

DECEMBER 12, 2012

WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352



December 12, 2012

Scot Fitzgerald
CH2M-HILL PRC
PO Box 1600
Richland, WA 99352

Dear Scot Fitzgerald,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF121448

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

This letter contains the following information for sample delivery group WSCF121448

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

Very truly yours,

A handwritten signature in black ink, appearing to read "Dan T. Smith".

Electronically signed by Joseph Hale
For Lab Manager, Dan T. Smith
WSCF Analytical Lab
(509) 373-4804

Attachments 4

CC: w/Attachments

File/LB

DECEMBER 12, 2012

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF121448
Data Deliverable Date 12/13/12

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
W13-011	B2MN43	121448001	WATER	11/12/12	11/12/12
W13-011	B2MN48	121448002	WATER	11/12/12	11/12/12
W13-011	B2MN76	121448003	WATER	11/12/12	11/12/12
X13-002	B2N2P2	121448004	WATER	11/12/12	11/12/12
W13-011	B2MN77	121448005	WATER	11/12/12	11/12/12
W13-011	B2MN49	121448006	WATER	11/12/12	11/12/12
W13-011	B2MN44	121448007	WATER	11/12/12	11/12/12
W13-011	B2MN75	121448008	WATER	11/12/12	11/12/12
W13-011	B2MN47	121448009	WATER	11/12/12	11/12/12
W13-011	B2MN42	121448010	WATER	11/12/12	11/12/12

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ATTACHMENT 2

NARRATIVE

Consisting of 6 pages
Including cover page

Introduction

Samples were received at the WSCF laboratory as referenced on the WSCF SAF Number Cross Reference table included in the final report. 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), Master Contract 39818, Revision 3, "Laboratory Analytical Services to CHPRC Soil and Groundwater Remediation Project."*

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.

- Sample Issue Resolution Form SDR13-012 regarding Hexachlorophene analysis is attached to this report.
- Sample Issue Resolution Form SDR13-030 regarding VOA analytical list is attached to this report.

The following generic data qualifiers (i.e., B, C, D, J and U) 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.
- **C** – Analyte was detected in the blank and was evaluated. Affected sample results in the batch were C flagged (applies to inorganic and wet chemical analyses).
- **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.
- **B (organic analyses)** – Analyte was detected in the blank and was evaluated. Affected sample results in the batch were B flagged.
- **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):

- Chloride, Nitrate and Sulfate – Exceeded spiking levels by a factor of 4. Spike recoveries and associated RPDs are not valid.
- All other applicable QC controls are within the established limits.

Cyanide – 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):

- All applicable QC controls are within the established limits.

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):

- Calcium and Sodium were detected in the Blank and evaluated.
- All other applicable 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):

- All applicable QC controls are within the established limits.

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

- All applicable QC controls are within the established limits.

Organic Comments

Semi-VOA – 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):

- 3,3'-Dichlorobenzidine did not meet the LCS / LCSD RPD acceptance limits. Sample results for this analyte were not flagged. The quality control report was flagged for RPD failure.

Attachment 2
Narrative
WSCF121448

- All other applicable QC controls are within the established limits.

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):

- All applicable 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 2
Narrative
WSCF121448

SAMPLE ISSUE RESOLUTION

SIR NUM SDR13-012
REV NUM 1
DATE INITIATED 10/15/2012

SAMPLE EVENT INFORMATION

SAF NUM(S) W13-010

OPERABLE UNIT(S)

PROJECT(S) RCRA13

SAMPLE EVENT TITLE(S) RCRA13

LABORATORY Waste Sampling & Characterization

SAMPLING INFORMATION

NUMBER OF SAMPLES 18

SAMPLE NUMBERS B2M171, B2M129, B2M135, B2M165, B2M123, B2M177, B2M9W6, B2M0Y3, B2M0Y9, B2M141, B2M147, B2M153, B2M159, B2M111, B2M194, B2M105, B2M117, B2M180, B2M183, B2MN99, B2MNB5, B2MN81, B2MN82, B2MN94, B2MN71, B2MN57, B2MN32, B2MN52, B2MN89, B2MNCO, B2MXL9, B2MN75, B2MN47, B2MN42, B2MXM8, B2MXN9, B2MXN8, B2MXM7, B2MN63, B2MN64

SAMPLE MATRIX WATER

COLLECTION DATE 10/3/2012 - 11/30/2012

SDG NUM WSCF121223, WSCF121226, WSCF121230, WSCF121232, WSCF121239, WSCF121241, WSCF121242, WSCF121274, WSCF121275, WSCF121284, WSCF121303, WSCF121398, WSCF121401, WSCF121402, WSCF121404, WSCF121439, WSCF121448, WSCF121450, WSCF121456

ISSUE BACKGROUND

CLASS Laboratory Issue

TYPE Cancellation of Analyses

DESCRIPTION WSCF is not currently calibrated for Hexachlorophene by 8270. The compound is polar thus it sticks to the columns. Therefore, it is not able to be routinely measure in the extract. In order to be able to report the compound it would need to be derivatized. WSCF is currently not setup to derivatize Hexachlorophene.

DISPOSITION

DESCRIPTION PROPOSED DISPOSITION: Report the data without Hexachlorophene and note issue in narrative.

JUSTIFICATION ACCEPTED DISPOSITION: Accept proposed resolution and request that WSCF send a weekly update of any further SDGs that are affected to be added to this SIR.

SUBMITTED BY: Heather Medley/WSCF DATE: 10/15/12
ACCEPTED BY: Karen Waters-Husted/CHPRC DATE: 10/16/12

Attachment 2
Narrative
WSCF121448

SAMPLE ISSUE RESOLUTION

SIR NUM SDR13-030
REV NUM 0
DATE INITIATED 11/2/2012

SAMPLE EVENT INFORMATION

SAF NUM(S) W13-011
OPERABLE UNIT(S) NONE
PROJECT(S) RCRA13
SAMPLE EVENT TITLE(S) RCRA13
LABORATORY Waste Sampling & Characterization

SAMPLING INFORMATION

NUMBER OF SAMPLES 11
SAMPLE NUMBERS B2MN32, B2MN52, B2MN57, B2MN71, B2MN81, B2MN82, B2MN89, B2MN94, B2MN99, B2MNB5, B2MNCO, B2MNX8, B2MNX9, B2MP16, B2MP30, B2MP41, B2MP22, B2MP23, B2MXL9, B2MN75, B2MN47, B2MN42, B2MXM8, B2MXN9, B2MXN8, B2MXM7, B2MN63, B2MN64, B2MP06, B2MP07
SAMPLE MATRIX WATER
COLLECTION DATE -
SDG NUM WSCF121398, WSCF121401, WSCF121402, WSCF121404, WSCF121411, WSCF121419, WSCF121437, WSCF121439, WSCF121448, WSCF121450, WSCF121456

ISSUE BACKGROUND

CLASS General Laboratory Direction
TYPE Clarification of Direction
DESCRIPTION The chain of custodies requested service 8260_VOA_GCMS_IX: COMMON. The SAF also requests some of the add-on for 8260_VOA_GCMS_IX: COMMON Add-ons

DISPOSITION

DESCRIPTION PROPOSED DISPOSITION: Please confirm the service lists/analytes that need to be reported.
JUSTIFICATION ACCEPTED DISPOSITION: Use the full list under the "COMMON" service list and add ons, as provided by Doris

SUBMITTED BY: Heather Medley/WSCF DATE: 11/2/12

DECEMBER 12, 2012

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 110 pages
Including cover page

DECEMBER 12, 2012

WSCF ANALYTICAL RESULTS REPORT

For

CH2M Hill Plateau Remediation

PO Box 1600
Richland, WA 99352

Attention: Scot Fitzgerald

Contract # MOA-FH-CHPRC-2008
Group # WSCF121448
Report Date December 12, 2012

Analytical: Electronically signed by Joseph Hale

Client Services: Electronically signed by Marisol Avila

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) 373-7005. Information designation of this report is the responsibility of the customer.

Batch QC List

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121448

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
210216	210216	2	BLANK	84839	BLANK		Anions by Ion Chromatography (Water)
210216	210216	3	LCS	84840	LCS		Anions by Ion Chromatography (Water)
210216	210216	4	DUP	84841	B2MXP1(121449004DUP	121449004	Anions by Ion Chromatography (Water)
210216	210216	5	MS	84842	B2MXP1(121449004MS)	121449004	Anions by Ion Chromatography (Water)
210216	210216	6	MSD	84843	B2MXP1(121449004MSD	121449004	Anions by Ion Chromatography (Water)
210216	210216	8	SAMPLE	121448001	B2MN43		Anions by Ion Chromatography (Water)
210216	210216	9	SAMPLE	121448001	B2MN43		Anions by Ion Chromatography (Water)
210216	210216	10	SAMPLE	121448002	B2MN48		Anions by Ion Chromatography (Water)
210216	210216	11	SAMPLE	121448002	B2MN48		Anions by Ion Chromatography (Water)
210216	210216	12	SAMPLE	121448003	B2MN76		Anions by Ion Chromatography (Water)
210216	210216	13	SAMPLE	121448003	B2MN76		Anions by Ion Chromatography (Water)
210746	210922	5	BLANK	85447	BLANK		ICP-6010 - All possible metals
210746	210922	7	LCS	85449	LCS		ICP-6010 - All possible metals
210746	210922	9	MS	85450	B2MMW5(121446004MS)	121446004	ICP-6010 - All possible metals
210746	210922	10	MSD	85451	B2MMW5(121446004MS)	121446004	ICP-6010 - All possible metals
210746	210922	19	SAMPLE	121448005	B2MN77		ICP-6010 - All possible metals
210746	210922	22	SAMPLE	121448006	B2MN49		ICP-6010 - All possible metals
210746	210922	23	SAMPLE	121448007	B2MN44		ICP-6010 - All possible metals
210746	210922	24	SAMPLE	121448008	B2MN75		ICP-6010 - All possible metals
210746	210922	25	SAMPLE	121448009	B2MN47		ICP-6010 - All possible metals
210746	210922	26	SAMPLE	121448010	B2MN42		ICP-6010 - All possible metals
210947	211021	4	BLANK	85772	BLANK		ICP-2008 MS All possible metal
210947	211021	5	LCS	85773	LCS		ICP-2008 MS All possible metal

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Batch QC List

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
210947	211021	6	SAMPLE	121448005	B2MN77		ICP-2008 MS All possible metal
210947	211021	7	MS	85774	B2MN77(121448005MS)	121448005	ICP-2008 MS All possible metal
210947	211021	8	MSD	85775	B2MN77(121448005MSD)	121448005	ICP-2008 MS All possible metal
211122	211289	4	BLANK	85827	BLANK		ICP-2008 MS All possible metal
211122	211289	5	LCS	85828	LCS		ICP-2008 MS All possible metal
211122	211289	6	SAMPLE	121448006	B2MN49		ICP-2008 MS All possible metal
211122	211289	7	MS	85829	B2MN49(121448006MS)	121448006	ICP-2008 MS All possible metal
211122	211289	8	MSD	85830	B2MN49(121448006MSD)	121448006	ICP-2008 MS All possible metal
211122	211289	9	SAMPLE	121448007	B2MN44		ICP-2008 MS All possible metal
211122	211289	10	SAMPLE	121448008	B2MN75		ICP-2008 MS All possible metal
211122	211289	11	SAMPLE	121448009	B2MN47		ICP-2008 MS All possible metal
211122	211289	12	SAMPLE	121448010	B2MN42		ICP-2008 MS All possible metal

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Batch QC List

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
210318	210418	1	BLANK	85000	BLANK		SW-846 8270D Semivolatiles
210318	210418	2	LCS	85001	LCS		SW-846 8270D Semivolatiles
210318	210418	3	LCSD	85004	LCSD		SW-846 8270D Semivolatiles
210318	210418	4	MS	85002	B2MXL9(121439002MS)	121439002	SW-846 8270D Semivolatiles
210318	210418	5	MSD	85003	B2MXL9(121439002MSD)	121439002	SW-846 8270D Semivolatiles
210318	210418	8	SAMPLE	121448008	B2MN75		SW-846 8270D Semivolatiles
210318	210418	10	SAMPLE	121448009	B2MN47		SW-846 8270D Semivolatiles
210318	210418	11	SAMPLE	121448010	B2MN42		SW-846 8270D Semivolatiles

DECEMBER 12, 2012

Batch QC List

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
210345	210346	1	BLANK	85126	BLANK		SW-846 8260B Volatiles
210345	210346	2	LCS	85127	LCS		SW-846 8260B Volatiles
210345	210346	3	MS	85128	B2MXM8(121450005MS) 121450005		SW-846 8260B Volatiles
210345	210346	4	MSD	85129	B2MXM8(121450005MSD 121450005		SW-846 8260B Volatiles
210345	210346	6	SAMPLE	121448004	B2N2P2		SW-846 8260B Volatiles
210345	210346	7	SAMPLE	121448008	B2MN75		SW-846 8260B Volatiles
210345	210346	9	SAMPLE	121448009	B2MN47		SW-846 8260B Volatiles
210345	210346	10	SAMPLE	121448010	B2MN42		SW-846 8260B Volatiles

Batch QC List

Attention Scot Fitzgerald
 Department Wet Chemistry

Group # WSCF121448

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
210348	210349	1	BLANK	85130	BLANK		Cyanide (W) by Midi/Spectrophotometer
210348	210349	3	LCS	85132	LCS		Cyanide (W) by Midi/Spectrophotometer
210348	210349	4	MS	85133	B2MMC9(121393001MS)	121393001	Cyanide (W) by Midi/Spectrophotometer
210348	210349	5	MSD	85134	B2MMC9(121393001MS)	121393001	Cyanide (W) by Midi/Spectrophotometer
210348	210349	24	SAMPLE	121448008	B2MN75		Cyanide (W) by Midi/Spectrophotometer
210348	210349	25	SAMPLE	121448009	B2MN47		Cyanide (W) by Midi/Spectrophotometer
210348	210349	26	SAMPLE	121448010	B2MN42		Cyanide (W) by Midi/Spectrophotometer
210653	210653	1	LCS	85361	LCS		Total Alkalinity as mg/L CaCO3 (Water)
210653	210653	8	SAMPLE	121448008	B2MN75		Total Alkalinity as mg/L CaCO3 (Water)
210653	210653	9	DUP	85362	B2MN75(121448008DUP)	121448008	Total Alkalinity as mg/L CaCO3 (Water)
210653	210653	10	SAMPLE	121448009	B2MN47		Total Alkalinity as mg/L CaCO3 (Water)
210653	210653	11	SAMPLE	121448010	B2MN42		Total Alkalinity as mg/L CaCO3 (Water)
210653	210653	13	LCS	85363	LCS		Total Alkalinity as mg/L CaCO3 (Water)
210653	210653	19	LCS	85364	LCS		Total Alkalinity as mg/L CaCO3 (Water)

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

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>

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

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-523-456	Semivolatile Sample Analysis by SW-846 Method 8270D		
EPA SW-846	8000B	Determinative Chromagraphic Separations	
EPA SW-846	3510C	Separatory Funnel Liquid-Liquid Extraction	
EPA SW-846	8270D	Semivolatile Organic Compounds by Gas	
EPA SW-846	3545	Pressurized Fluid Extraction (PFE)	
		Chromatography/Mass Spectrometry (GC/MS)	
HEIS	8270_SVOA_GCMS	Semivolatile 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>

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

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
	EPA SW-846	8260B
	HEIS	8260_VOA_GCMS
		Determinative Chromographic Separations
		Volatile Organic Compounds by Gas
		Chromatography/Mass Spectrometry (GC/MS)
		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>

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121448

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-531-411	Alkalinity		
SM	2320	Alkalinity	
HEIS	2320_ALKALINITY	Alkalinity	
LA-695-402 Determination of Cyanide by Mididistillation and			
EPA	SW-846 Method 9014/9010	Determination of Cyanide by	
		Midi-Distillation and Spectrophotometric Analysis	
SM	4500 CNE	Cyanide, Total	
HEIS	4500E_CN	Cyanide, Total	

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>

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample # 121448001
SAF# W13-011
Sample ID B2MN43

Matrix WATER
Sampled 11/12/12
Received 11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
11/12/12										
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	D	0.173		ug/mL	2	0.046	0.14	11/12/12
Chloride	16887-00-6	LA-533-410	D	23.7		ug/mL	2	0.12	0.81	11/12/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/12/12
Nitrate-N	NO3-N	LA-533-410	D	63.6		ug/mL	10	0.19	0.99	11/12/12
Sulfate	14808-79-8	LA-533-410	D	122		ug/mL	2	0.22	2.1	11/12/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)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.

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample # 121448002
SAF# W13-011
Sample ID B2MN48

Matrix WATER
Sampled 11/12/12
Received 11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
11/12/12										
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	D	0.208		ug/mL	2	0.046	0.14	11/12/12
Chloride	16887-00-6	LA-533-410	D	21.1		ug/mL	2	0.12	0.81	11/12/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/12/12
Nitrate-N	NO3-N	LA-533-410	D	41.0		ug/mL	10	0.19	0.99	11/12/12
Sulfate	14808-79-8	LA-533-410	D	118		ug/mL	2	0.22	2.1	11/12/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)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.

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample # 121448003
SAF# W13-011
Sample ID B2MN76

Matrix WATER
Sampled 11/12/12
Received 11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
11/12/12										
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	D	0.380		ug/mL	2	0.046	0.14	11/12/12
Chloride	16887-00-6	LA-533-410	D	36.5		ug/mL	2	0.12	0.81	11/12/12
Nitrite-N	NO2-N	LA-533-410	UD	<0.038		ug/mL	2	0.038	0.20	11/12/12
Nitrate-N	NO3-N	LA-533-410	D	189		ug/mL	20	0.38	2.0	11/12/12
Sulfate	14808-79-8	LA-533-410	D	197		ug/mL	20	2.2	21	11/12/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)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.

