RECEIVED OCTOBER 29, 2007

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

X07-025

Lot #: F7I240108
SDG #: SL711

Steve Trent

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

TESTAMERICA LABORATORIES, INC.

for

Michael C. Franks
Project Manager

October 25, 2007

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Fluor Hanford Inc.
P.O. Box 1000
Richland, Washington 99352
October 25, 2007
Attention: Steve Trent

SDG	:	SL711
Number of Samples	:	8
Sample Matrix	:	Water
Data Deliverable	:	Summary
Date SDG Closed	:	October 6, 2007

II. Introduction

Between September 22, 2007 and September 26, 2007, eight (8) water samples were received by TestAmerica St. Louis for chemical analysis. Samples B1MVB2, B1MVD0, B1MVF2, B1MVF6 were received outside temperature criteria (refer to CUR). The remaining samples were received within temperature criteria. See the COC and CUR forms for documentation of any variations on receipt conditions and temperature. Upon receipt, the samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

III. Analytical Results/ Methodology

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

Deviation from Request: None

IV. Definitions

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

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THE LEADER IN ENVIRONMENTAL TESTING

Fluor Hanford Inc.
October 25, 2007
SDG: SL711

V. Comments

General

The following SAFs are associated with this SDG: X07-025.

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

Volatiles

Batch: 7277144
The MS/MSD RPD for n-Butanol is not within method acceptance criteria. MS/MSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix.
Affected Samples:
F7I260253 (1): B1MVB2
F7I260253 (2): B1MVD0
F7I260253 (3): B1MVF2

Ion Chromatography

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 7267519 is attributed to matrix interference.
Affected Samples:
F7I240108 (1): B1MVH0
F7I240108 (2): B1MVH6
F7I240108 (3): B1MVH8
F7I240108 (4): B1MVJ0

The associated samples were analyzed outside of holding time for Nitrate/Nitrite. They were sampled on 9/20/07 and were received/analyzed on 9/22/07. Sample B1MVH8 was analyzed 45 minutes outside of hold, and sample B1MVJ0 was analyzed 7 minutes outside of hold. Please refer to included IRF 07-110. Results are reported in Nitrate batch 7267520 and Nitrite batch 7267519.
Affected Samples:
F7I240108 (3): B1MVH8
F7I240108 (4): B1MVJ0

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 7271410 is attributed to matrix interference.

The associated samples were analyzed one day outside of holding time for Nitrate/Nitrite. They were sampled on 9/24/07 and were received on 9/26/07, an hour before the first hold time expired. They were run on 9/27/07, one day out of hold, due to instrument problems. Please refer to included IRF 07-111. Results are reported in Nitrate batch 7271411 and Nitrite batch 7271410.

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Fluor Hanford Inc.
October 25, 2007
SDG: SL711

Affected Samples:

F7I260253 (1): B1MVB2
F7I260253 (2): B1MVD0
F7I260253 (3): B1MVF2
F7I260253 (4): B1MVF6

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:

for

Mike Franks
St. Louis Project Manager

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

STL – St Louis ISSUE RESOLUTION FORM FOR CONTRACT 615 WITH BHI/WMH/PNNL

FLUOR HANFORD TRACKING NUMBER: **07-110**

Date: October 17, 2007 SAF Nos. **X07-025**

SDG: **SL711** LOGIN No.: **F7I240108** TEST: **Nitrate & Nitrite**

Sample No.(s) **B1MVH8, B1MVJ0**

Submitted By: Mike Franks Submitted To: Heidi Hampt

Phone No. 314-298-8566 x206 Phone No. 509-376-4319

Fax No. 314-298-8757 Fax No. 866-252-5816

ISSUE	PROPOSED RESOLUTION
The listed samples were sampled on 9/20/07 and were received/analyzed on 9/22/07. Sample B1MVH8 was analyzed 45 minutes outside of hold, and sample B1MVJ0 was analyzed 7 minutes outside of hold	1. Proceed with analysis and report results and note holding time excursion in case narrative. 2. Cancel analysis

BHI/WMH/PNNL COMMENTS

Resolution #1 accepted per Lynn Bisping email on 10/19/07.

Signature and Date

XC: Ron Butler

STL – St Louis ISSUE RESOLUTION FORM FOR CONTRACT 615 WITH BHI/WMH/PNNL

FLUOR HANFORD TRACKING NUMBER: **07-111**

Date: October 17, 2007 SAF Nos. **X07-025**

SDG: **SL711** LOGIN No.: **F7I260253** TEST: **Nitrate & Nitrite**

Sample No.(s) **B1MVB2, B1MVD0, B1MVF2, B1MVF6**

Submitted By: Mike Franks Submitted To: Heidi Hampt

Phone No. 314-298-8566 x206 Phone No. 509-376-4319

Fax No. 314-298-8757 Fax No. 866-252-5816

ISSUE	PROPOSED RESOLUTION
The listed samples were analyzed one day out of hold. They were sampled on 9/24/07 and were received on 9/26/07, an hour before the first hold time expired. They were run on 9/27/07, one day out of hold, due to instrument problems.	1. Proceed with analysis and report results and note holding time excursion in case narrative. 2. Cancel analysis

BHI/WMH/PNNL COMMENTS

Resolution #1 accepted per Lynn Bisping email on 10/19/07.

Signature and Date

XC: Ron Butler

METHODS SUMMARY

SL711

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
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
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

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

SL711 : F7I240108

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
J7HH0	001	B1MVH0	09/20/07	13:00
J7HH2	002	B1MVH6	09/20/07	11:25
J7HH4	003	B1MVH8	09/20/07	09:45
J7HH5	004	B1MVJ0	09/20/07	10:40

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.

(Continued on next page)

SAMPLE SUMMARY

SL711 : F7I260253

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
J7N2T	001	B1MVB2	09/24/07	10:20
J7N3A	002	B1MVD0	09/24/07	11:15
J7N3D	003	B1MVF2	09/24/07	12:15
J7N3G	004	B1MVF6	09/24/07	13:30

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.

