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ANALYTICAL REPORT

S06-009

Lot #: F6L020194
SDG #: SL657

Dot Stewart

Pacific Northwest National Lab
3110 Port of Benton Blvd.
Sigma 5 MS K694
Richland, WA 99352

SEVERN TRENT LABORATORIES, INC.

Brian O'Donnell
Project Manager

February 8, 2007

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CASE NARRATIVE

Pacific Northwest National Laboratories
P.O. Box 1970
Richland, Washington 99352
February 8, 2007
Attention: Dot Stewart

SDG	:	SL657
Number of Samples	:	7
Sample Matrix	:	Water
Data Deliverable	:	Summary
Date SDG Closed	:	December 16, 2006

II. Introduction

Between December 2, 2006 and December 15, 2006, seven (7) water samples were received by STL St. Louis for chemical analysis. The 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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Pacific Northwest National Laboratories
February 8, 2007
SDG: SL657

V. Comments

General

The following SAFs are associated with this SDG: S06-009, S06-007, S06-006, I06-054.

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

The LCS/LCSD RPDs for two compounds are not within method acceptance criteria. LCS/LCSD recoveries are within QC limits demonstrating good extraction performance in the sample matrix.

The RPDs in the MS/MSD are not within method acceptance criteria due to the MSD being double-spiked. MS/MSD recoveries are acceptable that is demonstrating good extraction performance in the sample matrix. The MSD recovery (biased high) and the RPDs for Acetone and Carbon Disulfide are outside QC acceptance criteria. However, the associated sample was non-detect for these two compounds.
Batch:
6347269
Affected Samples:
F6L090133 (2): B1KCW6

The MS/MSD RPDs for two compounds are outside of the QC limits. Their recoveries are within the QC limits.
Batch:
6353427
Affected Samples:
F6L150232 (1): B1K569

The RPDs for three compounds are outside of the QC limits. The recoveries are acceptable (see above). The data is reportable.

The associated sample was analyzed at dilution due to high concentrations of target analytes (Carbon Tetrachloride). The reporting limits have been adjusted only for those targets reported from the dilution run. Since this sample was used for batch QC purposes, all compounds are reported from the dilution analysis in hard copy form only.
Batch:
6355154
Affected Samples:
F6L150232 (1): B1K569

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Pacific Northwest National Laboratories
February 8, 2007
SDG: SL657

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 Fluoride in batch 6340469, Sulfate in batch 6340470, and Nitrite in batch 6340471 is attributed to matrix interference.
Affected Samples:
F6L050184 (1): B1JLB8

Poor matrix spike recovery for Chloride in batch 6353551, Fluoride in batch 6353552, Nitrite in batch 6353554, and Nitrate in batch 6353555 is attributed to matrix interference.
Affected Samples:
F6L140292 (2): B1J997

The associated samples were analyzed at a dilution for one or more anions. The reporting limit has been adjusted for the dilution.
Affected Samples:
F6L090133 (2): B1KCW6
F6L140292 (2): B1J997
F6L150232 (1): B1K569

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 Sulfate in batch 6353385 and Nitrite in batch 6353386 is attributed to matrix interference.
Affected Samples:
F6L150232 (1): B1K569

There were no observations or nonconformances to report for the following analyses:

Alkalinity
ICP Metals

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
Brian O'Donnell
St. Louis Project Manager

METHODS SUMMARY

SL657

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
Alkalinity	MCAWW 310.1	MCAWW 310.1
Chloride	MCAWW 300.0A	MCAWW 300.0A
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B	
Nitrate as N	MCAWW 300.0A	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

SL657 : F6L020194

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JKPL9	001	B1KJN5	12/01/06	08:41

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

SL657 : F6L050184

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JKR7H	001	B1JLB8	12/04/06	12:43

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.
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(Continued on next page)

SAMPLE SUMMARY

SL657 : F6L090133

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JK6E7	001	B1KCW5	12/08/06	10:13
JK6FA	002	B1KCW6	12/08/06	10:13

NOTE(S):

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(Continued on next page)

SAMPLE SUMMARY

SL657 : F6L140292

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JLG7N	001	B1J996	12/13/06	08:25
JLG7R	002	B1J997	12/13/06	08:25

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
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(Continued on next page)

SAMPLE SUMMARY

SL657 : F6L150232

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JLKMW	001	B1K569	12/14/06	09:16

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.

VOLATILES

Pacific Northwest National Laboratory

Client Sample ID: B1KJN5

GC/MS Volatiles

Lot-Sample #...: F6L020194-001 Work Order #...: JKPL91AC Matrix.....: WATER
Date Sampled...: 12/01/06 Date Received..: 12/02/06
Prep Date.....: 12/07/06 Analysis Date..: 12/07/06
Prep Batch #...: 6342145
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.21
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.22
Vinyl chloride	ND	2.0	ug/L	0.23
Acetone	ND	2.0	ug/L	0.80
Methylene chloride	**4.7**	**1.0**	**ug/L**	**0.10**
Carbon disulfide	ND	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	5.0	ug/L	0.56
Chloroform	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,1,1-Trichloroethane	ND	1.0	ug/L	0.15
Carbon tetrachloride	**0.22 J**	**1.0**	**ug/L**	**0.15**
1,2-Dichloroethane	ND	1.0	ug/L	0.21
Benzene	ND	1.0	ug/L	0.17
Trichloroethene	ND	1.0	ug/L	0.20
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23
Tetrachloroethene	ND	1.0	ug/L	0.19
Tetrahydrofuran	ND	10	ug/L	2.9
Xylenes (total)	ND	3.0	ug/L	0.58
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
1-Butanol	ND	40	ug/L	2.6
Toluene	ND	1.0	ug/L	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(66 - 131)
Dibromofluoromethane	112	(69 - 135)
1,2-Dichloroethane-d4	118	(69 - 132)
4-Bromofluorobenzene	104	(66 - 119)

NOTE(S):

J Estimated result. Result is less than RL.

Pacific Northwest National Laboratory

B1KJN5

GC/MS Volatiles

Lot-Sample #: F6L020194-001 **Work Order #:** JKPL91AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

Pacific Northwest National Laboratory

Client Sample ID: B1KCW6

GC/MS Volatiles

Lot-Sample #...: F6L090133-002 **Work Order #...:** JK6FA1AC **Matrix.....:** WATER
Date Sampled...: 12/08/06 **Date Received..:** 12/09/06
Prep Date.....: 12/12/06 **Analysis Date..:** 12/12/06
Prep Batch #...: 6347269
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.21
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.22
Vinyl chloride	ND	2.0	ug/L	0.23
Acetone	ND N	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND N	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	5.0	ug/L	0.56
Chloroform	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,1,1-Trichloroethane	ND	1.0	ug/L	0.15
Carbon tetrachloride	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.21
Benzene	ND	1.0	ug/L	0.17
Trichloroethene	**0.96 J**	**1.0**	**ug/L**	**0.20**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23
Tetrachloroethene	ND	1.0	ug/L	0.19
Tetrahydrofuran	ND	10	ug/L	2.9
Xylenes (total)	ND	3.0	ug/L	0.58
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
1-Butanol	ND	40	ug/L	2.6
Toluene	ND	1.0	ug/L	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	101	(66 - 131)
Dibromofluoromethane	116	(69 - 135)
1,2-Dichloroethane-d4	116	(69 - 132)
4-Bromofluorobenzene	97	(66 - 119)

NOTE(S):

N Spike sample recovery is outside control limits.

J Estimated result. Result is less than RL.

Pacific Northwest National Laboratory

B1KCW6

GC/MS Volatiles

Lot-Sample #: F6L090133-002 **Work Order #:** JK6FA1AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

Pacific Northwest National Laboratory

Client Sample ID: B1K569

GC/MS Volatiles

Lot-Sample #...: F6L150232-001 **Work Order #...:** JLKMW1AC **Matrix.....:** WATER
Date Sampled...: 12/14/06 **Date Received..:** 12/15/06
Prep Date.....: 12/18/06 **Analysis Date..:** 12/18/06
Prep Batch #...: 6353427
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	1.0	ug/L	0.21
1,4-Dioxane	ND	80	ug/L	12
Ethylbenzene	ND	1.0	ug/L	0.22
Vinyl chloride	ND	2.0	ug/L	0.23
Acetone	ND	2.0	ug/L	0.80
Methylene chloride	ND	1.0	ug/L	0.10
Carbon disulfide	ND	1.0	ug/L	0.16
1,1-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	5.0	ug/L	0.56
Chloroform	**6.7**	**1.0**	**ug/L**	**0.19**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.19
Propionitrile	ND	5.0	ug/L	1.7
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,1,1-Trichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.21
Benzene	ND	1.0	ug/L	0.17
Trichloroethene	**4.4**	**1.0**	**ug/L**	**0.20**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.53
1,1,2-Trichloroethane	ND	1.0	ug/L	0.23
Tetrachloroethene	**0.28 J**	**1.0**	**ug/L**	**0.19**
Tetrahydrofuran	ND	10	ug/L	2.9
Xylenes (total)	ND	3.0	ug/L	0.58
1,4-Dichlorobenzene	ND	1.0	ug/L	0.20
1-Butanol	ND	40	ug/L	2.6
Toluene	ND	1.0	ug/L	0.20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	108	(66 - 131)
Dibromofluoromethane	118	(69 - 135)
1,2-Dichloroethane-d4	103	(69 - 132)
4-Bromofluorobenzene	101	(66 - 119)

NOTE(S):

J Estimated result. Result is less than RL.

Pacific Northwest National Laboratory

B1K569

GC/MS Volatiles

Lot-Sample #: F6L150232-001 **Work Order #:** JLKMW1AC **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

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

Pacific Northwest National Laboratory

Client Sample ID: B1K569

GC/MS Volatiles

Lot-Sample #...: F6L150232-001 Work Order #...: JLKMW2AC Matrix.....: WATER
Date Sampled...: 12/14/06 Date Received..: 12/15/06
Prep Date.....: 12/19/06 Analysis Date..: 12/19/06
Prep Batch #...: 6355154
Dilution Factor: 20 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloroethene	ND	20	ug/L	4.2
1,4-Dioxane	ND	1600	ug/L	240
Ethylbenzene	ND	20	ug/L	4.5
Vinyl chloride	ND	40	ug/L	4.5
Acetone	ND	40	ug/L	16
Methylene chloride	**23 D**	**20**	**ug/L**	**2.0**
Carbon disulfide	ND	20	ug/L	3.2
1,1-Dichloroethane	ND	20	ug/L	3.3
2-Butanone	ND	100	ug/L	11
Chloroform	**5.3 J,D**	**20**	**ug/L**	**3.7**
cis-1,2-Dichloroethene	ND	20	ug/L	3.8
Propionitrile	ND	100	ug/L	33
trans-1,2-Dichloroethene	ND	20	ug/L	3.2
1,1,1-Trichloroethane	ND	20	ug/L	2.9
Carbon tetrachloride	**250 D**	**20**	**ug/L**	**3.0**
1,2-Dichloroethane	ND	20	ug/L	4.2
Benzene	ND	20	ug/L	3.5
Trichloroethene	**4.8 J,D**	**20**	**ug/L**	**4.0**
4-Methyl-2-pentanone	ND	100	ug/L	11
1,1,2-Trichloroethane	ND	20	ug/L	4.5
Tetrachloroethene	ND	20	ug/L	3.8
Tetrahydrofuran	ND	200	ug/L	58
Xylenes (total)	ND	60	ug/L	12
1,4-Dichlorobenzene	ND	20	ug/L	3.9
1-Butanol	ND	800	ug/L	51
Toluene	ND	20	ug/L	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	97	(66 - 131)
Dibromofluoromethane	97	(69 - 135)
1,2-Dichloroethane-d4	110	(69 - 132)
4-Bromofluorobenzene	106	(66 - 119)

NOTE(S):

D Result was obtained from the analysis of a dilution.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: SL657 **Work Order #...:** JK3XC1AA **Matrix.....:** WATER
MB Lot-Sample #: F6L080000-145

Prep Date.....: 12/07/06
Analysis Date..: 12/07/06 **Prep Batch #...:** 6342145
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	ND	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	100	(66 - 131)
Dibromofluoromethane	112	(69 - 135)
1,2-Dichloroethane-d4	118	(69 - 132)
4-Bromofluorobenzene	109	(66 - 119)

NOTE(S):

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

Pacific Northwest National Laboratory

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F6L080000-145 B **Work Order #:** JK3XC1AA **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 #...: SL657 **Work Order #...:** JLDAH1AA **Matrix.....:** WATER
MB Lot-Sample #: F6L130000-269

Prep Date.....: 12/12/06
Analysis Date..: 12/12/06 **Prep Batch #...:** 6347269
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	ND	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	100	(66 - 131)
Dibromofluoromethane	113	(69 - 135)
1,2-Dichloroethane-d4	113	(69 - 132)
4-Bromofluorobenzene	99	(66 - 119)

NOTE(S):

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

Pacific Northwest National Laboratory

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F6L130000-269 B **Work Order #:** JLDAH1AA **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 #...: SL657 **Work Order #...:** JLRV11AA **Matrix.....:** WATER
MB Lot-Sample #: F6L190000-427