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample # 121448005
SAF# W13-011
Sample ID B2MN77

Matrix WATER
Sampled 11/12/12
Received 11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										11/28/12
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411		307		ug/L	1	19	95	11/29/12
Magnesium	7439-95-4	LA-505-411		42500		ug/L	1	4.0	20	11/29/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Potassium	7440-09-7	LA-505-411		12900		ug/L	1	76	380	11/29/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Sodium	7440-23-5	LA-505-411		1.71E5		ug/L	1	10	50	11/29/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	11/29/12
Barium	7440-39-3	LA-505-411		104		ug/L	1	4.0	20	11/29/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Chromium	7440-47-3	LA-505-411	B	18.5		ug/L	1	5.0	25	11/29/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Vanadium	7440-62-2	LA-505-411	B	5.80		ug/L	1	5.0	25	11/29/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	11/29/12
Calcium	7440-70-2	LA-505-411		1.56E5		ug/L	1	49	240	11/29/12
Strontium	7440-24-6	LA-505-411		816		ug/L	1	9.0	45	11/29/12

MDL = Minimum Detection Limit

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)

U - Analyzed for but not detected above limiting criteria.

RQ = Result Qualifier

C - Analyte was found in the Associated Blank. (Inorganic)

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

TP Err = Total Propagated Error

D - Analyte was reported at a secondary dilution factor.

PQL is equivalent to Estimated Quantitation Limit (EQL)

DF = Dilution Factor

E - Analyte is an estimate, see comment section.

o - LCS recovery outside established laboratory acceptance limits.

+ - Indicates more than nine qualifier

N - MS and/or MSD recovery outside control limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample # 121448005
SAF# W13-011
Sample ID B2MN77

Matrix WATER
Sampled 11/12/12
Received 11/12/12

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	11/29/12
ICPMS Prep (W)										
ICP-2008 MS All possible metal										
Antimony	7440-36-0	LA-505-412	U	<0.30		ug/L	1	0.30	3.0	11/30/12
Lead	7439-92-1	LA-505-412	B	0.210		ug/L	1	0.050	0.50	11/30/12
Mercury	7439-97-6	LA-505-412		0.508		ug/L	1	0.050	0.20	11/30/12
Thallium	7440-28-0	LA-505-412	U	<0.050		ug/L	1	0.050	0.50	11/30/12
Tin	7440-31-5	LA-505-412	B	0.374		ug/L	1	0.050	0.50	11/30/12
Arsenic	7440-38-2	LA-505-412		7.28		ug/L	1	0.20	2.0	11/30/12
Selenium	7782-49-2	LA-505-412		10.7		ug/L	1	1.0	10	11/30/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)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.

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample # 121448006
SAF# W13-011
Sample ID B2MN49

Matrix WATER
Sampled 11/12/12
Received 11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										11/28/12
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	B	44.8		ug/L	1	19	95	11/29/12
Magnesium	7439-95-4	LA-505-411		26100		ug/L	1	4.0	20	11/29/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Potassium	7440-09-7	LA-505-411		9780		ug/L	1	76	380	11/29/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Sodium	7440-23-5	LA-505-411		34300		ug/L	1	10	50	11/29/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	11/29/12
Barium	7440-39-3	LA-505-411		95.5		ug/L	1	4.0	20	11/29/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Chromium	7440-47-3	LA-505-411	B	7.40		ug/L	1	5.0	25	11/29/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Vanadium	7440-62-2	LA-505-411	B	10.9		ug/L	1	5.0	25	11/29/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	11/29/12
Calcium	7440-70-2	LA-505-411		88300		ug/L	1	49	240	11/29/12
Strontium	7440-24-6	LA-505-411		424		ug/L	1	9.0	45	11/29/12

MDL = Minimum Detection Limit

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)

U - Analyzed for but not detected above limiting criteria.

RQ = Result Qualifier

C - Analyte was found in the Associated Blank. (Inorganic)

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

TP Err = Total Propagated Error

D - Analyte was reported at a secondary dilution factor.

PQL is equivalent to Estimated Quantitation Limit (EQL)

DF = Dilution Factor

E - Analyte is an estimate, see comment section.

o - LCS recovery outside established laboratory acceptance limits.

+ - Indicates more than nine qualifier

N - MS and/or MSD recovery outside control limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample # 121448006
SAF# W13-011
Sample ID B2MN49

Matrix WATER
Sampled 11/12/12
Received 11/12/12

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	11/29/12
ICPMS Prep (W)										
ICP-2008 MS All possible metal										
Antimony	7440-36-0	LA-505-412	U	<0.30		ug/L	1	0.30	3.0	12/10/12
Lead	7439-92-1	LA-505-412	B	0.214		ug/L	1	0.050	0.50	12/10/12
Mercury	7439-97-6	LA-505-412	U	<0.050		ug/L	1	0.050	0.20	12/10/12
Thallium	7440-28-0	LA-505-412	U	<0.050		ug/L	1	0.050	0.50	12/10/12
Tin	7440-31-5	LA-505-412		0.663		ug/L	1	0.050	0.50	12/10/12
Arsenic	7440-38-2	LA-505-412		4.90		ug/L	1	0.20	2.0	12/10/12
Selenium	7782-49-2	LA-505-412	B	7.16		ug/L	1	1.0	10	12/10/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)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.

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample # 121448007
SAF# W13-011
Sample ID B2MN44

Matrix WATER
Sampled 11/12/12
Received 11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										11/28/12
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	B	68.8		ug/L	1	19	95	11/29/12
Magnesium	7439-95-4	LA-505-411		31200		ug/L	1	4.0	20	11/29/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Potassium	7440-09-7	LA-505-411		10200		ug/L	1	76	380	11/29/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Sodium	7440-23-5	LA-505-411		37800		ug/L	1	10	50	11/29/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	11/29/12
Barium	7440-39-3	LA-505-411		111		ug/L	1	4.0	20	11/29/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Chromium	7440-47-3	LA-505-411	B	10.2		ug/L	1	5.0	25	11/29/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Vanadium	7440-62-2	LA-505-411	B	7.40		ug/L	1	5.0	25	11/29/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	11/29/12
Calcium	7440-70-2	LA-505-411		1.10E5		ug/L	1	49	240	11/29/12
Strontium	7440-24-6	LA-505-411		508		ug/L	1	9.0	45	11/29/12

MDL = Minimum Detection Limit

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)

U - Analyzed for but not detected above limiting criteria.

RQ = Result Qualifier

C - Analyte was found in the Associated Blank. (Inorganic)

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

TP Err = Total Propagated Error

D - Analyte was reported at a secondary dilution factor.

PQL is equivalent to Estimated Quantitation Limit (EQL)

DF = Dilution Factor

E - Analyte is an estimate, see comment section.

o - LCS recovery outside established laboratory acceptance limits.

+ - Indicates more than nine qualifier

N - MS and/or MSD recovery outside control limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample # 121448007
SAF# W13-011
Sample ID B2MN44

Matrix WATER
Sampled 11/12/12
Received 11/12/12

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	11/29/12
ICPMS Prep (W)										
ICP-2008 MS All possible metal										
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	12/10/12
Lead	7439-92-1	LA-505-412	BD	0.410		ug/L	2	0.10	1.0	12/10/12
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	12/10/12
Thallium	7440-28-0	LA-505-412	BD	0.118		ug/L	2	0.10	1.0	12/10/12
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/10/12
Arsenic	7440-38-2	LA-505-412	D	5.80		ug/L	2	0.40	4.0	12/10/12
Selenium	7782-49-2	LA-505-412	BD	8.25		ug/L	2	2.0	20	12/10/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)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.

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample # 121448008
SAF# W13-011
Sample ID B2MN75

Matrix WATER
Sampled 11/12/12
Received 11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										11/28/12
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411		329		ug/L	1	19	95	11/29/12
Magnesium	7439-95-4	LA-505-411		43200		ug/L	1	4.0	20	11/29/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Nickel	7440-02-0	LA-505-411	B	4.10		ug/L	1	4.0	20	11/29/12
Potassium	7440-09-7	LA-505-411		13000		ug/L	1	76	380	11/29/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Sodium	7440-23-5	LA-505-411		1.77E5		ug/L	1	10	50	11/29/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	11/29/12
Barium	7440-39-3	LA-505-411		106		ug/L	1	4.0	20	11/29/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Chromium	7440-47-3	LA-505-411	B	21.0		ug/L	1	5.0	25	11/29/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Vanadium	7440-62-2	LA-505-411	B	8.10		ug/L	1	5.0	25	11/29/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	11/29/12
Calcium	7440-70-2	LA-505-411		1.59E5		ug/L	1	49	240	11/29/12
Strontium	7440-24-6	LA-505-411		838		ug/L	1	9.0	45	11/29/12

MDL = Minimum Detection Limit

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)

U - Analyzed for but not detected above limiting criteria.

RQ = Result Qualifier

C - Analyte was found in the Associated Blank. (Inorganic)

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

TP Err = Total Propagated Error

D - Analyte was reported at a secondary dilution factor.

PQL is equivalent to Estimated Quantitation Limit (EQL)

DF = Dilution Factor

E - Analyte is an estimate, see comment section.

o - LCS recovery outside established laboratory acceptance limits.

+ - Indicates more than nine qualifier

N - MS and/or MSD recovery outside control limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample # 121448008
SAF# W13-011
Sample ID B2MN75

Matrix WATER
Sampled 11/12/12
Received 11/12/12

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	11/29/12
ICPMS Prep (W)										
ICP-2008 MS All possible metal										
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	12/10/12
Lead	7439-92-1	LA-505-412	BD	0.348		ug/L	2	0.10	1.0	12/10/12
Mercury	7439-97-6	LA-505-412	D	0.514		ug/L	2	0.10	0.40	12/10/12
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/10/12
Tin	7440-31-5	LA-505-412	BD	0.348		ug/L	2	0.10	1.0	12/10/12
Arsenic	7440-38-2	LA-505-412	D	7.45		ug/L	2	0.40	4.0	12/10/12
Selenium	7782-49-2	LA-505-412	BD	11.7		ug/L	2	2.0	20	12/10/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)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.

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample # 121448009
SAF# W13-011
Sample ID B2MN47

Matrix WATER
Sampled 11/12/12
Received 11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										11/28/12
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	B	49.6		ug/L	1	19	95	11/29/12
Magnesium	7439-95-4	LA-505-411		25900		ug/L	1	4.0	20	11/29/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Potassium	7440-09-7	LA-505-411		9910		ug/L	1	76	380	11/29/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Sodium	7440-23-5	LA-505-411		34500		ug/L	1	10	50	11/29/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	11/29/12
Barium	7440-39-3	LA-505-411		95.2		ug/L	1	4.0	20	11/29/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Chromium	7440-47-3	LA-505-411	B	9.20		ug/L	1	5.0	25	11/29/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Vanadium	7440-62-2	LA-505-411	B	9.80		ug/L	1	5.0	25	11/29/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	11/29/12
Calcium	7440-70-2	LA-505-411		86700		ug/L	1	49	240	11/29/12
Strontium	7440-24-6	LA-505-411		420		ug/L	1	9.0	45	11/29/12

MDL = Minimum Detection Limit

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)

U - Analyzed for but not detected above limiting criteria.

RQ = Result Qualifier

C - Analyte was found in the Associated Blank. (Inorganic)

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

TP Err = Total Propagated Error

D - Analyte was reported at a secondary dilution factor.

PQL is equivalent to Estimated Quantitation Limit (EQL)

DF = Dilution Factor

E - Analyte is an estimate, see comment section.

o - LCS recovery outside established laboratory acceptance limits.

+ - Indicates more than nine qualifier

N - MS and/or MSD recovery outside control limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample #	121448009	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN47	Received	11/12/12

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	11/29/12
ICPMS Prep (W)										
ICP-2008 MS All possible metal										
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	12/10/12
Lead	7439-92-1	LA-505-412	BD	0.164		ug/L	2	0.10	1.0	12/10/12
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	12/10/12
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/10/12
Tin	7440-31-5	LA-505-412	D	1.07		ug/L	2	0.10	1.0	12/10/12
Arsenic	7440-38-2	LA-505-412	D	5.33		ug/L	2	0.40	4.0	12/10/12
Selenium	7782-49-2	LA-505-412	BD	7.42		ug/L	2	2.0	20	12/10/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)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.

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample #	121448010	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN42	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										11/28/12
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411		97.4		ug/L	1	19	95	11/29/12
Magnesium	7439-95-4	LA-505-411		30400		ug/L	1	4.0	20	11/29/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Nickel	7440-02-0	LA-505-411	B	5.80		ug/L	1	4.0	20	11/29/12
Potassium	7440-09-7	LA-505-411		9850		ug/L	1	76	380	11/29/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Sodium	7440-23-5	LA-505-411		36900		ug/L	1	10	50	11/29/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	11/29/12
Barium	7440-39-3	LA-505-411		109		ug/L	1	4.0	20	11/29/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Chromium	7440-47-3	LA-505-411	B	15.3		ug/L	1	5.0	25	11/29/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	11/29/12
Vanadium	7440-62-2	LA-505-411	B	8.90		ug/L	1	5.0	25	11/29/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	11/29/12
Calcium	7440-70-2	LA-505-411		1.06E5		ug/L	1	49	240	11/29/12
Strontium	7440-24-6	LA-505-411		499		ug/L	1	9.0	45	11/29/12

MDL = Minimum Detection Limit

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)

U - Analyzed for but not detected above limiting criteria.

RQ = Result Qualifier

C - Analyte was found in the Associated Blank. (Inorganic)

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

TP Err = Total Propagated Error

D - Analyte was reported at a secondary dilution factor.

PQL is equivalent to Estimated Quantitation Limit (EQL)

DF = Dilution Factor

E - Analyte is an estimate, see comment section.

o - LCS recovery outside established laboratory acceptance limits.

+ - Indicates more than nine qualifier

N - MS and/or MSD recovery outside control limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Sample # 121448010
SAF# W13-011
Sample ID B2MN42

Matrix WATER
Sampled 11/12/12
Received 11/12/12

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	11/29/12
ICPMS Prep (W)										
ICP-2008 MS All possible metal										
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	12/10/12
Lead	7439-92-1	LA-505-412	BD	0.370		ug/L	2	0.10	1.0	12/10/12
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	12/10/12
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/10/12
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	12/10/12
Arsenic	7440-38-2	LA-505-412	D	5.24		ug/L	2	0.40	4.0	12/10/12
Selenium	7782-49-2	LA-505-412	BD	7.54		ug/L	2	2.0	20	12/10/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)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.

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448008	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN75	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8270 (W) CLE										11/13/12
SW-846 8270D Semivolatiles										
4-Nitrophenol	100-02-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phenol	108-95-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pyrene	129-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitroso-di-n-propylamine	621-64-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Acenaphthene	83-32-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pentachlorophenol	87-86-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Chlorophenol	95-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
4-Nitroaniline	100-01-6	LA-523-456	U	<0.9		ug/L	1	0.9	2	11/15/12
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
4-Chloroaniline	106-47-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

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 dilution factor.

E - The calibration exceeds the calibration range (GC/MS).

J - Analyte < lowest calibration but >= MDL.

N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).

U - Analyzed for but not detected above limiting criteria.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448008	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN75	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Bis-(2-Chloroethyl)ether	111-44-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Di-n-octylphthalate	117-84-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachlorobenzene	118-74-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Anthracene	120-12-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dimethylphthalate	131-11-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dibenzofuran	132-64-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Fluoranthene	206-44-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Acenaphthylene	208-96-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Chrysene	218-01-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

MDL = Minimum Detection Limit

B - Analyte was detected in both the BLANK and SAMPLE

T - MS/MSD recovery outside control limits(GC/MS only).

RQ = Result Qualifier

D - Analyte was reported at a secondary dilution factor.

U - Analyzed for but not detected above limiting criteria.

TP Err = Total Propagated Error

E - The calibration exceeds the calibration range (GC/MS).

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

DF = Dilution Factor

J - Analyte < lowest calibration but >= MDL.

PQL is equivalent to Estimated Quantitation Limit (EQL)

+ - Indicates more than nine qualifier

N - Presumed evidence based on MS library search(GC/MS only)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448008	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN75	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Benzo(a)pyrene	50-32-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzo(a)anthracene	56-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	<0.9		ug/L	1	0.9	2	11/15/12
Isophorone	78-59-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Diethyl phthalate	84-66-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Di-n-butylphthalate	84-74-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phenanthrene	85-01-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Butylbenzylphthalate	85-68-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Fluorene	86-73-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Carbazole	86-74-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachlorobutadiene	87-68-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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+ - Indicates more than nine qualifier

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D - Analyte was reported at a secondary dilution factor.

E - The calibration exceeds the calibration range (GC/MS).

J - Analyte < lowest calibration but >= MDL.

N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).

U - Analyzed for but not detected above limiting criteria.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448008	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN75	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
2-Nitroaniline	88-74-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Nitrophenol	88-75-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Naphthalene	91-20-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Methylnaphthalene	91-57-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Chloronaphthalene	91-58-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Methylphenol	95-48-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Nitrobenzene	98-95-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3-Nitroaniline	99-09-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachloroethane	67-72-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzyl alcohol	100-51-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Tributyl phosphate	126-73-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Naphthylamine	91-59-8	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
Pyridine	110-86-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosopiperidine	100-75-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

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 dilution factor.

E - The calibration exceeds the calibration range (GC/MS).

J - Analyte < lowest calibration but >= MDL.

N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).