SDG# SL711

PNNL SL711

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X07-025-30

Page 1 of 1

Collector: Ferrito	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: X07-025	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SESP SEEPS OCTOBER 2007		Ice Chest No.: 104 Temp.
Shipped To (Lab): Severn Trent St. Louis	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: 7908 3390 1697
Protocol: SESP	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
Do not exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MVH0		W	9/20/07	1300	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1MVH0		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J. Ferrito			9/20/07 1600	SIG 5 LOCKED STORAGE			9/20/07 1600
locked storage	G. Pitts		9/21/07 1000	Express Shipping			9/21/07
Fed Ex			9-22-07 0845				9/22/07 0845
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

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

TestAmerica St. Louis

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PNNL SL711

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X07-025-33

Page 1 of 1

Collector: Ferritto	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: X07-025	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SESP SEEPS OCTOBER 2007		Ice Chest No.: 104 Temp.
Shipped To (Lab): Severn Trent St. Louis	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: 7908 3390 1697
Protocol: SESP	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
Do not exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MVH6		W	9/20/07	1125	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1MVH6		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J. Ferritto	[signature]		9/20/07	SIG 5 LOCKED STORAGE			9/20/07 1600
locked storage	Gw Patton	[signature]	9/21/07	Express shipping			9/21/07
Fed Ex			09-22-07 08:45	[signature]			9/22/07 0845

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

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

SDG# SL711

PNNL SL711

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X07-025-34

Page 1 of 1

Collector: Ferritto	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: X07-025	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SESP SEEPS OCTOBER 2007		Ice Chest No.: 104 Temp.
Shipped To (Lab): Severn Trent St. Louis	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: 7908 3390 1697
Protocol: SESP	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
Do not exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MVH8		W	9/20/07	0945	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1MVH8		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J. Ferritto			9/20/07 1600	SIG 5 LOCKED STORAGE			9/20/07 1600
Relinquished By			Date/Time	Received By			Date/Time
locked storage			9/21/07 1000	Express Shipping			9/21/07 1000
Relinquished By			Date/Time	Received By			Date/Time
FED Ex			9-22-07 08:45				9/22/07 0845
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

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

TestAmerica St. Louis

PNNL SL711

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X07-025-35

Page 1 of 1

Collector: Ferritto	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: X07-025	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SESP SEEPS OCTOBER 2007		Ice Chest No.: 104 Temp.
Shipped To (Lab): Severn Trent St. Louis	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: 7908 3390 1697
Protocol: SESP	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
Do not exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MVJ0		W	9/20/07	1040	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1MVJ0		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J Ferritto	[signature]		9/20/07	SIG & LOCKED STORAGE			9/20/07 1600
Sigma Slocked storage	[signature]	[signature]	9/21/07 1000	Express shipping			9/21/07
FedEx			9-22-07 08:45	[signature]			9/22/07 0845

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

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

TestAmerica St. Louis

Track Shipments/FedEx Kinko's Orders

Detailed Results

Quick Help

Tracking number	790833901697	**Reference**	104
Signed for by	B.DANIELS	**Destination**	Earth City, MO
Ship date	Sep 21, 2007	**Delivered to**	Shipping/Receiving
Delivery date	Sep 22, 2007 8:37 AM	**Service type**	Priority Overnight
		Weight	20.0 lbs.

Status Delivered

Signature image available Yes

Date/Time		Activity	Location	Details
Sep 22, 2007	8:37 AM	**Delivered**	Earth City, MO	
	7:28 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
	7:23 AM	At local FedEx facility	EARTH CITY, MO	
	5:08 AM	At dest sort facility	BERKELEY, MO	
	4:10 AM	Departed FedEx location	MEMPHIS, TN	
	3:43 AM	Arrived at FedEx location	MEMPHIS, TN	
Sep 21, 2007	5:22 PM	Left origin	PASCO, WA	
	3:53 PM	Picked up	PASCO, WA	
	12:05 PM	Package data transmitted to FedEx		

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

Subscribe to tracking updates (optional)

Your Name: **Your E-mail Address:**

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

Select format: HTML Text Wireless

Add personal message:

Not available for Wireless or non-English characters.

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

Submit

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F7I240108

Condition Upon Receipt Form

Client: Hanford
Quote No: 71983
COC/RFA No: X07-025-30,33,34,35
Initiated By: BD
Date: 9/22/07
Time: 0845

Shipping Information

Shipper Name: PE
Shipping # (s):*
1. 7908 3390 1697
2.
3.
4.
5.
6.
7.
8.
9.
10.

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

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

Notes:
X07-025-30, 33, 34, 35

Corrective Action:
☐ Client Contact Name: Informed by:
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: If released, notify:
Project Management Review: Date: 09.24.07

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.

PNNL SL711

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X07-025-2

Page 1 of 1

Collector: Ferritto	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: X07-025	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SESP SEEPS OCTOBER 2007		Ice Chest No.: EDIS Temp.
Shipped To (Lab): Severn Trent St. Louis	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: 7908 3608 0902
Protocol: SESP	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
Do not exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MVB2		W	9/24/07	1020	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	HCl or H2SO4 to pH <2 Cool 4C
B1MVB2		W	↓	↓	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1MVB2		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
J. Ferritto	[signature]		9/24/07	[illegible]			9/24/07 1030
locked storage	G Patton	[signature]	9/25/07	express shipping			9/25/07
FED Ex			9-26-07 09:15	[signature]			9/26/07 0915

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

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

TestAmerica St. Louis

SDG# SL711

PNNL SL711

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X07-025-20

Page 1 of 1

Collector: Ferritto	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: X07-025	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SESP SEEPS OCTOBER 2007		Ice Chest No.: ED15 Temp.
Shipped To (Lab): Severn Trent St. Louis	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: 7908 3608 0902
Protocol: SESP	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
Do not exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MVD0		W	9/24/07	1115	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	HCl or H2SO4 to pH <2 Cool 4C
B1MVD0		W	↓	↓	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1MVD0		W	↓	1115	1x20-mL P	Activity Scan	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
J. Ferritto	9/24/07	SIG 5 LOCKED STORAGE	9/24/07 1630
locked storage G Patton	9/25/07	express shipping	9/25/07
FED Ex	9-26-07 0915		9/26/07 0915