Prep Date.....: 12/18/06
Analysis Date..: 12/18/06 **Prep Batch #...:** 6353427
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	ND	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
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	(66 - 131)
Dibromofluoromethane	108	(69 - 135)
1,2-Dichloroethane-d4	112	(69 - 132)
4-Bromofluorobenzene	104	(66 - 119)

NOTE(S):

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

Pacific Northwest National Laboratory

Method Blank Report

GC/MS Volatiles

Lot-Sample #: F6L190000-427 B **Work Order #:** JLRV11AA **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 #...: SL657 **Work Order #...:** JL6QA1AA **Matrix.....:** WATER
MB Lot-Sample #: F6L210000-154

Prep Date.....: 12/19/06
Analysis Date..: 12/19/06 **Prep Batch #...:** 6355154
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	ND	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	**0.26 J**	**1.0**	**ug/L**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	99	(66 - 131)
Dibromofluoromethane	97	(69 - 135)
1,2-Dichloroethane-d4	108	(69 - 132)
4-Bromofluorobenzene	106	(66 - 119)

NOTE(S):

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

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL657 Work Order #...: JK3XC1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F6L080000-145 JK3XC1AD-LCSD
Prep Date.....: 12/07/06 Analysis Date..: 12/07/06
Prep Batch #...: 6342145
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	10.0	9.12	ug/L	91		SW846 8260B
	10.0	9.70	ug/L	97	6.2	SW846 8260B
Ethylbenzene	10.0	9.90	ug/L	99		SW846 8260B
	10.0	9.74	ug/L	97	1.7	SW846 8260B
1,4-Dioxane	200	265	ug/L	132		SW846 8260B
	200	218	ug/L	109	19	SW846 8260B
Vinyl chloride	10.0	9.01	ug/L	90		SW846 8260B
	10.0	8.98	ug/L	90	0.36	SW846 8260B
Acetone	10.0	9.67	ug/L	97		SW846 8260B
	10.0	10.7	ug/L	107	10	SW846 8260B
Methylene chloride	10.0	11.3	ug/L	113		SW846 8260B
	10.0	11.3	ug/L	113	0.080	SW846 8260B
Carbon disulfide	10.0	10.3	ug/L	103		SW846 8260B
	10.0	10.8	ug/L	108	4.4	SW846 8260B
1,1-Dichloroethane	10.0	9.50	ug/L	95		SW846 8260B
	10.0	9.48	ug/L	95	0.21	SW846 8260B
2-Butanone	10.0	9.36	ug/L	94		SW846 8260B
	10.0	10.2	ug/L	102	9.0	SW846 8260B
Chloroform	10.0	9.70	ug/L	97		SW846 8260B
	10.0	9.98	ug/L	100	2.8	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.96	ug/L	100		SW846 8260B
	10.0	10.2	ug/L	102	2.5	SW846 8260B
Propionitrile	50.0	51.8	ug/L	104		SW846 8260B
	50.0	51.4	ug/L	103	0.75	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.29	ug/L	93		SW846 8260B
	10.0	9.49	ug/L	95	2.1	SW846 8260B
1,1,1-Trichloroethane	10.0	9.63	ug/L	96		SW846 8260B
	10.0	9.72	ug/L	97	0.92	SW846 8260B
Carbon tetrachloride	10.0	9.14	ug/L	91		SW846 8260B
	10.0	9.06	ug/L	91	0.98	SW846 8260B
1,2-Dichloroethane	10.0	9.52	ug/L	95		SW846 8260B
	10.0	9.38	ug/L	94	1.6	SW846 8260B
Benzene	10.0	9.33	ug/L	93		SW846 8260B
	10.0	9.46	ug/L	95	1.4	SW846 8260B
Trichloroethene	10.0	8.96	ug/L	90		SW846 8260B
	10.0	8.94	ug/L	89	0.23	SW846 8260B
4-Methyl-2-pentanone	10.0	9.96	ug/L	100		SW846 8260B
	10.0	10.5	ug/L	105	5.1	SW846 8260B
1,1,2-Trichloroethane	10.0	9.77	ug/L	98		SW846 8260B
	10.0	9.76	ug/L	98	0.090	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL657 **Work Order #...:** JK3XC1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F6L080000-145 JK3XC1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Tetrachloroethene	**10.0**	**8.19**	**ug/L**	**82**		**SW846 8260B**
	10.0	**8.08**	**ug/L**	**81**	**1.3**	**SW846 8260B**
Tetrahydrofuran	**50.0**	**51.2**	**ug/L**	**102**		**SW846 8260B**
	50.0	**53.3**	**ug/L**	**107**	**4.0**	**SW846 8260B**
1,4-Dichlorobenzene	**10.0**	**9.35**	**ug/L**	**93**		**SW846 8260B**
	10.0	**9.15**	**ug/L**	**92**	**2.1**	**SW846 8260B**
1-Butanol	**100**	**119**	**ug/L**	**119**		**SW846 8260B**
	100	**133**	**ug/L**	**133**	**11**	**SW846 8260B**
Toluene	**10.0**	**9.44**	**ug/L**	**94**		**SW846 8260B**
	10.0	**9.56**	**ug/L**	**96**	**1.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	102	(85 - 117)
	101	(85 - 117)
Dibromofluoromethane	104	(82 - 121)
	103	(82 - 121)
1,2-Dichloroethane-d4	104	(74 - 126)
	107	(74 - 126)
4-Bromofluorobenzene	102	(76 - 117)
	98	(76 - 117)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL657 Work Order #...: JLDAH1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F6L130000-269 JLDAH1AD-LCSD
Prep Date.....: 12/12/06 Analysis Date..: 12/12/06
Prep Batch #...: 6347269
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Ethylbenzene	10.0	9.33	ug/L	93		SW846 8260B
	10.0	9.89	ug/L	99	5.9	SW846 8260B
1,1-Dichloroethene	10.0	9.88	ug/L	99		SW846 8260B
	10.0	9.53	ug/L	95	3.6	SW846 8260B
1,4-Dioxane	200	167	ug/L	84		SW846 8260B
	200	176	ug/L	88	5.1	SW846 8260B
Vinyl chloride	10.0	9.86	ug/L	99		SW846 8260B
	10.0	9.99	ug/L	100	1.2	SW846 8260B
Acetone	10.0	10.5	ug/L	105		SW846 8260B
	10.0	8.50 p	ug/L	85	21	SW846 8260B
Methylene chloride	10.0	9.99	ug/L	100		SW846 8260B
	10.0	10.2	ug/L	102	2.3	SW846 8260B
Carbon disulfide	10.0	9.84	ug/L	98		SW846 8260B
	10.0	10.1	ug/L	101	2.5	SW846 8260B
1,1-Dichloroethane	10.0	10.0	ug/L	100		SW846 8260B
	10.0	10.4	ug/L	104	3.6	SW846 8260B
2-Butanone	10.0	9.47	ug/L	95		SW846 8260B
	10.0	9.08	ug/L	91	4.2	SW846 8260B
Chloroform	10.0	9.34	ug/L	93		SW846 8260B
	10.0	9.86	ug/L	99	5.4	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.32	ug/L	93		SW846 8260B
	10.0	10.1	ug/L	101	8.1	SW846 8260B
Propionitrile	50.0	47.5	ug/L	95		SW846 8260B
	50.0	48.9	ug/L	98	2.8	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.66	ug/L	97		SW846 8260B
	10.0	10.1	ug/L	101	4.0	SW846 8260B
1,1,1-Trichloroethane	10.0	9.86	ug/L	99		SW846 8260B
	10.0	10.2	ug/L	102	3.6	SW846 8260B
Carbon tetrachloride	10.0	9.42	ug/L	94		SW846 8260B
	10.0	9.78	ug/L	98	3.8	SW846 8260B
1,2-Dichloroethane	10.0	9.99	ug/L	100		SW846 8260B
	10.0	9.66	ug/L	97	3.4	SW846 8260B
Benzene	10.0	9.70	ug/L	97		SW846 8260B
	10.0	9.86	ug/L	99	1.6	SW846 8260B
Trichloroethene	10.0	9.24	ug/L	92		SW846 8260B
	10.0	9.45	ug/L	94	2.2	SW846 8260B
4-Methyl-2-pentanone	10.0	9.98	ug/L	100		SW846 8260B
	10.0	10.0	ug/L	100	0.27	SW846 8260B
1,1,2-Trichloroethane	10.0	9.51	ug/L	95		SW846 8260B
	10.0	9.60	ug/L	96	0.91	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL657 **Work Order #...:** JLDAH1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F6L130000-269 JLDAH1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Tetrachloroethene	**10.0**	**8.71**	**ug/L**	**87**		**SW846 8260B**
	10.0	**9.07**	**ug/L**	**91**	**4.1**	**SW846 8260B**
Tetrahydrofuran	**50.0**	**53.6**	**ug/L**	**107**		**SW846 8260B**
	50.0	**48.2**	**ug/L**	**96**	**10**	**SW846 8260B**
1,4-Dichlorobenzene	**10.0**	**8.88**	**ug/L**	**89**		**SW846 8260B**
	10.0	**9.26**	**ug/L**	**93**	**4.2**	**SW846 8260B**
1-Butanol	**100**	**57.0**	**ug/L**	**57**		**SW846 8260B**
	100	**74.8 p**	**ug/L**	**75**	**27**	**SW846 8260B**
Toluene	**10.0**	**9.41**	**ug/L**	**94**		**SW846 8260B**
	10.0	**9.90**	**ug/L**	**99**	**5.0**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	101	(85 - 117)
	106	(85 - 117)
Dibromofluoromethane	101	(82 - 121)
	103	(82 - 121)
1,2-Dichloroethane-d4	110	(74 - 126)
	102	(74 - 126)
4-Bromofluorobenzene	100	(76 - 117)
	99	(76 - 117)

