WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352

RECEIVED AUGUST 27, 2010

0096715

August 26, 2010

Michael Neely
CH2M-HILL PRC
PO Box 1600
Richland, WA 99352

Dear Michael Neely,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF101774

Reference: (1) SOW, Mod 2, #36587, Release 3
(2) HNF-SD-CD-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WSCF101774

* Cover Sheet (Attachment 1)
* Narrative (Attachment 2)
* Analytical Results (Attachment 3)
* Sample Receipt Information (Attachment 4)

Very truly yours,

Electronically signed by Bill Baird
For Lab Manager
WSCF Analytical Lab
(509) 373-7495

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Attachments 4

CC: w/Attachments

File/LB

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF101774
Data Deliverable Date 09/03/10

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
W10-007	B268C7	101774001	WATER	07/20/10	07/20/10
W10-007	B269C3	101774002	WATER	07/20/10	07/20/10
W10-007	B268C9	101774003	WATER	07/20/10	07/20/10
W10-007	B269L2	101774004	WATER	07/20/10	07/20/10
W10-007	B269L3	101774005	WATER	07/20/10	07/20/10
W10-007	B269L4	101774006	WATER	07/20/10	07/20/10
W10-007	B269J9	101774007	WATER	07/20/10	07/20/10
W10-007	B269K0	101774008	WATER	07/20/10	07/20/10
W10-007	B269K2	101774009	WATER	07/20/10	07/20/10
W10-007	B269K3	101774010	WATER	07/20/10	07/20/10
W10-007	B269J6	101774011	WATER	07/20/10	07/20/10
W10-007	B269J7	101774012	WATER	07/20/10	07/20/10

ATTACHMENT 2

NARRATIVE

Consisting of 3 pages
Including cover page

Attachment 2
Narrative
WSCF101774

Introduction

Twelve (12) groundwater samples were received at the WSCF Laboratory on July 20, 2010. The samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Statement of Work (SOW), Modification No. 2 to Agreement 36587, Release 3, "FH WSCF ANALYTICAL SERVICES FOR GROUNDWATER."*

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

It should be noted that the attached chain of custody was not stamped "ICED" by the WSCF Laboratory Sample Custodian during sample receiving. However, based on procedure LO-090-403 form "NOTICE OF IMPROPER SAMPLE SUBMITTAL" was not submitted and was not stamped "NOT ICED". No anomaly was noted during sample receipt.

The following generic data qualifiers (i.e., B, D, U and J) may be applicable to this report, as appropriate

- **B** – Sample results with a concentration greater than the MDL but less than the PQL are B flagged (applies to inorganic and wet chemical analyses), as appropriate.
- **D** – Sample results are D flagged if dilution(s) were required, as appropriate.
- **J** – Sample results with a concentration greater than the MDL but less than the PQL are J flagged (applies to organic analyses), as appropriate.
- **U** – Analyzed for but not detected above limiting criteria. Relative Percent Difference (RPD) values associated with an analyte qualified with a "U" are not applicable.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report* for a complete listing of approved analytical methods.

Inorganic Comments

Anions – Hold time requirements for this analysis were met. A Duplicate, Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Batch QC 144483 analyzed on sample# B26F28 (101770001)
- Batch QC 145077 analyzed on sample# B264R7 (101769001)

All QC controls are within the established limits.

Attachment 2
Narrative
WSCF101774

ICP-AES Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Batch 144778 QC analyzed on sample# B266X5 (101773005)
  - Silver – Matrix Spike and or Matrix Spike Duplicate recoveries exceeded established laboratory limits. Affected sample results in this batch were N flagged.
  - Calcium, Magnesium and Sodium – exceeded spiking levels by a factor of 4, Spike recoveries and associated RPDs are not valid.

All other QC controls are within the established limits.

ICP-MS Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Batch QC 147781 analyzed on sample# B266X8 (101773008)

All QC controls are within the established limits.

Organic Comments

VOA – The hold time requirement for this analysis was met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- Batch QC 144575 analyzed on sample# B26F28 (101770001)

All QC controls are within the established limits.

We certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the Analytical Laboratory Manager (or designee) and the Client Services representative as verified by electronic signatures shown on the WSCF ANALYTICAL RESULTS REPORT.

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 44 pages
Including cover page

WSCF ANALYTICAL RESULTS REPORT

For

CH2M Hill Plateau Remediation

PO Box 1600
Richland, WA 99352

Attention: Michael Neely

Contract #	MOA-FH-CHPRC-2008
Group #	WSCF101774
Report Date	August 26, 2010

Analytical: Electronically signed by Bill Baird

Client Services: Electronically signed by Richard Barker

Solid samples results that have a 'Percent Solid' test are reported on a "dry weight basis", except results of TCLP, Percent Solid, and Total Activity. If no 'Percent Solid' test is reported then the results are reported on an "as received" basis.

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Batch QC List

Attention Michael Neely
Department Inorganic

Group # WSCF101774

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
144483	144483	2	BLANK	33756	BLANK		Anions by Ion Chromatography (Water)
144483	144483	3	LCS	33757	LCS		Anions by Ion Chromatography (Water)
144483	144483	4	DUP	33758	B26F28(101770001DUP)	101770001	Anions by Ion Chromatography (Water)
144483	144483	5	MS	33759	B26F28(101770001MS)	101770001	Anions by Ion Chromatography (Water)
144483	144483	6	MSD	33760	B26F28(101770001MSD)	101770001	Anions by Ion Chromatography (Water)
144483	144483	11	SAMPLE	101774006	B269L4		Anions by Ion Chromatography (Water)
144778	152445	1	BLANK	33802	BLANK		ICP-6010 - All possible metals
144778	152445	2	LCS	33803	LCS		ICP-6010 - All possible metals
144778	152445	3	MS	33804	B266X5(101773005MS)	101773005	ICP-6010 - All possible metals
144778	152445	4	MSD	33805	B266X5(101773005MSD)	101773005	ICP-6010 - All possible metals
144778	152445	11	SAMPLE	101774007	B269J9		ICP-6010 - All possible metals
144778	152445	12	SAMPLE	101774008	B269K0		ICP-6010 - All possible metals
144778	152445	13	SAMPLE	101774009	B269K2		ICP-6010 - All possible metals
144778	152445	14	SAMPLE	101774010	B269K3		ICP-6010 - All possible metals
144778	152445	15	SAMPLE	101774011	B269J6		ICP-6010 - All possible metals
144778	152445	16	SAMPLE	101774012	B269J7		ICP-6010 - All possible metals
145077	145077	2	BLANK	33866	BLANK		Anions by Ion Chromatography (Water)
145077	145077	3	LCS	33867	LCS		Anions by Ion Chromatography (Water)
145077	145077	4	DUP	33868	B264R7(101769001DUP)	101769001	Anions by Ion Chromatography (Water)
145077	145077	5	MS	33869	B264R7(101769001MS)	101769001	Anions by Ion Chromatography (Water)
145077	145077	6	MSD	33870	B264R7(101769001MSD)	101769001	Anions by Ion Chromatography (Water)
145077	145077	8	SAMPLE	101774005	B269L3		Anions by Ion Chromatography (Water)
145077	145077	9	SAMPLE	101774005	B269L3		Anions by Ion Chromatography (Water)