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liqui	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

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

TestAmerica St. Louis

SDG# SL711

PNNL SL711

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X07-025-26

Collector: Ferritto	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: X07-025	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SESP SEEPS OCTOBER 2007		Ice Chest No.: ED15 Temp.
Shipped To (Lab): Severn Trent St. Louis	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: 7908 3608 0902
Protocol: SESP	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
Do not exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MVF2		W	9/24/07	1215	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	HCl or H2SO4 to pH <2 Cool 4C
B1MVF2		W	↓	↓	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1MVF2		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
J. Ferritto	9/24/07	LOCKED STORAGE	9/24/07 1630
locked storage	9/25/07 1100	Express shipping	9/25/07
FED Ex	9-26-07 09:15		9/26/07 0915

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

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

TestAmerica St. Louis

SDG# SL711

PNNL SL711

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # X07-025-28

Page 1 of 1

Collector: Ferritto	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: X07-025	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SESP SEEPS OCTOBER 2007		Ice Chest No.: ED15 Temp.
Shipped To (Lab): Severn Trent St. Louis	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: 7908 3608 0902
Protocol: SESP	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Do not combine X SAF samples with other sets. Need SDG to be stand alone.
Do not exceed SDG closure of 14 days.
Submit invoices & deliverables to DL Stewart, PNNL.

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MVF6		W	9/24/07	1330	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1MVF6		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By (Print / Sign)	Date/Time	Received By (Print / Sign)	Date/Time
J. Ferritto	9/24/07	SIG 5 LOCKED STORAGE	9/24/07 1630
locked storage G. Patton	9/25/07 1100	Express shipping	9/25/07
FedEx	9-26-07 0915		9/26/07 0915

Matrix *

S = Soil		DS = Drum Solid	
SE = Sediment		DL = Drum Liquid	
SO = Solid		T = Tissue	
SL = Sludge		WI = Wine	
W = Water		L = Liquid	
O = Oil		V = Vegetation	
A = Air		X = Other	

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

TestAmerica St. Louis

Track Shipments/FedEx Kinko's Orders

Detailed Results

Quick Help

Tracking number	790836080902	**Reference**	ED15
Signed for by	B.DANIELS	**Destination**	Earth City, MO
Ship date	Sep 25, 2007	**Delivered to**	Shipping/Receiving
Delivery date	Sep 26, 2007 9:08 AM	**Service type**	Priority Overnight
		Weight	25.0 lbs.

Status Delivered

Signature image available Yes

Date/Time		Activity	Location	Details
Sep 26, 2007	9:08 AM	**Delivered**	Earth City, MO	
	7:34 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
	7:27 AM	At local FedEx facility	EARTH CITY, MO	
	5:16 AM	At dest sort facility	BERKELEY, MO	
	4:45 AM	Departed FedEx location	MEMPHIS, TN	
	1:07 AM	Arrived at FedEx location	MEMPHIS, TN	
Sep 25, 2007	5:26 PM	Left origin	PASCO, WA	
	4:15 PM	Picked up	PASCO, WA	
	12:05 PM	Package data transmitted to FedEx		

Signature proof E-mail results Track more shipments/orders

Subscribe to tracking updates (optional)

Your Name: **Your E-mail Address:**

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

Select format: HTML Text Wireless

Add personal message:

Not available for Wireless or non-English characters.

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

Submit

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): FTI260253- 265- 269- 278- FTI260285 285

Condition Upon Receipt Form

Client: Hanford
Quote No: 76983, 76781, 76400, 75894, 76407, 76406
COC/RFA No: See below
Initiated By: bb
Date: 9/26/07
Time: 09:5

Shipping Information

Shipper Name: FE
Shipping # (s):*

1.	7908 3608 0902	6.	
2.	7903 4488 7660	7.	
3.	7903 4491 7266	8.	
4.	7917 7047 1432	9.	
5.		10.	

Multiple Packages (Y) N

Sample Temperature(s):**

1.	✗ 12°	6.	
2.	3	7.	
3.	3	8.	
4.	5	9.	
5.		10.	

*Numbered shipping lines correspond to Numbered Sample Temp lines

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

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

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

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

Notes: 1. X07-025-2,20,26,28 ✗ temp blank placed under ice, 12° is cooler temp

2. I07-062-148, I07-043-80, W07-008-235 3x1L for BINHCl broken

2 for TPH diesel & 1 for Kerosene

3. W07-008-595, 683

4. I07-061-87

All vials for BIPLBS have larger than pea size headspace

Possible hold times with X07-025-2,20,26,28 anions

Corrective Action:

☐ Client Contact Name: _____ Informed by: _____

☐ Sample(s) processed "as is"

☐ Sample(s) on hold until: _____ If released, notify: _____

Project Management Review: [signature] Date: 10.03.07

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.

