor: 1		MDL.....: 0.046		

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F6H030206

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
MB Lot-Sample #: F6H040000-065				Prep Batch #... : 6216065		
Iron	ND	100	ug/L	MCAWW 200.7	08/04-08/07/06	JAL8J1AA
		Dilution Factor: 1				

MB Lot-Sample #: F6H040000-269				Prep Batch #... : 6216269		
Mercury	ND	0.20	ug/L	MCAWW 245.2	08/04/06	JAM0L1AA
		Dilution Factor: 1				

NOTE(S) :

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: F6H030206

Matrix.....: WATER

Date Sampled...: 08/02/06

Date Received...: 08/02/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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MS Lot-Sample #: F6H030206-001 Prep Batch #...: 6216065

Iron	ND	500	527	ug/L	105		MCAWW 200.7	08/04-08/07/06	JAJ7D1AM
	ND	500	520	ug/L	104	1.3	MCAWW 200.7	08/04-08/07/06	JAJ7D1AN

Dilution Factor: 1

MS Lot-Sample #: F6H030206-001 Prep Batch #...: 6216269

Mercury	ND	1.00	1.07	ug/L	107		MCAWW 245.2	08/04/06	JAJ7D1AP
	ND	1.00	1.07	ug/L	107	0.0	MCAWW 245.2	08/04/06	JAJ7D1AQ

Dilution Factor: 1

NOTE(S) :

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

Fluor Hanford Inc

Client Sample ID: TEDF0802061

General Chemistry

Lot-Sample #...: F6H030206-001
Date Sampled...: 08/02/06

Work Order #...: JAJ7D
Date Received...: 08/02/06

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrite as N	ND	50.0	ug/L	MCAWW 354.1	08/03/06	6215368
		Dilution Factor: 1		MDL.....: 14.3		
Nitrogen, as Ammonia	ND	50.0	ug/L	MCAWW 350.1	08/09/06	6221086
		Dilution Factor: 1		MDL.....: 5.5		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F6H030206

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Nitrite as N	ND	Work Order #: JAKG81AA 50.0	ug/L	MB Lot-Sample #: MCAWW 354.1	F6H030000-368 08/03/06	6215368
		Dilution Factor: 1				
Nitrogen, as Ammonia	ND	Work Order #: JAW6P1AA 50.0	ug/L	MB Lot-Sample #: MCAWW 350.1	F6H090000-086 08/09/06	6221086
		Dilution Factor: 1				

NOTE(S) :

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: F6H030206

Matrix.....: WATER

Date Sampled...: 08/02/06

Date Received...: 08/02/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrite as N	ND	500	376 N	ug/L	75	MCAWW 354.1	08/03/06	6215368
			Work Order #...: JAJ7D1AT		MS Lot-Sample #: F6H030206-001			
			Dilution Factor: 1					
Nitrogen, as Ammonia	ND	500	546	ug/L	109	MCAWW 350.1	08/09/06	6221086
			Work Order #...: JAJ7D1AR		MS Lot-Sample #: F6H030206-001			
			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.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F6H030206

Work Order #...: JAJ7D-SMP
JAJ7D-DUP

Matrix.....: WATER

Date Sampled...: 08/02/06

Date Received...: 08/02/06

<u>PARAM RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Nitrogen, as Ammonia					SD Lot-Sample #: F6H030206-001		
ND	ND	ug/L	0	(0-20)	MCAWW 350.1	08/09/06	6221086
		Dilution Factor: 1					
Nitrite as N					SD Lot-Sample #: F6H030206-001		
ND	ND	ug/L	0	(0-20)	MCAWW 354.1	08/03/06	6215368
		Dilution Factor: 1					

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. N/A
 Page 1 of 1

Collector D.S. ROOHR	Contact/Requestor DALE L. HALGREN	Telephone No. 376-9988	MSIN L6-04	FAX 376-6423
SAF No. R06-001	Sample Origin TW-V-582 310 TEDF 300 AREA	Purchase Order/Charge Code 118810 CA40		
Project Title 300 AREA TEDF NPDES COMPLIANCE SAMPLES	Logbook No. N/A	Ice Chest No. N/A	Temp. COOL TO 4 degrees C.	
Shipped To (Lab) SEVERN TRENT	Method of Shipment GOVERNMENT VEHICLE	Bill of Lading/Air Bill No. N/A		
Protocol CLEAN WATER ACT	Data Turnaround 15 DAYS PRIORITY	Offsite Property No. N/A		