U - Analyzed for but not detected above limiting criteria.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448008	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN75	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
n-Nitrosomethylamin e	10595-95-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
p-Phenylenediamine	106-50-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Picoline	109-06-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3,3-Dimethylbenzidine	119-93-7	LA-523-456	U	<4		ug/L	1	4	6	11/15/12
Isosafrole	120-58-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phentermine	122-09-8	LA-523-456	U	<5		ug/L	1	5	9	11/15/12
1,4-Naphthoquinone	130-15-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1-Naphthylamine	134-32-7	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
Aramite	140-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Kepone	143-50-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachloropropene	1888-71-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Diallate	2303-16-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pronamide	23950-58-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Isodrin	465-73-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Chlorobenzilate	510-15-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Acetylaminofluorene	53-96-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosodiethylamine	55-18-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3-Methylcholanthrene	56-49-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448008	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN75	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
4-Nitroquinoline-1-oxide	56-57-5	LA-523-456	U	<0.9		ug/L	1	0.9	2	11/15/12
7,12-Dimethylbenz(a)anthracene	57-97-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,3,4,6-Tetrachlorophenol	58-90-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosomorpholine	59-89-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pentachlorobenzene	608-93-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phenacetin	62-44-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Ethyl methanesulfonate	62-50-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Aniline	62-53-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosodimethylamine	62-75-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Methyl methanesulfonate	66-27-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pentachloroethane	76-01-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pentachloronitrobenzene	82-68-8	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
2,6-Dichlorophenol	87-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dinoseb(..dinitromethyl phenol)	88-85-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448008	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN75	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
4-Aminobiphenyl	92-67-1	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
n-Nitrosodibutylamine	924-16-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosopyrrolidine	930-55-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Safrole	94-59-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
o-Toluidine	95-53-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,2,4,5-Tetrachlorobenzene	95-94-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Acetophenone	98-86-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,3,5-Trinitrobenzene	99-35-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Methyl-5-nitroaniline	99-55-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,3-Dinitrobenzene	99-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
O,O,O-Triethylthiophosphate	126-68-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Parathion	56-38-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dimethylaminoazobenzene	60-11-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dimethoate	60-51-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Thionazin	297-97-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Methyl parathion	298-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phorate	298-02-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Disulfoton	298-04-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448008	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN75	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Sulfotep	3689-24-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Famfur	52-85-7	LA-523-456	U	<5		ug/L	1	5	9	11/15/12
N-Nitrosodiphenylamin/Di phenyl Methapyrilene	DPA+NNDPA	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
	91-80-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448009	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN47	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8270 (W) CLE										11/13/12
SW-846 8270D Semivolatiles										
4-Nitrophenol	100-02-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phenol	108-95-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pyrene	129-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitroso-di-n-propylamine	621-64-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Acenaphthene	83-32-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pentachlorophenol	87-86-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Chlorophenol	95-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
4-Nitroaniline	100-01-6	LA-523-456	U	<0.9		ug/L	1	0.9	2	11/15/12
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
4-Chloroaniline	106-47-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448009	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN47	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Bis-(2-Chloroethyl)ether	111-44-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Di-n-octylphthalate	117-84-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachlorobenzene	118-74-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Anthracene	120-12-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dimethylphthalate	131-11-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dibenzofuran	132-64-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Fluoranthene	206-44-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Acenaphthylene	208-96-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Chrysene	218-01-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448009	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN47	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Benzo(a)pyrene	50-32-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzo(a)anthracene	56-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	<0.9		ug/L	1	0.9	2	11/15/12
Isophorone	78-59-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Diethyl phthalate	84-66-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Di-n-butylphthalate	84-74-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phenanthrene	85-01-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Butylbenzylphthalate	85-68-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Fluorene	86-73-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Carbazole	86-74-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachlorobutadiene	87-68-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448009	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN47	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
2-Nitroaniline	88-74-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Nitrophenol	88-75-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Naphthalene	91-20-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Methylnaphthalene	91-57-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Chloronaphthalene	91-58-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Methylphenol	95-48-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Nitrobenzene	98-95-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3-Nitroaniline	99-09-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachloroethane	67-72-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzyl alcohol	100-51-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Tributyl phosphate	126-73-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Naphthylamine	91-59-8	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
Pyridine	110-86-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosopiperidine	100-75-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448009	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN47	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
n-Nitrosomethylamin e	10595-95-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
p-Phenylenediamine	106-50-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Picoline	109-06-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3,3-Dimethylbenzidine	119-93-7	LA-523-456	U	<4		ug/L	1	4	6	11/15/12
Isosafrole	120-58-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phentermine	122-09-8	LA-523-456	U	<5		ug/L	1	5	9	11/15/12
1,4-Naphthoquinone	130-15-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1-Naphthylamine	134-32-7	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
Aramite	140-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Kepone	143-50-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachloropropene	1888-71-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Diallate	2303-16-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pronamide	23950-58-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Isodrin	465-73-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Chlorobenzilate	510-15-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Acetylaminofluorene	53-96-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosodiethylamine	55-18-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3-Methylcholanthrene	56-49-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448009	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN47	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
4-Nitroquinoline-1-oxide	56-57-5	LA-523-456	U	<0.9		ug/L	1	0.9	2	11/15/12
7,12-Dimethylbenz(a)anthracene	57-97-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,3,4,6-Tetrachlorophenol	58-90-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosomorpholine	59-89-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pentachlorobenzene	608-93-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phenacetin	62-44-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Ethyl methanesulfonate	62-50-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Aniline	62-53-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosodimethylamine	62-75-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Methyl methanesulfonate	66-27-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pentachloroethane	76-01-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pentachloronitrobenzene	82-68-8	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
2,6-Dichlorophenol	87-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dinoseb(..dinitromethyl phenol)	88-85-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448009	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN47	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
4-Aminobiphenyl	92-67-1	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
n-Nitrosodibutylamine	924-16-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosopyrrolidine	930-55-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Safrole	94-59-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
o-Toluidine	95-53-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,2,4,5-Tetrachlorobenzene	95-94-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Acetophenone	98-86-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,3,5-Trinitrobenzene	99-35-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Methyl-5-nitroaniline	99-55-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,3-Dinitrobenzene	99-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
O,O,O-Triethylthiophosphate	126-68-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Parathion	56-38-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dimethylaminoazobenzene	60-11-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dimethoate	60-51-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Thionazin	297-97-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Methyl parathion	298-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phorate	298-02-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Disulfoton	298-04-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448009	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN47	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Sulfotep	3689-24-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Famfur	52-85-7	LA-523-456	U	<5		ug/L	1	5	9	11/15/12
N-Nitrosodiphenylamin/Di phenyl Methapyrilene	DPA+NNDPA	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
	91-80-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448010	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN42	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8270 (W) CLE										11/13/12
SW-846 8270D Semivolatiles										
4-Nitrophenol	100-02-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phenol	108-95-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pyrene	129-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitroso-di-n-propylamine	621-64-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Acenaphthene	83-32-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pentachlorophenol	87-86-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Chlorophenol	95-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
4-Nitroaniline	100-01-6	LA-523-456	U	<0.9		ug/L	1	0.9	2	11/15/12
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
4-Chloroaniline	106-47-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448010	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN42	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Bis-(2-Chloroethyl)ether	111-44-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Di-n-octylphthalate	117-84-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachlorobenzene	118-74-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Anthracene	120-12-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dimethylphthalate	131-11-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dibenzofuran	132-64-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Fluoranthene	206-44-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Acenaphthylene	208-96-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Chrysene	218-01-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448010	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN42	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Benzo(a)pyrene	50-32-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzo(a)anthracene	56-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	<0.9		ug/L	1	0.9	2	11/15/12
Isophorone	78-59-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Diethyl phthalate	84-66-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Di-n-butylphthalate	84-74-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phenanthrene	85-01-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Butylbenzylphthalate	85-68-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Fluorene	86-73-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Carbazole	86-74-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachlorobutadiene	87-68-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448010	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN42	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
2-Nitroaniline	88-74-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Nitrophenol	88-75-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Naphthalene	91-20-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Methylnaphthalene	91-57-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Chloronaphthalene	91-58-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Methylphenol	95-48-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Nitrobenzene	98-95-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3-Nitroaniline	99-09-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachloroethane	67-72-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Benzyl alcohol	100-51-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Tributyl phosphate	126-73-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Naphthylamine	91-59-8	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
Pyridine	110-86-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosopiperidine	100-75-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448010	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN42	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
n-Nitrosomethylamin e	10595-95-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
p-Phenylenediamine	106-50-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Picoline	109-06-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3,3-Dimethylbenzidine	119-93-7	LA-523-456	U	<4		ug/L	1	4	6	11/15/12
Isosafrole	120-58-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phentermine	122-09-8	LA-523-456	U	<5		ug/L	1	5	9	11/15/12
1,4-Naphthoquinone	130-15-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1-Naphthylamine	134-32-7	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
Aramite	140-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Kepone	143-50-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Hexachloropropene	1888-71-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Diallate	2303-16-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pronamide	23950-58-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Isodrin	465-73-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Chlorobenzilate	510-15-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Acetylaminofluorene	53-96-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosodiethylamine	55-18-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
3-Methylcholanthrene	56-49-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

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 dilution factor.

E - The calibration exceeds the calibration range (GC/MS).

J - Analyte < lowest calibration but >= MDL.

N - Presumed evidence based on MS library search(GC/MS only)

T - MS/MSD recovery outside control limits(GC/MS only).

U - Analyzed for but not detected above limiting criteria.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group #

WSCF121448

Sample #	121448010	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN42	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
4-Nitroquinoline-1-oxide	56-57-5	LA-523-456	U	<0.9		ug/L	1	0.9	2	11/15/12
7,12-Dimethylbenz(a)anthracene	57-97-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2,3,4,6-Tetrachlorophenol	58-90-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosomorpholine	59-89-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pentachlorobenzene	608-93-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phenacetin	62-44-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Ethyl methanesulfonate	62-50-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Aniline	62-53-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosodimethylamine	62-75-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Methyl methanesulfonate	66-27-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pentachloroethane	76-01-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Pentachloronitrobenzene	82-68-8	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
2,6-Dichlorophenol	87-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dinoseb(..dinitromethyl phenol)	88-85-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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T - MS/MSD recovery outside control limits(GC/MS only).

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448010	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN42	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
4-Aminobiphenyl	92-67-1	LA-523-456	U	<1		ug/L	1	1	2	11/15/12
n-Nitrosodibutylamine	924-16-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
n-Nitrosopyrrolidine	930-55-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Safrole	94-59-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
o-Toluidine	95-53-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,2,4,5-Tetrachlorobenzene	95-94-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Acetophenone	98-86-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,3,5-Trinitrobenzene	99-35-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
2-Methyl-5-nitroaniline	99-55-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
1,3-Dinitrobenzene	99-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
O,O,O-Triethylthiophosphate	126-68-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Parathion	56-38-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dimethylaminoazobenzene	60-11-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Dimethoate	60-51-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Thionazin	297-97-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Methyl parathion	298-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Phorate	298-02-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Disulfoton	298-04-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Sample #	121448010	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN42	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Sulfotep	3689-24-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
Famfur	52-85-7	LA-523-456	U	<5		ug/L	1	5	9	11/15/12
N-Nitrosodiphenylamin/Di phenyl Methapyrilene	DPA+NNDPA	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12
	91-80-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	11/15/12

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PQL is equivalent to Estimated Quantitation Limit (EQL)

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Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

Sample # 121448004
SAF# X13-002
Sample ID B2N2P2

Matrix WATER
Sampled 11/12/12
Received 11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8260B (W)										11/15/12
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methylene chloride	75-09-2	LA-523-455		21		ug/L	1	1	5	11/15/12

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TP Err = Total Propagated Error

DF = Dilution Factor

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D - Analyte was reported at a secondary dilution factor.

E - The calibration exceeds the calibration range (GC/MS).

J - Analyte < PQL (or EQL) >= MDL.

N - Presumed evidence based on MS library search(GC/MS only)

T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits

U - Analyzed for but not detected above limiting criteria.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

Sample #	121448004	Matrix	WATER
SAF#	X13-002	Sampled	11/12/12
Sample ID	B2N2P2	Received	11/12/12

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	11/15/12
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1-Butanol	71-36-3	LA-523-455	U	<100		ug/L	1	100	500	11/15/12
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	11/15/12
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	11/15/12
1,4-Dichlorobenzene	106-46-7	LA-523-455	U	<1		ug/L	1	1	5	11/15/12

MDL = Minimum Detection Limit

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TP Err = Total Propagated Error

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J - Analyte < PQL (or EQL) >= MDL.

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PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

Sample #	121448008	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN75	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8260B (W)										11/15/12
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Styrene	100-42-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Dibromochloromethane	124-48-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Total 1,2-Dichloroethene	540-59-0	LA-523-455	U	<1		ug/L	1	1	5	11/15/12

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T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits

RQ = Result Qualifier

D - Analyte was reported at a secondary dilution factor.

U - Analyzed for but not detected above limiting criteria.

TP Err = Total Propagated Error

E - The calibration exceeds the calibration range (GC/MS).

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

DF = Dilution Factor

J - Analyte < PQL (or EQL) >= MDL.

PQL is equivalent to Estimated Quantitation Limit (EQL)

+ - Indicates more than nine qualifier

N - Presumed evidence based on MS library search(GC/MS only)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

Sample #	121448008	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN75	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
2-Hexanone	591-78-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Bromomethane	74-83-9	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chloromethane	74-87-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chloroethane	75-00-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Bromoform	75-25-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Bromodichloromethane	75-27-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2-Dichloropropane	78-87-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1-Butanol	71-36-3	LA-523-455	U	<100		ug/L	1	100	500	11/15/12
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	11/15/12

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Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

Sample #	121448008	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN75	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Trichlorofluoromethane	75-69-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Acetonitrile	75-05-8	LA-523-455	U	<2		ug/L	1	2	10	11/15/12
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	11/15/12
Isobutyl alcohol	78-83-1	LA-523-455	U	<200		ug/L	1	200	1.E3	11/15/12
Iodomethane	74-88-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1,1,2-Tetrachloroethane	630-20-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2,3-Trichloropropane	96-18-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2-Dibromo-3-chloropropane	96-12-8	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2-Dibromoethane	106-93-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Acrolein	107-02-8	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Acrylonitrile	107-13-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Allyl chloride	107-05-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methylene bromide	74-95-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Dichlorodifluoromethane	75-71-8	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Ethyl methacrylate	97-63-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

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 dilution factor.

E - The calibration exceeds the calibration range (GC/MS).

J - Analyte < PQL (or EQL) >= MDL.

N - Presumed evidence based on MS library search(GC/MS only)

T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits

U - Analyzed for but not detected above limiting criteria.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

Sample # 121448008
SAF# W13-011
Sample ID B2MN75

Matrix WATER
Sampled 11/12/12
Received 11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Methacrylonitrile	126-98-7	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methyl methacrylate	80-62-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Trans-1,4-dichloro-2-butene	110-57-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Vinyl acetate	108-05-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chloroprene	126-99-8	LA-523-455	U	<1		ug/L	1	1	5	11/15/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

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 dilution factor.

E - The calibration exceeds the calibration range (GC/MS).

J - Analyte < PQL (or EQL) >= MDL.

N - Presumed evidence based on MS library search(GC/MS only)

T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits

U - Analyzed for but not detected above limiting criteria.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

Sample # 121448009
SAF# W13-011
Sample ID B2MN47

Matrix WATER
Sampled 11/12/12
Received 11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8260B (W)										11/15/12
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Styrene	100-42-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Dibromochloromethane	124-48-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Total 1,2-Dichloroethene	540-59-0	LA-523-455	U	<1		ug/L	1	1	5	11/15/12

MDL = Minimum Detection Limit

B - Analyte was detected in both the BLANK and SAMPLE

T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits

RQ = Result Qualifier

D - Analyte was reported at a secondary dilution factor.

U - Analyzed for but not detected above limiting criteria.

TP Err = Total Propagated Error

E - The calibration exceeds the calibration range (GC/MS).

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

DF = Dilution Factor

J - Analyte < PQL (or EQL) >= MDL.

PQL is equivalent to Estimated Quantitation Limit (EQL)

+ - Indicates more than nine qualifier

N - Presumed evidence based on MS library search(GC/MS only)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

Sample #	121448009	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN47	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
2-Hexanone	591-78-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Bromomethane	74-83-9	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chloromethane	74-87-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chloroethane	75-00-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Bromoform	75-25-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Bromodichloromethane	75-27-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2-Dichloropropane	78-87-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1-Butanol	71-36-3	LA-523-455	U	<100		ug/L	1	100	500	11/15/12
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	11/15/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

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 dilution factor.

E - The calibration exceeds the calibration range (GC/MS).

J - Analyte < PQL (or EQL) >= MDL.

N - Presumed evidence based on MS library search(GC/MS only)

T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits

U - Analyzed for but not detected above limiting criteria.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

Sample #	121448009	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN47	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Trichlorofluoromethane	75-69-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Acetonitrile	75-05-8	LA-523-455	U	<2		ug/L	1	2	10	11/15/12
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	11/15/12
Isobutyl alcohol	78-83-1	LA-523-455	U	<200		ug/L	1	200	1.E3	11/15/12
Iodomethane	74-88-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1,1,2-Tetrachloroethane	630-20-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2,3-Trichloropropane	96-18-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2-Dibromo-3-chloropropane	96-12-8	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2-Dibromoethane	106-93-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Acrolein	107-02-8	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Acrylonitrile	107-13-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Allyl chloride	107-05-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methylene bromide	74-95-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Dichlorodifluoromethane	75-71-8	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Ethyl methacrylate	97-63-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

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 dilution factor.

E - The calibration exceeds the calibration range (GC/MS).

J - Analyte < PQL (or EQL) >= MDL.

N - Presumed evidence based on MS library search(GC/MS only)

T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits

U - Analyzed for but not detected above limiting criteria.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

Sample #	121448009	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN47	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Methacrylonitrile	126-98-7	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methyl methacrylate	80-62-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Trans-1,4-dichloro-2-butene	110-57-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Vinyl acetate	108-05-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chloroprene	126-99-8	LA-523-455	U	<1		ug/L	1	1	5	11/15/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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E - The calibration exceeds the calibration range (GC/MS).

J - Analyte < PQL (or EQL) >= MDL.

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T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits

U - Analyzed for but not detected above limiting criteria.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

Sample #	121448010	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN42	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8260B (W)										11/15/12
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Styrene	100-42-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Dibromochloromethane	124-48-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Total 1,2-Dichloroethene	540-59-0	LA-523-455	U	<1		ug/L	1	1	5	11/15/12

MDL = Minimum Detection Limit

B - Analyte was detected in both the BLANK and SAMPLE

T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits

RQ = Result Qualifier

D - Analyte was reported at a secondary dilution factor.

U - Analyzed for but not detected above limiting criteria.

TP Err = Total Propagated Error

E - The calibration exceeds the calibration range (GC/MS).

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

DF = Dilution Factor

J - Analyte < PQL (or EQL) >= MDL.

PQL is equivalent to Estimated Quantitation Limit (EQL)

+ - Indicates more than nine qualifier

N - Presumed evidence based on MS library search(GC/MS only)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

Sample #	121448010	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN42	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
2-Hexanone	591-78-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Bromomethane	74-83-9	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chloromethane	74-87-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chloroethane	75-00-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Bromoform	75-25-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Bromodichloromethane	75-27-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2-Dichloropropane	78-87-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1-Butanol	71-36-3	LA-523-455	U	<100		ug/L	1	100	500	11/15/12
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	11/15/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

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B - Analyte was detected in both the BLANK and SAMPLE

D - Analyte was reported at a secondary dilution factor.