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.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL657 Work Order #...: JLRV11AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F6L190000-427 JLRV11AD-LCSD
Prep Date.....: 12/18/06 Analysis Date..: 12/18/06
Prep Batch #...: 6353427
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	10.0	10.1	ug/L	101		SW846 8260B
	10.0	10.9	ug/L	109	8.1	SW846 8260B
Ethylbenzene	10.0	10.5	ug/L	105		SW846 8260B
	10.0	10.7	ug/L	107	2.1	SW846 8260B
1,4-Dioxane	200	225	ug/L	112		SW846 8260B
	200	206	ug/L	103	8.8	SW846 8260B
Vinyl chloride	10.0	9.47	ug/L	95		SW846 8260B
	10.0	9.97	ug/L	100	5.1	SW846 8260B
Acetone	10.0	10.7	ug/L	107		SW846 8260B
	10.0	10.8	ug/L	108	1.2	SW846 8260B
Methylene chloride	10.0	12.1	ug/L	121		SW846 8260B
	10.0	12.2	ug/L	122	0.57	SW846 8260B
Carbon disulfide	10.0	12.0	ug/L	120		SW846 8260B
	10.0	12.5	ug/L	125	3.5	SW846 8260B
1,1-Dichloroethane	10.0	11.3	ug/L	113		SW846 8260B
	10.0	11.3	ug/L	113	0.44	SW846 8260B
2-Butanone	10.0	12.2	ug/L	122		SW846 8260B
	10.0	10.3	ug/L	103	17	SW846 8260B
Chloroform	10.0	11.1	ug/L	111		SW846 8260B
	10.0	11.0	ug/L	110	0.90	SW846 8260B
cis-1,2-Dichloroethene	10.0	11.2	ug/L	112		SW846 8260B
	10.0	11.2	ug/L	112	0.44	SW846 8260B
Propionitrile	50.0	60.0	ug/L	120		SW846 8260B
	50.0	59.0	ug/L	118	1.5	SW846 8260B
trans-1,2-Dichloroethene	10.0	10.7	ug/L	107		SW846 8260B
	10.0	11.3	ug/L	113	5.2	SW846 8260B
1,1,1-Trichloroethane	10.0	10.7	ug/L	107		SW846 8260B
	10.0	11.1	ug/L	111	3.6	SW846 8260B
1,2-Dichloroethane	10.0	11.8	ug/L	118		SW846 8260B
	10.0	11.4	ug/L	114	3.8	SW846 8260B
Benzene	10.0	10.8	ug/L	108		SW846 8260B
	10.0	10.9	ug/L	109	0.82	SW846 8260B
Trichloroethene	10.0	10.4	ug/L	104		SW846 8260B
	10.0	10.6	ug/L	106	2.5	SW846 8260B
4-Methyl-2-pentanone	10.0	12.6	ug/L	126		SW846 8260B
	10.0	12.3	ug/L	123	2.7	SW846 8260B
1,1,2-Trichloroethane	10.0	11.1	ug/L	111		SW846 8260B
	10.0	11.1	ug/L	111	0.090	SW846 8260B
Tetrachloroethene	10.0	9.17	ug/L	92		SW846 8260B
	10.0	9.57	ug/L	96	4.2	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL657 **Work Order #...:** JLRV11AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F6L190000-427 JLRV11AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Tetrahydrofuran	**50.0**	**61.0**	**ug/L**	**122**		**SW846 8260B**
	50.0	**61.3**	**ug/L**	**123**	**0.60**	**SW846 8260B**
1,4-Dichlorobenzene	**10.0**	**9.84**	**ug/L**	**98**		**SW846 8260B**
	10.0	**9.82**	**ug/L**	**98**	**0.28**	**SW846 8260B**
1-Butanol	**100**	**116**	**ug/L**	**116**		**SW846 8260B**
	100	**106**	**ug/L**	**106**	**9.4**	**SW846 8260B**
Toluene	**10.0**	**10.2**	**ug/L**	**102**		**SW846 8260B**
	10.0	**10.4**	**ug/L**	**104**	**2.1**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	109	(85 - 117)
	108	(85 - 117)
Dibromofluoromethane	120	(82 - 121)
	118	(82 - 121)
1,2-Dichloroethane-d4	118	(74 - 126)
	113	(74 - 126)
4-Bromofluorobenzene	101	(76 - 117)
	102	(76 - 117)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL657 Work Order #...: JL6QA1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: F6L210000-154 JL6QA1AD-LCSD
Prep Date.....: 12/19/06 Analysis Date..: 12/19/06
Prep Batch #...: 6355154
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	10.0	10.4	ug/L	104		SW846 8260B
	10.0	10.8	ug/L	108	4.5	SW846 8260B
Ethylbenzene	10.0	10.8	ug/L	108		SW846 8260B
	10.0	11.0	ug/L	110	1.2	SW846 8260B
1,4-Dioxane	200	229	ug/L	114		SW846 8260B
	200	237	ug/L	119	3.8	SW846 8260B
Vinyl chloride	10.0	10.6	ug/L	106		SW846 8260B
	10.0	10.2	ug/L	102	4.1	SW846 8260B
Acetone	10.0	10.4	ug/L	104		SW846 8260B
	10.0	10.7	ug/L	107	2.8	SW846 8260B
Methylene chloride	10.0	12.0	ug/L	120		SW846 8260B
	10.0	11.9	ug/L	119	1.0	SW846 8260B
Carbon disulfide	10.0	11.2	ug/L	112		SW846 8260B
	10.0	11.4	ug/L	114	2.3	SW846 8260B
1,1-Dichloroethane	10.0	10.6	ug/L	106		SW846 8260B
	10.0	10.6	ug/L	106	0.18	SW846 8260B
2-Butanone	10.0	10.8	ug/L	108		SW846 8260B
	10.0	10.5	ug/L	105	3.3	SW846 8260B
Chloroform	10.0	11.1	ug/L	111		SW846 8260B
	10.0	11.0	ug/L	110	0.81	SW846 8260B
cis-1,2-Dichloroethene	10.0	10.9	ug/L	109		SW846 8260B
	10.0	11.1	ug/L	111	1.7	SW846 8260B
Propionitrile	50.0	58.2	ug/L	116		SW846 8260B
	50.0	55.0	ug/L	110	5.6	SW846 8260B
trans-1,2-Dichloroethene	10.0	10.6	ug/L	106		SW846 8260B
	10.0	10.5	ug/L	105	0.56	SW846 8260B
1,1,1-Trichloroethane	10.0	11.1	ug/L	111		SW846 8260B
	10.0	11.0	ug/L	110	0.36	SW846 8260B
Carbon tetrachloride	10.0	10.9	ug/L	109		SW846 8260B
	10.0	10.5	ug/L	105	3.3	SW846 8260B
1,2-Dichloroethane	10.0	10.8	ug/L	108		SW846 8260B
	10.0	10.4	ug/L	104	4.5	SW846 8260B
Benzene	10.0	10.6	ug/L	106		SW846 8260B
	10.0	10.8	ug/L	108	1.4	SW846 8260B
Trichloroethene	10.0	10.3	ug/L	103		SW846 8260B
	10.0	10.2	ug/L	102	0.97	SW846 8260B
4-Methyl-2-pentanone	10.0	11.3	ug/L	113		SW846 8260B
	10.0	10.9	ug/L	109	3.8	SW846 8260B
1,1,2-Trichloroethane	10.0	10.8	ug/L	108		SW846 8260B
	10.0	10.4	ug/L	104	4.3	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL657 **Work Order #...:** JL6QA1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: F6L210000-154 JL6QA1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Tetrachloroethene	**10.0**	**8.84**	**ug/L**	**88**		**SW846 8260B**
	10.0	**8.62**	**ug/L**	**86**	**2.5**	**SW846 8260B**
Tetrahydrofuran	**50.0**	**57.6**	**ug/L**	**115**		**SW846 8260B**
	50.0	**58.5**	**ug/L**	**117**	**1.6**	**SW846 8260B**
1,4-Dichlorobenzene	**10.0**	**9.67**	**ug/L**	**97**		**SW846 8260B**
	10.0	**9.79**	**ug/L**	**98**	**1.3**	**SW846 8260B**
1-Butanol	**100**	**118**	**ug/L**	**118**		**SW846 8260B**
	100	**144**	**ug/L**	**144**	**19**	**SW846 8260B**
Toluene	**10.0**	**10.3**	**ug/L**	**103**		**SW846 8260B**
	10.0	**10.5**	**ug/L**	**105**	**1.4**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	105	(85 - 117)
	104	(85 - 117)
Dibromofluoromethane	111	(82 - 121)
	111	(82 - 121)
1,2-Dichloroethane-d4	115	(74 - 126)
	110	(74 - 126)
4-Bromofluorobenzene	113	(76 - 117)
	109	(76 - 117)

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 #...: SL657 Work Order #...: JK0H41AM-MS Matrix.....: WATER
MS Lot-Sample #: F6L070106-002 JK0H41AN-MSD
Date Sampled...: 12/05/06 Date Received..: 12/06/06
Prep Date.....: 12/07/06 Analysis Date..: 12/07/06
Prep Batch #...: 6342145
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,4-Dioxane	ND	200	273	ug/L	137		SW846 8260B
	ND	200	235	ug/L	117	15	SW846 8260B
1,1-Dichloroethene	ND	10.0	11.5	ug/L	115		SW846 8260B
	ND	10.0	12.0	ug/L	120	4.4	SW846 8260B
Ethylbenzene	ND	10.0	9.72	ug/L	97		SW846 8260B
	ND	10.0	9.95	ug/L	100	2.4	SW846 8260B
Vinyl chloride	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.4	ug/L	104	2.5	SW846 8260B
Acetone	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.1	ug/L	101	0.78	SW846 8260B
Methylene chloride	ND	10.0	13.1	ug/L	131		SW846 8260B
	ND	10.0	12.4	ug/L	124	5.6	SW846 8260B
Carbon disulfide	ND	10.0	13.3	ug/L	133		SW846 8260B
	ND	10.0	13.2	ug/L	132	0.75	SW846 8260B
1,1-Dichloroethane	0.35	10.0	12.2	ug/L	118		SW846 8260B
	0.35	10.0	12.3	ug/L	120	1.2	SW846 8260B
2-Butanone	ND	10.0	11.3	ug/L	113		SW846 8260B
	ND	10.0	11.9	ug/L	119	5.2	SW846 8260B
Chloroform	ND	10.0	12.5	ug/L	125		SW846 8260B
	ND	10.0	12.6	ug/L	126	0.95	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	13.0	ug/L	130		SW846 8260B
	ND	10.0	12.8	ug/L	128	1.3	SW846 8260B
Propionitrile	ND	50.0	64.4	ug/L	129		SW846 8260B
	ND	50.0	62.0	ug/L	124	3.8	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	12.0	ug/L	120		SW846 8260B
	ND	10.0	12.2	ug/L	122	2.2	SW846 8260B
1,1,1-Trichloroethane	1.0	10.0	13.4	ug/L	124		SW846 8260B
	1.0	10.0	13.6	ug/L	126	1.8	SW846 8260B
Carbon tetrachloride	0.27	10.0	14.9	ug/L	146		SW846 8260B
	0.27	10.0	12.9	ug/L	126	14	SW846 8260B
1,2-Dichloroethane	ND	10.0	11.7	ug/L	117		SW846 8260B
	ND	10.0	11.6	ug/L	116	0.77	SW846 8260B
Benzene	ND	10.0	12.0	ug/L	120		SW846 8260B
	ND	10.0	12.0	ug/L	120	0.08	SW846 8260B
Trichloroethene	0.69	10.0	12.2	ug/L	116		SW846 8260B
	0.69	10.0	12.1	ug/L	114	1.3	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	10.0	ug/L	100	0.29	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.66	ug/L	97		SW846 8260B
	ND	10.0	9.54	ug/L	95	1.3	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL657 **Work Order #...:** JK0H41AM-MS **Matrix.....:** WATER
MS Lot-Sample #: F6L070106-002 JK0H41AN-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Tetrachloroethene	**1.2**	**10.0**	**9.32**	**ug/L**	**82**		**SW846 8260B**
	1.2	**10.0**	**9.02**	**ug/L**	**79**	**3.2**	**SW846 8260B**
Tetrahydrofuran	**ND**	**50.0**	**62.4**	**ug/L**	**125**		**SW846 8260B**
	ND	**50.0**	**57.7**	**ug/L**	**115**	**7.8**	**SW846 8260B**
1,4-Dichlorobenzene	**ND**	**10.0**	**8.72**	**ug/L**	**87**		**SW846 8260B**
	ND	**10.0**	**8.84**	**ug/L**	**88**	**1.4**	**SW846 8260B**
1-Butanol	**ND**	**100**	**124**	**ug/L**	**124**		**SW846 8260B**
	ND	**100**	**127**	**ug/L**	**127**	**3.0**	**SW846 8260B**
Toluene	**ND**	**10.0**	**9.38**	**ug/L**	**94**		**SW846 8260B**
	ND	**10.0**	**9.60**	**ug/L**	**96**	**2.3**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	90	(66 - 131)
	91	(66 - 131)
Dibromofluoromethane	114	(69 - 135)
	113	(69 - 135)
1,2-Dichloroethane-d4	112	(69 - 132)
	109	(69 - 132)
4-Bromofluorobenzene	103	(66 - 119)
	102	(66 - 119)

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 #...: SL657 Work Order #...: JK6FA1AK-MS Matrix.....: WATER
MS Lot-Sample #: F6L090133-002 JK6FA1AL-MSD
Date Sampled...: 12/08/06 Date Received..: 12/09/06
Prep Date.....: 12/12/06 Analysis Date..: 12/12/06
Prep Batch #...: 6347269
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10.0	11.8	ug/L	118		SW846 8260B
	ND	20.0	24.2	ug/L	121 p	69	SW846 8260B
Ethylbenzene	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	20.0	22.0	ug/L	110 p	70	SW846 8260B
1,4-Dioxane	ND	200	209	ug/L	105		SW846 8260B
	ND	400	462	ug/L	116 p	75	SW846 8260B
Vinyl chloride	ND	10.0	9.02	ug/L	90		SW846 8260B
	ND	20.0	18.7	ug/L	93 p	70	SW846 8260B
Acetone	ND	10.0	13.8	ug/L	138		SW846 8260B
	ND	20.0	31.6	ug/L	158	78	SW846 8260B
	Qualifiers: a,p,N						
Methylene chloride	ND	10.0	12.6	ug/L	126		SW846 8260B
	ND	20.0	25.2	ug/L	126 p	67	SW846 8260B
Carbon disulfide	ND	10.0	14.8	ug/L	148		SW846 8260B
	ND	20.0	30.2	ug/L	151	68	SW846 8260B
	Qualifiers: a,p,N						
1,1-Dichloroethane	ND	10.0	12.7	ug/L	127		SW846 8260B
	ND	20.0	26.1	ug/L	130 p	69	SW846 8260B
2-Butanone	ND	10.0	9.60	ug/L	96		SW846 8260B
	ND	20.0	23.5	ug/L	117 p	84	SW846 8260B
Chloroform	ND	10.0	12.9	ug/L	129		SW846 8260B
	ND	20.0	26.1	ug/L	131 p	68	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	12.8	ug/L	128		SW846 8260B
	ND	20.0	26.2	ug/L	131 p	68	SW846 8260B
Propionitrile	ND	50.0	60.3	ug/L	121		SW846 8260B
	ND	100	138	ug/L	138 p	78	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	12.5	ug/L	125		SW846 8260B
	ND	20.0	26.0	ug/L	130 p	70	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	12.4	ug/L	124		SW846 8260B
	ND	20.0	25.4	ug/L	127 p	69	SW846 8260B
Carbon tetrachloride	ND	10.0	12.1	ug/L	121		SW846 8260B
	ND	20.0	24.9	ug/L	125 p	69	SW846 8260B
1,2-Dichloroethane	ND	10.0	12.6	ug/L	126		SW846 8260B
	ND	20.0	25.4	ug/L	127 p	67	SW846 8260B
Benzene	ND	10.0	12.6	ug/L	126		SW846 8260B
	ND	20.0	25.4	ug/L	127 p	68	SW846 8260B
Trichloroethene	0.96	10.0	13.0	ug/L	121		SW846 8260B
	0.96	20.0	25.9	ug/L	125 p	66	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	10.9	ug/L	109		SW846 8260B
	ND	20.0	26.5	ug/L	132 p	83	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL657 **Work Order #...:** JK6FA1AK-MS **Matrix.....:** WATER
MS Lot-Sample #: F6L090133-002 JK6FA1AL-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1,2-Trichloroethane	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	20.0	22.4	ug/L	112 p	72	SW846 8260B
Tetrachloroethene	ND	10.0	9.55	ug/L	95		SW846 8260B
	ND	20.0	19.6	ug/L	98 p	69	SW846 8260B
Tetrahydrofuran	ND	50.0	66.6	ug/L	133		SW846 8260B
	ND	100	126	ug/L	126 p	62	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	9.67	ug/L	97		SW846 8260B
	ND	20.0	19.6	ug/L	98 p	68	SW846 8260B
1-Butanol	ND	100	74.6	ug/L	75		SW846 8260B
	ND	200	244	ug/L	122 p	106	SW846 8260B
Toluene	ND	10.0	10.7	ug/L	107		SW846 8260B
	ND	20.0	21.5	ug/L	108 p	67	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	96	(66 - 131)
	95	(66 - 131)
Dibromofluoromethane	109	(69 - 135)
	112	(69 - 135)
1,2-Dichloroethane-d4	106	(69 - 132)
	102	(69 - 132)
4-Bromofluorobenzene	93	(66 - 119)
	95	(66 - 119)

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.

a Spiked analyte recovery is outside stated control limits.