VOLATILES

Fluor Hanford Inc

Client Sample ID: B1MVB2

GC/MS Volatiles

Lot-Sample #...: F7I260253-001 **Work Order #...:** J7N2T1AC **Matrix.....:** WATER
Date Sampled...: 09/24/07 **Date Received..:** 09/26/07
Prep Date.....: 10/03/07 **Analysis Date..:** 10/03/07
Prep Batch #...: 7277144
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.045
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.064
Vinyl chloride	ND	2.0	ug/L	0.044
Acetone	ND	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.10
1,1-Dichloroethane	ND	1.0	ug/L	0.046
2-Butanone	ND	5.0	ug/L	1.8
Chloroform	**0.18 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.048
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.11
Benzene	ND	1.0	ug/L	0.10
Trichloroethene	**0.29 J**	**1.0**	**ug/L**	**0.10**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.092
Tetrachloroethene	ND	1.0	ug/L	0.17
Tetrahydrofuran	ND	10	ug/L	1.2
Xylenes (total)	ND	3.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.10
1-Butanol	ND	40	ug/L	14
Toluene	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	107	(69 - 119)
Dibromofluoromethane	95	(74 - 134)
1,2-Dichloroethane-d4	100	(72 - 128)
4-Bromofluorobenzene	95	(71 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

Fluor Hanford Inc

B1MVB2

GC/MS Volatiles

Lot-Sample #: F7I260253-001 **Work Order #:** J7N2T1AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

Fluor Hanford Inc

Client Sample ID: B1MVD0

GC/MS Volatiles

Lot-Sample #...: F7I260253-002 **Work Order #...:** J7N3A1AC **Matrix.....:** WATER
Date Sampled...: 09/24/07 **Date Received..:** 09/26/07
Prep Date.....: 10/03/07 **Analysis Date..:** 10/03/07
Prep Batch #...: 7277144
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.045
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.064
Vinyl chloride	ND	2.0	ug/L	0.044
Acetone	ND	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.10
1,1-Dichloroethane	ND	1.0	ug/L	0.046
2-Butanone	ND	5.0	ug/L	1.8
Chloroform	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.048
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.11
Benzene	ND	1.0	ug/L	0.10
Trichloroethene	ND	1.0	ug/L	0.10
4-Methyl-2-pentanone	ND	5.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.092
Tetrachloroethene	ND	1.0	ug/L	0.17
Tetrahydrofuran	ND	10	ug/L	1.2
Xylenes (total)	ND	3.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.10
1-Butanol	ND	40	ug/L	14
Toluene	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	105	(69 - 119)
Dibromofluoromethane	96	(74 - 134)
1,2-Dichloroethane-d4	100	(72 - 128)
4-Bromofluorobenzene	99	(71 - 115)

Fluor Hanford Inc

B1MVD0

GC/MS Volatiles

Lot-Sample #: F7I260253-002 **Work Order #:** J7N3A1AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

Fluor Hanford Inc

Client Sample ID: B1MVF2

GC/MS Volatiles

Lot-Sample #...: F7I260253-003 **Work Order #...:** J7N3D1AC **Matrix.....:** WATER
Date Sampled...: 09/24/07 **Date Received..:** 09/26/07
Prep Date.....: 10/03/07 **Analysis Date..:** 10/03/07
Prep Batch #...: 7277144
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.045
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.064
Vinyl chloride	ND	2.0	ug/L	0.044
Acetone	ND	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.10
1,1-Dichloroethane	ND	1.0	ug/L	0.046
2-Butanone	ND	5.0	ug/L	1.8
Chloroform	**0.33 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.048
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.11
Benzene	ND	1.0	ug/L	0.10
Trichloroethene	**4.6**	**1.0**	**ug/L**	**0.10**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.092
Tetrachloroethene	ND	1.0	ug/L	0.17
Tetrahydrofuran	ND	10	ug/L	1.2
Xylenes (total)	ND	3.0	ug/L	0.30
1,4-Dichlorobenzene	ND	1.0	ug/L	0.10
1-Butanol	ND	40	ug/L	14
Toluene	ND	1.0	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	107	(69 - 119)
Dibromofluoromethane	97	(74 - 134)
1,2-Dichloroethane-d4	100	(72 - 128)
4-Bromofluorobenzene	103	(71 - 115)

NOTE(S):

J Estimated result. Result is less than RL.

Fluor Hanford Inc

B1MVF2

GC/MS Volatiles

Lot-Sample #: F7I260253-003 **Work Order #:** J7N3D1AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL711 **Work Order #...:** J775E1AA **Matrix.....:** WATER
MB Lot-Sample #: F7J040000-144

Prep Date.....: 10/03/07
Analysis Date..: 10/03/07 **Prep Batch #...:** 7277144
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,4-Dioxane	ND	80	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Acetone	ND	2.0	ug/L	SW846 8260B
Methylene chloride	**0.13 J**	**1.0**	**ug/L**	**SW846 8260B**
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Propionitrile	ND	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	10	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1-Butanol	ND	40	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	107	(69 - 119)
Dibromofluoromethane	99	(74 - 134)
1,2-Dichloroethane-d4	104	(72 - 128)
4-Bromofluorobenzene	105	(71 - 115)