E - The calibration exceeds the calibration range (GC/MS).

J - Analyte < PQL (or EQL) >= MDL.

N - Presumed evidence based on MS library search(GC/MS only)

T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits

U - Analyzed for but not detected above limiting criteria.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

Sample #	121448010	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN42	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Trichlorofluoromethane	75-69-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Acetonitrile	75-05-8	LA-523-455	U	<2		ug/L	1	2	10	11/15/12
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	11/15/12
Isobutyl alcohol	78-83-1	LA-523-455	U	<200		ug/L	1	200	1.E3	11/15/12
Iodomethane	74-88-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,1,1,2-Tetrachloroethane	630-20-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2,3-Trichloropropane	96-18-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2-Dibromo-3-chloropropane	96-12-8	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
1,2-Dibromoethane	106-93-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Acrolein	107-02-8	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Acrylonitrile	107-13-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Allyl chloride	107-05-1	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methylene bromide	74-95-3	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Dichlorodifluoromethane	75-71-8	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Ethyl methacrylate	97-63-2	LA-523-455	U	<1		ug/L	1	1	5	11/15/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

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 dilution factor.

E - The calibration exceeds the calibration range (GC/MS).

J - Analyte < PQL (or EQL) >= MDL.

N - Presumed evidence based on MS library search(GC/MS only)

T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits

U - Analyzed for but not detected above limiting criteria.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121448

Sample #	121448010	Matrix	WATER
SAF#	W13-011	Sampled	11/12/12
Sample ID	B2MN42	Received	11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Methacrylonitrile	126-98-7	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Methyl methacrylate	80-62-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Trans-1,4-dichloro-2-butene	110-57-6	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Vinyl acetate	108-05-4	LA-523-455	U	<1		ug/L	1	1	5	11/15/12
Chloroprene	126-99-8	LA-523-455	U	<1		ug/L	1	1	5	11/15/12

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

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T - GC/MS or N - Non GC/MS - MS/MSD recovery outside control limits

U - Analyzed for but not detected above limiting criteria.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121448

Sample # 121448008
SAF# W13-011
Sample ID B2MN75

Matrix WATER
Sampled 11/12/12
Received 11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for Cyanide (W)										11/13/12
Cyanide (W) by Midi/Spectrophotometer										11/14/12
Cyanide	57-12-5	LA-695-402	D	619		ug/L	5	20	100	11/13/12
Total Alkalinity as mg/L CaCO₃ (Water)										11/14/12
Total Alkalinity as CaCO ₃	ALKALINITY	LA-531-411		95		mg/L	1	1	10	

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.

C - Analyte was found in the Associated Blank. (Inorganic)

D - Analyte was reported at a secondary dilution factor.

N - MS and/or MSD sample recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121448

Sample # 121448009
SAF# W13-011
Sample ID B2MN47

Matrix WATER
Sampled 11/12/12
Received 11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for Cyanide (W)										11/13/12
Cyanide (W) by Midi/Spectrophotometer										11/14/12
Cyanide	57-12-5	LA-695-402		66.2		ug/L	1	4.0	20	11/13/12
Total Alkalinity as mg/L CaCO₃ (Water)										11/14/12
Total Alkalinity as CaCO ₃	ALKALINITY	LA-531-411		110		mg/L	1	1	10	

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.

C - Analyte was found in the Associated Blank. (Inorganic)

D - Analyte was reported at a secondary dilution factor.

N - MS and/or MSD sample recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121448

Sample # 121448010
SAF# W13-011
Sample ID B2MN42

Matrix WATER
Sampled 11/12/12
Received 11/12/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for Cyanide (W)										11/13/12
Cyanide (W) by Midi/Spectrophotometer										11/14/12
Cyanide	57-12-5	LA-695-402		109		ug/L	1	4.0	20	11/13/12
										11/14/12
Total Alkalinity as mg/L CaCO₃ (Water)										11/14/12
Total Alkalinity as CaCO ₃	ALKALINITY	LA-531-411		100		mg/L	1	1	10	

MDL = Minimum Detection Limit

RQ = Result Qualifier

TP Err = Total Propagated Error

DF = Dilution Factor

+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.

C - Analyte was found in the Associated Blank. (Inorganic)

D - Analyte was reported at a secondary dilution factor.

N - MS and/or MSD sample recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.

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

PQL is equivalent to Estimated Quantitation Limit (EQL)

o - LCS recovery outside established laboratory acceptance limits.

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121448

Analytical Batch 210216 (QC Batch: 210216) Test Anions by Ion Chromatography (Water)
 Associated Samples 121448001, 121448002, 121448003

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK										
QC Sample #84839										
Fluoride	16984-48-8	<0.023	ug/mL					U		11/12/12
Chloride	16887-00-6	<0.058	ug/mL					U		11/12/12
Nitrite-N	NO2-N	<0.019	ug/mL					U		11/12/12
Nitrate-N	NO3-N	<0.019	ug/mL					U		11/12/12
Sulfate	14808-79-8	<0.11	ug/mL					U		11/12/12
LCS										
QC Sample #84840										
Fluoride	16984-48-8	0.945	ug/mL	95.4	90 - 110					11/12/12
Chloride	16887-00-6	1.96	ug/mL	99	90 - 110					11/12/12
Nitrite-N	NO2-N	1.04	ug/mL	105.8	90 - 110					11/12/12
Nitrate-N	NO3-N	0.926	ug/mL	104.6	90 - 110					11/12/12
Sulfate	14808-79-8	4.03	ug/mL	102.9	90 - 110					11/12/12
DUP										
QC Sample #84841										
Original 121449004										
Fluoride	16984-48-8	<0.046	ug/mL			0.00	20	UD		11/12/12
Chloride	16887-00-6	21.2	ug/mL			1.70	20	D		11/12/12
Nitrite-N	NO2-N	<0.038	ug/mL			0.00	20	UD		11/12/12
Nitrate-N	NO3-N	8.16	ug/mL			0.90	20	D		11/12/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Inorganic

Group #

WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Sulfate	14808-79-8	91.0	ug/mL				0.30	20	D	11/12/12
MS										
QC Sample #84842										
Original 121449004										
Fluoride	16984-48-8	0.983	ug/mL	98.3	80 - 120				D	11/12/12
Chloride	16887-00-6	2.28	ug/mL	114.2	80 - 120				DX	11/12/12
Nitrite-N	NO2-N	0.934	ug/mL	94.5	80 - 120				D	11/12/12
Nitrate-N	NO3-N	0.709	ug/mL	79.3	80 - 120				DX	11/12/12
Sulfate	14808-79-8	2.73	ug/mL	68.8	80 - 120				DX	11/12/12
MSD										
QC Sample #84843										
Original 121449004										
Paired 84842										
Fluoride	16984-48-8	0.986	ug/mL	98.6	80 - 120	0.30	20		D	11/12/12
Chloride	16887-00-6	2.59	ug/mL	129.6	80 - 120	1.30	20		DX	11/12/12
Nitrite-N	NO2-N	0.939	ug/mL	95.1	80 - 120	0.60	20		D	11/12/12
Nitrate-N	NO3-N	0.829	ug/mL	92.7	80 - 120	1.30	20		DX	11/12/12
Sulfate	14808-79-8	3.66	ug/mL	92.4	80 - 120	1.00	20		DX	11/12/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF121448

Analytical Batch 210346 (QC Batch: 210345) Test SW-846 8260B Volatiles
 Associated Samples 121448004, 121448008, 121448009, 121448010

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK										QC Sample #85126
1,1-Dichloroethene	75-35-4		<1	ug/L				U		11/15/12
Trichloroethene	79-01-6		<1	ug/L				U		11/15/12
Benzene	71-43-2		<1	ug/L				U		11/15/12
Toluene	108-88-3		<1	ug/L				U		11/15/12
Chlorobenzene	108-90-7		<1	ug/L				U		11/15/12
1,1-Dichloroethane	75-34-3		<1	ug/L				U		11/15/12
Ethylbenzene	100-41-4		<1	ug/L				U		11/15/12
Styrene	100-42-5		<1	ug/L				U		11/15/12
cis-1,3-Dichloropropene	10061-01-5		<1	ug/L				U		11/15/12
trans-1,3-Dichloropropene	10061-02-6		<1	ug/L				U		11/15/12
1,2-Dichloroethane	107-06-2		<1	ug/L				U		11/15/12
Methyl isobutyl ketone	108-10-1		<1	ug/L				U		11/15/12
Dibromochloromethane	124-48-1		<1	ug/L				U		11/15/12
Tetrachloroethene	127-18-4		<1	ug/L				U		11/15/12
Total Xylenes	1330-20-7		<1	ug/L				U		11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Total 1,2-Dichloroethene	540-59-0	<1		ug/L				U	11/15/12
Carbon tetrachloride	56-23-5	<1		ug/L				U	11/15/12
2-Hexanone	591-78-6	<1		ug/L				U	11/15/12
Acetone	67-64-1	<1		ug/L				U	11/15/12
Chloroform	67-66-3	<1		ug/L				U	11/15/12
1,1,1-Trichloroethane	71-55-6	<1		ug/L				U	11/15/12
Bromomethane	74-83-9	<1		ug/L				U	11/15/12
Chloromethane	74-87-3	<1		ug/L				U	11/15/12
Chloroethane	75-00-3	<1		ug/L				U	11/15/12
Vinyl chloride	75-01-4	<1		ug/L				U	11/15/12
Methylene chloride	75-09-2	<1		ug/L				U	11/15/12
Carbon disulfide	75-15-0	<1		ug/L				U	11/15/12
Bromoform	75-25-2	<1		ug/L				U	11/15/12
Bromodichloromethane	75-27-4	<1		ug/L				U	11/15/12
1,2-Dichloropropane	78-87-5	<1		ug/L				U	11/15/12
Methyl ethyl ketone	78-93-3	<1		ug/L				U	11/15/12
1,1,2-Trichloroethane	79-00-5	<1		ug/L				U	11/15/12
1,1,2,2-Tetrachloroethane	79-34-5	<1		ug/L				U	11/15/12
1-Butanol	71-36-3	<100		ug/L				U	11/15/12
Tetrahydrofuran	109-99-9	<2		ug/L				U	11/15/12
Trichlorofluoromethane	75-69-4	<1		ug/L				U	11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
trans-1,2-Dichloroethene	156-60-5		<1	ug/L				U	11/15/12
Acetonitrile	75-05-8		<2	ug/L				U	11/15/12
cis-1,2-Dichloroethene	156-59-2		<1	ug/L				U	11/15/12
Propionitrile	107-12-0		<2	ug/L				U	11/15/12
1,4-Dichlorobenzene	106-46-7		<1	ug/L				U	11/15/12
Isobutyl alcohol	78-83-1		<200	ug/L				U	11/15/12
Iodomethane	74-88-4		<1	ug/L				U	11/15/12
1,1,1,2-Tetrachloroethane	630-20-6		<1	ug/L				U	11/15/12
1,2,3-Trichloropropane	96-18-4		<1	ug/L				U	11/15/12
1,2-Dibromo-3-chloropropane	96-12-8		<1	ug/L				U	11/15/12
1,2-Dibromoethane	106-93-4		<1	ug/L				U	11/15/12
Acrolein	107-02-8		<1	ug/L				U	11/15/12
Acrylonitrile	107-13-1		<1	ug/L				U	11/15/12
Allyl chloride	107-05-1		<1	ug/L				U	11/15/12
Methylene bromide	74-95-3		<1	ug/L				U	11/15/12
Dichlorodifluoromethane	75-71-8		<1	ug/L				U	11/15/12
Ethyl methacrylate	97-63-2		<1	ug/L				U	11/15/12
Methacrylonitrile	126-98-7		<1	ug/L				U	11/15/12
Methyl methacrylate	80-62-6		<1	ug/L				U	11/15/12
Trans-1,4-dichloro-2-butene	110-57-6		<1	ug/L				U	11/15/12

* - QC result out of range

n/a - Not Applicable

DECEMBER 12, 2012

Quality Control Report

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Vinyl acetate	108-05-4	<1		ug/L					U	11/15/12
Chloroprene	126-99-8	<1		ug/L					U	11/15/12
LCS										
QC Sample #85127										
1,1-Dichloroethene	75-35-4	24		ug/L	96.1	75 - 125				11/15/12
Trichloroethene	79-01-6	28		ug/L	112.4	75 - 125				11/15/12
Benzene	71-43-2	29		ug/L	115.6	75 - 125				11/15/12
Toluene	108-88-3	29		ug/L	115.5	75 - 125				11/15/12
Chlorobenzene	108-90-7	28		ug/L	112.4	75 - 125				11/15/12
1,1-Dichloroethane	75-34-3	26		ug/L	104.6	75 - 125				11/15/12
Ethylbenzene	100-41-4	30		ug/L	121	75 - 125				11/15/12
Styrene	100-42-5	30		ug/L	121	75 - 125				11/15/12
trans-1,3-Dichloropropene	10061-02-6	29		ug/L	117.5	75 - 125				11/15/12
1,2-Dichloroethane	107-06-2	28		ug/L	110.4	75 - 125				11/15/12
1,1,1-Trichloroethane	71-55-6	30		ug/L	119	75 - 125				11/15/12
Dibromochloromethane	124-48-1	28		ug/L	112.2	75 - 125				11/15/12
Carbon disulfide	75-15-0	22		ug/L	88.4	75 - 125				11/15/12
Bromoform	75-25-2	30		ug/L	118.1	75 - 125				11/15/12
Bromodichloromethane	75-27-4	30		ug/L	120.8	75 - 125				11/15/12
1,2-Dichloropropane	78-87-5	28		ug/L	113	75 - 125				11/15/12
1,1,2-Trichloroethane	79-00-5	28		ug/L	112	75 - 125				11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group #

WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
1,1,2,2-Tetrachloroethane	79-34-5	27		ug/L	107.7	75 - 125				11/15/12
trans-1,2-Dichloroethene	156-60-5	27		ug/L	107.2	75 - 125				11/15/12
cis-1,2-Dichloroethene	156-59-2	27		ug/L	109.4	75 - 125				11/15/12
MS										
QC Sample #85128										
Original 121450005										
1,1-Dichloroethene	75-35-4	23		ug/L	92.2	75 - 125				11/15/12
Trichloroethene	79-01-6	27		ug/L	108.9	75 - 125				11/15/12
Benzene	71-43-2	28		ug/L	112.6	75 - 125				11/15/12
Toluene	108-88-3	28		ug/L	113.6	75 - 125				11/15/12
Chlorobenzene	108-90-7	28		ug/L	111.5	75 - 125				11/15/12
1,1-Dichloroethane	75-34-3	26		ug/L	104.4	75 - 125				11/15/12
Ethylbenzene	100-41-4	30		ug/L	118.2	75 - 125				11/15/12
Styrene	100-42-5	30		ug/L	119.9	75 - 125				11/15/12
trans-1,3-Dichloropropene	10061-02-6	29		ug/L	117.1	75 - 125				11/15/12
1,2-Dichloroethane	107-06-2	27		ug/L	109.7	75 - 125				11/15/12
1,1,1-Trichloroethane	71-55-6	29		ug/L	115.3	75 - 125				11/15/12
Dibromochloromethane	124-48-1	28		ug/L	110.8	75 - 125				11/15/12
Carbon disulfide	75-15-0	21		ug/L	85.1	75 - 125				11/15/12
Bromoform	75-25-2	29		ug/L	117.1	75 - 125				11/15/12
Bromodichloromethane	75-27-4	30		ug/L	119	75 - 125				11/15/12
1,2-Dichloropropane	78-87-5	28		ug/L	113.4	75 - 125				11/15/12

* - QC result out of range

n/a - Not Applicable

DECEMBER 12, 2012

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group #

WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
1,1,2-Trichloroethane	79-00-5	28	ug/L	111.1	75 - 125					11/15/12
1,1,2,2-Tetrachloroethane	79-34-5	26	ug/L	104	75 - 125					11/15/12
trans-1,2-Dichloroethene	156-60-5	27	ug/L	106.1	75 - 125					11/15/12
cis-1,2-Dichloroethene	156-59-2	27	ug/L	106.9	75 - 125					11/15/12
MSD		QC Sample #85129								
		Original 121450005								
		Paired 85128								
1,1-Dichloroethene	75-35-4	25	ug/L	98.7	75 - 125	6.90	20			11/15/12
Trichloroethene	79-01-6	28	ug/L	112.8	75 - 125	3.50	20			11/15/12
Benzene	71-43-2	29	ug/L	115.7	75 - 125	2.70	20			11/15/12
Toluene	108-88-3	29	ug/L	116	75 - 125	2.10	20			11/15/12
Chlorobenzene	108-90-7	28	ug/L	113.4	75 - 125	1.70	20			11/15/12
1,1-Dichloroethane	75-34-3	27	ug/L	107.5	75 - 125	2.90	20			11/15/12
Ethylbenzene	100-41-4	30	ug/L	121.1	75 - 125	2.50	20			11/15/12
Styrene	100-42-5	30	ug/L	121	75 - 125	0.90	20			11/15/12
trans-1,3-Dichloropropene	10061-02-6	29	ug/L	117.6	75 - 125	0.40	20			11/15/12
1,2-Dichloroethane	107-06-2	27	ug/L	109.8	75 - 125	0.10	20			11/15/12
1,1,1-Trichloroethane	71-55-6	30	ug/L	118.1	75 - 125	2.40	20			11/15/12
Dibromochloromethane	124-48-1	28	ug/L	113.8	75 - 125	2.60	20			11/15/12
Carbon disulfide	75-15-0	22	ug/L	88.1	75 - 125	3.40	20			11/15/12
Bromoform	75-25-2	30	ug/L	118.8	75 - 125	1.40	20			11/15/12
Bromodichloromethane	75-27-4	30	ug/L	120.8	75 - 125	1.50	20			11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report**DECEMBER 12, 2012**Attention Scot Fitzgerald
Department Organic, Volatiles**Group #**

WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
1,2-Dichloropropane	78-87-5	28		ug/L	113.7	75 - 125	0.20	20		11/15/12
1,1,2-Trichloroethane	79-00-5	28		ug/L	113	75 - 125	1.60	20		11/15/12
1,1,2,2-Tetrachloroethane	79-34-5	27		ug/L	106.2	75 - 125	2.10	20		11/15/12
trans-1,2-Dichloroethene	156-60-5	28		ug/L	110.9	75 - 125	4.40	20		11/15/12
cis-1,2-Dichloroethene	156-59-2	28		ug/L	110.8	75 - 125	3.60	20		11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Wet Chemistry

Group # WSCF121448

Analytical Batch 210349 (QC Batch: 210348) Test Cyanide (W) by Midi/Spectrophotometer
 Associated Samples 121448008, 121448009, 121448010

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK										QC Sample #85130
Cyanide LCS										<4.0 ug/L
										QC Sample #85132
Cyanide MS	57-12-5	49.3	ug/L		98.7	85 - 115				11/13/12
										QC Sample #85133
										Original 121393001
Cyanide MSD	57-12-5	37.9	ug/L		94.8	75 - 125				11/13/12
										QC Sample #85134
										Original 121393001
Cyanide	57-12-5	41.0	ug/L		102.4	75 - 125	7.70	20		Paired 85133
										11/13/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Analytical Batch 210418 (QC Batch: 210318) **Test** SW-846 8270D Semivolatiles
Associated Samples 121448008, 121448009, 121448010

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK										QC Sample #85000
4-Nitrophenol	100-02-7		<1	ug/L				U		11/15/12
1,4-Dichlorobenzene	106-46-7		<1	ug/L				U		11/15/12
2,4-Dinitrotoluene	121-14-2		<1	ug/L				U		11/15/12
1,2,4-Trichlorobenzene	120-82-1		<1	ug/L				U		11/15/12
Phenol	108-95-2		<1	ug/L				U		11/15/12
Pyrene	129-00-0		<1	ug/L				U		11/15/12
4-Chloro-3-methylphenol	59-50-7		<1	ug/L				U		11/15/12
n-Nitroso-di-n-propylamine	621-64-7		<1	ug/L				U		11/15/12
Acenaphthene	83-32-9		<1	ug/L				U		11/15/12
Pentachlorophenol	87-86-5		<1	ug/L				U		11/15/12
2-Chlorophenol	95-57-8		<1	ug/L				U		11/15/12
4-Nitroaniline	100-01-6		<1	ug/L				U		11/15/12
4-Bromophenyl-phenylether	101-55-3		<1	ug/L				U		11/15/12
2,4-Dimethylphenol	105-67-9		<2	ug/L				U		11/15/12
4-Chloroaniline	106-47-8		<1	ug/L				U		11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Semivolatiles

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1		<1	ug/L				U	11/15/12
Bis-(2-Chloroethyl)ether	111-44-4		<1	ug/L				U	11/15/12
Bis-(2-Chloroethoxy)methane	111-91-1		<1	ug/L				U	11/15/12
Bis-(2-Ethylhexyl)phthalate	117-81-7		<1	ug/L				U	11/15/12
Di-n-octylphthalate	117-84-0		<1	ug/L				U	11/15/12
Hexachlorobenzene	118-74-1		<1	ug/L				U	11/15/12
Anthracene	120-12-7		<1	ug/L				U	11/15/12
2,4-Dichlorophenol	120-83-2		<1	ug/L				U	11/15/12
Dimethylphthalate	131-11-3		<1	ug/L				U	11/15/12
Dibenzofuran	132-64-9		<1	ug/L				U	11/15/12
Benzo(g,h,i)perylene	191-24-2		<1	ug/L				U	11/15/12
Indeno(1,2,3-cd)pyrene	193-39-5		<1	ug/L				U	11/15/12
Benzo(b)fluoranthene	205-99-2		<1	ug/L				U	11/15/12
Fluoranthene	206-44-0		<1	ug/L				U	11/15/12
Benzo(k)fluoranthene	207-08-9		<1	ug/L				U	11/15/12
Acenaphthylene	208-96-8		<1	ug/L				U	11/15/12
Chrysene	218-01-9		<1	ug/L				U	11/15/12
Benzo(a)pyrene	50-32-8		<1	ug/L				U	11/15/12
2,4-Dinitrophenol	51-28-5		<1	ug/L				U	11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Semivolatiles

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Dibenzo(a,h)anthracene	53-70-3		<1	ug/L				U	11/15/12
4,6-Dinitro-2-methylphenol	534-52-1		<1	ug/L				U	11/15/12
1,3-Dichlorobenzene	541-73-1		<1	ug/L				U	11/15/12
Benzo(a)anthracene	56-55-3		<1	ug/L				U	11/15/12
2,6-Dinitrotoluene	606-20-2		<1	ug/L				U	11/15/12
4-Chlorophenyl-phenylether	7005-72-3		<1	ug/L				U	11/15/12
Hexachlorocyclopentadiene	77-47-4		<1	ug/L				U	11/15/12
Isophorone	78-59-1		<1	ug/L				U	11/15/12
Diethyl phthalate	84-66-2		<1	ug/L				U	11/15/12
Di-n-butylphthalate	84-74-2		<1	ug/L				U	11/15/12
Phenanthrene	85-01-8		<1	ug/L				U	11/15/12
Butylbenzylphthalate	85-68-7		<1	ug/L				U	11/15/12
Fluorene	86-73-7		<1	ug/L				U	11/15/12
Carbazole	86-74-8		<1	ug/L				U	11/15/12
Hexachlorobutadiene	87-68-3		<1	ug/L				U	11/15/12
2-Nitroaniline	88-74-4		<1	ug/L				U	11/15/12
2-Nitrophenol	88-75-5		<1	ug/L				U	11/15/12
Naphthalene	91-20-3		<1	ug/L				U	11/15/12
2-Methylnaphthalene	91-57-6		<1	ug/L				U	11/15/12
2-Chloronaphthalene	91-58-7		<1	ug/L				U	11/15/12
3,3-Dichlorobenzidine	91-94-1		<1	ug/L				U	11/15/12

* - QC result out of range

n/a - Not Applicable

DECEMBER 12, 2012

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
2-Methylphenol	95-48-7		<1	ug/L				U	11/15/12
1,2-Dichlorobenzene	95-50-1		<1	ug/L				U	11/15/12
2,4,5-Trichlorophenol	95-95-4		<1	ug/L				U	11/15/12
Nitrobenzene	98-95-3		<1	ug/L				U	11/15/12
3-Nitroaniline	99-09-2		<1	ug/L				U	11/15/12
3 & 4 Methylphenol, Total	65794-96-9		<1	ug/L				U	11/15/12
Hexachloroethane	67-72-1		<1	ug/L				U	11/15/12
2,4,6-Trichlorophenol	88-06-2		<1	ug/L				U	11/15/12
Benzyl alcohol	100-51-6		<1	ug/L				U	11/15/12
Tributyl phosphate	126-73-8		<1	ug/L				U	11/15/12
2-Naphthylamine	91-59-8		<2	ug/L				U	11/15/12
Pyridine	110-86-1		<1	ug/L				U	11/15/12
n-Nitrosopiperidine	100-75-4		<1	ug/L				U	11/15/12
n-Nitrosomethylethylamine	10595-95-6		<1	ug/L				U	11/15/12
p-Phenylenediamine	106-50-3		<1	ug/L				U	11/15/12
2-Picoline	109-06-8		<1	ug/L				U	11/15/12
3,3-Dimethylbenzidine	119-93-7		<4	ug/L				U	11/15/12
Isosafrole	120-58-1		<1	ug/L				U	11/15/12
Phentermine	122-09-8		<5	ug/L				U	11/15/12
1,4-Naphthoquinone	130-15-4		<1	ug/L				U	11/15/12
1-Naphthylamine	134-32-7		<2	ug/L				U	11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Semivolatiles

Group #

WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Aramite	140-57-8		<1	ug/L				U	11/15/12
Kepone	143-50-0		<1	ug/L				U	11/15/12
Hexachloropropene	1888-71-7		<1	ug/L				U	11/15/12
Diallate	2303-16-4		<1	ug/L				U	11/15/12
Pronamide	23950-58-5		<1	ug/L				U	11/15/12
Isodrin	465-73-6		<1	ug/L				U	11/15/12
Chlorobenzilate	510-15-6		<1	ug/L				U	11/15/12
2-Acetylaminofluorene	53-96-3		<1	ug/L				U	11/15/12
n-Nitrosodiethylamine	55-18-5		<1	ug/L				U	11/15/12
3-Methylcholanthrene	56-49-5		<1	ug/L				U	11/15/12
4-Nitroquinoline-1-oxide	56-57-5		<1	ug/L				U	11/15/12
7,12-Dimethylbenz(a)anthracene	57-97-6		<1	ug/L				U	11/15/12
2,3,4,6-Tetrachlorophenol	58-90-2		<1	ug/L				U	11/15/12
n-Nitrosomorpholine	59-89-2		<1	ug/L				U	11/15/12
Pentachlorobenzene	608-93-5		<1	ug/L				U	11/15/12
Phenacetin	62-44-2		<1	ug/L				U	11/15/12
Ethyl methanesulfonate	62-50-0		<1	ug/L				U	11/15/12
Aniline	62-53-3		<1	ug/L				U	11/15/12
n-Nitrosodimethylamine	62-75-9		<1	ug/L				U	11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Semivolatiles

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Methyl methanesulfonate	66-27-3		<1	ug/L				U	11/15/12
Pentachloroethane	76-01-7		<1	ug/L				U	11/15/12
Pentachloronitrobenzene	82-68-8		<2	ug/L				U	11/15/12
2,6-Dichlorophenol	87-65-0		<1	ug/L				U	11/15/12
Dinoseb(..dinitromethylphenol)	88-85-7		<1	ug/L				U	11/15/12
4-Aminobiphenyl	92-67-1		<2	ug/L				U	11/15/12
n-Nitrosodibutylamine	924-16-3		<1	ug/L				U	11/15/12
n-Nitrosopyridine	930-55-2		<1	ug/L				U	11/15/12
Safrole	94-59-7		<1	ug/L				U	11/15/12
o-Toluidine	95-53-4		<1	ug/L				U	11/15/12
1,2,4,5-Tetrachlorobenzene	95-94-3		<1	ug/L				U	11/15/12
Acetophenone	98-86-2		<1	ug/L				U	11/15/12
1,3,5-Trinitrobenzene	99-35-4		<1	ug/L				U	11/15/12
2-Methyl-5-nitroaniline	99-55-8		<1	ug/L				U	11/15/12
1,3-Dinitrobenzene	99-65-0		<1	ug/L				U	11/15/12
O,O,O-Triethylthiophosphate	126-68-1		<1	ug/L				U	11/15/12
Parathion	56-38-2		<1	ug/L				U	11/15/12
Dimethylaminoazobenzene	60-11-7		<1	ug/L				U	11/15/12
Dimethoate	60-51-5		<1	ug/L				U	11/15/12
Thionazin	297-97-2		<1	ug/L				U	11/15/12

* - QC result out of range

n/a - Not Applicable

DECEMBER 12, 2012

Quality Control Report

Attention Scot Fitzgerald
 Department Organic, Semivolatiles

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Methyl parathion	298-00-0	<1		ug/L					U	11/15/12
Phorate	298-02-2	<1		ug/L					U	11/15/12
Disulfoton	298-04-4	<1		ug/L					U	11/15/12
Sulfotep	3689-24-5	<1		ug/L					U	11/15/12
Famfur	52-85-7	<5		ug/L					U	11/15/12
N-Nitrosodiphenylamin/ Diphenyl	DPA+NNDPA	<1		ug/L					U	11/15/12
Methapyrilene	91-80-5	<1		ug/L					U	11/15/12
LCS					QC Sample #85001					
4-Nitrophenol	100-02-7	15		ug/L	50.9	5 - 88				11/15/12
1,2,4-Trichlorobenzene	120-82-1	21		ug/L	70.3	50 - 105				11/15/12
Phenol	108-95-2	14		ug/L	48.1	18 - 89				11/15/12
1,4-Dichlorobenzene	106-46-7	15		ug/L	73.2	47 - 115				11/15/12
2,4-Dinitrotoluene	121-14-2	24		ug/L	79.8	59 - 110				11/15/12
Pyrene	129-00-0	22		ug/L	73.6	64 - 116				11/15/12
4-Chloro-3-methylphenol	59-50-7	24		ug/L	81.5	62 - 109				11/15/12
n-Nitroso-di-n-propylamine	621-64-7	22		ug/L	74.9	61 - 110				11/15/12
Acenaphthene	83-32-9	23		ug/L	76.9	59 - 113				11/15/12
Pentachlorophenol	87-86-5	24		ug/L	81.5	17 - 125				11/15/12
2-Chlorophenol	95-57-8	22		ug/L	74.1	55 - 109				11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Semivolatiles

Group #

WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
n-Nitrosodimethylamine	62-75-9	22		ug/L	71.7	40 - 103				11/15/12
Benzyl alcohol	100-51-6		24	ug/L	78.8	58 - 108				11/15/12
2-Methylphenol	95-48-7		22	ug/L	74.2	59 - 107				11/15/12
Hexachloroethane	67-72-1		19	ug/L	61.7	43 - 105				11/15/12
2-Nitrophenol	88-75-5		23	ug/L	75.1	48 - 113				11/15/12
2,4-Dimethylphenol	105-67-9		24	ug/L	79.8	58 - 113				11/15/12
2,4-Dichlorophenol	120-83-2		22	ug/L	74.3	52 - 110				11/15/12
Anthracene	120-12-7		24	ug/L	81.3	67 - 113				11/15/12
Naphthalene	91-20-3		21	ug/L	71.5	55 - 110				11/15/12
2-Nitroaniline	88-74-4		26	ug/L	85.2	57 - 114				11/15/12
Dibenzofuran	132-64-9		24	ug/L	79.3	61 - 113				11/15/12
Fluorene	86-73-7		24	ug/L	80	64 - 115				11/15/12
Tributyl phosphate	126-73-8		24	ug/L	79.8	65 - 108				11/15/12
Hexachlorobenzene	118-74-1		24	ug/L	78.4	60 - 117				11/15/12
Dimethoate	60-51-5		13	ug/L	87.8	64 - 108				11/15/12
Carbazole	86-74-8		28	ug/L	92.5	35 - 129				11/15/12
Di-n-butylphthalate	84-74-2		25	ug/L	82.2	70 - 116				11/15/12
3,3-Dichlorobenzidine	91-94-1		18	ug/L	59.6	16 - 117				11/15/12
Bis-(2-Ethylhexyl)phthalate	117-81-7		24	ug/L	79.6	64 - 133				11/15/12
Di-n-octylphthalate	117-84-0		24	ug/L	79	57 - 134				11/15/12
Benzo(a)pyrene	50-32-8		25	ug/L	82.9	63 - 115				11/15/12
2-Picoline	109-06-8		24	ug/L	81	59 - 102				11/15/12

* - QC result out of range

n/a - Not Applicable

DECEMBER 12, 2012

Quality Control Report

Attention Scot Fitzgerald
 Department Organic, Semivolatiles

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1	21		ug/L	71.2	58 - 111				11/15/12
4-Chloroaniline	106-47-8	27		ug/L	89.7	43 - 125				11/15/12
MS										
QC Sample #85002										
Original 121439002										
4-Nitrophenol	100-02-7	12		ug/L	42.2	15 - 57				11/15/12
1,2,4-Trichlorobenzene	120-82-1	21		ug/L	74	51 - 104				11/15/12
Phenol	108-95-2	11		ug/L	39.1	24 - 65				11/15/12
1,4-Dichlorobenzene	106-46-7	14		ug/L	75.9	52 - 114				11/15/12
2,4-Dinitrotoluene	121-14-2	22		ug/L	77.6	57 - 112				11/15/12
Pyrene	129-00-0	20		ug/L	71.5	58 - 119				11/15/12
4-Chloro-3-methylphenol	59-50-7	23		ug/L	81	56 - 115				11/15/12
n-Nitroso-di-n-propylamine	621-64-7	22		ug/L	76	60 - 112				11/15/12
Acenaphthene	83-32-9	22		ug/L	76	60 - 113				11/15/12
Pentachlorophenol	87-86-5	24		ug/L	84.4	32 - 127				11/15/12
2-Chlorophenol	95-57-8	21		ug/L	73.5	52 - 113				11/15/12
n-Nitrosodimethylamine	62-75-9	19		ug/L	65.6	41 - 92				11/15/12
Benzyl alcohol	100-51-6	22		ug/L	76.6	56 - 107				11/15/12
2-Methylphenol	95-48-7	21		ug/L	73.1	46 - 114				11/15/12
Hexachloroethane	67-72-1	18		ug/L	64.9	48 - 102				11/15/12
2-Nitrophenol	88-75-5	21		ug/L	75.2	51 - 114				11/15/12
2,4-Dimethylphenol	105-67-9	23		ug/L	79.8	46 - 124				11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Semivolatiles

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
2,4-Dichlorophenol	120-83-2	21	ug/L	74.7	50 - 114					11/15/12
Anthracene	120-12-7	23	ug/L	79.9	64 - 116					11/15/12
Naphthalene	91-20-3	21	ug/L	73	57 - 110					11/15/12
2-Nitroaniline	88-74-4	24	ug/L	84.4	60 - 114					11/15/12
Dibenzofuran	132-64-9	23	ug/L	79.8	61 - 114					11/15/12
Fluorene	86-73-7	23	ug/L	80.4	63 - 116					11/15/12
Tributyl phosphate	126-73-8	23	ug/L	79.6	59 - 113					11/15/12
Hexachlorobenzene	118-74-1	22	ug/L	76.8	58 - 119					11/15/12
Dimethoate	60-51-5	12	ug/L	86.3	53 - 119					11/15/12
Carbazole	86-74-8	26	ug/L	90.2	41 - 122					11/15/12
Di-n-butylphthalate	84-74-2	23	ug/L	81.4	67 - 118					11/15/12
3,3-Dichlorobenzidine	91-94-1	14	ug/L	49.9	16 - 121					11/15/12
Bis-(2-Ethylhexyl)phthalate	117-81-7	23	ug/L	79.5	64 - 134					11/15/12
Di-n-octylphthalate	117-84-0	23	ug/L	82.7	40 - 143					11/15/12
Benzo(a)pyrene	50-32-8	23	ug/L	81.4	61 - 117					11/15/12
2-Picoline	109-06-8	23	ug/L	81.7	50 - 104					11/15/12
Bis(1-Chloro-2-propyl)ether	108-60-1	21	ug/L	73.1	58 - 112					11/15/12
4-Chloroaniline	106-47-8	26	ug/L	91	43 - 118					11/15/12
MSD		QC Sample #85003								
		Original 121439002								
		Paired 85002								
4-Nitrophenol	100-02-7	13	ug/L	45.9	15 - 57	8.50	20			11/15/12
1,2,4-Trichlorobenzene	120-82-1	21	ug/L	75.6	51 - 104	2.10	20			11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Semivolatiles