Batch QC List

Attention Michael Neely
Department Inorganic

Group # WSCF101774

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
145077	145077	11	SAMPLE	101774004	B269L2		Anions by Ion Chromatography (Water)
145077	145077	12	SAMPLE	101774004	B269L2		Anions by Ion Chromatography (Water)
147781	147782	4	BLANK	34557	BLANK		ICP-2008 MS All possible metal
147781	147782	5	LCS	34558	LCS		ICP-2008 MS All possible metal
147781	147782	7	MS	34559	B266X8(101773008MS)	101773008	ICP-2008 MS All possible metal
147781	147782	8	MSD	34560	B266X8(101773008MSD)	101773008	ICP-2008 MS All possible metal
147781	147782	12	SAMPLE	101774003	B268C9		ICP-2008 MS All possible metal

Batch QC List

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF101774

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
144575	144576	1	BLANK	33770	BLANK		SW-846 8260B Volatiles, separate prep
144575	144576	2	LCS	33771	LCS		SW-846 8260B Volatiles, separate prep
144575	144576	3	MS	33772	B26F28(101770001MS)	101770001	SW-846 8260B Volatiles, separate prep
144575	144576	4	MSD	33773	B26F28(101770001MSD)	101770001	SW-846 8260B Volatiles, separate prep
144575	144576	7	SAMPLE	101774001	B268C7		SW-846 8260B Volatiles, separate prep
144575	144576	8	SAMPLE	101774002	B269C3		SW-846 8260B Volatiles, separate prep
144575	144576	10	SAMPLE	101774003	B268C9		SW-846 8260B Volatiles, separate prep

Method Reference

Attention Michael Neely
Department Inorganic

Group # WSCF101774

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-505-411	Elemental Analysis by ICP Atomic Emission Spectroscopy (ICP-AES)		
	EPA SW-846	6010C	Inductively Coupled Plasma-Atomic Emmision Spectrometry
	HEIS	6010_METALS_ICP	Inductively Coupled Plasma-Atomic Emmision Spectrometry
LA-505-412	Determination of Trace Elements in Waters & Wastes by ICP-Mass Spectrometry		
	EPA-600/R-94-111	200.8	Determination of Trace Elements in Waters and Waste by Inductively Coupled Plasma
	HEIS	200.8_METALS_ICPMS	Determination of Trace Elements in Waters and Waste by Inductively Coupled Plasma, Mass Spec.
LA-533-410	Anion Analysis by Ion Chromatography		
	EPA-600/R-94-111	300.0	Determination of Inorganic Anions by Ion Chromatography
	HEIS	300.0_ANIONS_IC	Determination of Inorganic Anions by Ion Chromatography

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF101774

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-523-455	Volatile Sample Analysis by SW-846 Method 8260B		
	EPA SW-846	8000B	Determinative Chromographic Separations
	EPA SW-846	8260B	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
	HEIS	8260_VOA_GCMS	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774003
SAF# W10-007
Sample ID B268C9

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**07/30/10**
ICP-MS										
Uranium	7440-61-1	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	07/30/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774004
SAF# W10-007
Sample ID B269L2

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Anions by IC										**07/20/10**
Anions by IC										
Fluoride	16984-48-8	LA-533-410	BD	0.103		ug/mL	2	0.060	0.40	07/20/10
Chloride	16887-00-6	LA-533-410	D	18.4		ug/mL	2	0.086	0.80	07/20/10
Nitrite-N	NO2-N	LA-533-410	UD	<0.036		ug/mL	2	0.036	0.20	07/20/10
Nitrate-N	NO3-N	LA-533-410	D	25.8		ug/mL	10	0.31	1.0	07/20/10
Sulfate	14808-79-8	LA-533-410	D	85.2		ug/mL	2	0.13	2.0	07/20/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774005
SAF# W10-007
Sample ID B269L3

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Anions by IC										**07/20/10**
Anions by IC										
Fluoride	16984-48-8	LA-533-410	BD	0.107		ug/mL	2	0.060	0.40	07/20/10
Chloride	16887-00-6	LA-533-410	D	15.6		ug/mL	2	0.086	0.80	07/20/10
Nitrite-N	NO2-N	LA-533-410	UD	<0.036		ug/mL	2	0.036	0.20	07/20/10
Nitrate-N	NO3-N	LA-533-410	D	14.1		ug/mL	10	0.31	1.0	07/20/10
Sulfate	14808-79-8	LA-533-410	D	77.1		ug/mL	2	0.13	2.0	07/20/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774006
SAF# W10-007
Sample ID B269L4

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Anions by IC										**07/20/10**
Anions by IC										
Fluoride	16984-48-8	LA-533-410	BD	0.207		ug/mL	2	0.060	0.40	07/20/10
Chloride	16887-00-6	LA-533-410	D	5.48		ug/mL	2	0.086	0.80	07/20/10
Nitrite-N	NO2-N	LA-533-410	UD	<0.036		ug/mL	2	0.036	0.20	07/20/10
Nitrate-N	NO3-N	LA-533-410	D	9.53		ug/mL	2	0.062	0.20	07/20/10
Sulfate	14808-79-8	LA-533-410	D	32.6		ug/mL	2	0.13	2.0	07/20/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774007
SAF# W10-007
Sample ID B269J9

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICP Prep										**07/21/10**
ICP-AES										
Iron	7439-89-6	LA-505-411		154		ug/L	1	18	90	08/19/10
Magnesium	7439-95-4	LA-505-411		18000		ug/L	1	16	80	08/19/10
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Nickel	7440-02-0	LA-505-411	B	9.00		ug/L	1	4.0	20	08/19/10
Potassium	7440-09-7	LA-505-411		8090		ug/L	1	55	280	08/19/10
Silver	7440-22-4	LA-505-411	UN	<5.0		ug/L	1	5.0	25	08/19/10
Sodium	7440-23-5	LA-505-411		27000		ug/L	1	23	120	08/19/10
Antimony	7440-36-0	LA-505-411	U	<38		ug/L	1	38	190	08/19/10
Barium	7440-39-3	LA-505-411		73.0		ug/L	1	4.0	20	08/19/10
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Chromium	7440-47-3	LA-505-411	U	<13		ug/L	1	13	65	08/19/10
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Vanadium	7440-62-2	LA-505-411	B	19.0		ug/L	1	12	60	08/19/10
Zinc	7440-66-6	LA-505-411	U	<6.0		ug/L	1	6.0	30	08/19/10
Calcium	7440-70-2	LA-505-411		61400		ug/L	1	39	200	08/19/10
Strontium	7440-24-6	LA-505-411		342		ug/L	1	4.0	20	08/19/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774007
SAF# W10-007
Sample ID B269J9

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774008
SAF# W10-007
Sample ID B269K0

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICP Prep										**07/21/10**
ICP-AES										
Iron	7439-89-6	LA-505-411	B	81.0		ug/L	1	18	90	08/19/10
Magnesium	7439-95-4	LA-505-411		17800		ug/L	1	16	80	08/19/10
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Nickel	7440-02-0	LA-505-411	B	9.00		ug/L	1	4.0	20	08/19/10
Potassium	7440-09-7	LA-505-411		8030		ug/L	1	55	280	08/19/10
Silver	7440-22-4	LA-505-411	UN	<5.0		ug/L	1	5.0	25	08/19/10
Sodium	7440-23-5	LA-505-411		26900		ug/L	1	23	120	08/19/10
Antimony	7440-36-0	LA-505-411	U	<38		ug/L	1	38	190	08/19/10
Barium	7440-39-3	LA-505-411		73.0		ug/L	1	4.0	20	08/19/10
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Chromium	7440-47-3	LA-505-411	B	30.0		ug/L	1	13	65	08/19/10
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Vanadium	7440-62-2	LA-505-411	B	23.0		ug/L	1	12	60	08/19/10
Zinc	7440-66-6	LA-505-411	U	<6.0		ug/L	1	6.0	30	08/19/10
Calcium	7440-70-2	LA-505-411		61400		ug/L	1	39	200	08/19/10
Strontium	7440-24-6	LA-505-411		340		ug/L	1	4.0	20	08/19/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774008
SAF# W10-007
Sample ID B269K0