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 #: F7J040000-144 B **Work Order #:** J775E1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL711 **Work Order #...:** J775E1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F7J040000-144 J775E1AD-LCSD
Prep Date.....: 10/03/07 **Analysis Date..:** 10/03/07
Prep Batch #...: 7277144
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	10.0	9.92	ug/L	99		SW846 8260B
	10.0	9.72	ug/L	97	2.0	SW846 8260B
Ethylbenzene	10.0	10.1	ug/L	101		SW846 8260B
	10.0	9.99	ug/L	100	1.1	SW846 8260B
1,4-Dioxane	200	263	ug/L	132		SW846 8260B
	200	252	ug/L	126	4.4	SW846 8260B
Vinyl chloride	10.0	9.21	ug/L	92		SW846 8260B
	10.0	8.45	ug/L	85	8.6	SW846 8260B
Acetone	10.0	10.3	ug/L	103		SW846 8260B
	10.0	9.04	ug/L	90	13	SW846 8260B
Methylene chloride	10.0	10.7	ug/L	107		SW846 8260B
	10.0	10.2	ug/L	102	4.5	SW846 8260B
Carbon disulfide	10.0	12.6	ug/L	126		SW846 8260B
	10.0	12.0	ug/L	120	4.3	SW846 8260B
1,1-Dichloroethane	10.0	9.38	ug/L	94		SW846 8260B
	10.0	9.24	ug/L	92	1.6	SW846 8260B
2-Butanone	10.0	10.9	ug/L	109		SW846 8260B
	10.0	9.30	ug/L	93	16	SW846 8260B
Chloroform	10.0	9.28	ug/L	93		SW846 8260B
	10.0	9.58	ug/L	96	3.2	SW846 8260B
cis-1,2-Dichloroethene	10.0	10.1	ug/L	101		SW846 8260B
	10.0	9.91	ug/L	99	1.7	SW846 8260B
Propionitrile	50.0	55.2	ug/L	110		SW846 8260B
	50.0	51.8	ug/L	104	6.4	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.99	ug/L	100		SW846 8260B
	10.0	9.78	ug/L	98	2.1	SW846 8260B
1,1,1-Trichloroethane	10.0	9.59	ug/L	96		SW846 8260B
	10.0	9.66	ug/L	97	0.66	SW846 8260B
Carbon tetrachloride	10.0	10.1	ug/L	101		SW846 8260B
	10.0	9.99	ug/L	100	1.2	SW846 8260B
1,2-Dichloroethane	10.0	9.61	ug/L	96		SW846 8260B
	10.0	9.59	ug/L	96	0.21	SW846 8260B
Benzene	10.0	9.54	ug/L	95		SW846 8260B
	10.0	9.42	ug/L	94	1.2	SW846 8260B
Trichloroethene	10.0	9.48	ug/L	95		SW846 8260B
	10.0	9.61	ug/L	96	1.4	SW846 8260B
4-Methyl-2-pentanone	10.0	10.6	ug/L	106		SW846 8260B
	10.0	11.4	ug/L	114	7.1	SW846 8260B
1,1,2-Trichloroethane	10.0	9.54	ug/L	95		SW846 8260B
	10.0	9.57	ug/L	96	0.23	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL711 **Work Order #...:** J775E1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F7J040000-144 J775E1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Tetrachloroethene	**10.0**	**8.27**	**ug/L**	**83**		**SW846 8260B**
	10.0	**8.72**	**ug/L**	**87**	**5.4**	**SW846 8260B**
Tetrahydrofuran	**50.0**	**51.5**	**ug/L**	**103**		**SW846 8260B**
	50.0	**49.4**	**ug/L**	**99**	**4.0**	**SW846 8260B**
1,4-Dichlorobenzene	**10.0**	**9.46**	**ug/L**	**95**		**SW846 8260B**
	10.0	**9.26**	**ug/L**	**93**	**2.0**	**SW846 8260B**
1-Butanol	**100**	**118**	**ug/L**	**118**		**SW846 8260B**
	100	**104**	**ug/L**	**104**	**13**	**SW846 8260B**
Toluene	**10.0**	**10.1**	**ug/L**	**101**		**SW846 8260B**
	10.0	**10.0**	**ug/L**	**100**	**0.29**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	104	(85 - 121)
	103	(85 - 121)
Dibromofluoromethane	100	(84 - 117)
	101	(84 - 117)
1,2-Dichloroethane-d4	104	(72 - 124)
	104	(72 - 124)
4-Bromofluorobenzene	106	(80 - 121)
	105	(80 - 121)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL711 **Work Order #...:** J7N2T1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F7I260253-001 J7N2T1AK-MSD
Date Sampled...: 09/24/07 **Date Received..:** 09/26/07
Prep Date.....: 10/03/07 **Analysis Date..:** 10/03/07
Prep Batch #...: 7277144
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10.0	9.98	ug/L	100		SW846 8260B
	ND	10.0	10.8	ug/L	108	8.3	SW846 8260B
Ethylbenzene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.5	ug/L	105	3.0	SW846 8260B
1,4-Dioxane	ND	200	225	ug/L	112		SW846 8260B
	ND	200	232	ug/L	116	2.8	SW846 8260B
Vinyl chloride	ND	10.0	8.40	ug/L	84		SW846 8260B
	ND	10.0	9.00	ug/L	90	6.9	SW846 8260B
Acetone	ND	10.0	10.8	ug/L	108		SW846 8260B
	ND	10.0	9.45	ug/L	94	13	SW846 8260B
Methylene chloride	ND	10.0	10.8	ug/L	108		SW846 8260B
	ND	10.0	11.0	ug/L	110	1.5	SW846 8260B
Carbon disulfide	ND	10.0	12.4	ug/L	124		SW846 8260B
	ND	10.0	13.1	ug/L	131	5.6	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.74	ug/L	97		SW846 8260B
	ND	10.0	9.94	ug/L	99	2.1	SW846 8260B
2-Butanone	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	9.32	ug/L	93	9.5	SW846 8260B
Chloroform	0.18	10.0	9.84	ug/L	97		SW846 8260B
	0.18	10.0	10.2	ug/L	101	4.0	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.4	ug/L	104	1.7	SW846 8260B
Propionitrile	ND	50.0	50.3	ug/L	101		SW846 8260B
	ND	50.0	50.2	ug/L	100	0.02	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	9.91	ug/L	99		SW846 8260B
	ND	10.0	10.8	ug/L	108	8.7	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	9.58	ug/L	96		SW846 8260B
	ND	10.0	10.0	ug/L	100	4.4	SW846 8260B
Carbon tetrachloride	ND	10.0	9.66	ug/L	97		SW846 8260B
	ND	10.0	10.2	ug/L	102	5.0	SW846 8260B
1,2-Dichloroethane	ND	10.0	9.54	ug/L	95		SW846 8260B
	ND	10.0	9.79	ug/L	98	2.6	SW846 8260B
Benzene	ND	10.0	9.88	ug/L	99		SW846 8260B
	ND	10.0	10.2	ug/L	102	3.6	SW846 8260B
Trichloroethene	0.29	10.0	10.3	ug/L	100		SW846 8260B
	0.29	10.0	10.6	ug/L	104	3.2	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	9.52	ug/L	95		SW846 8260B
	ND	10.0	10.5	ug/L	105	10	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.44	ug/L	94		SW846 8260B
	ND	10.0	9.45	ug/L	95	0.14	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL711 **Work Order #...:** J7N2T1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F7I260253-001 J7N2T1AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Tetrachloroethene	**ND**	**10.0**	**8.08**	**ug/L**	**81**		**SW846 8260B**
	ND	**10.0**	**8.34**	**ug/L**	**83**	**3.1**	**SW846 8260B**
Tetrahydrofuran	**ND**	**50.0**	**46.2**	**ug/L**	**92**		**SW846 8260B**
	ND	**50.0**	**47.8**	**ug/L**	**96**	**3.3**	**SW846 8260B**
1,4-Dichlorobenzene	**ND**	**10.0**	**9.40**	**ug/L**	**94**		**SW846 8260B**
	ND	**10.0**	**9.47**	**ug/L**	**95**	**0.80**	**SW846 8260B**
1-Butanol	**ND**	**100**	**83.2**	**ug/L**	**83**		**SW846 8260B**
	ND	**100**	**105**	**ug/L**	**105 p**	**24**	**SW846 8260B**
Toluene	**ND**	**10.0**	**10.2**	**ug/L**	**102**		**SW846 8260B**
	ND	**10.0**	**10.6**	**ug/L**	**106**	**3.8**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	99	(69 - 119)
	102	(69 - 119)
Dibromofluoromethane	99	(74 - 134)
	101	(74 - 134)
1,2-Dichloroethane-d4	98	(72 - 128)
	101	(72 - 128)
4-Bromofluorobenzene	95	(71 - 115)
	96	(71 - 115)