N Spike sample recovery is outside control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL657 Work Order #...: JLKHC1AD-MS Matrix.....: WATER
MS Lot-Sample #: F6L150210-001 JLKHC1AE-MSD
Date Sampled...: 12/14/06 Date Received..: 12/15/06
Prep Date.....: 12/18/06 Analysis Date..: 12/18/06
Prep Batch #...: 6353427
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	11.2	ug/L	112	8.0	SW846 8260B
Ethylbenzene	ND	10.0	10.9	ug/L	109		SW846 8260B
	ND	10.0	11.5	ug/L	115	5.1	SW846 8260B
1,4-Dioxane	ND	200	186	ug/L	93		SW846 8260B
	ND	200	184	ug/L	92	1.2	SW846 8260B
Vinyl chloride	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.9	ug/L	109	7.7	SW846 8260B
Acetone	ND	10.0	11.5	ug/L	115		SW846 8260B
	ND	10.0	13.7	ug/L	137	17	SW846 8260B
Methylene chloride	ND	10.0	10.9	ug/L	109		SW846 8260B
	ND	10.0	10.9	ug/L	109	0.09	SW846 8260B
Carbon disulfide	ND	10.0	14.0	ug/L	140		SW846 8260B
	ND	10.0	14.6	ug/L	146	4.3	SW846 8260B
1,1-Dichloroethane	ND	10.0	11.4	ug/L	114		SW846 8260B
	ND	10.0	11.4	ug/L	114	0.52	SW846 8260B
2-Butanone	ND	10.0	9.49	ug/L	95		SW846 8260B
	ND	10.0	6.47	ug/L	65 p	38	SW846 8260B
Chloroform	ND	10.0	11.4	ug/L	114		SW846 8260B
	ND	10.0	11.3	ug/L	113	0.61	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	11.3	ug/L	113		SW846 8260B
	ND	10.0	11.5	ug/L	115	1.9	SW846 8260B
Propionitrile	ND	50.0	56.1	ug/L	112		SW846 8260B
	ND	50.0	51.1	ug/L	102	9.4	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	10.9	ug/L	109		SW846 8260B
	ND	10.0	11.2	ug/L	112	2.5	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	11.2	ug/L	112		SW846 8260B
	ND	10.0	11.2	ug/L	112	0.08	SW846 8260B
1,2-Dichloroethane	ND	10.0	10.9	ug/L	109		SW846 8260B
	ND	10.0	11.2	ug/L	112	2.7	SW846 8260B
Benzene	ND	10.0	11.1	ug/L	111		SW846 8260B
	ND	10.0	11.2	ug/L	112	1.1	SW846 8260B
Trichloroethene	0.29	10.0	10.9	ug/L	106		SW846 8260B
	0.29	10.0	11.2	ug/L	109	2.5	SW846 8260B
4-Methyl-2-pentanone	ND	10.0	11.0	ug/L	110		SW846 8260B
	ND	10.0	12.3	ug/L	123	11	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	11.2	ug/L	112		SW846 8260B
	ND	10.0	11.4	ug/L	114	1.8	SW846 8260B
Tetrachloroethene	ND	10.0	9.80	ug/L	98		SW846 8260B
	ND	10.0	10.4	ug/L	104	5.5	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL657 **Work Order #...:** JLKHC1AD-MS **Matrix.....:** WATER
MS Lot-Sample #: F6L150210-001 JLKHC1AE-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Tetrahydrofuran	**ND**	**50.0**	**54.0**	**ug/L**	**108**		**SW846 8260B**
	ND	**50.0**	**49.2**	**ug/L**	**98**	**9.4**	**SW846 8260B**
1,4-Dichlorobenzene	**ND**	**10.0**	**9.90**	**ug/L**	**99**		**SW846 8260B**
	ND	**10.0**	**10.4**	**ug/L**	**104**	**4.6**	**SW846 8260B**
1-Butanol	**ND**	**100**	**64.4**	**ug/L**	**64**		**SW846 8260B**
	ND	**100**	**79.5**	**ug/L**	**80 p**	**21**	**SW846 8260B**
Toluene	**ND**	**10.0**	**10.9**	**ug/L**	**109**		**SW846 8260B**
	ND	**10.0**	**11.4**	**ug/L**	**114**	**4.0**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	105	(66 - 131)
	107	(66 - 131)
Dibromofluoromethane	104	(69 - 135)
	104	(69 - 135)
1,2-Dichloroethane-d4	101	(69 - 132)
	100	(69 - 132)
4-Bromofluorobenzene	95	(66 - 119)
	98	(66 - 119)

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.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL657 Work Order #...: JLKMW1AJ-MS Matrix.....: WATER
MS Lot-Sample #: F6L150232-001 JLKMW1AK-MSD
Date Sampled...: 12/14/06 Date Received..: 12/15/06
Prep Date.....: 12/19/06 Analysis Date..: 12/20/06
Prep Batch #...: 6355154
Dilution Factor: 20

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	200	157	ug/L	79		SW846 8260B
	ND	200	171	ug/L	86	8.4	SW846 8260B
Ethylbenzene	ND	200	166	ug/L	83		SW846 8260B
	ND	200	173	ug/L	86	3.9	SW846 8260B
1,4-Dioxane	ND	4000	3780	ug/L	95		SW846 8260B
	ND	4000	3790	ug/L	95	0.21	SW846 8260B
Vinyl chloride	ND	200	162	ug/L	81		SW846 8260B
	ND	200	169	ug/L	84	4.5	SW846 8260B
Acetone	ND	200	171	ug/L	85		SW846 8260B
	ND	200	182	ug/L	91	6.1	SW846 8260B
Methylene chloride	23	200	195	ug/L	86		SW846 8260B
	23	200	208	ug/L	93	6.4	SW846 8260B
Carbon disulfide	ND	200	173	ug/L	86		SW846 8260B
	ND	200	181	ug/L	90	4.5	SW846 8260B
1,1-Dichloroethane	ND	200	165	ug/L	82		SW846 8260B
	ND	200	172	ug/L	86	4.5	SW846 8260B
2-Butanone	ND	200	179	ug/L	89		SW846 8260B
	ND	200	191	ug/L	96	6.8	SW846 8260B
Chloroform	5.3	200	179	ug/L	87		SW846 8260B
	5.3	200	188	ug/L	91	4.8	SW846 8260B
cis-1,2-Dichloroethene	ND	200	172	ug/L	86		SW846 8260B
	ND	200	190	ug/L	95	9.7	SW846 8260B
Propionitrile	ND	1000	908	ug/L	91		SW846 8260B
	ND	1000	1030	ug/L	103	13	SW846 8260B
trans-1,2-Dichloroethene	ND	200	163	ug/L	81		SW846 8260B
	ND	200	175	ug/L	88	7.2	SW846 8260B
1,1,1-Trichloroethane	ND	200	167	ug/L	83		SW846 8260B
	ND	200	181	ug/L	91	8.5	SW846 8260B
Carbon tetrachloride	250	200	339	ug/L	45 a		SW846 8260B
	250	200	354	ug/L	52 a	4.2	SW846 8260B
1,2-Dichloroethane	ND	200	172	ug/L	86		SW846 8260B
	ND	200	183	ug/L	91	6.2	SW846 8260B
Benzene	ND	200	164	ug/L	82		SW846 8260B
	ND	200	176	ug/L	88	7.0	SW846 8260B
Trichloroethene	4.8	200	158	ug/L	77		SW846 8260B
	4.8	200	168	ug/L	82	6.1	SW846 8260B
4-Methyl-2-pentanone	ND	200	175	ug/L	88		SW846 8260B
	ND	200	185	ug/L	93	5.8	SW846 8260B
1,1,2-Trichloroethane	ND	200	176	ug/L	88		SW846 8260B
	ND	200	181	ug/L	91	3.0	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: SL657 **Work Order #...:** JLKMW1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: F6L150232-001 JLKMW1AK-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Tetrachloroethene	**ND**	**200**	**135**	**ug/L**	**67**		**SW846 8260B**
	ND	**200**	**135**	**ug/L**	**67**	**0.22**	**SW846 8260B**
Tetrahydrofuran	**ND**	**1000**	**911**	**ug/L**	**91**		**SW846 8260B**
	ND	**1000**	**1050**	**ug/L**	**105**	**14**	**SW846 8260B**
1,4-Dichlorobenzene	**ND**	**200**	**151**	**ug/L**	**76**		**SW846 8260B**
	ND	**200**	**164**	**ug/L**	**82**	**8.2**	**SW846 8260B**
1-Butanol	**ND**	**2000**	**1680**	**ug/L**	**84**		**SW846 8260B**
	ND	**2000**	**2450**	**ug/L**	**122 p**	**37**	**SW846 8260B**
Toluene	**ND**	**200**	**161**	**ug/L**	**81**		**SW846 8260B**
	ND	**200**	**167**	**ug/L**	**83**	**3.3**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Toluene-d8	92	(66 - 131)
	90	(66 - 131)
Dibromofluoromethane	99	(69 - 135)
	100	(69 - 135)
1,2-Dichloroethane-d4	98	(69 - 132)
	102	(69 - 132)
4-Bromofluorobenzene	93	(66 - 119)
	99	(66 - 119)

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.

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

METALS

Pacific Northwest National Laboratory

Client Sample ID: B1KCW5

DISSOLVED Metals

Lot-Sample #...: F6L090133-001 **Matrix.....:** WATER
Date Sampled...: 12/08/06 **Date Received..:** 12/09/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6347078						
Antimony	ND	60.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 44.8	12/13-12/18/06	JK6E71AA
Barium	**61.4 B**	**200** Dilution Factor: 1	**ug/L**	**SW846 6010B** MDL.....: 5.0	**12/13-12/18/06**	**JK6E71AC**
Beryllium	ND	5.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 0.51	12/13-12/18/06	JK6E71AD
Cadmium	ND	5.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 2.3	12/13-12/18/06	JK6E71AE
Calcium	**45800**	**5000** Dilution Factor: 1	**ug/L**	**SW846 6010B** MDL.....: 36.0	**12/13-12/18/06**	**JK6E71AF**
Chromium	ND	10.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 3.1	12/13-12/18/06	JK6E71AG
Cobalt	ND	50.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 5.0	12/13-12/18/06	JK6E71AH
Copper	ND	25.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 2.8	12/13-12/18/06	JK6E71AJ
Iron	**25.4 B,N**	**100** Dilution Factor: 1	**ug/L**	**SW846 6010B** MDL.....: 25.0	**12/13-12/14/06**	**JK6E71AK**
Magnesium	**9980**	**5000** Dilution Factor: 1	**ug/L**	**SW846 6010B** MDL.....: 108	**12/13-12/18/06**	**JK6E71AL**
Manganese	**7.9 B**	**15.0** Dilution Factor: 1	**ug/L**	**SW846 6010B** MDL.....: 2.5	**12/13-12/18/06**	**JK6E71AM**
Nickel	ND	40.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 7.5	12/13-12/18/06	JK6E71AN
Potassium	**3530 B**	**5000** Dilution Factor: 1	**ug/L**	**SW846 6010B** MDL.....: 1500	**12/13-12/14/06**	**JK6E71AP**
Silver	ND	10.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 5.2	12/13-12/18/06	JK6E71AQ

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Pacific Northwest National Laboratory

Client Sample ID: B1KCW5

DISSOLVED Metals

Lot-Sample #...: F6L090133-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	**22600**	**5000**	**ug/L**	**SW846 6010B**	**12/13-12/14/06**	**JK6E71AR**
		Dilution Factor: 1		MDL.....: 110		
Strontium	**195**	**50.0**	**ug/L**	**SW846 6010B**	**12/13-12/18/06**	**JK6E71AT**
		Dilution Factor: 1		MDL.....: 0.56		
Vanadium	ND	50.0	ug/L	SW846 6010B	12/13-12/18/06	JK6E71AU
		Dilution Factor: 1		MDL.....: 5.9		
Zinc	**12.2 B**	**20.0**	**ug/L**	**SW846 6010B**	**12/13-12/18/06**	**JK6E71AV**
		Dilution Factor: 1		MDL.....: 9.6		

NOTE(S):

B Estimated result. Result is less than RL.

