

STL 12130²16

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

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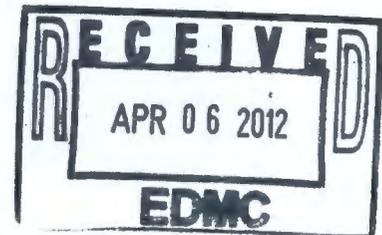
ANALYTICAL REPORT

W07-005

Lot #: F7F200198
SDG #: SL691A

Steve Trent

Fluor Hanford Inc
PO Box 1000
MSIN E6-35
Richland, WA 99352



TESTAMERICA LABORATORIES, INC. (FKA STL)

Jane M. Klein
for
Brian O'Donnell
Project Manager

July 11, 2007

CASE NARRATIVE

Fluor Hanford Inc.
P.O. Box 1000
MSIN E6-135
Richland, Washington 99352
July 11, 2007
Attention: Steve Trent

SDG	:	SL691A
Number of Samples	:	1
Sample Matrix	:	Water
Data Deliverable	:	RDR-R3897
Date SDG Closed	:	June 19, 2007

II. Introduction

On June 19, 2007 data reanalysis orders were received at STL-St. Louis.

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits.

Analyses requested: see attached copy of RDR

Deviation from Request: No Deviation from requested methods.

IV. Definitions

The following codes are used to denote laboratory quality control samples and can be found in the data summary section of this report:

QCBLK- Quality Control Blank, Method Blank

QCLCS- Quality Control Laboratory Control Sample, Blank Spike

V. Comments

General: The recheck request consists of RDR# 070619STLSL-R3897. A copy of the request (and the original it replaced) is included in this package for reference.

Fluor Hanford, Inc.
July 11, 2007
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The term "Detection Limit" used in the analytical data reports refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

Anion Results:

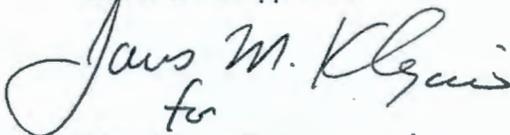
The results of the reanalysis compares favorably to those of the original for Fluoride and Nitrite. Chloride, Nitrate and Sulfate were significantly higher in the reanalysis (22.5 mg/L vs. 7.7 mg/L in the original for Chloride; 8.9 mg/L vs. 4.0 mg/L for Nitrate; 71.6 mg/L vs. 45.5 mg/L for Sulfate). No specific cause could be determined. In both analyses, the results for these three anions were reported from 20X dilutions. Although over calibration, the original straight run results compare fairly well with those of the 20X dilution in the reanalysis.

Analysis Comments:

The anion matrix spike solution contains all routine anions. Spiking technique, sample preparation and method compliance is demonstrated by the remaining acceptable MS recoveries. Poor matrix spike recovery for Nitrite in batch 7173054 is attributed to matrix interference.

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

Reviewed and approved:



Brian O'Donnell
St. Louis Project Manager

06/19/2007
RECHECK, RECOUNT, OR REANALYSIS ORDER
CONTRACT NO MW6-SBB-A19981

Severn Trent St. Louis
13715 Rider Trail North
Earth City, MO 63045

Battelle PNNL Order Number: 070619STLSSL-R3897

Sample Delivery Group: SL691

Special Instructions None

Samples(s)

Lab Sample ID	PNNL Sample	Action	TAT	METHOD_NAME:
F7E080217022	B1N4P7	Reanalysis	15/15	300.0_ANIONS_IC
F7E080217022	B1N4P7	Reanalysis	15/15	300.0_ANIONS_IC
F7E080217022	B1N4P7	Reanalysis	15/15	300.0_ANIONS_IC

Deliver Report Results to: Fluor Hanford, Inc.
1200 Jadwin Ave.
Richland, WA 99352
C/O Mr. Steve Trent

The report results must reference the Battelle PNNL-order number, SDG number, and the Battelle PNNL sample identification number shown above.

METHODS SUMMARY

SL691A

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Chloride	MCAWW 300.0A	MCAWW 300.0A
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Nitrate as NO3	MCAWW 300.0A	
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Sulfate	MCAWW 300.0A	MCAWW 300.0A

References:

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

SAMPLE SUMMARY

SL691A : F7F200198

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT</u>	<u>SAMPLE ID</u>	<u>SAMPLED</u>	<u>SAMP</u>
				<u>DATE</u>	<u>TIME</u>
J1DP7	001	B1N4P7		05/07/07	12:3

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.