NOTE(S):

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

Bold print denotes control parameters

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

WET CHEMISTRY

Fluor Hanford Inc

Client Sample ID: B1MVH0

General Chemistry

Lot-Sample #...: F7I240108-001 **Work Order #...:** J7HH0 **Matrix.....:** WATER
Date Sampled...: 09/20/07 **Date Received..:** 09/22/07

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**17.2 D**	**2.0**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267516**
	Dilution Factor: 10			MDL.....: 0.20		
Fluoride	**0.28**	**0.10**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267517**
	Dilution Factor: 1			MDL.....: 0.025		
Nitrate	**6.2 D**	**0.20**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267520**
	Dilution Factor: 10			MDL.....: 0.040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	09/22/07	7267519
	Dilution Factor: 1			MDL.....: 0.0050		
Sulfate	**55.2 D**	**5.0**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267518**
	Dilution Factor: 10			MDL.....: 0.50		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

Fluor Hanford Inc

Client Sample ID: B1MVH6

General Chemistry

Lot-Sample #...: F7I240108-002 **Work Order #...:** J7HH2 **Matrix.....:** WATER
Date Sampled...: 09/20/07 **Date Received..:** 09/22/07

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**5.6 D**	**2.0**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267516**
		Dilution Factor: 10		MDL.....: 0.20		
Fluoride	**0.15**	**0.10**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267517**
		Dilution Factor: 1		MDL.....: 0.025		
Nitrate	**2.8 D**	**0.20**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267520**
		Dilution Factor: 10		MDL.....: 0.040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	09/22/07	7267519
		Dilution Factor: 1		MDL.....: 0.0050		
Sulfate	**20.2 D**	**5.0**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267518**
		Dilution Factor: 10		MDL.....: 0.50		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

Fluor Hanford Inc

Client Sample ID: B1MVH8

General Chemistry

Lot-Sample #...: F7I240108-003 **Work Order #...:** J7HH4 **Matrix.....:** WATER
Date Sampled...: 09/20/07 **Date Received..:** 09/22/07

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**7.9 D**	**2.0**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267516**
		Dilution Factor: 10		MDL.....: 0.20		
Fluoride	**0.22**	**0.10**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267517**
		Dilution Factor: 1		MDL.....: 0.025		
Nitrate	**3.1 D**	**0.20**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267520**
		Dilution Factor: 10		MDL.....: 0.040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	09/22/07	7267519
		Dilution Factor: 1		MDL.....: 0.0050		
Sulfate	**28.0 D**	**5.0**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267518**
		Dilution Factor: 10		MDL.....: 0.50		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

Fluor Hanford Inc

Client Sample ID: B1MVJ0

General Chemistry

Lot-Sample #...: F7I240108-004 **Work Order #...:** J7HH5 **Matrix.....:** WATER
Date Sampled...: 09/20/07 **Date Received..:** 09/22/07

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**8.7 D**	**2.0**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267516**
		Dilution Factor: 10		MDL.....: 0.20		
Fluoride	**0.24**	**0.10**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267517**
		Dilution Factor: 1		MDL.....: 0.025		
Nitrate	**5.2 D**	**0.20**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267520**
		Dilution Factor: 10		MDL.....: 0.040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	09/22/07	7267519
		Dilution Factor: 1		MDL.....: 0.0050		
Sulfate	**31.6 D**	**5.0**	**mg/L**	**MCAWW 300.0A**	**09/22/07**	**7267518**
		Dilution Factor: 10		MDL.....: 0.50		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

Fluor Hanford Inc

Client Sample ID: B1MVB2

General Chemistry

Lot-Sample #...: F7I260253-001 **Work Order #...:** J7N2T **Matrix.....:** WATER
Date Sampled...: 09/24/07 **Date Received..:** 09/26/07

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**8.4 D**	**2.0**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271407**
		Dilution Factor: 10		MDL.....: 0.20		
Fluoride	**0.20**	**0.10**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271408**
		Dilution Factor: 1		MDL.....: 0.025		
Nitrate	**2.0 D**	**0.20**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271411**
		Dilution Factor: 10		MDL.....: 0.040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	09/27/07	7271410
		Dilution Factor: 1		MDL.....: 0.0050		
Sulfate	**30.2 D**	**5.0**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271409**
		Dilution Factor: 10		MDL.....: 0.50		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

Fluor Hanford Inc

Client Sample ID: B1MVD0

General Chemistry

Lot-Sample #...: F7I260253-002 **Work Order #...:** J7N3A **Matrix.....:** WATER
Date Sampled...: 09/24/07 **Date Received..:** 09/26/07