Group #

WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Phenol	108-95-2	12	ug/L	41.1	24 - 65	5.00	20			11/15/12
1,4-Dichlorobenzene	106-46-7	15	ug/L	78.4	52 - 114	3.30	20			11/15/12
2,4-Dinitrotoluene	121-14-2	23	ug/L	79.8	57 - 112	2.80	20			11/15/12
Pyrene	129-00-0	21	ug/L	75.4	58 - 119	5.30	20			11/15/12
4-Chloro-3-methylphenol	59-50-7	23	ug/L	81.4	56 - 115	0.50	20			11/15/12
n-Nitroso-di-n-propylamine	621-64-7	22	ug/L	77.5	60 - 112	2.00	20			11/15/12
Acenaphthene	83-32-9	22	ug/L	79.3	60 - 113	4.20	20			11/15/12
Pentachlorophenol	87-86-5	25	ug/L	89.4	32 - 127	5.70	20			11/15/12
2-Chlorophenol	95-57-8	22	ug/L	76.5	52 - 113	4.00	20			11/15/12
n-Nitrosodimethylamine	62-75-9	20	ug/L	69.5	41 - 92	5.70	20			11/15/12
Benzyl alcohol	100-51-6	22	ug/L	79.3	56 - 107	3.50	20			11/15/12
2-Methylphenol	95-48-7	21	ug/L	75.4	46 - 114	3.10	20			11/15/12
Hexachloroethane	67-72-1	19	ug/L	67.4	48 - 102	3.70	20			11/15/12
2-Nitrophenol	88-75-5	22	ug/L	76.2	51 - 114	1.30	20			11/15/12
2,4-Dimethylphenol	105-67-9	23	ug/L	81.2	46 - 124	1.80	20			11/15/12
2,4-Dichlorophenol	120-83-2	22	ug/L	76.8	50 - 114	2.70	20			11/15/12
Anthracene	120-12-7	24	ug/L	83.2	64 - 116	4.10	20			11/15/12
Naphthalene	91-20-3	21	ug/L	74.7	57 - 110	2.30	20			11/15/12
2-Nitroaniline	88-74-4	24	ug/L	85.8	60 - 114	1.70	20			11/15/12
Dibenzofuran	132-64-9	23	ug/L	82.3	61 - 114	3.10	20			11/15/12
Fluorene	86-73-7	23	ug/L	81.9	63 - 116	1.90	20			11/15/12
Tributyl phosphate	126-73-8	23	ug/L	80.2	59 - 113	0.80	20			11/15/12

* - QC result out of range

n/a - Not Applicable

DECEMBER 12, 2012

Quality Control Report

Attention Scot Fitzgerald
 Department Organic, Semivolatiles

Group #

WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Hexachlorobenzene	118-74-1	23	ug/L	82.2	58 - 119	6.80	20			11/15/12
Dimethoate	60-51-5	12	ug/L	86.6	53 - 119	0.30	20			11/15/12
Carbazole	86-74-8	27	ug/L	93.7	41 - 122	3.90	20			11/15/12
Di-n-butylphthalate	84-74-2	23	ug/L	82.8	67 - 118	1.70	20			11/15/12
3,3-Dichlorobenzidine	91-94-1	15	ug/L	53.4	16 - 121	6.80	20			11/15/12
Bis-(2-Ethylhexyl)phthalate	117-81-7	23	ug/L	82.9	64 - 134	4.20	20			11/15/12
Di-n-octylphthalate	117-84-0	22	ug/L	77.9	40 - 143	6.00	20			11/15/12
Benzo(a)pyrene	50-32-8	24	ug/L	83.1	61 - 117	2.10	20			11/15/12
2-Picoline	109-06-8	24	ug/L	85.9	50 - 104	5.10	20			11/15/12
Bis(1-Chloro-2-propyl)ether	108-60-1	21	ug/L	74.5	58 - 112	1.90	20			11/15/12
4-Chloroaniline	106-47-8	25	ug/L	89.4	43 - 118	1.80	20			11/15/12
LCSD		QC Sample #85004						Paired	85001	
4-Nitrophenol	100-02-7	13	ug/L	43.2	5 - 88	16.40	20			11/15/12
1,2,4-Trichlorobenzene	120-82-1	20	ug/L	68.2	50 - 105	3.00	20			11/15/12
Phenol	108-95-2	14	ug/L	45.4	18 - 89	5.80	20			11/15/12
1,4-Dichlorobenzene	106-46-7	14	ug/L	69.2	47 - 115	5.60	20			11/15/12
2,4-Dinitrotoluene	121-14-2	22	ug/L	73.3	59 - 110	8.60	20			11/15/12
Pyrene	129-00-0	20	ug/L	67.7	64 - 116	8.40	20			11/15/12
4-Chloro-3-methylphenol	59-50-7	23	ug/L	77.2	62 - 109	5.50	20			11/15/12
n-Nitroso-di-n-propylamine	621-64-7	22	ug/L	73.6	61 - 110	1.70	20			11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Semivolatiles

Group #

WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed	
Acenaphthene	83-32-9	22		ug/L	72.6	59 - 113	5.80	20		11/15/12	
Pentachlorophenol	87-86-5	22		ug/L	72.3	17 - 125	12.00	20		11/15/12	
2-Chlorophenol	95-57-8	21		ug/L	69.7	55 - 109	6.10	20		11/15/12	
n-Nitrosodimethylamine	62-75-9	20		ug/L	67.4	40 - 103	6.10	20		11/15/12	
Benzyl alcohol	100-51-6	23		ug/L	76.2	58 - 108	3.30	20		11/15/12	
2-Methylphenol	95-48-7	22		ug/L	72.2	59 - 107	2.80	20		11/15/12	
Hexachloroethane	67-72-1	18		ug/L	60	43 - 105	2.80	20		11/15/12	
2-Nitrophenol	88-75-5	21		ug/L	70.1	48 - 113	6.90	20		11/15/12	
2,4-Dimethylphenol	105-67-9	23		ug/L	77.5	58 - 113	2.90	20		11/15/12	
2,4-Dichlorophenol	120-83-2	21		ug/L	70.1	52 - 110	5.80	20		11/15/12	
Anthracene	120-12-7	23		ug/L	77.8	67 - 113	4.40	20		11/15/12	
Naphthalene	91-20-3	21		ug/L	68.5	55 - 110	4.30	20		11/15/12	
2-Nitroaniline	88-74-4	24		ug/L	79.4	57 - 114	7.00	20		11/15/12	
Dibenzofuran	132-64-9	22		ug/L	74.9	61 - 113	5.80	20		11/15/12	
Fluorene	86-73-7	23		ug/L	76	64 - 115	5.10	20		11/15/12	
Tributyl phosphate	126-73-8	22		ug/L	74.9	65 - 108	6.40	20		11/15/12	
Hexachlorobenzene	118-74-1	22		ug/L	74.4	60 - 117	5.20	20		11/15/12	
Dimethoate	60-51-5	12		ug/L	80.9	64 - 108	8.20	20		11/15/12	
Carbazole	86-74-8	26		ug/L	85.7	35 - 129	7.50	20		11/15/12	
Di-n-butylphthalate	84-74-2	23		ug/L	76.9	70 - 116	6.70	20		11/15/12	
3,3-Dichlorobenzidine	91-94-1	13		ug/L	42.9	16 - 117	32.50	20	*	X	11/15/12
Bis-(2-Ethylhexyl)phthalate	117-81-7	23		ug/L	75.3	64 - 133	5.60	20		11/15/12	

* - QC result out of range

n/a - Not Applicable

Quality Control Report**DECEMBER 12, 2012****Attention** Scot Fitzgerald
Department Organic, Semivolatiles**Group #**

WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Di-n-octylphthalate	117-84-0	22		ug/L	74.4	57 - 134	6.10	20		11/15/12
Benzo(a)pyrene	50-32-8	23		ug/L	78.3	63 - 115	5.70	20		11/15/12
2-Picoline	109-06-8	22		ug/L	74.2	59 - 102	8.70	20		11/15/12
Bis(1-Chloro-2-propyl)ether	108-60-1	20		ug/L	67	58 - 111	6.10	20		11/15/12
4-Chloroaniline	106-47-8	25		ug/L	83.8	43 - 125	6.80	20		11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Wet Chemistry

Group # WSCF121448

Analytical Batch 210653 (QC Batch: 210653) Test Total Alkalinity as mg/L CaCO₃ (Water)
 Associated Samples 121448008, 121448009, 121448010

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed	
LCS										QC Sample #85361	
Total Alkalinity as CaCO ₃	ALKALINITY	98	mg/L		97.6	80 - 120				11/14/12	
DUP										QC Sample #85362	
		Original 121448008									
Total Alkalinity as CaCO ₃	ALKALINITY	95	mg/L				0.00	20		11/14/12	
LCS										QC Sample #85363	
Total Alkalinity as CaCO ₃	ALKALINITY	97	mg/L		97.5	80 - 120				11/14/12	
LCS										QC Sample #85364	
Total Alkalinity as CaCO ₃	ALKALINITY	98	mg/L		97.7	80 - 120				11/14/12	

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121448

Analytical Batch 210922 (QC Batch: 210746) Test ICP-6010 - All possible metals
 Associated Samples 121448005, 121448006, 121448007, 121448008, 121448009, 121448010

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK										QC Sample #85447
Iron	7439-89-6	<19		ug/L				U		11/29/12
Magnesium	7439-95-4	<4.0		ug/L				U		11/29/12
Manganese	7439-96-5	<4.0		ug/L				U		11/29/12
Nickel	7440-02-0	<4.0		ug/L				U		11/29/12
Potassium	7440-09-7	<76		ug/L				U		11/29/12
Silver	7440-22-4	<4.0		ug/L				U		11/29/12
Sodium	7440-23-5	13.0		ug/L				B		11/29/12
Antimony	7440-36-0	<36		ug/L				U		11/29/12
Barium	7440-39-3	<4.0		ug/L				U		11/29/12
Cadmium	7440-43-9	<4.0		ug/L				U		11/29/12
Chromium	7440-47-3	<5.0		ug/L				U		11/29/12
Cobalt	7440-48-4	<4.0		ug/L				U		11/29/12
Copper	7440-50-8	<4.0		ug/L				U		11/29/12
Vanadium	7440-62-2	<5.0		ug/L				U		11/29/12
Zinc	7440-66-6	<5.0		ug/L				U		11/29/12
Calcium	7440-70-2	89.5		ug/L				B		11/29/12
Strontium	7440-24-6	<9.0		ug/L				U		11/29/12

* - QC result out of range

n/a - Not Applicable

DECEMBER 12, 2012

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Beryllium	7440-41-7	<4.0		ug/L					U	11/29/12
LCS										
Iron	7439-89-6	1030		ug/L	103.2	80 - 120				11/29/12
Magnesium	7439-95-4	10500		ug/L	105.2	80 - 120				11/29/12
Manganese	7439-96-5	1040		ug/L	104.2	80 - 120				11/29/12
Nickel	7440-02-0	1020		ug/L	101.5	80 - 120				11/29/12
Potassium	7440-09-7	11000		ug/L	109.8	80 - 120				11/29/12
Silver	7440-22-4	1040		ug/L	104	80 - 120				11/29/12
Sodium	7440-23-5	10700		ug/L	107	80 - 120				11/29/12
Antimony	7440-36-0	1050		ug/L	105.2	80 - 120				11/29/12
Barium	7440-39-3	1060		ug/L	106.3	80 - 120				11/29/12
Cadmium	7440-43-9	1030		ug/L	102.9	80 - 120				11/29/12
Chromium	7440-47-3	1040		ug/L	103.7	80 - 120				11/29/12
Cobalt	7440-48-4	1010		ug/L	101.3	80 - 120				11/29/12
Copper	7440-50-8	1050		ug/L	105.1	80 - 120				11/29/12
Vanadium	7440-62-2	1020		ug/L	102.5	80 - 120				11/29/12
Zinc	7440-66-6	1050		ug/L	105.1	80 - 120				11/29/12
Calcium	7440-70-2	20900		ug/L	104.4	80 - 120				11/29/12
Strontium	7440-24-6	1010		ug/L	100.9	80 - 120				11/29/12
Beryllium	7440-41-7	1040		ug/L	104.2	80 - 120				11/29/12
MS										
QC Sample #85450										
Original 121446004										
Iron	7439-89-6	1020		ug/L	102	75 - 125				11/29/12

* - QC result out of range

n/a - Not Applicable

DECEMBER 12, 2012

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Magnesium	7439-95-4	9890	ug/L	98.9	75 - 125					11/29/12
Manganese	7439-96-5	1020	ug/L	101.8	75 - 125					11/29/12
Nickel	7440-02-0	982	ug/L	98.2	75 - 125					11/29/12
Potassium	7440-09-7	10700	ug/L	106.6	75 - 125					11/29/12
Silver	7440-22-4	1020	ug/L	102.1	75 - 125					11/29/12
Sodium	7440-23-5	10200	ug/L	102.5	75 - 125					11/29/12
Antimony	7440-36-0	1040	ug/L	103.7	75 - 125					11/29/12
Barium	7440-39-3	1040	ug/L	103.6	75 - 125					11/29/12
Cadmium	7440-43-9	1010	ug/L	100.6	75 - 125					11/29/12
Chromium	7440-47-3	1010	ug/L	100.8	75 - 125					11/29/12
Cobalt	7440-48-4	978	ug/L	97.8	75 - 125					11/29/12
Copper	7440-50-8	1030	ug/L	103.3	75 - 125					11/29/12
Vanadium	7440-62-2	1010	ug/L	100.9	75 - 125					11/29/12
Zinc	7440-66-6	1030	ug/L	103.4	75 - 125					11/29/12
Calcium	7440-70-2	19400	ug/L	97.2	75 - 125					11/29/12
Strontium	7440-24-6	971	ug/L	97.1	75 - 125					11/29/12
Beryllium	7440-41-7	1020	ug/L	102.3	75 - 125					11/29/12
MSD		QC Sample #85451								
		Original 121446004					Paired 85450			
Iron	7439-89-6	1010	ug/L	101.2	75 - 125	0.80	20			11/29/12
Magnesium	7439-95-4	9940	ug/L	99.4	75 - 125	0.20	20			11/29/12
Manganese	7439-96-5	1010	ug/L	101.2	75 - 125	0.60	20			11/29/12
Nickel	7440-02-0	978	ug/L	97.8	75 - 125	0.50	20			11/29/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Inorganic

Group #

WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Potassium	7440-09-7	10700	ug/L	106.7	75 - 125	0.10	20			11/29/12
Silver	7440-22-4	1020	ug/L	101.6	75 - 125	0.50	20			11/29/12
Sodium	7440-23-5	10200	ug/L	102.5	75 - 125	0.00	20			11/29/12
Antimony	7440-36-0	1030	ug/L	102.9	75 - 125	0.80	20			11/29/12
Barium	7440-39-3	1030	ug/L	103	75 - 125	0.50	20			11/29/12
Cadmium	7440-43-9	1000	ug/L	100.3	75 - 125	0.30	20			11/29/12
Chromium	7440-47-3	1000	ug/L	100.2	75 - 125	0.60	20			11/29/12
Cobalt	7440-48-4	976	ug/L	97.6	75 - 125	0.20	20			11/29/12
Copper	7440-50-8	1020	ug/L	102.3	75 - 125	1.00	20			11/29/12
Vanadium	7440-62-2	1000	ug/L	100.2	75 - 125	0.70	20			11/29/12
Zinc	7440-66-6	1020	ug/L	102.5	75 - 125	0.90	20			11/29/12
Calcium	7440-70-2	19800	ug/L	99.2	75 - 125	0.70	20			11/29/12
Strontium	7440-24-6	963	ug/L	96.3	75 - 125	0.70	20			11/29/12
Beryllium	7440-41-7	1020	ug/L	101.8	75 - 125	0.50	20			11/29/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121448

Analytical Batch 211021 (QC Batch: 210947) Test ICP-2008 MS All possible metal
 Associated Samples 121448005

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK										
QC Sample #85772										
Antimony	7440-36-0	<0.30		ug/L				U		11/30/12
Lead	7439-92-1	<0.050		ug/L				U		11/30/12
Mercury	7439-97-6	<0.050		ug/L				U		11/30/12
Thallium	7440-28-0	<0.050		ug/L				U		11/30/12
Tin	7440-31-5	<0.050		ug/L				U		11/30/12
Arsenic	7440-38-2	<0.20		ug/L				U		11/30/12
Selenium	7782-49-2	<1.0		ug/L				U		11/30/12
LCS										
QC Sample #85773										
Antimony	7440-36-0	40.8		ug/L	102	85 - 115				11/30/12
Lead	7439-92-1	42.3		ug/L	105.6	85 - 115				11/30/12
Mercury	7439-97-6	1.92		ug/L	95.8	85 - 115				11/30/12
Thallium	7440-28-0	41.4		ug/L	103.5	85 - 115				11/30/12
Tin	7440-31-5	41.0		ug/L	102.5	85 - 115				11/30/12
Arsenic	7440-38-2	39.5		ug/L	98.7	85 - 115				11/30/12
Selenium	7782-49-2	37.3		ug/L	93.2	85 - 115				11/30/12
MS										
QC Sample #85774										
Original 121448005										