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774009
SAF# W10-007
Sample ID B269K2

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICP Prep										**07/21/10**
ICP-AES										
Iron	7439-89-6	LA-505-411		519		ug/L	1	18	90	08/19/10
Magnesium	7439-95-4	LA-505-411		9770		ug/L	1	16	80	08/19/10
Manganese	7439-96-5	LA-505-411		70.0		ug/L	1	4.0	20	08/19/10
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Potassium	7440-09-7	LA-505-411		7260		ug/L	1	55	280	08/19/10
Silver	7440-22-4	LA-505-411	UN	<5.0		ug/L	1	5.0	25	08/19/10
Sodium	7440-23-5	LA-505-411		17600		ug/L	1	23	120	08/19/10
Antimony	7440-36-0	LA-505-411	U	<38		ug/L	1	38	190	08/19/10
Barium	7440-39-3	LA-505-411		27.0		ug/L	1	4.0	20	08/19/10
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Chromium	7440-47-3	LA-505-411	U	<13		ug/L	1	13	65	08/19/10
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Vanadium	7440-62-2	LA-505-411	B	14.0		ug/L	1	12	60	08/19/10
Zinc	7440-66-6	LA-505-411	B	10.0		ug/L	1	6.0	30	08/19/10
Calcium	7440-70-2	LA-505-411		38100		ug/L	1	39	200	08/19/10
Strontium	7440-24-6	LA-505-411		191		ug/L	1	4.0	20	08/19/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774009
SAF# W10-007
Sample ID B269K2

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774010
SAF# W10-007
Sample ID B269K3

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICP Prep										**07/21/10**
ICP-AES										
Iron	7439-89-6	LA-505-411		210		ug/L	1	18	90	08/19/10
Magnesium	7439-95-4	LA-505-411		9890		ug/L	1	16	80	08/19/10
Manganese	7439-96-5	LA-505-411		57.0		ug/L	1	4.0	20	08/19/10
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Potassium	7440-09-7	LA-505-411		7430		ug/L	1	55	280	08/19/10
Silver	7440-22-4	LA-505-411	UN	<5.0		ug/L	1	5.0	25	08/19/10
Sodium	7440-23-5	LA-505-411		18000		ug/L	1	23	120	08/19/10
Antimony	7440-36-0	LA-505-411	U	<38		ug/L	1	38	190	08/19/10
Barium	7440-39-3	LA-505-411		27.0		ug/L	1	4.0	20	08/19/10
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Chromium	7440-47-3	LA-505-411	U	<13		ug/L	1	13	65	08/19/10
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Vanadium	7440-62-2	LA-505-411	B	21.0		ug/L	1	12	60	08/19/10
Zinc	7440-66-6	LA-505-411	B	6.00		ug/L	1	6.0	30	08/19/10
Calcium	7440-70-2	LA-505-411		38200		ug/L	1	39	200	08/19/10
Strontium	7440-24-6	LA-505-411		195		ug/L	1	4.0	20	08/19/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary dilution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774010
SAF# W10-007
Sample ID B269K3

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774011
SAF# W10-007
Sample ID B269J6

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICP Prep										**07/21/10**
ICP-AES										
Iron	7439-89-6	LA-505-411	U	<18		ug/L	1	18	90	08/19/10
Magnesium	7439-95-4	LA-505-411		21800		ug/L	1	16	80	08/19/10
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Nickel	7440-02-0	LA-505-411	B	5.00		ug/L	1	4.0	20	08/19/10
Potassium	7440-09-7	LA-505-411		8360		ug/L	1	55	280	08/19/10
Silver	7440-22-4	LA-505-411	UN	<5.0		ug/L	1	5.0	25	08/19/10
Sodium	7440-23-5	LA-505-411		28300		ug/L	1	23	120	08/19/10
Antimony	7440-36-0	LA-505-411	U	<38		ug/L	1	38	190	08/19/10
Barium	7440-39-3	LA-505-411		80.0		ug/L	1	4.0	20	08/19/10
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Chromium	7440-47-3	LA-505-411	B	17.0		ug/L	1	13	65	08/19/10
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Vanadium	7440-62-2	LA-505-411	B	22.0		ug/L	1	12	60	08/19/10
Zinc	7440-66-6	LA-505-411	U	<6.0		ug/L	1	6.0	30	08/19/10
Calcium	7440-70-2	LA-505-411		73400		ug/L	1	39	200	08/19/10
Strontium	7440-24-6	LA-505-411		448		ug/L	1	4.0	20	08/19/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774011
SAF# W10-007
Sample ID B269J6

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774012
SAF# W10-007
Sample ID B269J7

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICP Prep										**07/21/10**
ICP-AES										
Iron	7439-89-6	LA-505-411	B	29.0		ug/L	1	18	90	08/19/10
Magnesium	7439-95-4	LA-505-411		22200		ug/L	1	16	80	08/19/10
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Nickel	7440-02-0	LA-505-411	B	4.00		ug/L	1	4.0	20	08/19/10
Potassium	7440-09-7	LA-505-411		8380		ug/L	1	55	280	08/19/10
Silver	7440-22-4	LA-505-411	UN	<5.0		ug/L	1	5.0	25	08/19/10
Sodium	7440-23-5	LA-505-411		28400		ug/L	1	23	120	08/19/10
Antimony	7440-36-0	LA-505-411	U	<38		ug/L	1	38	190	08/19/10
Barium	7440-39-3	LA-505-411		82.0		ug/L	1	4.0	20	08/19/10
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Chromium	7440-47-3	LA-505-411	B	16.0		ug/L	1	13	65	08/19/10
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10
Vanadium	7440-62-2	LA-505-411	B	27.0		ug/L	1	12	60	08/19/10
Zinc	7440-66-6	LA-505-411	U	<6.0		ug/L	1	6.0	30	08/19/10
Calcium	7440-70-2	LA-505-411		74500		ug/L	1	39	200	08/19/10
Strontium	7440-24-6	LA-505-411		459		ug/L	1	4.0	20	08/19/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Sample # 101774012
SAF# W10-007
Sample ID B269J7

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	08/19/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL. (Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF101774

Sample # 101774001
SAF# W10-007
Sample ID B268C7

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8260 Prep										**07/21/10**
SW-846 8260B										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	07/21/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumptive compound based on MS Library search.

T - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF101774

Sample # 101774001
SAF# W10-007
Sample ID B268C7

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1-Butanol	71-36-3	LA-523-455	U	<100		ug/L	1	100	500	07/21/10
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	07/21/10
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	07/21/10
1,4-Dichlorobenzene	106-46-7	LA-523-455	U	<1		ug/L	1	1	5	07/21/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
D - Analyte was reported at a secondary diltution factor.
E - The calibration exceeds the calibration range (GC/MS).
J - Analyte < lowest calibration but >= MDL.
N - Presumptive compound based on MS Library search.

T - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF101774

Sample # 101774002
SAF# W10-007
Sample ID B269C3

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8260 Prep										**07/21/10**
SW-846 8260B										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	07/21/10

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte was detected in both the BLANK and SAMPLE
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T - MS and/or MSD sample recovery outside control limits.
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X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF101774

Sample # 101774002
SAF# W10-007
Sample ID B269C3

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1-Butanol	71-36-3	LA-523-455	U	<100		ug/L	1	100	500	07/21/10
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	07/21/10
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	07/21/10
1,4-Dichlorobenzene	106-46-7	LA-523-455	U	<1		ug/L	1	1	5	07/21/10

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WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF101774

Sample # 101774003
SAF# W10-007
Sample ID B268C9

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
8260 Prep										**07/21/10**
SW-846 8260B										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	07/21/10

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X,Y or Z - See comment detail and/or narrative.

WSCF Analytical Results Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF101774

Sample # 101774003
SAF# W10-007
Sample ID B268C9

Matrix WATER
Sampled 07/20/10
Received 07/20/10

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
1-Butanol	71-36-3	LA-523-455	U	<100		ug/L	1	100	500	07/21/10
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	07/21/10
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	07/21/10
cis-1,2-Dichloroethene	156-59-2	LA-523-455	J	3.8		ug/L	1	1	5	07/21/10
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	07/21/10
1,4-Dichlorobenzene	106-46-7	LA-523-455	U	<1		ug/L	1	1	5	07/21/10

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TP Err = Total Propagated
DF = Dilution Factor
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Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

QC Batch 144483
Associated Samples 101774006

Test Anions by Ion Chromatography (Water)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #33756**							
Fluoride	16984-48-8		<0.030	ug/mL					U	07/20/10
Chloride	16887-00-6		<0.043	ug/mL					U	07/20/10
Nitrite-N	NO2-N		<0.018	ug/mL					U	07/20/10
Nitrate-N	NO3-N		<0.031	ug/mL					U	07/20/10
Sulfate	14808-79-8		<0.066	ug/mL					U	07/20/10
LCS			**QC Sample #33757**							
Fluoride	16984-48-8		0.915	ug/mL	92.4	90 - 110				07/20/10
Chloride	16887-00-6		1.95	ug/mL	98.7	90 - 110				07/20/10
Nitrite-N	NO2-N		0.968	ug/mL	98.9	90 - 110				07/20/10
Nitrate-N	NO3-N		0.901	ug/mL	101.8	90 - 110				07/20/10
Sulfate	14808-79-8		3.89	ug/mL	99.1	90 - 110				07/20/10
DUP			**QC Sample #33758**							
			Original 101770001							
Fluoride	16984-48-8		0.143	ug/mL			0.70	20	BD	07/20/10
Chloride	16887-00-6		7.43	ug/mL			0.40	20	D	07/20/10
Nitrite-N	NO2-N		<0.036	ug/mL			0.00	20	UD	07/20/10
Nitrate-N	NO3-N		1.61	ug/mL			0.60	20	D	07/20/10
Sulfate	14808-79-8		33.6	ug/mL			1.20	20	D	07/20/10

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
MS			**QC Sample #33759**							
			Original 101770001							
Fluoride	16984-48-8		0.961	ug/mL	96.1	80 - 120			D	07/20/10
Chloride	16887-00-6		1.73	ug/mL	86.5	80 - 120			D	07/20/10
Nitrite-N	NO2-N		0.925	ug/mL	93.6	80 - 120			D	07/20/10
Nitrate-N	NO3-N		0.868	ug/mL	97.1	80 - 120			D	07/20/10
Sulfate	14808-79-8		3.71	ug/mL	93.8	80 - 120			D	07/20/10
MSD			**QC Sample #33760**							
			Original 101770001					**Paired**	**33759**	
Fluoride	16984-48-8		0.929	ug/mL	92.9	80 - 120	3.40	20	D	07/20/10
Chloride	16887-00-6		1.77	ug/mL	88.3	80 - 120	2.10	20	D	07/20/10
Nitrite-N	NO2-N		0.890	ug/mL	90	80 - 120	3.90	20	D	07/20/10
Nitrate-N	NO3-N		0.759	ug/mL	84.9	80 - 120	13.40	20	D	07/20/10
Sulfate	14808-79-8		3.86	ug/mL	97.6	80 - 120	4.00	20	D	07/20/10

Quality Control Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF101774

QC Batch 144575
Associated Samples 101774001, 101774002, 101774003

Test SW-846 8260B Volatiles, separate prep

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #33770**						
1,1-Dichloroethene	75-35-4		<1	ug/L				U	07/21/10
Trichloroethene	79-01-6		<1	ug/L				U	07/21/10
Benzene	71-43-2		<1	ug/L				U	07/21/10
Toluene	108-88-3		<1	ug/L				U	07/21/10
Chlorobenzene	108-90-7		<1	ug/L				U	07/21/10
1,1-Dichloroethane	75-34-3		<1	ug/L				U	07/21/10
Ethylbenzene	100-41-4		<1	ug/L				U	07/21/10
1,2-Dichloroethane	107-06-2		<1	ug/L				U	07/21/10
Methyl isobutyl ketone	108-10-1		<1	ug/L				U	07/21/10
Tetrachloroethene	127-18-4		<1	ug/L				U	07/21/10
Total Xylenes	1330-20-7		<1	ug/L				U	07/21/10
Carbon tetrachloride	56-23-5		<1	ug/L				U	07/21/10
Acetone	67-64-1		<1	ug/L				U	07/21/10
Chloroform	67-66-3		<1	ug/L				U	07/21/10
1,1,1-Trichloroethane	71-55-6		<1	ug/L				U	07/21/10
Vinyl chloride	75-01-4		<1	ug/L				U	07/21/10
Methylene chloride	75-09-2		<1	ug/L				U	07/21/10
Carbon disulfide	75-15-0		<1	ug/L				U	07/21/10
Methyl ethyl ketone	78-93-3		<1	ug/L				U	07/21/10

Quality Control Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF101774

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
1,1,2-Trichloroethane	79-00-5		<1	ug/L					U	07/21/10
1-Butanol	71-36-3		<100	ug/L					U	07/21/10
Tetrahydrofuran	109-99-9		<2	ug/L					U	07/21/10
trans-1,2-Dichloroethene	156-60-5		<1	ug/L					U	07/21/10
cis-1,2-Dichloroethene	156-59-2		<1	ug/L					U	07/21/10
Propionitrile	107-12-0		<2	ug/L					U	07/21/10
1,4-Dichlorobenzene	106-46-7		<1	ug/L					U	07/21/10
LCS			**QC Sample #33771**							
1,1-Dichloroethene	75-35-4		23	ug/L	92.4	75 - 125				07/21/10
Trichloroethene	79-01-6		23	ug/L	92.1	75 - 125				07/21/10
Benzene	71-43-2		25	ug/L	99.1	75 - 125				07/21/10
Toluene	108-88-3		25	ug/L	101	75 - 125				07/21/10
Chlorobenzene	108-90-7		25	ug/L	99.2	75 - 125				07/21/10
MS			**QC Sample #33772**							
			Original 101770001							
1,1-Dichloroethene	75-35-4		24	ug/L	95.4	75 - 125				07/21/10
Trichloroethene	79-01-6		26	ug/L	105.6	75 - 125				07/21/10
Benzene	71-43-2		26	ug/L	105.6	75 - 125				07/21/10
Toluene	108-88-3		27	ug/L	108.6	75 - 125				07/21/10
Chlorobenzene	108-90-7		26	ug/L	104.3	75 - 125				07/21/10
MSD			**QC Sample #33773**							
			Original 101770001					**Paired 33772**		
1,1-Dichloroethene	75-35-4		25	ug/L	99.9	75 - 125	4.60	20		07/21/10
Trichloroethene	79-01-6		27	ug/L	106.7	75 - 125	1.00	20		07/21/10