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
TEDF0802061		W	08/02/06	0915	4/aGs 40mL	PURGEABLES EPA624	HCl pH<2
TEDF0802061		W		0917	4/aG 1L	BASE/ NEUTRALS AND ACIDS EPA625	Cool 4Deg C
TEDF0802061		W		0920	1/POLY 500mL	METALS Fe EPA200.7	HNO3 pH <2
TEDF0802061		W		0921	1/POLY 1L	NITRITE 354.1	COOL 4DEG C
TEDF0802061		W		0922	1/POLY 500mL	AMMONIA EPA350.1	H2SO4 pH <2
TEDF0802061		W		0923	1/POLY 1L	GROSS ALPHA & BETA GA GB	HNO3 pH <2
TEDF0802061		W		0924	1/POLY 2L	TOTAL RADIUM TOTAL/Ra	HNO3 pH <2
TEDF0802061		W		0926	1/POLY 1L	METALS Hg EPA245.21 (CV)	HN03
TEDF0802061		W		0927	1/POLY 20mL	ACTIVITY SCAN	NONE

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS <input type="radio"/> Yes <input checked="" type="radio"/> No NONE The following container(s) ALL contain RADIOACTIVE MATERIAL at concentrations that are not regulated for transportation per 49 CFR 173.403 but are not releasable per DOE Order 5400.5	SPECIAL INSTRUCTIONS Enhanced detection limits agreed to by R.L. Merrell 10/18/94 required. Exception: Chloroform PQL 5 ug/L. Contact JE Trechter ASAP if sample results are =>than enhanced detection limits. 15/45 summary (CAT 4,DB)
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Relinquished By D. ROOHR	Print D.S. ROOHR	Sign <i>[Signature]</i>	Date/Time 8/2/06-1000	Received By REFRIGERATOR	Print REFRIGERATOR	Sign <i>[Signature]</i>	Date/Time 8/2/06-1000	Matrix* S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By REFRIGERATOR			Date/Time 8/2/06 1335	Received By D. ROOHR			Date/Time 8/2/06-1335	
Relinquished By D. ROOHR			Date/Time 8/2/06 1400	Received By D. ROOHR			Date/Time 8/2/06 14:00	
Relinquished By DAVID HARBINSON			Date/Time 8/2/06 14:5	Received By Jill Clarke			Date/Time 080306 1000	

FINAL SAMPLE DISPOSITION Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

F6H030206

CLIENT ANALYSIS SUMMARY

Storage Loc: 2-266,M,HANFORD

Project Manager: MLH Quote #: 47975 SDG: W04972
Project: 300 AREA TEDF R06-001
PO#: 615 Report to: John Trechter
Client: 108302 Fluor Hanford Inc

Date Received: 2006-08-02
Analytical Due Date: 2006-08-17
Report Due Date: 2006-08-17
Report Type: B Standard Report
EDD Code: FEAD1

#SMPS in LOT: 0

Sample Contorl: Log in QC Received date is date received in Richland.

SDG should be assigned by Richland, check w/ PM.

Nitrite has short hold time. Notify PM if exceeded. VOA: notify PM if Chloroform >= 10 ug/l. Re-inject.

Notify PM if any parameter exceeds the CRDL. Do NOT dilute Nitrite to bring spike in control

Table with columns: SAMPLE #, CLIENT SAMPLE ID, Site ID, Client Matrix, DATE/TIME SAMPLED, WORKORDER, and !. Contains multiple rows of sample analysis data including sample IDs like TEDF0802061 and various chemical analysis results.

F6H030206

CLIENT COMMENTS SUMMARY

Storage Loc: 2-266,M,HANFORD

Project Manager: MLH

Quote #: 47975

SDG: W04972

Date Received: 2006-08-02

Project: 300 AREA TEDF

R06-001

Analytical Due Date: 2006-08-17

PO#: 615

Report to: John Trechter

Report Due Date: 2006-08-17

Client: 108302 Fluor Hanford Inc

#SMPS in LOT: 0

Report Type: B Standard Report

EDD Code: FEAD1

Sample Contorl:

Log in QC

Received date is date received in Richland.