* - QC result out of range

n/a - Not Applicable

DECEMBER 12, 2012

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Antimony	7440-36-0	<0.30	41.7	ug/L	104.2	70 - 130				11/30/12
Lead	7439-92-1	0.210	44.2	ug/L	110.5	70 - 130				11/30/12
Mercury	7439-97-6	0.508	2.17	ug/L	108.6	70 - 130				11/30/12
Thallium	7440-28-0	<0.050	43.1	ug/L	107.8	70 - 130				11/30/12
Tin	7440-31-5	0.374	41.3	ug/L	103.3	70 - 130				11/30/12
Arsenic	7440-38-2	7.28	40.6	ug/L	101.6	70 - 130				11/30/12
Selenium	7782-49-2	10.7	37.7	ug/L	94.4	70 - 130				11/30/12
MSD					QC Sample #85775					
					Original 121448005				Paired 85774	
Antimony	7440-36-0	<0.30	41.7	ug/L	104.2	70 - 130	0.10	20		11/30/12
Lead	7439-92-1	0.210	44.1	ug/L	110.2	70 - 130	0.30	20		11/30/12
Mercury	7439-97-6	0.508	2.18	ug/L	108.9	70 - 130	0.20	20		11/30/12
Thallium	7440-28-0	<0.050	43.4	ug/L	108.5	70 - 130	0.70	20		11/30/12
Tin	7440-31-5	0.374	41.7	ug/L	104.1	70 - 130	0.80	20		11/30/12
Arsenic	7440-38-2	7.28	40.5	ug/L	101.3	70 - 130	0.30	20		11/30/12
Selenium	7782-49-2	10.7	36.5	ug/L	91.2	70 - 130	2.60	20		11/30/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Inorganic

Group # WSCF121448

Analytical Batch 211289 (QC Batch: 211122) Test ICP-2008 MS All possible metal
 Associated Samples 121448006, 121448007, 121448008, 121448009, 121448010

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK										
QC Sample #85827										
Antimony	7440-36-0	<0.30	ug/L					U		12/10/12
Lead	7439-92-1	<0.050	ug/L					U		12/10/12
Mercury	7439-97-6	<0.050	ug/L					U		12/10/12
Thallium	7440-28-0	<0.050	ug/L					U		12/10/12
Tin	7440-31-5	<0.050	ug/L					U		12/10/12
Arsenic	7440-38-2	<0.20	ug/L					U		12/10/12
Selenium	7782-49-2	<1.0	ug/L					U		12/10/12
LCS										
QC Sample #85828										
Antimony	7440-36-0	41.1	ug/L	102.8	85 - 115					12/10/12
Lead	7439-92-1	42.5	ug/L	106.4	85 - 115					12/10/12
Mercury	7439-97-6	1.90	ug/L	94.8	85 - 115					12/10/12
Thallium	7440-28-0	42.0	ug/L	105	85 - 115					12/10/12
Tin	7440-31-5	41.7	ug/L	104.2	85 - 115					12/10/12
Arsenic	7440-38-2	41.9	ug/L	104.7	85 - 115					12/10/12
Selenium	7782-49-2	39.5	ug/L	98.7	85 - 115					12/10/12
MS										
QC Sample #85829										
Original 121448006										

* - QC result out of range

n/a - Not Applicable

DECEMBER 12, 2012

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Antimony	7440-36-0	<0.30	41.5	ug/L	103.6	70 - 130				12/10/12
Lead	7439-92-1	0.214	41.6	ug/L	103.9	70 - 130				12/10/12
Mercury	7439-97-6	<0.050	2.04	ug/L	102.2	70 - 130				12/10/12
Thallium	7440-28-0	<0.050	41.4	ug/L	103.6	70 - 130				12/10/12
Tin	7440-31-5	0.663	41.3	ug/L	103.2	70 - 130				12/10/12
Arsenic	7440-38-2	4.90	41.4	ug/L	103.4	70 - 130				12/10/12
Selenium	7782-49-2	7.16	39.3	ug/L	98.2	70 - 130				12/10/12
MSD					QC Sample #85830					
					Original 121448006				Paired 85829	
Antimony	7440-36-0	<0.30	40.4	ug/L	100.9	70 - 130	2.70	20		12/10/12
Lead	7439-92-1	0.214	40.3	ug/L	100.8	70 - 130	3.00	20		12/10/12
Mercury	7439-97-6	<0.050	2.03	ug/L	101.3	70 - 130	0.80	20		12/10/12
Thallium	7440-28-0	<0.050	40.5	ug/L	101.2	70 - 130	2.30	20		12/10/12
Tin	7440-31-5	0.663	40.0	ug/L	100.1	70 - 130	3.00	20		12/10/12
Arsenic	7440-38-2	4.90	39.8	ug/L	99.6	70 - 130	3.30	20		12/10/12
Selenium	7782-49-2	7.16	37.7	ug/L	94.2	70 - 130	3.50	20		12/10/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF121448

Analytical Batch 210346 (QC Batch: 210345) Test SW-846 8260B Volatiles
 Associated Samples 121448004, 121448008, 121448009, 121448010

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE		Sample #121448004								
1,2-Dichloroethane-d4	17060-07-0				97.5	75 - 125				11/15/12
Toluene-d8	2037-26-5				94.8	75 - 125				11/15/12
4-Bromofluorobenzene	460-00-4				99.6	75 - 125				11/15/12
SAMPLE		Sample #121448008								
1,2-Dichloroethane-d4	17060-07-0				101.5	75 - 125				11/15/12
Toluene-d8	2037-26-5				93.2	75 - 125				11/15/12
4-Bromofluorobenzene	460-00-4				99.4	75 - 125				11/15/12
SAMPLE		Sample #121448009								
1,2-Dichloroethane-d4	17060-07-0				101.7	75 - 125				11/15/12
Toluene-d8	2037-26-5				93.2	75 - 125				11/15/12
4-Bromofluorobenzene	460-00-4				100.3	75 - 125				11/15/12
SAMPLE		Sample #121448010								
1,2-Dichloroethane-d4	17060-07-0				101.7	75 - 125				11/15/12

* - QC result out of range

n/a - Not Applicable

DECEMBER 12, 2012

Quality Control Report

Attention Scot Fitzgerald
 Department Organic, Volatiles

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Toluene-d8	2037-26-5				94.2	75 - 125				11/15/12
4-Bromofluorobenzene	460-00-4				99	75 - 125				11/15/12
BLANK										
					QC Sample #85126					
1,2-Dichloroethane-d4	17060-07-0				98.5	75 - 125				11/15/12
Toluene-d8	2037-26-5				94.5	75 - 125				11/15/12
4-Bromofluorobenzene	460-00-4				99.6	75 - 125				11/15/12
LCS										
					QC Sample #85127					
1,2-Dichloroethane-d4	17060-07-0				99.8	75 - 125				11/15/12
Toluene-d8	2037-26-5				92.8	75 - 125				11/15/12
4-Bromofluorobenzene	460-00-4				94.8	75 - 125				11/15/12
MS										
					QC Sample #85128					
					Original 121450005					
1,2-Dichloroethane-d4	17060-07-0				99.8	75 - 125				11/15/12
Toluene-d8	2037-26-5				93.7	75 - 125				11/15/12
4-Bromofluorobenzene	460-00-4				95.8	75 - 125				11/15/12
MSD										
					QC Sample #85129					
					Original 121450005					
1,2-Dichloroethane-d4	17060-07-0				97.9	75 - 125	n/a			11/15/12
Toluene-d8	2037-26-5				93	75 - 125	n/a			11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report**DECEMBER 12, 2012****Attention** Scot Fitzgerald
Department Organic, Volatiles**Group #** WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
4-Bromofluorobenzene	460-00-4				95.3	75 - 125	n/a			11/15/12

* - QC result out of range n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Analytical Batch 210418 (QC Batch: 210318) **Test** SW-846 8270D Semivolatiles
Associated Samples 121448008, 121448009, 121448010

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE										Sample #121448008
2-Fluorophenol	367-12-4				57.4	34 - 103				11/15/12
Phenol-d5	4165-62-2				40.1	10 - 93				11/15/12
Nitrobenzene-d5	4165-60-0				78.5	49 - 133				11/15/12
2-Methylnaphthalene-d10	7297-45-2				80.9	60 - 135				11/15/12
2-Fluorobiphenyl	321-60-8				82.6	48 - 132				11/15/12
2,4,6-Tribromophenol	118-79-6				76.9	33 - 134				11/15/12
Fluoranthene-d10	93951-69-0				90.8	62 - 139				11/15/12
Terphenyl-d14	98904-43-9				83.3	56 - 138				11/15/12
SAMPLE										Sample #121448009
2-Fluorophenol	367-12-4				61.8	34 - 103				11/15/12
Phenol-d5	4165-62-2				42.6	10 - 93				11/15/12
Nitrobenzene-d5	4165-60-0				81.9	49 - 133				11/15/12
2-Methylnaphthalene-d10	7297-45-2				84	60 - 135				11/15/12
2-Fluorobiphenyl	321-60-8				83.8	48 - 132				11/15/12
2,4,6-Tribromophenol	118-79-6				77.6	33 - 134				11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Fluoranthene-d10	93951-69-0				92.5	62 - 139				11/15/12
Terphenyl-d14	98904-43-9				77.8	56 - 138				11/15/12
SAMPLE					Sample #121448010					
2-Fluorophenol	367-12-4				57.6	34 - 103				11/15/12
Phenol-d5	4165-62-2				38.7	10 - 93				11/15/12
Nitrobenzene-d5	4165-60-0				78.2	49 - 133				11/15/12
2-Methylnaphthalene-d10	7297-45-2				81.7	60 - 135				11/15/12
2-Fluorobiphenyl	321-60-8				81.7	48 - 132				11/15/12
2,4,6-Tribromophenol	118-79-6				74.6	33 - 134				11/15/12
Fluoranthene-d10	93951-69-0				88.6	62 - 139				11/15/12
Terphenyl-d14	98904-43-9				76.9	56 - 138				11/15/12
BLANK					QC Sample #85000					
2-Fluorophenol	367-12-4				59.2	34 - 103				11/15/12
Phenol-d5	4165-62-2				43.1	10 - 93				11/15/12
Nitrobenzene-d5	4165-60-0				75.8	49 - 133				11/15/12
2-Methylnaphthalene-d10	7297-45-2				78	60 - 135				11/15/12
2-Fluorobiphenyl	321-60-8				78	48 - 132				11/15/12
2,4,6-Tribromophenol	118-79-6				74.5	33 - 134				11/15/12
Fluoranthene-d10	93951-69-0				88.4	62 - 139				11/15/12
Terphenyl-d14	98904-43-9				75.6	56 - 138				11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Semivolatiles

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS										QC Sample #85001
2-Fluorophenol	367-12-4				63.6	34 - 103				11/15/12
Phenol-d5	4165-62-2				48	10 - 93				11/15/12
Nitrobenzene-d5	4165-60-0				78.5	49 - 133				11/15/12
2-Methylnaphthalene-d10	7297-45-2				79.6	60 - 135				11/15/12
2-Fluorobiphenyl	321-60-8				80.4	48 - 132				11/15/12
2,4,6-Tribromophenol	118-79-6				84	33 - 134				11/15/12
Fluoranthene-d10	93951-69-0				92.4	62 - 139				11/15/12
Terphenyl-d14	98904-43-9				78.6	56 - 138				11/15/12
MS										QC Sample #85002
										Original 121439002
2-Fluorophenol	367-12-4				55.1	34 - 103				11/15/12
Phenol-d5	4165-62-2				37.6	10 - 93				11/15/12
Nitrobenzene-d5	4165-60-0				77.4	49 - 133				11/15/12
2-Methylnaphthalene-d10	7297-45-2				79.7	60 - 135				11/15/12
2-Fluorobiphenyl	321-60-8				80.1	48 - 132				11/15/12
2,4,6-Tribromophenol	118-79-6				82.1	33 - 134				11/15/12
Fluoranthene-d10	93951-69-0				90	62 - 139				11/15/12
Terphenyl-d14	98904-43-9				75.8	56 - 138				11/15/12
MSD										QC Sample #85003
										Original 121439002
2-Fluorophenol	367-12-4				59.5	34 - 103	n/a			Paired 85002
										11/15/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

DECEMBER 12, 2012

Attention Scot Fitzgerald
 Department Organic, Semivolatiles

Group # WSCF121448

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Phenol-d5	4165-62-2				40	10 - 93	n/a			11/15/12
Nitrobenzene-d5	4165-60-0				79.6	49 - 133	n/a			11/15/12
2-Methylnaphthalene-d10	7297-45-2				81.9	60 - 135	n/a			11/15/12
2-Fluorobiphenyl	321-60-8				83.1	48 - 132	n/a			11/15/12
2,4,6-Tribromophenol	118-79-6				85.4	33 - 134	n/a			11/15/12
Fluoranthene-d10	93951-69-0				92.8	62 - 139	n/a			11/15/12
Terphenyl-d14	98904-43-9				78.9	56 - 138	n/a			11/15/12
LCSD			QC Sample #85004					Paired 85001		
2-Fluorophenol	367-12-4				61.9	34 - 103	n/a			11/15/12
Phenol-d5	4165-62-2				47.3	10 - 93	n/a			11/15/12
Nitrobenzene-d5	4165-60-0				76.8	49 - 133	n/a			11/15/12
2-Methylnaphthalene-d10	7297-45-2				71.6	60 - 135	n/a			11/15/12
2-Fluorobiphenyl	321-60-8				73.3	48 - 132	n/a			11/15/12
2,4,6-Tribromophenol	118-79-6				76.8	33 - 134	n/a			11/15/12
Fluoranthene-d10	93951-69-0				89.7	62 - 139	n/a			11/15/12
Terphenyl-d14	98904-43-9				74.7	56 - 138	n/a			11/15/12

* - QC result out of range

n/a - Not Applicable

Tentatively Identified Peak Report**DECEMBER 12, 2012****Attention** Scot Fitzgerald
Department Organic, Volatiles**Group #** WSCF121448

Peak Name	CAS #	RT	RQ	Result	Units
121448010 Unknown	B2MN42 UNKNOWN-01	16.166		44	ug/L

Attention: Scot Fitzgerald

Group #

WSCF121448

Quality Control Comments**Department** Inorganic

84842 B2MXP1(121449004MS)

Analyte Chloride - Anions by Ion Chromatography (Water)

[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Nitrate-N - Anions by Ion Chromatography (Water)

[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Sulfate - Anions by Ion Chromatography (Water)

[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

84843 B2MXP1(121449004MSD)

Analyte Chloride - Anions by Ion Chromatography (Water)

[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Nitrate-N - Anions by Ion Chromatography (Water)

[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Analyte Sulfate - Anions by Ion Chromatography (Water)

[1] X5: Sample concentration exceed spiking level by a factor of 4. Spike recoveries are not valid.

Attention: Scot Fitzgerald

Group #

WSCF121448

Quality Control Comments

Department Organic, Semivolatiles

85004 LCSD for HBN 210318 [ORGP/2032]

Analyte 3,3-Dichlorobenzidine - SW-846 8270D Semivolatiles

[1] Matrix Spike RPD outside established laboratory limits No flags assigned.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 13 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: Scot Fitzgerald

Customer Code: CHPRC

PO #: 401647

Work Order #: 121448

Profile #: W13-011-082

Proj. Mgr.:

Phone:

The following samples were received from you on 11/12/2012 12:45:00 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				
121448001	B2MN43	WATER	11/12/2012 11:57	11/12/2012 12:45
		IC-W		
121448002	B2MN48	WATER	11/12/2012 11:07	11/12/2012 12:45
		IC-W		
121448003	B2MN76	WATER	11/12/2012 09:55	11/12/2012 12:45
		IC-W		
121448004	B2N2P2	WATER	11/12/2012 09:55	11/12/2012 12:45
		8260V-W		
121448005	B2MN77	WATER	11/12/2012 09:55	11/12/2012 12:45
		2008-W; 6010-W		
121448006	B2MN49	WATER	11/12/2012 11:07	11/12/2012 12:45
		2008-W; 6010-W		
121448007	B2MN44	WATER	11/12/2012 11:57	11/12/2012 12:45
		2008-W; 6010-W		
121448008	B2MN75	WATER	11/12/2012 09:55	11/12/2012 12:45
		2008-W; 6010-W; 8260V-W; 8270SV-W; ALK-W; CN-W		
121448009	B2MN47	WATER	11/12/2012 11:07	11/12/2012 12:45
		2008-W; 6010-W; 8260V-W; 8270SV-W; ALK-W; CN-W		
121448010	B2MN42	WATER	11/12/2012 11:57	11/12/2012 12:45
		2008-W; 6010-W; 8260V-W; 8270SV-W; ALK-W; CN-W		

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

Test Acronym Description

Test Acronym	Description
2008-W	ICP-MS (W)
6010-W	ICP-AES (W)
8260V-W	Volatiles by 8260B (W)
8270SV-W	Semivolatiles by 8270D (W)
ALK-W	Total Alkalinity (W)
CN-W	Cyanide (Spectroscopy) (W)
IC-W	Anions by IC (W)

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. #																																																							
						W13-011-082																																																							
						Page 1 of 1																																																							
Collector	B.E. Briggs CHPRC	Connector Requester	Karen Waters-Husted	Telephone No.	376-4650																																																								
SAF No.	W13-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20																																																								
Project Title	RCRA, NOVEMBER 2012	Logbook No.	HNF-N-506 51 /44	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:	31 Days	PRIORITY																																																									
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 (1996)(1999)																																																													
Sample No.	Filter *	Date	Time	Sample Analysis	Holding Time																																																								
B2MN43	N	W	11/12/12	1x500-mL P	300.0_ANIONS_IC List 1(5)																																																								
				48 Hours	Preservative Cool-4C																																																								
<table border="1"> <tr> <td>Relinquished By</td> <td>Print</td> <td>Sign</td> <td>Date/Time</td> <td>Received By</td> <td>Print</td> <td>Sign</td> <td>Date/Time</td> </tr> <tr> <td>B.E. Briggs CHPRC</td> <td><i>B.E. Briggs</i></td> <td><i>B.E. Briggs</i></td> <td>NOV 12 2012</td> <td>Cynthia R Johnson</td> <td><i>Cynthia R Johnson</i></td> <td><i>Cynthia R Johnson</i></td> <td>NOV 12 2012</td> </tr> <tr> <td>Relinquished By</td> <td></td> <td></td> <td>Date/Time</td> <td>Received By</td> <td></td> <td></td> <td>Date/Time</td> </tr> <tr> <td>Relinquished By</td> <td></td> <td></td> <td>Date/Time</td> <td>Received By</td> <td></td> <td></td> <td>Date/Time</td> </tr> <tr> <td>Relinquished By</td> <td></td> <td></td> <td>Date/Time</td> <td>Received By</td> <td></td> <td></td> <td>Date/Time</td> </tr> <tr> <td>Final Sample Disposition</td> <td colspan="5">Disposal Method (e.g., Return to customer, per lab procedure, used in process)</td> <td colspan="2">Disposed By</td> </tr> <tr> <td></td> <td colspan="5"></td> <td colspan="2">Date/Time</td> </tr> </table>						Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	B.E. Briggs CHPRC	<i>B.E. Briggs</i>	<i>B.E. Briggs</i>	NOV 12 2012	Cynthia R Johnson	<i>Cynthia R Johnson</i>	<i>Cynthia R Johnson</i>	NOV 12 2012	Relinquished By			Date/Time	Received By			Date/Time	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 customer, per lab procedure, used in process)					Disposed By								Date/Time	
Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time																																																						
B.E. Briggs CHPRC	<i>B.E. Briggs</i>	<i>B.E. Briggs</i>	NOV 12 2012	Cynthia R Johnson	<i>Cynthia R Johnson</i>	<i>Cynthia R Johnson</i>	NOV 12 2012																																																						
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Final Sample Disposition	Disposal Method (e.g., Return to customer, per lab procedure, used in process)					Disposed By																																																							
						Date/Time																																																							