Quality Control Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF101774

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Benzene	71-43-2		27	ug/L	106.7	75 - 125	1.00	20		07/21/10
Toluene	108-88-3		28	ug/L	110.2	75 - 125	1.50	20		07/21/10
Chlorobenzene	108-90-7		27	ug/L	106.6	75 - 125	2.20	20		07/21/10

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

QC Batch 144778 **Test** ICP-6010 - All possible metals
Associated Samples 101774007, 101774008, 101774009, 101774010, 101774011, 101774012

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #33802**						
Iron	7439-89-6		<18	ug/L				U	08/19/10
Magnesium	7439-95-4		<16	ug/L				U	08/19/10
Manganese	7439-96-5		<4.0	ug/L				U	08/19/10
Nickel	7440-02-0		<4.0	ug/L				U	08/19/10
Potassium	7440-09-7		<55	ug/L				U	08/19/10
Silver	7440-22-4		<5.0	ug/L				U	08/19/10
Sodium	7440-23-5		<23	ug/L				U	08/19/10
Antimony	7440-36-0		<38	ug/L				U	08/19/10
Barium	7440-39-3		<4.0	ug/L				U	08/19/10
Cadmium	7440-43-9		<4.0	ug/L				U	08/19/10
Chromium	7440-47-3		<13	ug/L				U	08/19/10
Cobalt	7440-48-4		<4.0	ug/L				U	08/19/10
Copper	7440-50-8		<4.0	ug/L				U	08/19/10
Vanadium	7440-62-2		<12	ug/L				U	08/19/10
Zinc	7440-66-6		<6.0	ug/L				U	08/19/10
Calcium	7440-70-2		<39	ug/L				U	08/19/10
Strontium	7440-24-6		<4.0	ug/L				U	08/19/10
Beryllium	7440-41-7		<4.0	ug/L				U	08/19/10

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS			**QC Sample #33803**							
Iron	7439-89-6		1050	ug/L	105	80 - 120				08/19/10
Magnesium	7439-95-4		1050	ug/L	105	80 - 120				08/19/10
Manganese	7439-96-5		1030	ug/L	103	80 - 120				08/19/10
Nickel	7440-02-0		1040	ug/L	104	80 - 120				08/19/10
Potassium	7440-09-7		11500	ug/L	115	80 - 120				08/19/10
Silver	7440-22-4		1040	ug/L	104	80 - 120				08/19/10
Sodium	7440-23-5		1200	ug/L	120	80 - 120				08/19/10
Antimony	7440-36-0		1090	ug/L	109	80 - 120				08/19/10
Barium	7440-39-3		531	ug/L	106.2	80 - 120				08/19/10
Cadmium	7440-43-9		1060	ug/L	106	80 - 120				08/19/10
Chromium	7440-47-3		1050	ug/L	105	80 - 120				08/19/10
Cobalt	7440-48-4		1080	ug/L	108	80 - 120				08/19/10
Copper	7440-50-8		1090	ug/L	109	80 - 120				08/19/10
Vanadium	7440-62-2		1030	ug/L	103	80 - 120				08/19/10
Zinc	7440-66-6		1110	ug/L	111	80 - 120				08/19/10
Calcium	7440-70-2		1090	ug/L	109	80 - 120				08/19/10
Strontium	7440-24-6		542	ug/L	108.4	80 - 120				08/19/10
Beryllium	7440-41-7		565	ug/L	113	80 - 120				08/19/10
MS			**QC Sample #33804**							
			Original 101773005							
Iron	7439-89-6		1020	ug/L	102	75 - 125				08/19/10
Magnesium	7439-95-4		1000	ug/L	100	75 - 125			X	08/19/10
Manganese	7439-96-5		995	ug/L	99.5	75 - 125				08/19/10

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
Nickel	7440-02-0		1000	ug/L	100	75 - 125					08/19/10
Potassium	7440-09-7		11300	ug/L	113.1	75 - 125					08/19/10
Silver	7440-22-4		34.0	ug/L	3.4	75 - 125				N	08/19/10
Sodium	7440-23-5		1000	ug/L	100	75 - 125				X	08/19/10
Antimony	7440-36-0		1060	ug/L	106	75 - 125					08/19/10
Barium	7440-39-3		518	ug/L	103.6	75 - 125					08/19/10
Cadmium	7440-43-9		1030	ug/L	103	75 - 125					08/19/10
Chromium	7440-47-3		993	ug/L	99.3	75 - 125					08/19/10
Cobalt	7440-48-4		1010	ug/L	101	75 - 125					08/19/10
Copper	7440-50-8		1030	ug/L	103	75 - 125					08/19/10
Vanadium	7440-62-2		999	ug/L	99.9	75 - 125					08/19/10
Zinc	7440-66-6		1070	ug/L	107	75 - 125					08/19/10
Calcium	7440-70-2		1100	ug/L	110	75 - 125				X	08/19/10
Strontium	7440-24-6		520	ug/L	104	75 - 125					08/19/10
Beryllium	7440-41-7		537	ug/L	107.4	75 - 125					08/19/10
MSD			**QC Sample #33805**								
			Original 101773005						**Paired**	**33804**	
Iron	7439-89-6		1010	ug/L	101	75 - 125	1.00	20			08/19/10
Magnesium	7439-95-4		900	ug/L	90	75 - 125	10.50	20		X	08/19/10
Manganese	7439-96-5		995	ug/L	99.5	75 - 125	0.00	20			08/19/10
Nickel	7440-02-0		1010	ug/L	101	75 - 125	1.00	20			08/19/10
Potassium	7440-09-7		11300	ug/L	113.1	75 - 125	0.00	20			08/19/10
Silver	7440-22-4		91.0	ug/L	9.1	75 - 125	91.20	20	*	N	08/19/10
Sodium	7440-23-5		800	ug/L	80	75 - 125	22.20	20	*	X	08/19/10
Antimony	7440-36-0		1070	ug/L	107	75 - 125	0.90	20			08/19/10

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Barium	7440-39-3		515	ug/L	103	75 - 125	0.60	20		08/19/10
Cadmium	7440-43-9		1030	ug/L	103	75 - 125	0.00	20		08/19/10
Chromium	7440-47-3		989	ug/L	98.9	75 - 125	0.40	20		08/19/10
Cobalt	7440-48-4		1020	ug/L	102	75 - 125	1.00	20		08/19/10
Copper	7440-50-8		1040	ug/L	104	75 - 125	1.00	20		08/19/10
Vanadium	7440-62-2		1000	ug/L	100	75 - 125	0.10	20		08/19/10
Zinc	7440-66-6		1070	ug/L	107	75 - 125	0.00	20		08/19/10
Calcium	7440-70-2		1200	ug/L	120	75 - 125	8.70	20	X	08/19/10
Strontium	7440-24-6		521	ug/L	104.2	75 - 125	0.20	20		08/19/10
Beryllium	7440-41-7		538	ug/L	107.6	75 - 125	0.20	20		08/19/10