N Spiked analyte recovery is outside stated control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1J996

DISSOLVED Metals

Lot-Sample #...: F6L140292-001 Matrix.....: WATER
Date Sampled...: 12/13/06 Date Received..: 12/14/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6362215						
Antimony	ND	60.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 44.8	12/28-01/10/07	JLG7N1AA
Barium	**21.8 B**	**200** Dilution Factor: 1	**ug/L**	**SW846 6010B** MDL.....: 5.0	**12/28-01/10/07**	**JLG7N1AC**
Beryllium	ND	5.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 0.51	12/28-01/10/07	JLG7N1AD
Cadmium	ND	5.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 2.3	12/28-01/10/07	JLG7N1AE
Calcium	**8740**	**5000** Dilution Factor: 1	**ug/L**	**SW846 6010B** MDL.....: 36.0	**12/28-01/10/07**	**JLG7N1AF**
Chromium	ND	10.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 3.1	12/28-01/10/07	JLG7N1AG
Cobalt	ND	50.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 5.0	12/28-01/10/07	JLG7N1AH
Copper	**24.0 B**	**25.0** Dilution Factor: 1	**ug/L**	**SW846 6010B** MDL.....: 2.8	**12/28-01/10/07**	**JLG7N1AJ**
Iron	**88.5 B**	**100** Dilution Factor: 1	**ug/L**	**SW846 6010B** MDL.....: 25.0	**12/28-01/09/07**	**JLG7N1AK**
Magnesium	**2710 B**	**5000** Dilution Factor: 1	**ug/L**	**SW846 6010B** MDL.....: 108	**12/28-01/10/07**	**JLG7N1AL**
Manganese	**36.3**	**15.0** Dilution Factor: 1	**ug/L**	**SW846 6010B** MDL.....: 2.5	**12/28-01/10/07**	**JLG7N1AM**
Nickel	ND	40.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 7.5	12/28-01/10/07	JLG7N1AN
Potassium	**6170**	**5000** Dilution Factor: 1	**ug/L**	**SW846 6010B** MDL.....: 1500	**12/28-01/09/07**	**JLG7N1AP**
Silver	ND	10.0 Dilution Factor: 1	ug/L	SW846 6010B MDL.....: 5.2	12/28-01/10/07	JLG7N1AQ

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Pacific Northwest National Laboratory

Client Sample ID: B1J996

DISSOLVED Metals

Lot-Sample #...: F6L140292-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	**62400**	**5000**	**ug/L**	**SW846 6010B**	**12/28-01/09/07**	**JLG7N1AR**
		Dilution Factor: 1		MDL.....: 110		
Strontium	**64.3**	**50.0**	**ug/L**	**SW846 6010B**	**12/28-01/10/07**	**JLG7N1AT**
		Dilution Factor: 1		MDL.....: 0.56		
Vanadium	ND	50.0	ug/L	SW846 6010B	12/28-01/10/07	JLG7N1AU
		Dilution Factor: 1		MDL.....: 5.9		
Zinc	**11.8 B**	**20.0**	**ug/L**	**SW846 6010B**	**12/28-01/10/07**	**JLG7N1AV**
		Dilution Factor: 1		MDL.....: 9.6		

NOTE(S):

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: SL657 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F6L130000-078 **Prep Batch #...:** 6347078						
Antimony	ND	60.0	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AA
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AC
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AD
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AE
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AF
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AG
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AH
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AJ
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	12/13-12/14/06	JLCRF1AK
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AL
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AM
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AN
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	SW846 6010B	12/13-12/14/06	JLCRF1AP
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AQ
		Dilution Factor: 1				
Sodium	ND	5000	ug/L	SW846 6010B	12/13-12/14/06	JLCRF1AR
		Dilution Factor: 1				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: SL657 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Strontium	ND	50.0	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AT
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AU
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	12/13-12/18/06	JLCRF1AV
		Dilution Factor: 1				

MB Lot-Sample #: F6L280000-215 **Prep Batch #...:** 6362215

Antimony	ND	60.0	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AA
		Dilution Factor: 1				
Barium	ND	200	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AC
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AD
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AE
		Dilution Factor: 1				
Calcium	ND	5000	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AF
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AG
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AH
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AJ
		Dilution Factor: 1				
Iron	ND	100	ug/L	SW846 6010B	12/28-01/09/07	JL7NH1AK
		Dilution Factor: 1				
Magnesium	ND	5000	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AL
		Dilution Factor: 1				
Manganese	ND	15.0	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AM
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AN
		Dilution Factor: 1				

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: SL657 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Potassium	ND	5000	ug/L	SW846 6010B	12/28-01/09/07	JL7NH1AP
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AQ
		Dilution Factor: 1				
Sodium	ND	5000	ug/L	SW846 6010B	12/28-01/09/07	JL7NH1AR
		Dilution Factor: 1				
Strontium	ND	50.0	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AT
		Dilution Factor: 1				
Vanadium	ND	50.0	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AU
		Dilution Factor: 1				
Zinc	ND	20.0	ug/L	SW846 6010B	12/28-01/10/07	JL7NH1AV
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL657 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F6L130000-078 **Prep Batch #...:** 6347078							
Antimony	500	501	ug/L	100	SW846 6010B	12/13-12/18/06	JLCRF1CH
			Dilution Factor: 1				
Barium	500	509	ug/L	102	SW846 6010B	12/13-12/18/06	JLCRF1CJ
			Dilution Factor: 1				
Beryllium	500	544	ug/L	109	SW846 6010B	12/13-12/18/06	JLCRF1CK
			Dilution Factor: 1				
Cadmium	500	518	ug/L	104	SW846 6010B	12/13-12/18/06	JLCRF1CL
			Dilution Factor: 1				
Calcium	10000	10500	ug/L	105	SW846 6010B	12/13-12/18/06	JLCRF1CM
			Dilution Factor: 1				
Chromium	500	513	ug/L	103	SW846 6010B	12/13-12/18/06	JLCRF1CN
			Dilution Factor: 1				
Cobalt	500	507	ug/L	101	SW846 6010B	12/13-12/18/06	JLCRF1CP
			Dilution Factor: 1				
Copper	500	503	ug/L	101	SW846 6010B	12/13-12/18/06	JLCRF1CQ
			Dilution Factor: 1				
Iron	500	519	ug/L	104	SW846 6010B	12/13-12/14/06	JLCRF1CR
			Dilution Factor: 1				
Magnesium	10000	10600	ug/L	106	SW846 6010B	12/13-12/18/06	JLCRF1CT
			Dilution Factor: 1				
Manganese	500	514	ug/L	103	SW846 6010B	12/13-12/18/06	JLCRF1CU
			Dilution Factor: 1				
Nickel	500	507	ug/L	101	SW846 6010B	12/13-12/18/06	JLCRF1CV
			Dilution Factor: 1				
Potassium	10000	10300	ug/L	103	SW846 6010B	12/13-12/14/06	JLCRF1CW
			Dilution Factor: 1				
Silver	125	127	ug/L	101	SW846 6010B	12/13-12/18/06	JLCRF1CX
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL657 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	10000	10300	ug/L	103	SW846 6010B	12/13-12/14/06	JLCRF1C0
			Dilution Factor: 1				
Strontium	500	517	ug/L	103	SW846 6010B	12/13-12/18/06	JLCRF1C1
			Dilution Factor: 1				
Vanadium	500	516	ug/L	103	SW846 6010B	12/13-12/18/06	JLCRF1C2
			Dilution Factor: 1				
Zinc	500	490	ug/L	98	SW846 6010B	12/13-12/18/06	JLCRF1C3
			Dilution Factor: 1				
LCS Lot-Sample#: F6L280000-215 **Prep Batch #...:** 6362215							
Antimony	500	514	ug/L	103	SW846 6010B	12/28-01/10/07	JL7NH1AW
			Dilution Factor: 1				
Barium	500	507	ug/L	101	SW846 6010B	12/28-01/10/07	JL7NH1AX
			Dilution Factor: 1				
Beryllium	500	545	ug/L	109	SW846 6010B	12/28-01/10/07	JL7NH1A0
			Dilution Factor: 1				
Cadmium	500	518	ug/L	104	SW846 6010B	12/28-01/10/07	JL7NH1A1
			Dilution Factor: 1				
Calcium	10000	10300	ug/L	103	SW846 6010B	12/28-01/10/07	JL7NH1A2
			Dilution Factor: 1				
Chromium	500	516	ug/L	103	SW846 6010B	12/28-01/10/07	JL7NH1A3
			Dilution Factor: 1				
Cobalt	500	510	ug/L	102	SW846 6010B	12/28-01/10/07	JL7NH1A4
			Dilution Factor: 1				
Copper	500	502	ug/L	100	SW846 6010B	12/28-01/10/07	JL7NH1A5
			Dilution Factor: 1				
Iron	500	500	ug/L	100	SW846 6010B	12/28-01/09/07	JL7NH1A6
			Dilution Factor: 1				
Magnesium	10000	10400	ug/L	104	SW846 6010B	12/28-01/10/07	JL7NH1A7
			Dilution Factor: 1				

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL657 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	500	518	ug/L	104	SW846 6010B	12/28-01/10/07	JL7NH1A8
			Dilution Factor: 1				
Nickel	500	510	ug/L	102	SW846 6010B	12/28-01/10/07	JL7NH1A9
			Dilution Factor: 1				
Potassium	10000	9280	ug/L	93	SW846 6010B	12/28-01/09/07	JL7NH1CA
			Dilution Factor: 1				
Silver	125	127	ug/L	102	SW846 6010B	12/28-01/10/07	JL7NH1CC
			Dilution Factor: 1				
Sodium	10000	10200	ug/L	102	SW846 6010B	12/28-01/09/07	JL7NH1CD
			Dilution Factor: 1				
Strontium	500	524	ug/L	105	SW846 6010B	12/28-01/10/07	JL7NH1CE
			Dilution Factor: 1				
Vanadium	500	511	ug/L	102	SW846 6010B	12/28-01/10/07	JL7NH1CF
			Dilution Factor: 1				
Zinc	500	494	ug/L	99	SW846 6010B	12/28-01/10/07	JL7NH1CG
			Dilution Factor: 1				