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**2.6**	**0.20**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271407**
		Dilution Factor: 1		MDL.....: 0.020		
Fluoride	ND	0.10	mg/L	MCAWW 300.0A	09/27/07	7271408
		Dilution Factor: 1		MDL.....: 0.025		
Nitrate	**0.37**	**0.020**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271411**
		Dilution Factor: 1		MDL.....: 0.0040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	09/27/07	7271410
		Dilution Factor: 1		MDL.....: 0.0050		
Sulfate	**17.4**	**0.50**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271409**
		Dilution Factor: 1		MDL.....: 0.050		

NOTE(S):

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

Fluor Hanford Inc

Client Sample ID: B1MVF2

General Chemistry

Lot-Sample #...: F7I260253-003 **Work Order #...:** J7N3D **Matrix.....:** WATER
Date Sampled...: 09/24/07 **Date Received..:** 09/26/07

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**19.5 D**	**2.0**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271407**
	Dilution Factor: 10			MDL.....: 0.20		
Fluoride	**0.097 B**	**0.10**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271408**
	Dilution Factor: 1			MDL.....: 0.025		
Nitrate	**7.1 D**	**0.20**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271411**
	Dilution Factor: 10			MDL.....: 0.040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	09/27/07	7271410
	Dilution Factor: 1			MDL.....: 0.0050		
Sulfate	**37.5 D**	**5.0**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271409**
	Dilution Factor: 10			MDL.....: 0.50		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

Fluor Hanford Inc

Client Sample ID: B1MVF6

General Chemistry

Lot-Sample #...: F7I260253-004 **Work Order #...:** J7N3G **Matrix.....:** WATER
Date Sampled...: 09/24/07 **Date Received..:** 09/26/07

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	**10.2 D**	**2.0**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271407**
		Dilution Factor: 10		MDL.....: 0.20		
Fluoride	**0.074 B**	**0.10**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271408**
		Dilution Factor: 1		MDL.....: 0.025		
Nitrate	**4.2 D**	**0.20**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271411**
		Dilution Factor: 10		MDL.....: 0.040		
Nitrite	ND N	0.020	mg/L	MCAWW 300.0A	09/27/07	7271410
		Dilution Factor: 1		MDL.....: 0.0050		
Sulfate	**48.5 D**	**5.0**	**mg/L**	**MCAWW 300.0A**	**09/27/07**	**7271409**
		Dilution Factor: 10		MDL.....: 0.50		

NOTE(S):

RL Reporting Limit

D Result was obtained from the analysis of a dilution.

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: SL711 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: J7JP01AA		MB Lot-Sample #:	F7I240000-516	
	ND	0.20	mg/L	MCAWW 300.0A	09/22/07	7267516
		Dilution Factor: 1				
Chloride		Work Order #: J78DK1AA		MB Lot-Sample #:	F7I280000-407	
	ND	0.20	mg/L	MCAWW 300.0A	09/27/07	7271407
		Dilution Factor: 1				
Fluoride		Work Order #: J7JP11AA		MB Lot-Sample #:	F7I240000-517	
	ND	0.10	mg/L	MCAWW 300.0A	09/22/07	7267517
		Dilution Factor: 1				
Fluoride		Work Order #: J78DL1AA		MB Lot-Sample #:	F7I280000-408	
	ND	0.10	mg/L	MCAWW 300.0A	09/27/07	7271408
		Dilution Factor: 1				
Nitrate		Work Order #: J7JP71AA		MB Lot-Sample #:	F7I240000-520	
	ND	0.020	mg/L	MCAWW 300.0A	09/22/07	7267520
		Dilution Factor: 1				
Nitrite		Work Order #: J7JP51AA		MB Lot-Sample #:	F7I240000-519	
	ND	0.020	mg/L	MCAWW 300.0A	09/22/07	7267519
		Dilution Factor: 1				
Nitrite		Work Order #: J78DN1AA		MB Lot-Sample #:	F7I280000-410	
	ND	0.020	mg/L	MCAWW 300.0A	09/27/07	7271410
		Dilution Factor: 1				
Nitrogen, Nitrate		Work Order #: J78DQ1AA		MB Lot-Sample #:	F7I280000-411	
	ND	0.020	mg/L	MCAWW 300.0A	09/27/07	7271411
		Dilution Factor: 1				
Sulfate		Work Order #: J7JP21AA		MB Lot-Sample #:	F7I240000-518	
	ND	0.50	mg/L	MCAWW 300.0A	09/22/07	7267518
		Dilution Factor: 1				
Sulfate		Work Order #: J78DM1AA		MB Lot-Sample #:	F7I280000-409	
	ND	0.50	mg/L	MCAWW 300.0A	09/27/07	7271409
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL711 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #: J7JP01AC		LCS Lot-Sample#:	F7I240000-516	
	2.00	1.99	mg/L	99	MCAWW 300.0A	09/22/07	7267516
			Dilution Factor: 1				
Chloride			Work Order #: J78DK1AC		LCS Lot-Sample#:	F7I280000-407	
	2.00	1.83	mg/L	91	MCAWW 300.0A	09/27/07	7271407
			Dilution Factor: 1				
Fluoride			Work Order #: J7JP11AC		LCS Lot-Sample#:	F7I240000-517	
	1.00	0.951	mg/L	95	MCAWW 300.0A	09/22/07	7267517
			Dilution Factor: 1				
Fluoride			Work Order #: J78DL1AC		LCS Lot-Sample#:	F7I280000-408	
	1.00	1.01	mg/L	101	MCAWW 300.0A	09/27/07	7271408
			Dilution Factor: 1				
Nitrate			Work Order #: J7JP71AC		LCS Lot-Sample#:	F7I240000-520	
	0.400	0.367	mg/L	92	MCAWW 300.0A	09/22/07	7267520
			Dilution Factor: 1				
Nitrite			Work Order #: J7JP51AC		LCS Lot-Sample#:	F7I240000-519	
	0.160	0.152	mg/L	95	MCAWW 300.0A	09/22/07	7267519
			Dilution Factor: 1				
Nitrite			Work Order #: J78DN1AC		LCS Lot-Sample#:	F7I280000-410	
	0.160	0.165	mg/L	103	MCAWW 300.0A	09/27/07	7271410
			Dilution Factor: 1				
Nitrogen, Nitrate			Work Order #: J78DQ1AC		LCS Lot-Sample#:	F7I280000-411	
	0.400	0.391	mg/L	98	MCAWW 300.0A	09/27/07	7271411
			Dilution Factor: 1				
Sulfate			Work Order #: J7JP21AC		LCS Lot-Sample#:	F7I240000-518	
	8.00	7.49	mg/L	94	MCAWW 300.0A	09/22/07	7267518
			Dilution Factor: 1				
Sulfate			Work Order #: J78DM1AC		LCS Lot-Sample#:	F7I280000-409	
	8.00	7.40	mg/L	92	MCAWW 300.0A	09/27/07	7271409
			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 #...: SL711 **Matrix.....:** WATER
Date Sampled...: 09/20/07 **Date Received..:** 09/22/07