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

QC Batch 145077
Associated Samples 101774004, 101774005

Test Anions by Ion Chromatography (Water)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #33866**							
Fluoride	16984-48-8		<0.030	ug/mL					U	07/20/10
Chloride	16887-00-6		<0.043	ug/mL					U	07/20/10
Nitrite-N	NO2-N		<0.018	ug/mL					U	07/20/10
Nitrate-N	NO3-N		<0.031	ug/mL					U	07/20/10
Sulfate	14808-79-8		<0.066	ug/mL					U	07/20/10
LCS			**QC Sample #33867**							
Fluoride	16984-48-8		0.909	ug/mL	91.8	90 - 110				07/20/10
Chloride	16887-00-6		1.94	ug/mL	98	90 - 110				07/20/10
Nitrite-N	NO2-N		0.991	ug/mL	101.3	90 - 110				07/20/10
Nitrate-N	NO3-N		0.863	ug/mL	97.5	90 - 110				07/20/10
Sulfate	14808-79-8		3.83	ug/mL	97.5	90 - 110				07/20/10
DUP			**QC Sample #33868**							
			Original 101769001							
Fluoride	16984-48-8		<0.060	ug/mL			13.20	20	UD	07/20/10
Chloride	16887-00-6		6.17	ug/mL			1.10	20	D	07/20/10
Nitrite-N	NO2-N		<0.036	ug/mL			0.00	20	UD	07/20/10
Nitrate-N	NO3-N		2.87	ug/mL			0.30	20	D	07/20/10
Sulfate	14808-79-8		25.6	ug/mL			1.60	20	D	07/20/10

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
MS			**QC Sample #33869**							
			Original	**101769001**						
Fluoride	16984-48-8		0.917	ug/mL	91.7	80 - 120			D	07/20/10
Chloride	16887-00-6		1.85	ug/mL	92.3	80 - 120			D	07/20/10
Nitrite-N	NO2-N		1.06	ug/mL	107.7	80 - 120			D	07/20/10
Nitrate-N	NO3-N		0.802	ug/mL	89.6	80 - 120			D	07/20/10
Sulfate	14808-79-8		3.52	ug/mL	88.8	80 - 120			D	07/20/10
MSD			**QC Sample #33870**							
			Original	**101769001**				**Paired**	**33869**	
Fluoride	16984-48-8		0.968	ug/mL	96.8	80 - 120	5.40	20	D	07/20/10
Chloride	16887-00-6		1.82	ug/mL	91.1	80 - 120	1.30	20	D	07/20/10
Nitrite-N	NO2-N		1.04	ug/mL	105.5	80 - 120	2.10	20	D	07/20/10
Nitrate-N	NO3-N		0.759	ug/mL	84.9	80 - 120	5.40	20	D	07/20/10
Sulfate	14808-79-8		3.36	ug/mL	84.8	80 - 120	4.60	20	D	07/20/10

Quality Control Report

Attention Michael Neely
Department Inorganic

Group # WSCF101774

QC Batch 147781
Associated Samples 101774003

Test ICP-2008 MS All possible metal

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #34557**							
Uranium	7440-61-1		<0.050	ug/L					U	07/30/10
LCS			**QC Sample #34558**							
Uranium	7440-61-1		37.7	ug/L	94.2	85 - 115				07/30/10
MS			**QC Sample #34559**							
			Original 101773008							
Uranium	7440-61-1		31.2	ug/L	78	70 - 130				07/30/10
MSD			**QC Sample #34560**							
			Original 101773008					**Paired**	**34559**	
Uranium	7440-61-1		32.0	ug/L	80.1	70 - 130	2.70	20		07/30/10

Quality Control Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF101774

QC Batch 144575
Associated Samples 101774001, 101774002, 101774003

Test SW-846 8260B Volatiles, separate prep

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #101774001**							
1,2-Dichloroethane-d4	17060-07-0				114.8	75 - 125				07/21/10
Toluene-d8	2037-26-5				114.2	75 - 125				07/21/10
4-Bromofluorobenzene	460-00-4				113.8	75 - 125				07/21/10
SAMPLE			**Sample #101774002**							
1,2-Dichloroethane-d4	17060-07-0				113.7	75 - 125				07/21/10
Toluene-d8	2037-26-5				112.5	75 - 125				07/21/10
4-Bromofluorobenzene	460-00-4				114.7	75 - 125				07/21/10
SAMPLE			**Sample #101774003**							
1,2-Dichloroethane-d4	17060-07-0				114.4	75 - 125				07/21/10
Toluene-d8	2037-26-5				113.8	75 - 125				07/21/10
4-Bromofluorobenzene	460-00-4				115	75 - 125				07/21/10
BLANK			**QC Sample #33770**							
1,2-Dichloroethane-d4	17060-07-0				111.4	75 - 125				07/21/10
Toluene-d8	2037-26-5				111.6	75 - 125				07/21/10

Quality Control Report

Attention Michael Neely
Department Organic, Volatiles

Group # WSCF101774

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
4-Bromofluorobenzene	460-00-4				112.5	75 - 125				07/21/10
LCS			**QC Sample #33771**							
1,2-Dichloroethane-d4	17060-07-0				112.8	75 - 125				07/21/10
Toluene-d8	2037-26-5				111.8	75 - 125				07/21/10
4-Bromofluorobenzene	460-00-4				113.7	75 - 125				07/21/10
MS			**QC Sample #33772**							
			Original	**101770001**						
1,2-Dichloroethane-d4	17060-07-0				111.6	75 - 125				07/21/10
Toluene-d8	2037-26-5				112.3	75 - 125				07/21/10
4-Bromofluorobenzene	460-00-4				114.3	75 - 125				07/21/10
MSD			**QC Sample #33773**							
			Original	**101770001**					**Paired**	**33772**
1,2-Dichloroethane-d4	17060-07-0				114.1	75 - 125	2.20	20		07/21/10
Toluene-d8	2037-26-5				113	75 - 125	0.60	20		07/21/10
4-Bromofluorobenzene	460-00-4				114.1	75 - 125	0.20	20		07/21/10

Analytical Comment Report

Attention: Michael Neely **Group #** WSCF101774

Quality Control Comments

Department Inorganic

33804 B266X5(101773005MS)

Analyte Calcium - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Magnesium - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Sodium - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

33805 B266X5(101773005MSD)

Analyte Calcium - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Magnesium - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Sodium - ICP-6010 - All possible metals
[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 12 pages
Including cover page

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGEMENT OF SAMPLES RECEIVED

WSCF Laboratory
PO Box 650 S3-30
Richland, WA 99352

ATTN: Michael Neely

Customer Code: CHPRC
PO #: 401647
Work Order #: 101774
Profile #: W10-007-236
Proj. Mgr.:
Phone:

The following samples were received from you on 7/20/2010 1:30:00 PM. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample #	Sample ID	Matrix	Collected	Received
		Tests scheduled		
101774001	B268C7	WATER	7/20/2010 08:48	7/20/2010 13:30
		8260V-W		
101774002	B269C3	WATER	7/20/2010 08:48	7/20/2010 13:30
		8260V-W		
101774003	B268C9	WATER	7/20/2010 10:21	7/20/2010 13:30
		2008-W; 8260V-W		
101774004	B269L2	WATER	7/20/2010 09:25	7/20/2010 14:00
		IC-W		
101774005	B269L3	WATER	7/20/2010 08:40	7/20/2010 14:00
		IC-W		
101774006	B269L4	WATER	7/20/2010 11:01	7/20/2010 14:00
		IC-W		
101774007	B269J9	WATER	7/20/2010 08:40	7/20/2010 14:00
		6010-W		
101774008	B269K0	WATER	7/20/2010 08:40	7/20/2010 14:00
		6010-W		
101774009	B269K2	WATER	7/20/2010 11:01	7/20/2010 14:00
		6010-W		
101774010	B269K3	WATER	7/20/2010 11:01	7/20/2010 14:00
		6010-W		
101774011	B269J6	WATER	7/20/2010 09:25	7/20/2010 14:00

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

6010-W

101774012	B269J7	WATER	7/20/2010 09:25	7/20/2010 14:00

6010-W

Test Acronym Description

Test Acronym	Description
2008-W	ICP-MS (W)
6010-W	ICP-AES (W)
8260V-W	Volatiles by 8260B (W)
IC-W	Anions by IC (W)

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

COC #: W10-007-236

Page 1 of 1

Collector: D. R. Williamson, CHPRC	Contact/Requester: Karen Waters-Haefel	Telephone No.: 376-8650
SAF No.: WE-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 3928715520
Project Title: RCRA July 2010	Logbook No.: HNF-N-506 32/35	Ice Chest No.: N/A
Shipment To: 1420	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Waste Services & Characterization		
Protocol: RCRA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** Contain Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not allowable per DOE Order 5820.2A (96-1993).

101774

SPECIAL INSTRUCTIONS: Bold Time. Total Activity Fractionation: Yes ☑ No ☐
See Waste Generator Knowledge Information Form applies.
The COC for all analytical work is WSC SS-4004P.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
8268C7	N	W	7-20-10	1040	3x40-mL, sGs*	8260_VOA_GCMS: List-2 (25)	14 Days	HCl or H2SO4 to pH <2 Cool~4C
8268C7	N	W			1x20-mL, P	Activity Scan	6 Months	None

Relinquished By	Date/Time	Received By	Date/Time
D. R. Williamson, CHPRC — Sign	JUL 20 2010 1330	Victor Simms — Sign	JUL 20 2010 1330
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *
S = Soil; SE = Sediment; SD = Solid; SL = Sludge; W = Water; C = Oil; A = Air; DS = Drum Solid; DL = Drum Liquid; T = Tissue; WI = Wipe; L = Liquid; V = Vegetation; X = Other

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

A-6004-342 (05/10)

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W10-007-422 Page 1 of 1

Collector: D. R. Williamson, CHPRC	Contact/Requester: Karen Waters/Hanford	Telephone No.: 376-0150
SAF No.: W10-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 106STIES26
Project Title: RCRA, July 2010	Logbook No.: HNF-N-586 32135	Ice Chest No.: N/A
Shipped To/Lab: Waste Sampling & Characterization	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: RCRA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not exempt per DOE/Order 5480.3 (1988/1991).

SPECIAL INSTRUCTIONS: Hold Time — Total Activity Exemption: Yes ✓ No
See Waste Generator Knowledge Information Form applies.
The DACN for all analytical work is 8/8/2 is attached.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
8269C3	N ✓	W	7-20-10	0810	3040-mL, amber	8260_VOA_GC/MS_List-2 (25)	14 Days	HCl or H2SO4 to pH <2 Cool<4C
8269C3	N ✓	W	↓	↓	1120-mL, P	Activity Scan	6 Months	None

Relinquished By	Date/Time	Received By	Date/Time
D. R. Williamson, CHPRC	JUL 20 2010 1330		JUL 20 2010 1320
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix *: A = Air; SW = Drum Solid; SP = Drum Liquid; SO = Soil; T = Tissue; SL = Sludge; W = Water; WI = Water; WW = Wastewater; L = Liquid; O = Oil; V = Vegetation; A = Air; X = Other

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

A 6004 842 (05/10)

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#: W10-007-240

Page 1 of 1

Collector: D. R. Williamson CHPRC	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4656
SAF No.: W10-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300021530
Project Title: RCRA 3rd 2010	Logbook No.: HNF-N-566 32/35	Ice Chest No.: N/A
Shipped To (Lab): Pacific Satellite & Characterization	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: RCRA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS: ** * Contain Radioactive Material in quantities that are not regulated for transportation per 49 CFR but are relevant per DOE Order 5400.5 (1990/1993)

SPECIAL INSTRUCTIONS: Hold Time — See Waste Generator Knowledge Information Form applies. The COC/S for all analytical work at WSCF is 42356-7. Total Activity Exemption: Yes ✓ No

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B268C8	N ✓	W	7-20-10	1021	1x500-mL GP	200.8_METALS_(ICPMS: Uranium (1)	6 Months	HNO3 to pH <2
B268C9	N ✓	W	↓	↓	3x40-mL aGs*	8260_VOA_GCMS: List-2 (25)	14 Days	HCl or H2SO4 to pH <2 Cool~4C

Relinquished By	Date/Time	Received By	Date/Time
D. R. Williamson CHPRC (Sign)	JUL 20 2010 1330	(Sign)	JUL 20 2010 1330

Matrix: A = Air, SO = Solid, SE = Sediment, L = Liquid, SL = Sludge, W = Water, SS = Soil, DS = Drum Solid, DL = Drum Liquid, T = Tissue, WI = Wipe, V = Vegetation, O = Other

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to waste stream, per lab procedure, used as preservative) — Disposed By — Date/Time

A-6004-842 (05/10)

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W10-007-351

Page 1 of 1

Collector: RT Sickle CHPRC	Contact/Requester: Karen Waters-Hanford	Telephone No.: 376-4050
SAF No.: W10-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 30000:E510
Project Title: SCRA July 2010	Logbook No.: HNF-N-566 51 / 61	Ice Chest No.: N/A
Shipped To (Lab): Waste Sampling & Characterization	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: SCRA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not exclusion per 10 CFR Parts 830.4 (1996/1997)

SPECIAL INSTRUCTIONS Hold Time
Site Waste Generator Knowledge Information Form Applies
The CHPRC local analytical work of WSCF is 421m5

Total Activity Exemption: Yes ☑ No ☐

Sample No	Filter *		Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
828SL2	N	4	W	7/20/10	5:25	1x500 mL P	300.0_ANIONS_IC_Lab-1 (5)	48 Hours	Cool~4C

Relinquished By: RT Sickle CHPRC — Date/Time: JUL 20 2010	Received By: — Date/Time: 1400 JUL 20 2010	Matrix *
Relinquished By — Date/Time	Received By — Date/Time	S = Soil; SS = Sediment; SL = Sludge; W = Water; O = Oil; A = Air; DS = Drum Solid; DL = Drum Liquid; L = Liquid; V = Vegetation; X = Other
Relinquished By — Date/Time	Received By — Date/Time	
Relinquished By — Date/Time	Received By — Date/Time	
FINAL SAMPLE DISPOSITION: Disposal Method (e.g. Return to contam, to lab, procedure, and/or preserve)	Disposed By	Date/Time

A 6004-842 (06/10)

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #: W10-007-352

Page 1 of 1

Collector: RT Sickle, CHPRC	Contact/Requester: Karen Wooley (Instead)	Telephone No.: 376-1650
SAF No.: W10-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300671E520
Project Title: SCBA, July 2010	Logbook No.: HNF-N-566 31 / 60	Ice Chest No.: N/A
Shipped To (Lab): Water Sampling & Characterization	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: SCBA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** Contains Radioactive Material in concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990-1995)