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL657 **Matrix.....:** WATER
Date Sampled...: 12/08/06 **Date Received..:** 12/09/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F6L090133-001 **Prep Batch #...:** 6347078									
Antimony									
	ND	250	242	ug/L	97		SW846 6010B	12/13-12/18/06	JK6E71AW
	ND	250	245	ug/L	98	1.1	SW846 6010B	12/13-12/18/06	JK6E71AX
			Dilution Factor: 1						
Barium									
	61.4	1000	1000	ug/L	94		SW846 6010B	12/13-12/18/06	JK6E71A0
	61.4	1000	1030	ug/L	97	2.7	SW846 6010B	12/13-12/18/06	JK6E71A1
			Dilution Factor: 1						
Beryllium									
	ND	25.0	25.3	ug/L	101		SW846 6010B	12/13-12/18/06	JK6E71A2
	ND	25.0	26.1	ug/L	104	3.2	SW846 6010B	12/13-12/18/06	JK6E71A3
			Dilution Factor: 1						
Cadmium									
	ND	25.0	23.2	ug/L	93		SW846 6010B	12/13-12/18/06	JK6E71A4
	ND	25.0	24.1	ug/L	96	3.8	SW846 6010B	12/13-12/18/06	JK6E71A5
			Dilution Factor: 1						
Calcium									
	45800	25000	68400	ug/L	90		SW846 6010B	12/13-12/18/06	JK6E71A6
	45800	25000	69500	ug/L	95	1.7	SW846 6010B	12/13-12/18/06	JK6E71A7
			Dilution Factor: 1						
Chromium									
	ND	100	95.6	ug/L	96		SW846 6010B	12/13-12/18/06	JK6E71A8
	ND	100	98.6	ug/L	99	3.1	SW846 6010B	12/13-12/18/06	JK6E71A9
			Dilution Factor: 1						
Cobalt									
	ND	250	232	ug/L	93		SW846 6010B	12/13-12/18/06	JK6E71CA
	ND	250	240	ug/L	96	3.2	SW846 6010B	12/13-12/18/06	JK6E71CC
			Dilution Factor: 1						
Copper									
	ND	125	117	ug/L	93		SW846 6010B	12/13-12/18/06	JK6E71CD
	ND	125	120	ug/L	96	3.0	SW846 6010B	12/13-12/18/06	JK6E71CE
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL657 **Matrix.....:** WATER
Date Sampled...: 12/08/06 **Date Received..:** 12/09/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron									
	25.4	500	516	ug/L	98		SW846 6010B	12/13-12/14/06	JK6E71CF
	25.4	500	548	ug/L	105	6.1	SW846 6010B	12/13-12/14/06	JK6E71CG
			Dilution Factor: 1						
Magnesium									
	9980	25000	33600	ug/L	95		SW846 6010B	12/13-12/18/06	JK6E71CH
	9980	25000	34600	ug/L	98	2.8	SW846 6010B	12/13-12/18/06	JK6E71CJ
			Dilution Factor: 1						
Manganese									
	7.9	250	242	ug/L	94		SW846 6010B	12/13-12/18/06	JK6E71CK
	7.9	250	251	ug/L	97	3.4	SW846 6010B	12/13-12/18/06	JK6E71CL
			Dilution Factor: 1						
Nickel									
	ND	250	230	ug/L	92		SW846 6010B	12/13-12/18/06	JK6E71CM
	ND	250	238	ug/L	95	3.4	SW846 6010B	12/13-12/18/06	JK6E71CN
			Dilution Factor: 1						
Potassium									
	3530	25000	26500	ug/L	92		SW846 6010B	12/13-12/14/06	JK6E71CP
	3530	25000	29700	ug/L	105	12	SW846 6010B	12/13-12/14/06	JK6E71CQ
			Dilution Factor: 1						
Silver									
	ND	25.0	23.0	ug/L	92		SW846 6010B	12/13-12/18/06	JK6E71CR
	ND	25.0	23.6	ug/L	94	2.4	SW846 6010B	12/13-12/18/06	JK6E71CT
			Dilution Factor: 1						
Sodium									
	22600	25000	46200	ug/L	94		SW846 6010B	12/13-12/14/06	JK6E71CU
	22600	25000	48000	ug/L	101	3.7	SW846 6010B	12/13-12/14/06	JK6E71CV
			Dilution Factor: 1						
Strontium									
	195	500	669	ug/L	95		SW846 6010B	12/13-12/18/06	JK6E71CW
	195	500	691	ug/L	99	3.2	SW846 6010B	12/13-12/18/06	JK6E71CX
			Dilution Factor: 1						
Vanadium									
	ND	250	240	ug/L	96		SW846 6010B	12/13-12/18/06	JK6E71C0
	ND	250	248	ug/L	99	3.4	SW846 6010B	12/13-12/18/06	JK6E71C1
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL657 **Matrix.....:** WATER
Date Sampled...: 12/08/06 **Date Received..:** 12/09/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	12.2	250	234	ug/L	89		SW846 6010B	12/13-12/18/06	JK6E71C2
	12.2	250	237	ug/L	90	1.1	SW846 6010B	12/13-12/18/06	JK6E71C3

Dilution Factor: 1

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL657 **Matrix.....:** WATER
Date Sampled...: 12/14/06 **Date Received..:** 12/15/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F6L150213-005 **Prep Batch #...:** 6362215									
Antimony									
	ND	250	250	ug/L	100		SW846 6010B	12/28-01/10/07	JLKH61AW
	ND	250	252	ug/L	101	0.71	SW846 6010B	12/28-01/10/07	JLKH61AX
			Dilution Factor: 1						
Barium									
	44.4	1000	1070	ug/L	103		SW846 6010B	12/28-01/10/07	JLKH61A0
	44.4	1000	1070	ug/L	103	0.39	SW846 6010B	12/28-01/10/07	JLKH61A1
			Dilution Factor: 1						
Beryllium									
	ND	25.0	27.5	ug/L	110		SW846 6010B	12/28-01/10/07	JLKH61A2
	ND	25.0	27.5	ug/L	110	0.03	SW846 6010B	12/28-01/10/07	JLKH61A3
			Dilution Factor: 1						
Cadmium									
	ND	25.0	25.2	ug/L	101		SW846 6010B	12/28-01/10/07	JLKH61A4
	ND	25.0	25.4	ug/L	101	0.67	SW846 6010B	12/28-01/10/07	JLKH61A5
			Dilution Factor: 1						
Calcium									
	43800	25000	68200	ug/L	98		SW846 6010B	12/28-01/10/07	JLKH61A6
	43800	25000	67900	ug/L	96	0.42	SW846 6010B	12/28-01/10/07	JLKH61A7
			Dilution Factor: 1						
Chromium									
	ND	100	105	ug/L	105		SW846 6010B	12/28-01/10/07	JLKH61A8
	ND	100	105	ug/L	105	0.38	SW846 6010B	12/28-01/10/07	JLKH61A9
			Dilution Factor: 1						
Cobalt									
	ND	250	249	ug/L	100		SW846 6010B	12/28-01/10/07	JLKH61CA
	ND	250	250	ug/L	100	0.27	SW846 6010B	12/28-01/10/07	JLKH61CC
			Dilution Factor: 1						
Copper									
	ND	125	129	ug/L	103		SW846 6010B	12/28-01/10/07	JLKH61CD
	ND	125	130	ug/L	104	0.73	SW846 6010B	12/28-01/10/07	JLKH61CE
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL657 **Matrix.....:** WATER
Date Sampled...: 12/14/06 **Date Received..:** 12/15/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron									
	28.8	500	523	ug/L	99		SW846 6010B	12/28-01/09/07	JLKH61CF
	28.8	500	499	ug/L	94	4.9	SW846 6010B	12/28-01/09/07	JLKH61CG
			Dilution Factor: 1						
Magnesium									
	12100	25000	37400	ug/L	101		SW846 6010B	12/28-01/10/07	JLKH61CH
	12100	25000	37200	ug/L	100	0.39	SW846 6010B	12/28-01/10/07	JLKH61CJ
			Dilution Factor: 1						
Manganese									
	ND	250	257	ug/L	103		SW846 6010B	12/28-01/10/07	JLKH61CK
	ND	250	257	ug/L	103	0.03	SW846 6010B	12/28-01/10/07	JLKH61CL
			Dilution Factor: 1						
Nickel									
	ND	250	253	ug/L	101		SW846 6010B	12/28-01/10/07	JLKH61CM
	ND	250	254	ug/L	101	0.39	SW846 6010B	12/28-01/10/07	JLKH61CN
			Dilution Factor: 1						
Potassium									
	5730	25000	31900	ug/L	105		SW846 6010B	12/28-01/09/07	JLKH61CP
	5730	25000	28600	ug/L	91	11	SW846 6010B	12/28-01/09/07	JLKH61CQ
			Dilution Factor: 1						
Silver									
	ND	25.0	25.0	ug/L	100		SW846 6010B	12/28-01/10/07	JLKH61CR
	ND	25.0	25.0	ug/L	100	0.04	SW846 6010B	12/28-01/10/07	JLKH61CT
			Dilution Factor: 1						
Sodium									
	16500	25000	41600	ug/L	100		SW846 6010B	12/28-01/09/07	JLKH61CU
	16500	25000	39400	ug/L	92	5.4	SW846 6010B	12/28-01/09/07	JLKH61CV
			Dilution Factor: 1						
Strontium									
	223	500	741	ug/L	104		SW846 6010B	12/28-01/10/07	JLKH61CW
	223	500	743	ug/L	104	0.17	SW846 6010B	12/28-01/10/07	JLKH61CX
			Dilution Factor: 1						
Vanadium									
	19.2	250	275	ug/L	102		SW846 6010B	12/28-01/10/07	JLKH61C0
	19.2	250	277	ug/L	103	0.86	SW846 6010B	12/28-01/10/07	JLKH61C1
			Dilution Factor: 1						

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MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: SL657 **Matrix.....:** WATER
Date Sampled...: 12/14/06 **Date Received..:** 12/15/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	11.1	250	251	ug/L	96		SW846 6010B	12/28-01/10/07	JLKH61C2
	11.1	250	257	ug/L	99	2.7	SW846 6010B	12/28-01/10/07	JLKH61C3

Dilution Factor: 1

NOTE(S):

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

WET CHEMISTRY

Pacific Northwest National Laboratory

Client Sample ID: B1JLB8

General Chemistry

Lot-Sample #...: F6L050184-001 Work Order #...: JKR7H Matrix.....: WATER
Date Sampled...: 12/04/06 Date Received..: 12/05/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	2.7	0.20	mg/L	MCAWW 300.0A	12/05/06	6340468
		Dilution Factor: 1		MDL.....: 0.023		
Fluoride	1.5 N	0.10	mg/L	MCAWW 300.0A	12/05/06	6340469
		Dilution Factor: 1		MDL.....: 0.020		
Nitrite	0.27 N	0.020	mg/L	MCAWW 300.0A	12/05/06	6340471
		Dilution Factor: 1		MDL.....: 0.0040		
Nitrate	0.094	0.020	mg/L	MCAWW 300.0A	12/05/06	6340472
		Dilution Factor: 1		MDL.....: 0.0040		
Sulfate	9.2 N	0.50	mg/L	MCAWW 300.0A	12/05/06	6340470
		Dilution Factor: 1		MDL.....: 0.050		

NOTE(S):

RL Reporting Limit

N Spiked analyte recovery is outside stated control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1KCW6

General Chemistry

Lot-Sample #...: F6L090133-002 Work Order #...: JK6FA Matrix.....: WATER
Date Sampled...: 12/08/06 Date Received..: 12/09/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	19.7 C,D	2.0	mg/L	MCAWW 300.0A	12/09/06	6353290
		Dilution Factor: 10		MDL.....: 0.23		
Fluoride	0.39	0.10	mg/L	MCAWW 300.0A	12/09/06	6353291
		Dilution Factor: 1		MDL.....: 0.020		
Nitrite	0.26	0.020	mg/L	MCAWW 300.0A	12/09/06	6353293
		Dilution Factor: 1		MDL.....: 0.0040		
Nitrate	4.9 D	0.20	mg/L	MCAWW 300.0A	12/09/06	6353294
		Dilution Factor: 10		MDL.....: 0.040		
Sulfate	44.6 D	5.0	mg/L	MCAWW 300.0A	12/09/06	6353292
		Dilution Factor: 10		MDL.....: 0.50		
Total Alkalinity	112	5.0	mg/L	MCAWW 310.1	12/15/06	6349244
		Dilution Factor: 1		MDL.....: 2.5		

NOTE(S):

RL Reporting Limit

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

D Result was obtained from the analysis of a dilution.

Pacific Northwest National Laboratory

Client Sample ID: B1J997

General Chemistry

Lot-Sample #...: F6L140292-002 Work Order #...: JLG7R Matrix.....: WATER
Date Sampled...: 12/13/06 Date Received..: 12/14/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	9.1 C,DN	2.0	mg/L	MCAWW 300.0A	12/14/06	6353551
		Dilution Factor: 10		MDL.....: 0.23		
Fluoride	2.7 N	0.10	mg/L	MCAWW 300.0A	12/14/06	6353552
		Dilution Factor: 1		MDL.....: 0.020		
Nitrite	0.32 N	0.020	mg/L	MCAWW 300.0A	12/14/06	6353554
		Dilution Factor: 1		MDL.....: 0.0040		
Nitrate	ND N	0.020	mg/L	MCAWW 300.0A	12/14/06	6353555
		Dilution Factor: 1		MDL.....: 0.0040		
Sulfate	0.66	0.50	mg/L	MCAWW 300.0A	12/14/06	6353553
		Dilution Factor: 1		MDL.....: 0.050		
Total Alkalinity	160	5.0	mg/L	MCAWW 310.1	12/15/06	6349244
		Dilution Factor: 1		MDL.....: 2.5		

NOTE(S):

RL Reporting Limit

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

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

Pacific Northwest National Laboratory

Client Sample ID: B1K569

General Chemistry

Lot-Sample #...: F6L150232-001 Work Order #...: JLKMW Matrix.....: WATER
Date Sampled...: 12/14/06 Date Received..: 12/15/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride	17.1 C,D	2.0	mg/L	MCAWW 300.0A	12/15/06	6353382
	Dilution Factor: 10			MDL.....: 0.23		
Fluoride	0.41	0.10	mg/L	MCAWW 300.0A	12/15/06	6353384
	Dilution Factor: 1			MDL.....: 0.020		
Nitrite	0.077 N	0.020	mg/L	MCAWW 300.0A	12/15/06	6353386
	Dilution Factor: 1			MDL.....: 0.0040		
Nitrate	17.2 D	1.0	mg/L	MCAWW 300.0A	12/15/06	6353387
	Dilution Factor: 50			MDL.....: 0.20		
Sulfate	51.7 DN	5.0	mg/L	MCAWW 300.0A	12/15/06	6353385
	Dilution Factor: 10			MDL.....: 0.50		

NOTE(S):

RL Reporting Limit

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

D Result was obtained from the analysis of a dilution.

N Spiked analyte recovery is outside stated control limits.