Matrix *

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

Chain of Custody

CII2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. #
W13-011-084

Page 1 of 1

Collector 3 E. Briggs CHPRC	Contact/Requester Karen Walters-Husted	Telephone No. 376-4650					
SAF No. W13-011	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071ES20					
Project Title RCRA, NOVEMBER 2012	Logbook No. HINF-N-505 51 /44	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: 31 Days	Offsite Property No. N/A					
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radionuclide Material at concentrations that are not regulated for transportation per 49 CFR; but are not releasable per DOE Order 5400.5 (1990,1993)		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
Sample No. B2MN48 2	Filter * N	Date 11-12-12	Time 1107	No/Type Container 1x500-mL P	SPECIAL INSTRUCTIONS FY12 and FY13 samples cannot be in the same SDG. Site Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.	Holding Time 48 Hours	Preservative Cool-4C

Relinquished By CHPRC J. Briggs	Sign J. Briggs	Date/Time NOV 12 2012 1805	Received By Cynthia R. Johnson	Date/Time NOV 12 2012 1805	Matrix *
Relinquished By	Date/Time	Received By	Date/Time	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air	DS = Drilled Solids DL = Drilled Liquids T = Tissue WI = Wine 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 customer, per lab procedure, used in process)				

Chain of Custody

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. #
						W13-011-096
						Page 1 of 1
Collector	B.E. Biggs CHPRC	Contact/Requester	Karen Waters Husted	Telephone No.	376-4650	
SAC No.	W13-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20	
Project Title	RCRA, NOVEMBER 2012	Logbook No.	HNF-N-506 51 / 44	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:	31 Days	PRIORITY	Office Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS						
*** Cominac Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)						
Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	
B2MN76 3	N	W	11-12-12 0955	1x500-mL P	300.0 ANIONS IC: List-1 (5)	
				Holding Time	Total Activity Exception: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
				40 Hours	Preservative	
				Cool -4C		
SPECIAL INSTRUCTIONS: Hold Time: IV12 and IV13 samples cannot be in the same SDG. Site Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 40.647.						
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)					
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Chain of Custody

CH2MHill Plateau Remediation Company						CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			C.O.C. # X13-002-042	Page 1 of 1
Collector SAF No.	B.E. Bridges CHPRC X13-002	Contact/Requester Sampling Origin	WATERS-HUSTED, K Hanford Site	Telephone No.	376-4650					
Project Title	GW Sitewide Surv, FY13	Logbook No.	HNF-N-5051 / 44	Purchase Order/Charge Code	300071ES20					
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE	Ice Chest No.	N/A					
Protocol	SURV	Priority:	31 Days	Offsite Property No.	N/A					
POSSIBLE SAMPLE HAZARDS/REMARKS						SPECIAL INSTRUCTIONS				
Contains Radioactive Material at concentrations that may or may well be regulated for transportation per 49 CFR/DOE Dangerous Goods Regulations but are not releasable per DOE Order 458.1.						Site-Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401617. FY12 and FY13 samples cannot be in the same SDC.				
Sample No.	Filter	*	Date	Time	No/Type/Container	Sample Analysis	Holding Time	Preservative		
B2N2P2	4	N	W	11-12-12 0955	1x20-mL P	Activity Scan	6 Months	None		
B2N2P2	↓	N	W	↓	3x40-mL aCs*	8260_VOA_GCMS_1st-2 (25)	14 Days	HCl or H ₂ SO ₄ to pH <2/Cool-4C		
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Disposed By	Date/Time				

Relinquished By: Bridges CHPRC *[Signature]* NOV 12 2012 *[Signature]* Received By **Cynthia R Johnson** *[Signature]* NOV 12 2012 *[Signature]* Matrix * *[Signature]*

Relinquished By	Date/Time	Received By	Date/Time	S: = Soil SE: = Sediment SO: = Solid SL: = Sludge W: = Water O: = Oil A: = Air	DS: = Drum Solids DL: = Drum Liquids T: = Tissue WT: = Wipe L: = Liquid V: = Vegetation X: = Other
Relinquished By	Date/Time	Received By	Date/Time		
Relinquished By	Date/Time	Received By	Date/Time		

Sample Receipt

DECEMBER 12, 2012

Chain of Custody

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	
		C.O.C. # W13-011-095	
		Page 1 of 2	
Collector	B.E. Bridges CH2MHill	Contact/Requester	Karen Waters-Husted
SAF No.	W13-011	Sampling Origin	Ilanford Site
Project Title	RCRA, NOVEMBER 2012	Logbook No.	HNF-N-506, 51 / 24
Shipped To (Lab)	Waste Sampling & Characterization	Method of Shipment	GOVERNMENT VEHICLE
Protocol	RCRA	Priority:	31 Days
		PRIORITY	

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 <input checked="" type="checkbox"/> No <input type="checkbox"/>
FY12 and FY13 samples cannot be in the same SDC. Site Wide Generator Knowledge Information Form applies.	The CALCN for all analytical work at WSCF is 401547.		

Sample No.	Filter	+	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2MN75 Q	N	W	11-12-12	0955	1x500-mL G/P	200.8_METALS_ICPMS; Antimony (1); 200.8_METALS_ICPMS; Arsenic (1); 200.8_METALS_ICPMS; Lead (1); 200.8_METALS_ICPMS; Selenium (1); 200.8_METALS_ICPMS; Thallium (1); 200.8_METALS_ICPMS; Tin (1); 2320_ALKALINITY; Alkalinity (1);	28 Days 6 Months	HNO3 to pH <2 HNO3 to pH <2
B2MN75	N	W			1x250-mL G/P	4500E_CNI; Cyanide (1);	14 Days	Cool~4C
B2MN75	N	W			1x250-mL G/P	60.10_METALS_ICP; List 3 (18);	14 Days	NaOH to pH >=12 HNO3 to pH <2
B2MN75	N	W			3x40-mL aG3*	8260_VOA_GCMS_IK; COMMON	7/40 Days	HCl or H2SO4 to pH >=2/Cool~4C
B2MN75	N	W			4x1-L aG	8270_SVOA_GCMS_IK; COMMON	28 Days	Cool~4C
B2MN77 S	Y	W			1x500-mL G	200.8_HG - ICPMS	6 Months	HNO3 to pH <2
B2MN77 S	Y	W	11-12-12	0955	1x500-mL G/P	200.8_METALS_ICPMS; Antimony (1); 200.8_METALS_ICPMS; Arsenic (1); 200.8_METALS_ICPMS; Lead (1); 200.8_METALS_ICPMS; Selenium (1); 200.8_METALS_ICPMS; Thallium (1); 200.8_METALS_ICPMS; Tin (1);		
Retain Sample By BE Bridges		Sign	Date/Time		Received By	Sign	Date/Time	Matrix *
Retain Sample By BE Bridges								
Retain Sample By					Received By		Date/Time	S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil L = Liquid V = Viscous X = Other
Retain Sample By					Received By		Date/Time	
Retain Sample By					Received By		Date/Time	
Final Sample Disposition	Disposal Method (e.g., Return to customer, per lab procedure, used in process)							

Sample Receipt

DECEMBER 12, 2012

Chain of Custody

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST						C.O.C. #
						W13-011-095
						Page 2 of 2
CH2MHill Plateau Remediation Company	Collector	SAF No.	Project Title	Shipped To (Lab)	Protocol	
B.E. Bridges CH2MHill	W13-011	RCRA, NOVEMBER 2012	Waste Sampling & Characterization	RCRA	POSSUM 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)	
Sample No.	Filter	Date	Time	No/Type Container	PRIORITY	
B2MN/77 5	Y	w	11-12-12 0955	1x500-mL GPP	31 Days	SPECIA.L INSTRUCTIONS
						Hold Time
						Total Activity Exemption
						Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
						Preservative
						1MNO3 to pH <2
Sample Analysis				Holding Time		
				6 Months		
Disposed By						
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)					
	Date/Time					

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Chain of Custody

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		
			C.O.C. # W13-011-083
			Page 1 of 2

Collector S.E. Boggs CH2MHill	Contact/Requester W13-011	Telephone No. 376-4650					
SAF No.	Sampling Origin Hanford Site	Purchase Order/Charge Code 300071ES20					
Project Title RCRA, NOVEMBER 2012	Logbook No. HNF-N-506 51 / 44	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: 31 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 (1990/1992)							
Sample No. B2MN49	Filter Y	Date 11-12-12	Time 1107	No/Type Container 1x500-mL G/P	Sample Analysis 200.8_ICPMS	Holding Time 28 Days	Preservative HNO3 to pH <2
B2MN49	Y	W			200.8_METALS_ICPMS; Antimony (1); 200.8_METALS_ICPMS; Arsenic (1); 200.8_METALS_ICPMS; Lead (1); 200.8_METALS_ICPMS; Selenium (1); 200.8_METALS_ICPMS; Thallium (1); 200.8_METALS_ICPMS; Tin (1)	6 Months	HNO3 to pH <2
B2MN49	Y	W		1x500-mL G/P	6010_HG_ICPMS	6 Months	HNO3 to pH <2
B2MN47	Q	N		1x500-mL G/P	200.8_HG_ICPMS; List-3 (18)	28 Days	HNO3 to pH <2
B2MN47	N	W		1x500-mL G/P	200.8_METALS_ICPMS; Antimony (1); 200.8_METALS_ICPMS; Arsenic (1); 200.8_METALS_ICPMS; Lead (1); 200.8_METALS_ICPMS; Selenium (1); 200.8_METALS_ICPMS; Thallium (1); 200.8_METALS_ICPMS; Tin (1)	6 Months	HNO3 to pH <2
B2MN47	N	W		1x250-mL G/P	2320ALKALINITY; Alkalinity (1)	14 Days	Cool-4C
B2MN47	N	W		1x250-mL G/P	4500ECN; Cyanide (1)	14 Days	NaOH to pH >=12
B2MN47	N	W		1x500-mL G/P	6010_METALS_ICP; List-3 (18)	6 Months	HNO3 to pH <2
B2MN47	N	W	11-12-12	1107	8260_VOA_GCMS_IK; COMMON 3x40-mL GAs*	14 Days	HCl or H2SO4 to pH <2/Cool-4C
Relinquished By <i>CH2MHill</i> <i>S. Boggs</i>			Received By <i>Cynthia R. Johnson</i>	Date/Time NOV 12 2012 18:05	Date/Time NOV 12 2012 18:05	Matrix * S = Soil DS = Drum Solids SE = Sediment DL = Drum Liquids SO = Solid T = Tissue SL = Sludge WI = Water W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other	
Relinquished By		Date/Time	Received By	Date/Time	Date/Time		
Relinquished By		Date/Time	Received By	Date/Time	Date/Time		
Relinquished By		Date/Time	Received By	Date/Time	Date/Time		
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						

Sample Receipt

DECEMBER 12, 2012

Chain of Custody

Relinquished By B.E. Boggs CHPRC	Print Name <i>Be Boggs</i>	Sign <i>Be Boggs</i>	Date/Time NOV 12 2012 12:45	Received By Cynthia R Johnson Print Name <i>Cynthia R Johnson</i>	Sign <i>Cynthia R Johnson</i>	Date/Time NOV 12 2012 12:45
			Received By Date/Time Matrix * S = Soil DS = Drum Soils SE = Sediment DL = Drum Liquids SO = Solid T = Tissue ST = Sludge WI = Wipe W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other			
Relinquished By	Date/Time	Received By	Date/Time	Received By	Date/Time	Disposed By
Relinquished By	Date/Time	Received By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	Received By	Date/Time	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer; per lab procedure, used in process)					

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CH2MILL Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST*	C.O.C. # W13-011-083				
			Page 2 of 2				
Collector B.E. Boggs CHPRC	SAF No. W13-011	Contact/Requester Karen Waters-Illusted	Telephone No. 376-4650				
Project Title RCRA, NOVEMBER 2012	Sampling Origin Hanford Site	Logbook No. HNF-N-50651 / 44	Purchase Order/Charge Code 300071FS20				
Shipped To (Lab) Waste Sampling & Characterization	Method of Shipment GOVERNMENT VEHICLE	Ice Chest No. N/A	Bill of Lading/Air Bill No. N/A				
Protocol RCRA	Priority: 31 Days	PRIORITY	Office 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 4400.5 (1990/1993)		SPECIAL INSTRUCTIONS FY12 and FY13 samples cannot be in the same SDG. Site Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.					
Sample No. 02MN47	Filter N	Date 11/12/12	Time 1107	No/Type Container 4x1L aG	Sample Analysis 8270_SVOA_GCMS_JX: COMMON	Holding Time 7/10 Days	Preservative Cool-4C
				Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

Sample Receipt

DECEMBER 12, 2012

Chain of Custody

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST										C.O.C. #	
										W13-011-081	
										Page 1 of 2	
CH2M Hill Plateau Remediation Company Collector B.E. Bruegge CHPRC SAF No. W13-011 Project Title RCRA, NOVEMBER 2012 Shipped To (Lab) Waste Sampling & Characterization Protocol RCRA										Telephone No. 376-4650 Purchase Order/Charge Code 300071E-S20 Ice Chest No. N/A Bill of Lading/Air Bill No. N/A Office 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 (1990/1993)										PRIORITY Priority: 31 Days SPECIAL INSTRUCTIONS FY12 and FY13 samples cannot be in the same SDG. Site Walk-Through Knowledge Information Form applies. The CACN for all analytical work at WSCF is 40167.	Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample No.	Filter	Date	Time	No/Type Container	Sample Analysis	Holding Time:	Preservative				
B2MN42 10	N	w	11-12-12 1157	1x500-mL GP	200.8_HG - ICPMS	28 Days	HNO3 to pH <2				
B2MN42	N	W			200.8_METALS_ICPMS: Antimony (1); 200.8_METALS_ICPMS: Arsenic (1); 200.8_METALS_ICPMS: Lead (1); 200.8_METALS_ICPMS: Selenium (1); 200.8_METALS_ICPMS: Tin (1); 200.8_METALS_ICPMS: Thallium (1); 200.8_METALS_ICPMS: Zinc (1)	6 Months					
B2MN42	N	W			1x250-mL GP	14 Days	Cool-4C				
B2MN42	N	W			1x250-mL P	14 Days	NaOH to pH >=12				
B2MN42	N	W			4500-mL GP	6 Months	HNO3 to pH <2				
B2MN42	N	W			1x500-mL GP	740 Days	HCl or H2SO4 to pH <2/Cool~4C				
B2MN42	N	W			3x40-mL GaG	Cool-4C					
B2MN44 1	N	W			5270 SVOA GCMS IX: COMMON	28 Days	HNO3 to pH <2				
B2MN44	Y	W			1x500-mL G	6 Months					
B2MN44	Y	W			200.8_HG + ICPMS						
B2MN44	Y	W			200.8_METALS_ICPMS: Antimony (1); 200.8_METALS_ICPMS: Arsenic (1); 200.8_METALS_ICPMS: Lead (1); 200.8_METALS_ICPMS: Selenium (1); 200.8_METALS_ICPMS: Thallium (1); 200.8_METALS_ICPMS: Tin (1)						
Relinquished By B.E. Bruegge Date/Time NOV 12 2012 045 Received By Cynthia R Johnson Date/Time NOV 17 2012 045 Disposed By Cynthia R Johnson Date/Time NOV 17 2012 045										Matrix * S = Soil SF = Sediment SO = Solid ST = 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)										

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Chain of Custody

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			C.O.C. #
					W13-011-081
					Page 2 of 2
Collector	S.E. Biggs CH2M Hill	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	W13-011	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	RCRA, NOVEMBER 2012	Logbook No.	IINF-N-506 51 / 4	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:	31 Days	PRIORITY	Onsite Property No.
POSSIBLE SAMPLE HAZARDS/REMARKS			SPECIAL INSTRUCTIONS		
** ** 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)			Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> FY12 and FY13 samples cannot be in the same SDG. Site Wide Generator Knowledge Information Form applies. The CACN for all analytical work at WSCF is 401647.		
Sample No.	Filter	Date	Time	Sample Analysis	Preservative
B2MN44	Y	W	11-12-12 / 157	1x500-mL G/P	6010_METALS_ICP_LIST-3 (18)
				6 Months	11NO3 to pH <2

Relinquished By: <i>BE Bridges CH2M Hill</i>	Date/Time: ~ Sign <i>NOV 12 2012 1845</i>	Received By: <i>G. Johnson</i>	Print <i>NOV 12 2012 1845</i>	Sign <i>NOV 12 2012 1845</i>	Matrix *
Relinquished By: <i>B. Briggs</i>	Date/Time: <i>NOV 12 2012 1845</i>	Received By:	Date/Time:	Date/Time:	S = Soil DS = Drun Solids SE = Sediment DL = Drun Liquids SO = Solid T = Tissue SL = Sludge WI = Water W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By:	Date/Time:	Received By:	Date/Time:	Date/Time:	
Relinquished By:	Date/Time:	Received By:	Date/Time:	Date/Time:	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)				

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A-6004-942 (REV 2)