SPECIAL INSTRUCTIONS Hold Time
Site Wide Generator Knowledge Information Data applies
Use LACN for all analytical work in WSCF is #C1047

Total Activity Exemption: Yes ☐ No ☐

Sample No	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B269L3	N / W	7/20/10	0940	1x500 mL P	300.0_ANIONS_IC, Lab-1 (S)	48 Hours	Cool - 4C

Relinquished By	Date/Time	Received By	Date/Time
RT Sickle, CHPRC	JUL 20 2010	[illegible]	JUL 20 2010
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix: S = Soil; SS = Sediment; SD = Solid; SL = Sludge; W = Water; C = Oil; A = Air; DW = Drinking Water; WW = Wastewater; T = Tissue; L = Liquid; V = Vegetation; X = Other

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to contractor, permit procedure, waste in process) | Disposal By | Date/Time

A-6004-840 (05/10)

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
W10-007-353

Page 1 of 1

Collector: RT Sickle, CHPRC	Contact/Requestor: Karen Wilcox-Hachel	Telephone No.: 375-4659
SAF No.: M19-002	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300XFHS20
Project Title: ISCRA, July 2010	Logbook No.: HNF-N-586 31 101	Ice Chest No.: N/A
Shipped To (Lab): Wash Secretary & Characterization	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: ISCRA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** ** Contains Radioactive Material > concentrations that are not regulated for transportation per 49 CFR but are not allowable per DOE Order 5400.5 (+300/100g)

SPECIAL INSTRUCTIONS Hold Time
See Waste Generator Knowledge Information Form applies
Use CHCM for all analysis work at WSCF & Hanford

Total Activity Exemption Yes ☒ No

Sample No.	Filter	Code	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
525604	N	G	W 7/20/10	1101	1000-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool-4C

Relinquished By: RT Sickle, CHPRC — Date/Time: JUL 20 2010 1400	Received By: [signature] — Date/Time: JUL 20 2010 1400	Matrix *	
Relinquished By: — Date/Time:	Received By: — Date/Time:	S = Soil; SD = Sediment; SL = Sludge; W = Water; O = Oil; A = Air; DS = Drum Solids; DL = Drum Liquid; T = Tissue; WI = Wipe; L = Liquid; V = Vegetation; X = Other	
Relinquished By: — Date/Time:	Received By: — Date/Time:		
Relinquished By: — Date/Time:	Received By: — Date/Time:		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to vendor, per lab procedure, sent to project) — Disposed By: — Date/Time:

A-6004-842 (05/10)

CHPRC	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # W10-007-6 Page 1 of 1

Collector: RT Sickle, CHPRC	Contact/Requester: Karen Weiss/Hunter	Telephone No.: 376-3650
SAF No.: W10-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 109821HS20
Project Title: SCRS, July 2010	Logbook No.: HNF-N-506 31 161	Ice Chest No.: N/A
Shipped To (Lab): Waste Sampling & Characterization	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: SCRA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS
** Contain Radioactive Material in concentrations that are not regulated for transportation per 49 CFR but are not shippable per IATA. Under IAW 5 (1998 IAW)

SPECIAL INSTRUCTIONS: Hold Time — Use Field Generated Knowledge Information for sampling. The CACS level analytical work at WSCF is 0124?

Total Activity Exceptions: Yes ☐ No ☐

Sample No.	Filter *	Matrix *	Date	Time	Sample Container	Sample Analysis	Holding Time	Preservative
B26JJ9	Y 7	W	7/30/10	0346	1x500-mL GP	6010_METALS_ICP List-3 (18)	6 Months	HNO3 to pH <2
B26JK0	N 8	W	↓	↓	1x500-mL GP	6010_METALS_ICP List-3 (18)	6 Months	HNO3 to pH <2

Relinquished By	Date/Time	Received By	Date/Time
RT Sickle, CHPRC	JUL 28 2010 1400		JUL 28 2010 1400

Matrix *: Soil, Sediment, Solid, Sludge, Water, Oil, Air, Drum Solid, Drum Liquid, Tissue, Wipe, Filter, Vegetation, Other

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

A-6004-842 (05/10)

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #: W10-007-8

Page 1 of 1

Collector: RT Sickle, CHPRC	Contact/Receiver: Karen Waters (Field)	Telephone No.: 376-4658
SAF No.: W10-007	Sampling Origin: Hanford Site	Purchase Order/Charge Code: [illegible]
Project Title: RCRA July 2010	Logbook No.: HNF-N-506 31 : 61	Ice Chest No.: N/A
Signed Doc# ahl: Waste Sampling & Characterization	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Treated: RCRA	Priority: 45 Days	Offsite Property No.: N/A

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 (10/21/93)

SPECIAL INSTRUCTIONS: Hold Time — Total Activity Exceeding: Yes ✓ No
Site Wide Concrete Knowledge Information Form applies.
The CACR for all methanol work at WSCF is 45ml?

Sample No.	Filter *		Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25W2	Y	9	W	7/26/10	1100	1x500-mL G/P	6010_METALS_ICP_List-3 (18)	6 Months	HNO3 to pH <2
B26W3	N	10	W	✓	✓	1x500-mL G/P	6010_METALS_ICP_List-3 (18)	6 Months	HNO3 to pH <2

Relinquished By	Date/Time	Received By	Date/Time
RT Sickle, CHPRC	JUL 28 2010	[illegible]	JUL 28 2010
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix*: S = Soil; SE = Sediment; SO = Solid; W = Water; DW = Drinking Water; WW = Wastewater; O = Oil; A = Air; DS = Drum Solid; DL = Drum Liquid; T = Tissue; WI = Wipe; L = Liquid; SL = Sludge; X = Other

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Waste treatment, per lab procedure, used in process) — Disposed By — Date/Time

A-6004-847 (05/10)

CHPRC

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.#: W10-007-4

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Collector: RT Sickle, CHPRC	Contact/Requester: Karen Watson/Husted	Telephone No.: 372-4623
SAF No.: WH-267	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300270.520
Project Title: RCRA, July 2010	Logbook No.: HNF-N-506 31 161	Ice Chest No.: N/A
Shipped To (Lab): Waste Sampling & Characterization	Method of Shipment: Government Vehicle	Bill of Lading/Air Bill No.: N/A
Protocol: RCRA	Priority: 45 Days	Offsite Property No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS: ** ** Contains Radioactive Material or suspection that are not required for transportation per 49 CFR but are not accessible per DOE Order 5480.3 (3/30/1990)

SPECIAL INSTRUCTIONS: Hold Time. Site Wide Geospatial Knowledge information Form applies. The CACR for all analytical work at WSCF is 40-047. Total Activity Exemption: Yes ✓ No

Sample No.	Filtered	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B25J36	Y	W	7/20/10	0925	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B25BJ7	N	W	↓	↓	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2

Relinquished By	Date/Time	Received By	Date/Time
RT Sickle, CHPRC	JUL 20 2010	V. Chandler	JUL 20 2010 1408
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

Matrix*: S = Soil; SD = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air; DW = Drum Solid; DL = Drum Liquid; T = Tissue; BT = Wipe; L = Liquid; V = Vegetation; X = Other

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to originator, per lab procedure, send to parent) | Disposed By | Date/Time

A-6004-542 (05/10)