DN Result obtained from dilution; spike sample recovery outside control limits.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: SL657 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride		Work Order #: JLK4Q1AA		MB Lot-Sample #:	F6L060000-468	
	ND	0.20	mg/L	MCAWW 300.0A	12/05/06	6340468
		Dilution Factor: 1				
Chloride		Work Order #: JLRC31AA		MB Lot-Sample #:	F6L190000-290	
	0.072 B	**0.20**	**mg/L**	**MCAWW 300.0A**	**12/09/06**	**6353290**
		Dilution Factor: 1				
Chloride		Work Order #: JLTGM1AA		MB Lot-Sample #:	F6L190000-551	
	0.045 B	**0.20**	**mg/L**	**MCAWW 300.0A**	**12/14/06**	**6353551**
		Dilution Factor: 1				
Chloride		Work Order #: JLRW71AA		MB Lot-Sample #:	F6L190000-382	
	0.031 B	**0.20**	**mg/L**	**MCAWW 300.0A**	**12/15/06**	**6353382**
		Dilution Factor: 1				
Fluoride		Work Order #: JLK401AA		MB Lot-Sample #:	F6L060000-469	
	ND	0.10	mg/L	MCAWW 300.0A	12/05/06	6340469
		Dilution Factor: 1				
Fluoride		Work Order #: JLRGT1AA		MB Lot-Sample #:	F6L190000-291	
	ND	0.10	mg/L	MCAWW 300.0A	12/09/06	6353291
		Dilution Factor: 1				
Fluoride		Work Order #: JLTG01AA		MB Lot-Sample #:	F6L190000-552	
	ND	0.10	mg/L	MCAWW 300.0A	12/14/06	6353552
		Dilution Factor: 1				
Fluoride		Work Order #: JLRW91AA		MB Lot-Sample #:	F6L190000-384	
	ND	0.10	mg/L	MCAWW 300.0A	12/15/06	6353384
		Dilution Factor: 1				
Nitrate		Work Order #: JLRW51AA		MB Lot-Sample #:	F6L190000-387	
	ND	0.020	mg/L	MCAWW 300.0A	12/15/06	6353387
		Dilution Factor: 1				
Nitrite		Work Order #: JLK451AA		MB Lot-Sample #:	F6L060000-471	
	ND	0.020	mg/L	MCAWW 300.0A	12/05/06	6340471
		Dilution Factor: 1				
Nitrite		Work Order #: JLRHA1AA		MB Lot-Sample #:	F6L190000-293	
	ND	0.020	mg/L	MCAWW 300.0A	12/09/06	6353293
		Dilution Factor: 1				

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: SL657 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrite		Work Order #: JLTG61AA		MB Lot-Sample #:	F6L190000-554	
	ND	0.020	mg/L	MCAWW 300.0A	12/14/06	6353554
		Dilution Factor: 1				
Nitrite		Work Order #: JL60F1AA		MB Lot-Sample #:	F6L190000-386	
	ND	0.020	mg/L	MCAWW 300.0A	12/15/06	6353386
		Dilution Factor: 1				
Nitrate		Work Order #: JLK5D1AA		MB Lot-Sample #:	F6L060000-472	
	ND	0.020	mg/L	MCAWW 300.0A	12/05/06	6340472
		Dilution Factor: 1				
Nitrate		Work Order #: JLRHD1AA		MB Lot-Sample #:	F6L190000-294	
	ND	0.020	mg/L	MCAWW 300.0A	12/09/06	6353294
		Dilution Factor: 1				
Nitrate		Work Order #: JLTG91AA		MB Lot-Sample #:	F6L190000-555	
	ND	0.020	mg/L	MCAWW 300.0A	12/14/06	6353555
		Dilution Factor: 1				
Sulfate		Work Order #: JLK421AA		MB Lot-Sample #:	F6L060000-470	
	ND	0.50	mg/L	MCAWW 300.0A	12/05/06	6340470
		Dilution Factor: 1				
Sulfate		Work Order #: JLRG41AA		MB Lot-Sample #:	F6L190000-292	
	ND	0.50	mg/L	MCAWW 300.0A	12/09/06	6353292
		Dilution Factor: 1				
Sulfate		Work Order #: JLTG41AA		MB Lot-Sample #:	F6L190000-553	
	ND	0.50	mg/L	MCAWW 300.0A	12/14/06	6353553
		Dilution Factor: 1				
Sulfate		Work Order #: JLRWW1AA		MB Lot-Sample #:	F6L190000-385	
	ND	0.50	mg/L	MCAWW 300.0A	12/15/06	6353385
		Dilution Factor: 1				
Total Alkalinity		Work Order #: JLJ0H1AA		MB Lot-Sample #:	F6L150000-244	
	ND	5.0	mg/L	MCAWW 310.1	12/15/06	6349244
		Dilution Factor: 1				

NOTE(S):

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

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: SL657 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			WO#:JLK4Q1AC-LCS/JLK4Q1AD-LCSD			LCS Lot-Sample#: F6L060000-468		
	2.00	1.88	mg/L	94		MCAWW 300.0A	12/05/06	6340468
	2.00	1.81	mg/L	91	3.4	MCAWW 300.0A	12/05/06	6340468
			Dilution Factor: 1					
Chloride			WO#:JLRC31AC-LCS/JLRC31AD-LCSD			LCS Lot-Sample#: F6L190000-290		
	2.00	2.02	mg/L	101		MCAWW 300.0A	12/09/06	6353290
	2.00	2.05	mg/L	102	1.7	MCAWW 300.0A	12/09/06	6353290
			Dilution Factor: 1					
Chloride			WO#:JLRW71AC-LCS/JLRW71AD-LCSD			LCS Lot-Sample#: F6L190000-382		
	2.00	1.98	mg/L	99		MCAWW 300.0A	12/15/06	6353382
	2.00	1.97	mg/L	99	0.43	MCAWW 300.0A	12/15/06	6353382
			Dilution Factor: 1					
Chloride			WO#:JLTGM1AC-LCS/JLTGM1AD-LCSD			LCS Lot-Sample#: F6L190000-551		
	2.00	1.95	mg/L	98		MCAWW 300.0A	12/14/06	6353551
	2.00	1.94	mg/L	97	0.65	MCAWW 300.0A	12/14/06	6353551
			Dilution Factor: 1					
Fluoride			WO#:JLK401AC-LCS/JLK401AD-LCSD			LCS Lot-Sample#: F6L060000-469		
	1.00	0.895	mg/L	90		MCAWW 300.0A	12/05/06	6340469
	1.00	0.929	mg/L	93	3.6	MCAWW 300.0A	12/05/06	6340469
			Dilution Factor: 1					
Fluoride			WO#:JLRGT1AC-LCS/JLRGT1AD-LCSD			LCS Lot-Sample#: F6L190000-291		
	1.00	0.950	mg/L	95		MCAWW 300.0A	12/09/06	6353291
	1.00	1.01	mg/L	101	6.2	MCAWW 300.0A	12/09/06	6353291
			Dilution Factor: 1					
Fluoride			WO#:JLRW91AC-LCS/JLRW91AD-LCSD			LCS Lot-Sample#: F6L190000-384		
	1.00	0.949	mg/L	95		MCAWW 300.0A	12/15/06	6353384
	1.00	0.936	mg/L	94	1.3	MCAWW 300.0A	12/15/06	6353384
			Dilution Factor: 1					
Fluoride			WO#:JLTG01AC-LCS/JLTG01AD-LCSD			LCS Lot-Sample#: F6L190000-552		
	1.00	0.919	mg/L	92		MCAWW 300.0A	12/14/06	6353552
	1.00	0.917	mg/L	92	0.27	MCAWW 300.0A	12/14/06	6353552
			Dilution Factor: 1					

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: SL657 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate		WO#:JLRW51AC-LCS/JLRW51AD-LCSD LCS Lot-Sample#: F6L190000-387						
	0.400	0.398	mg/L	100		MCAWW 300.0A	12/15/06	6353387
	0.400	0.403	mg/L	101	1.2	MCAWW 300.0A	12/15/06	6353387
		Dilution Factor: 1						
Nitrite		WO#:JLK451AC-LCS/JLK451AD-LCSD LCS Lot-Sample#: F6L060000-471						
	0.160	0.151	mg/L	94		MCAWW 300.0A	12/05/06	6340471
	0.160	0.163	mg/L	102	7.3	MCAWW 300.0A	12/05/06	6340471
		Dilution Factor: 1						
Nitrite		WO#:JLRHA1AC-LCS/JLRHA1AD-LCSD LCS Lot-Sample#: F6L190000-293						
	0.160	0.157	mg/L	98		MCAWW 300.0A	12/09/06	6353293
	0.160	0.151	mg/L	94	3.7	MCAWW 300.0A	12/09/06	6353293
		Dilution Factor: 1						
Nitrite		WO#:JLTG61AC-LCS/JLTG61AD-LCSD LCS Lot-Sample#: F6L190000-554						
	0.160	0.173	mg/L	108		MCAWW 300.0A	12/14/06	6353554
	0.160	0.173	mg/L	108	0.04	MCAWW 300.0A	12/14/06	6353554
		Dilution Factor: 1						
Nitrite		WO#:JL60F1AC-LCS/JL60F1AD-LCSD LCS Lot-Sample#: F6L190000-386						
	0.160	0.171	mg/L	107		MCAWW 300.0A	12/15/06	6353386
	0.160	0.172	mg/L	108	0.97	MCAWW 300.0A	12/15/06	6353386
		Dilution Factor: 1						
Nitrate		WO#:JLK5D1AC-LCS/JLK5D1AD-LCSD LCS Lot-Sample#: F6L060000-472						
	0.400	0.380	mg/L	95		MCAWW 300.0A	12/05/06	6340472
	0.400	0.384	mg/L	96	1.2	MCAWW 300.0A	12/05/06	6340472
		Dilution Factor: 1						
Nitrate		WO#:JLRHD1AC-LCS/JLRHD1AD-LCSD LCS Lot-Sample#: F6L190000-294						
	0.400	0.408	mg/L	102		MCAWW 300.0A	12/09/06	6353294
	0.400	0.418	mg/L	104	2.4	MCAWW 300.0A	12/09/06	6353294
		Dilution Factor: 1						
Nitrate		WO#:JLTG91AC-LCS/JLTG91AD-LCSD LCS Lot-Sample#: F6L190000-555						
	0.400	0.405	mg/L	101		MCAWW 300.0A	12/14/06	6353555
	0.400	0.409	mg/L	102	0.80	MCAWW 300.0A	12/14/06	6353555
		Dilution Factor: 1						

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: SL657 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Sulfate			WO#:JLK421AC-LCS/JLK421AD-LCSD	LCS Lot-Sample#: F6L060000-470				
	8.00	7.51	mg/L	94		MCAWW 300.0A	12/05/06	6340470
	8.00	8.09	mg/L	101	7.4	MCAWW 300.0A	12/05/06	6340470
			Dilution Factor: 1					
Sulfate			WO#:JLRG41AC-LCS/JLRG41AD-LCSD	LCS Lot-Sample#: F6L190000-292				
	8.00	7.95	mg/L	99		MCAWW 300.0A	12/09/06	6353292
	8.00	7.92	mg/L	99	0.35	MCAWW 300.0A	12/09/06	6353292
			Dilution Factor: 1					
Sulfate			WO#:JLRWW1AC-LCS/JLRWW1AD-LCSD	LCS Lot-Sample#: F6L190000-385				
	8.00	7.24	mg/L	90		MCAWW 300.0A	12/15/06	6353385
	8.00	7.19	mg/L	90	0.57	MCAWW 300.0A	12/15/06	6353385
			Dilution Factor: 1					
Sulfate			WO#:JLTG41AC-LCS/JLTG41AD-LCSD	LCS Lot-Sample#: F6L190000-553				
	8.00	7.84	mg/L	98		MCAWW 300.0A	12/14/06	6353553
	8.00	7.94	mg/L	99	1.3	MCAWW 300.0A	12/14/06	6353553
			Dilution Factor: 1					
Total Alkalinity			WO#:JLJ0H1AC-LCS/JLJ0H1AD-LCSD	LCS Lot-Sample#: F6L150000-244				
	200	198	mg/L	99		MCAWW 310.1	12/15/06	6349244
	200	199	mg/L	100	0.50	MCAWW 310.1	12/15/06	6349244
			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 #...: SL657 **Matrix.....:** WATER
Date Sampled...: 12/04/06 **Date Received..:** 12/05/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride			Work Order #...: JKR7H1AH			MS Lot-Sample #: F6L050184-001		
	2.7	2.00	4.68	mg/L	101	MCAWW 300.0A	12/05/06	6340468
			Dilution Factor: 1					
Chloride			Work Order #...: JLG831AL			MS Lot-Sample #: F6L140298-001		
	20.1	20.0	42.4 N,D	mg/L	111	MCAWW 300.0A	12/14/06	6353551
			Dilution Factor: 10					
Chloride			Work Order #...: JLKFX1AH			MS Lot-Sample #: F6L150205-003		
	11.7	20.0	32.1 D	mg/L	102	MCAWW 300.0A	12/15-12/16/06	6353382
			Dilution Factor: 10					
Fluoride			Work Order #...: JKR7H1AJ			MS Lot-Sample #: F6L050184-001		
	1.5	2.00	2.00 N	mg/L	27	MCAWW 300.0A	12/05/06	6340469
			Dilution Factor: 1					
Fluoride			Work Order #...: JLG831AM			MS Lot-Sample #: F6L140298-001		
	0.32	2.00	2.63 N	mg/L	115	MCAWW 300.0A	12/14/06	6353552
			Dilution Factor: 1					
Fluoride			Work Order #...: JLKFX1AJ			MS Lot-Sample #: F6L150205-003		
	0.30	2.00	2.18	mg/L	94	MCAWW 300.0A	12/15/06	6353384
			Dilution Factor: 1					
Nitrate			Work Order #...: JLG831AQ			MS Lot-Sample #: F6L140298-001		
	7.4	4.00	12.2 N,D	mg/L	120	MCAWW 300.0A	12/14/06	6353555
			Dilution Factor: 10					
Nitrate			Work Order #...: JLKFX1AM			MS Lot-Sample #: F6L150205-003		
	2.1	4.00	6.41 D	mg/L	109	MCAWW 300.0A	12/15-12/16/06	6353387
			Dilution Factor: 10					
Nitrite			Work Order #...: JKR7H1AL			MS Lot-Sample #: F6L050184-001		
	0.27	0.100	0.329 N	mg/L	58	MCAWW 300.0A	12/05/06	6340471
			Dilution Factor: 1					
Nitrite			Work Order #...: JLG831AP			MS Lot-Sample #: F6L140298-001		
	0.92	1.00	2.11 N,D	mg/L	119	MCAWW 300.0A	12/14/06	6353554
			Dilution Factor: 10					
Nitrite			Work Order #...: JLKFX1AL			MS Lot-Sample #: F6L150205-003		
	0.045	0.100	0.0942 N	mg/L	49	MCAWW 300.0A	12/15/06	6353386
			Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL657 **Matrix.....:** WATER
Date Sampled...: 12/04/06 **Date Received..:** 12/05/06