WET CHEMISTRY

Fluor Hanford Inc

Client Sample ID: B1N4P7

General Chemistry

Lot-Sample #...: F7F200198-001
Date Sampled...: 05/07/07

Work Order #...: J1DP7
Date Received...: 06/20/07

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>
Chloride	22.5 D	4.0	mg/L	MCAWW 300.0A	06/21-06/22/07	7173051
		Dilution Factor: 20		MDL.....: 0.40		
Fluoride	0.27	0.10	mg/L	MCAWW 300.0A	06/21/07	7173052
		Dilution Factor: 1		MDL.....: 0.025		
Nitrate	8.9 D	0.40	mg/L	MCAWW 300.0A	06/21-06/22/07	7173055
		Dilution Factor: 20		MDL.....: 0.080		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	06/21/07	7173054
		Dilution Factor: 1		MDL.....: 0.0050		
Sulfate	71.6 D	10.0	mg/L	MCAWW 300.0A	06/21-06/22/07	7173053
		Dilution Factor: 20		MDL.....: 1.0		

NOTE (S) :

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: SL691A

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	PREP
		LIMIT	UNITS		ANALYSIS DATE	BATCH #
Chloride	ND	Work Order #: J1J401AA 0.20	mg/L	MB Lot-Sample #: F7F220000-051 MCAWW 300.0A	06/21/07	7173051
		Dilution Factor: 1				
Fluoride	ND	Work Order #: J1J411AA 0.10	mg/L	MB Lot-Sample #: F7F220000-052 MCAWW 300.0A	06/21/07	7173052
		Dilution Factor: 1				
Nitrate	ND	Work Order #: J1J481AA 0.020	mg/L	MB Lot-Sample #: F7F220000-055 MCAWW 300.0A	06/21/07	7173055
		Dilution Factor: 1				
Nitrite	ND	Work Order #: J1J431AA 0.020	mg/L	MB Lot-Sample #: F7F220000-054 MCAWW 300.0A	06/21/07	7173054
		Dilution Factor: 1				
Sulfate	ND	Work Order #: J1J421AA 0.50	mg/L	MB Lot-Sample #: F7F220000-053 MCAWW 300.0A	06/21/07	7173053
		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 #...: SL691A
 Date Sampled...: 05/07/07

Date Received...: 06/20/07

Matrix.....: WATER

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Chloride	22.5	40.0	60.2 D	mg/L	94	MCAWW 300.0A	06/21-06/22/07	7173051
Work Order #...: J1DP71AG MS Lot-Sample #: F7F200198-001 Dilution Factor: 20								
Fluoride	0.27	2.00	2.40	mg/L	106	MCAWW 300.0A	06/21-06/22/07	7173052
Work Order #...: J1DP71AJ MS Lot-Sample #: F7F200198-001 Dilution Factor: 1								
Nitrate	8.9	8.00	16.7 D	mg/L	98	MCAWW 300.0A	06/21-06/22/07	7173055
Work Order #...: J1DP71AQ MS Lot-Sample #: F7F200198-001 Dilution Factor: 20								
Nitrite	ND	0.100	0.164 N	mg/L	164	MCAWW 300.0A	06/21-06/22/07	7173054
Work Order #...: J1DP71AN MS Lot-Sample #: F7F200198-001 Dilution Factor: 1								
Sulfate	71.6	80.0	146 D	mg/L	93	MCAWW 300.0A	06/21-06/22/07	7173053
Work Order #...: J1DP71AL MS Lot-Sample #: F7F200198-001 Dilution Factor: 20								

NOTE(S) :

- Calculations are performed before rounding to avoid round-off errors in calculated results.
- D Result was obtained from the analysis of a dilution.
- N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: F7F200198

Work Order #....: J1DP7-SMP
J1DP7-DUP

Matrix.....: WATER

Date Sampled....: 05/07/07

Date Received...: 06/20/07

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH
Chloride	22.5 D	20.1 D	mg/L	11	(0-20)	SD Lot-Sample #: F7F200198-001 MCAWW 300.0A	06/21-06/22/07	71730!
			Dilution Factor: 20					
Fluoride	0.27	0.27	mg/L	1.3	(0-20)	SD Lot-Sample #: F7F200198-001 MCAWW 300.0A	06/21-06/22/07	71730!
			Dilution Factor: 1					
Sulfate	71.6 D	69.0 D	mg/L	3.7	(0-20)	SD Lot-Sample #: F7F200198-001 MCAWW 300.0A	06/21-06/22/07	71730!
			Dilution Factor: 20					
Nitrite	ND <i>N</i>	ND <i>N</i>	mg/L	0	(0-20)	SD Lot-Sample #: F7F200198-001 MCAWW 300.0A	06/21-06/22/07	71730!
			Dilution Factor: 1					
Nitrate	8.9 D	8.6 D	mg/L	2.9	(0-20)	SD Lot-Sample #: F7F200198-001 MCAWW 300.0A	06/21-06/22/07	71730!
			Dilution Factor: 20					

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
D Result was obtained from the analysis of a dilution.