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #...:		J7HH41AH		MS Lot-Sample #:	F7I240108-003
	7.9	20.0	29.0 D	mg/L	106	MCAWW 300.0A	09/22/07	7267516
			Dilution Factor: 10					
Chloride			Work Order #...:		J7N3A1AJ		MS Lot-Sample #:	F7I260253-002
	2.6	2.00	4.62	mg/L	102	MCAWW 300.0A	09/27/07	7271407
			Dilution Factor: 1					
Fluoride			Work Order #...:		J7HH41AK		MS Lot-Sample #:	F7I240108-003
	0.22	2.00	2.20	mg/L	99	MCAWW 300.0A	09/22/07	7267517
			Dilution Factor: 1					
Fluoride			Work Order #...:		J7N3A1AL		MS Lot-Sample #:	F7I260253-002
	ND	2.00	2.12	mg/L	106	MCAWW 300.0A	09/27/07	7271408
			Dilution Factor: 1					
Nitrate			Work Order #...:		J7HH41AR		MS Lot-Sample #:	F7I240108-003
	3.1	4.00	6.81 D	mg/L	91	MCAWW 300.0A	09/22/07	7267520
			Dilution Factor: 10					
Nitrite			Work Order #...:		J7HH41AP		MS Lot-Sample #:	F7I240108-003
	ND	0.100	0.145 N	mg/L	145	MCAWW 300.0A	09/22/07	7267519
			Dilution Factor: 1					
Nitrite			Work Order #...:		J7N3A1AQ		MS Lot-Sample #:	F7I260253-002
	ND	0.100	0.129 N	mg/L	129	MCAWW 300.0A	09/27/07	7271410
			Dilution Factor: 1					
Nitrogen, Nitrate			Work Order #...:		J7N3A1AT		MS Lot-Sample #:	F7I260253-002
	0.37	0.400	0.742	mg/L	93	MCAWW 300.0A	09/27/07	7271411
			Dilution Factor: 1					
Sulfate			Work Order #...:		J7HH41AM		MS Lot-Sample #:	F7I240108-003
	28.0	40.0	65.4 D	mg/L	94	MCAWW 300.0A	09/22/07	7267518
			Dilution Factor: 10					
Sulfate			Work Order #...:		J7N3A1AN		MS Lot-Sample #:	F7I260253-002
	17.4	4.00	21.8	mg/L	109	MCAWW 300.0A	09/27/07	7271409
			Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL711 **Matrix.....:** WATER
Date Sampled...: 09/20/07 **Date Received..:** 09/22/07

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 #...: F7I240108 **Work Order #...:** J7HH4-SMP J7HH4-DUP **Matrix.....:** WATER

Date Sampled...: 09/20/07 **Date Received..:** 09/22/07

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #:	F7I240108-003	
	7.9 D	7.6 D	mg/L	3.6	(0-20)	MCAWW 300.0A	09/22/07	7267516
			Dilution Factor: 10					
Fluoride						SD Lot-Sample #:	F7I240108-003	
	0.22	0.16	mg/L	33	(0-20)	MCAWW 300.0A	09/22/07	7267517
			Dilution Factor: 1					
Sulfate						SD Lot-Sample #:	F7I240108-003	
	28.0 D	26.8 D	mg/L	4.3	(0-20)	MCAWW 300.0A	09/22/07	7267518
			Dilution Factor: 10					
Nitrite						SD Lot-Sample #:	F7I240108-003	
	ND N JM 10-25-07	ND N	mg/L	0	(0-20)	MCAWW 300.0A	09/22/07	7267519
			Dilution Factor: 1					
Nitrate						SD Lot-Sample #:	F7I240108-003	
	3.1 D	2.9 D	mg/L	7.0	(0-20)	MCAWW 300.0A	09/22/07	7267520
			Dilution Factor: 10					

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.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F7I240108 **Work Order #...:** J7N3A-SMP J7N3A-DUP **Matrix.....:** WATER

Date Sampled...: 09/24/07 **Date Received..:** 09/26/07

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #:	F7I260253-002	
	2.6	2.6	mg/L	0.32	(0-20)	MCAWW 300.0A	09/27/07	7271407
			Dilution Factor: 1					
Fluoride						SD Lot-Sample #:	F7I260253-002	
	ND	ND	mg/L	0	(0-20)	MCAWW 300.0A	09/27/07	7271408
			Dilution Factor: 1					
Sulfate						SD Lot-Sample #:	F7I260253-002	
	17.4	17.7	mg/L	1.3	(0-20)	MCAWW 300.0A	09/27/07	7271409
			Dilution Factor: 1					
Nitrite						SD Lot-Sample #:	F7I260253-002	
	ND N JW 10-25-07	ND N	mg/L	0	(0-20)	MCAWW 300.0A	09/27/07	7271410
			Dilution Factor: 1					
Nitrate						SD Lot-Sample #:	F7I260253-002	
	0.37	0.34	mg/L	7.3	(0-20)	MCAWW 300.0A	09/27/07	7271411
			Dilution Factor: 1					