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate			Work Order #...: JKR7H1AM			MS Lot-Sample #: F6L050184-001		
	0.094	0.400	0.506	mg/L	103	MCAWW 300.0A	12/05/06	6340472
			Dilution Factor: 1					
Sulfate			Work Order #...: JKR7H1AK			MS Lot-Sample #: F6L050184-001		
	9.2	4.00	12.7 N	mg/L	87	MCAWW 300.0A	12/05/06	6340470
			Dilution Factor: 1					
Sulfate			Work Order #...: JLG831AN			MS Lot-Sample #: F6L140298-001		
	40.6	40.0	78.7 D	mg/L	95	MCAWW 300.0A	12/14/06	6353553
			Dilution Factor: 10					
Sulfate			Work Order #...: JLKFX1AK			MS Lot-Sample #: F6L150205-003		
	57.4	40.0	92.7 N,D	mg/L	88	MCAWW 300.0A	12/15-12/16/06	6353385
			Dilution Factor: 10					
Total Alkalinity			Work Order #...: JK6FA1AN			MS Lot-Sample #: F6L090133-002		
	112	100	217	mg/L	105	MCAWW 310.1	12/15/06	6349244
			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.

D Result was obtained from the analysis of a dilution.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F6L020194 **Work Order #...:** JKR7H-SMP JKR7H-DUP **Matrix.....:** WATER

Date Sampled...: 12/04/06 **Date Received..:** 12/05/06

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #: F6L050184-001		
	2.7	2.5	mg/L	6.6	(0-20)	MCAWW 300.0A	12/05/06	6340468
			Dilution Factor: 1					
Fluoride						SD Lot-Sample #: F6L050184-001		
	1.5 N	1.4 N	mg/L	8.1	(0-20)	MCAWW 300.0A	12/05/06	6340469
			Dilution Factor: 1					
Sulfate						SD Lot-Sample #: F6L050184-001		
	9.2 N	8.7 N	mg/L	5.6	(0-20)	MCAWW 300.0A	12/05/06	6340470
			Dilution Factor: 1					
Nitrite						SD Lot-Sample #: F6L050184-001		
	0.27 N	0.25 N	mg/L	9.9	(0-20)	MCAWW 300.0A	12/05/06	6340471
			Dilution Factor: 1					
Nitrate						SD Lot-Sample #: F6L050184-001		
	0.094	0.085	mg/L	9.3	(0-20)	MCAWW 300.0A	12/05/06	6340472
			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 #...: F6L020194 **Work Order #...:** JK6FA-SMP JK6FA-DUP **Matrix.....:** WATER

Date Sampled...: 12/08/06 **Date Received..:** 12/09/06

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity						SD Lot-Sample #:	F6L090133-002	
	112	113	mg/L	0.89	(0-20)	MCAWW 310.1	12/15/06	6349244

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F6L020194 **Work Order #...:** JLKFX-SMP JLKFX-DUP **Matrix.....:** WATER

Date Sampled...: 12/14/06 **Date Received..:** 12/15/06

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #: F6L150205-003		
	11.7 C,D	11.3 DC	mg/L	2.9	(0-20)	MCAWW 300.0A	12/15-12/16/06	6353382
			Dilution Factor: 10					
Fluoride						SD Lot-Sample #: F6L150205-003		
	0.30	0.31	mg/L	3.5	(0-20)	MCAWW 300.0A	12/15/06	6353384
			Dilution Factor: 1					
Sulfate						SD Lot-Sample #: F6L150205-003		
	57.4 DN	58.3 DN	mg/L	1.5	(0-20)	MCAWW 300.0A	12/15-12/16/06	6353385
			Dilution Factor: 10					
Nitrite						SD Lot-Sample #: F6L150205-003		
	0.045 N	0.055 N	mg/L	19	(0-20)	MCAWW 300.0A	12/15/06	6353386
			Dilution Factor: 1					
Nitrate						SD Lot-Sample #: F6L150205-003		
	2.1 D	2.0 D	mg/L	1.5	(0-20)	MCAWW 300.0A	12/15-12/16/06	6353387
			Dilution Factor: 10					

NOTE(S):

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

DC Result obtained from dilution; Analyte deteced in method blank above MDL/IDL.

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

D Result was obtained from the analysis of a dilution.

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F6L020194 **Work Order #...:** JLG83-SMP JLG83-DUP **Matrix.....:** WATER

Date Sampled...: 12/13/06 **Date Received..:** 12/14/06

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride						SD Lot-Sample #: F6L140298-001		
	20.1 C,DN	20.0 DCN	mg/L	0.24	(0-20)	MCAWW 300.0A	12/14/06	6353551
			Dilution Factor: 10					
Fluoride						SD Lot-Sample #: F6L140298-001		
	0.32 N	0.31 N	mg/L	2.5	(0-20)	MCAWW 300.0A	12/14/06	6353552
			Dilution Factor: 1					
Sulfate						SD Lot-Sample #: F6L140298-001		
	40.6 D	39.7 D	mg/L	2.4	(0-20)	MCAWW 300.0A	12/14/06	6353553
			Dilution Factor: 10					
Nitrite						SD Lot-Sample #: F6L140298-001		
	0.92 DN	0.85 DN	mg/L	7.4	(0-20)	MCAWW 300.0A	12/14/06	6353554
			Dilution Factor: 10					
Nitrate						SD Lot-Sample #: F6L140298-001		
	7.4 DN	7.4 DN	mg/L	0.11	(0-20)	MCAWW 300.0A	12/14/06	6353555
			Dilution Factor: 10					

NOTE(S):

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

DCN Result from dilution; analyted detected in blank; spike recovery outside limits.

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

DN Result obtained from dilution; spike sample recovery outside control limits.

N Spiked analyte recovery is outside stated control limits.

D Result was obtained from the analysis of a dilution.

VOLATILES

METALS

WET CHEMISTRY

PNNL SL6597 ~~SL655~~ NA 12.5.06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S06-009-104**

Page 1 of 1

Collector: Fluor Hanford F. M. HALL	Contact/Requester: Dot Stewart	Telephone No.: 509-376-5056 MSIN FAX
SAF No.: S06-009	Sampling Origin: Hanford Site	Purchase Order/Charge Code
Project Title: SURV, SEPTEMBER 2006	HNF-N-506 3	Ice Chest No.: SML-436 Temp.
Shipped To (Lab): Severn Trent St. Louis	Method of Shipment: Govt. Vehicle	Bill of Lading/Air Bill No.: 7901 2812 0122
Protocol: SURV	Priority: 45 Days	Offsite Property No.

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to 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
B1KJN5		W	12-1-06	0341	1x20-mL P	Activity Scan	None
B1KJN5		W	↓	↓	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	HCl or H2SO4 to pH <2 Cool 4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford F. M. HALL			DEC 0 1 2006 1400	FedEx			
Relinquished By			Date/Time	Received By			Date/Time
Fed Ex 12-02-06 0915				Jill Clarke 12-02-06 0915			
Relinquished By			Date/Time	Received By			Date/Time
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

PNNL SL657 ~~SL656~~ 12-7-06

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **S06-007-88**

Page 1 of 1

Collector Fluor Hanford L. D. WALL	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-007	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JULY 2006	HNF-N-506 3	**Ice Chest No.** GRP-04-010 **Temp.** ~~3 1605 3 1606~~ 12-4-06
Shipped To (Lab) Severn Trent St. Louis	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** 7905.9500-0133
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to 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
B1JLB8		W	12-4-06	1243	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1JLB8		W	↓	↓	1x20-mL P	Activity Scan	None

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford L. D. WALL	L.D. Wall		DEC 0 4 2006	FedEX			
Relinquished By			Date/Time	Received By			Date/Time
FedEx	12-5-06		0900	Jill Clarke	12-5-06		0900
Relinquished By			Date/Time	Received By			Date/Time
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

PNNL SL 657

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S06-009-37

Page 1 of 1

Collector R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-009	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, SEPTEMBER 2006	HWI-N-5061	**Ice Chest No.** AES-04-027 **Temp.**
Shipped To (Lab) Severn Trent St. Louis	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** 7995 5074 5865
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to 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
B1KCW5 (F)		W	12-8-06	1013	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	HNO3 to pH <2
B1KCW6		W	↓	↓	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1KCW6		W			1x20-mL P	Activity Scan	None
B1KCW6		W			1x500-mL G/P	310.1_ALKALINITY: Alkalinity (1)	Cool 4C
B1KCW6		W	↓	↓	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	HCl or H2SO4 to pH <2 Cool 4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
R. T. SICKLE			DEC 08 2006 1400	FedEx			
Relinquished By			Date/Time	Received By			Date/Time
Fed Ex				B-P			12/4/06 0830
Relinquished By			Date/Time	Received By			Date/Time
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

PNNL SL657

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S06-006-250

Page 1 of 1

Collector Fluor Hanford R. T. SICKLE	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. S06-006	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title SURV, JUNE 2006	HNF-N-506 1	**Ice Chest No.** SWKK **Temp.**
Shipped To (Lab) Severn Trent St. Louis	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** 7916 0042 1032
Protocol SURV 10467	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to 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
B1J996 (F)		W	12-13-06	0825	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	HNO3 to pH <2
B1J997		W	↓	↓	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1J997		W			1x20-mL P	Activity Scan	None
B1J997		W			1x500-mL G/P	310.1_ALKALINITY: Alkalinity (1)	Cool 4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford R. T. SICKLE			DEC 13 2006 1400	Fed Ex			
Relinquished By			Date/Time	Received By			Date/Time
Fed Ex		12.14.06	0915	Jill Clarke		12.14.06	0915
Relinquished By			Date/Time	Received By			Date/Time
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

56105

PNNL SL657

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

CR5321

C.O.C. # **I06-054-52**

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Collector Fluor Hanford D. E. PARCHEN 71771	**Contact/Requester** Dot Stewart	**Telephone No.** 509-376-5056 **MSIN** **FAX**
SAF No. I06-054	**Sampling Origin** Hanford Site	**Purchase Order/Charge Code**
Project Title 2UP1-LOI, AUGUST 2006	Logbook: HNF-N-506-4	**Ice Chest No.** GRP-03-006 **Temp.**
Shipped To (Lab) Severn Trent St. Louis	**Method of Shipment** Govt. Vehicle	**Bill of Lading/Air Bill No.** 791189452959
Protocol SURV	**Priority:** 45 Days	**Offsite Property No.**

POSSIBLE SAMPLE HAZARDS/REMARKS
** **

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐
Batch all PNNL GW samples submitted under "W", "S", "I", "A" or "G" 06 SAFs into one SDG, not to 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
B1K569		W	12/14/06	0916	4x40-mL aGs*	8260_VOA_GCMS: List-2 (26)	HCl or H2SO4 to pH <2 Cool 4C
B1K569		W	↓	↓	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	Cool 4C
B1K569		W	↓	↓	1x20-mL P	Activity Scan	None

L. Wall 12/14/06

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Fluor Hanford D. E. PARCHEN			DEC 14 2006 1430	FEDEX	12-14-06	12-14-06	1430
Fed Ex	12-15-06		9:15 AM	Carla Brelje	12-15-06		8:45 AM

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