SDG should be assigned by Richland, check w/ PM.

Nitrite has short hold time. Notify PM if exceeded.

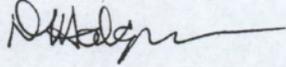
VOA: notify PM if Chloroform >= 10 ug/l. Re-inject.

Notify PM if any parameter exceeds the CRDL.

Do NOT dilute Nitrite to bring spike in control

Hanford samples should be batched by themselves

Memorandum

To: J.E. Trechter
Date: November 16, 2005
Location: S3-30
From: D.L. Halgren 
Location: L6-05
Subject: 300 Area Treated Effluent Disposal Facility Activity Screen Exemption

This letter exempts process water samples from the 300 Area Treated Effluent Disposal Facility (TEDF) from radioactive screening prior to shipment to offsite laboratories for analysis. This letter shall accompany each shipment of samples in lieu of radioactive screening results.

The 300 Area TEDF is a non-nuclear industrial wastewater treatment facility. It does not accept wastewater greater than drinking water standards and is not permitted to treat or discharge radioactive wastewater to the Columbia River.

Composite samples have been taken continuously since 1995 to monitor the radioactivity of the wastewater. Over the life of the facility the average activity has been less than 2 picoCuries per liter (pCi/l) for both total alpha and beta with maximum results at 21 and 7 pCi/l respectively.

If you have any questions regarding this matter, please contact me on 376-9988.

From: Origin ID: (509)375-3131
Shipping Dept.
SEVERN TRENT LABORATORIES
2800 GEORGE WASHINGTON WAY



CL5052506/17/22

RICHLAND, WA 99354

Ship Date: 02AUG06
ActWgt: 42 LB
System#: 1033413/INET2500
Account#: S *****

REF:



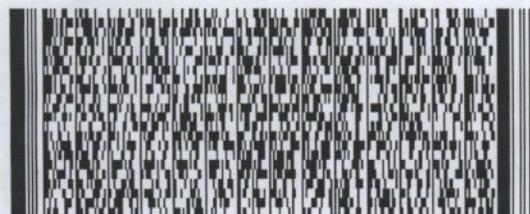
Delivery Address Bar Code

SHIP TO: (314)298-8566

BILL RECIPIENT

Sample Control
STL St. Louis
13715 N. Rider Trail

Earth City, MO 63045



PRIORITY OVERNIGHT

THU

Deliver By:
03AUG06

TRK# 7921 6951 6970

FORM
0201

STL

A1

63045 -MO-US

XX ALNA



Shipping Label: Your shipment is complete

1. Use the 'Print' feature from your browser to send this page to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

STL St. Louis Sample Log-in Folder Review Checklist

Lot #: FGH030206

Review Item	Yes	No	N/A
1. Is CUR complete?	✓		
a. Excursions noted?			✓
b. Resolution documented (please select)			✓
CUR Email Phone log			
2. Is the COC receipt signed, including date and time?	✓		
3. Do Client IDs on COC match Client Analysis Summary?	✓		
4. Are analyses/parameters assigned correctly?	✓		
5. Are analytical and report due dates correct?	✓		
6. Is the deliverable noted correct?	✓		
7. Is % moisture analysis assigned to all soils (Inorganic, Organic and Tritium analyses)			✓
8. Client QC assigned?	✓		
9. Does this lot required a CRS?		✓	
a. Is the CRS referenced in the comments on the Client Analysis Summary?			✓
10. If samples are from another STL laboratory, was a Work Share agreement provided?			✓
a. Is the Work Share complete?			✓
11. Is subcontracting required?		✓	
a. If so, is there a P.O. in place?			✓
b. Shipping documentation in folder?			✓
c. Verified receipt at destination lab?			✓
12. Is lot part of an SDG?	✓		
a. If so, is it referenced on the Client Analysis Summary?	✓		
b. Is the SDG complete?			✓
o If so, have the due dates been adjusted?			✓