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

December 18, 2012

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

Dear Scot Fitzgerald,

REVISED121226 - 698686 [Report ID: 121226]

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 WSCF121226

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

Very truly yours,

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

Attachments 4
CC: w/Attachments

File/LB

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF121226
Data Deliverable Date 11/05/12

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
W13-010	B2M137	121226001	WATER	10/03/12	10/03/12
W13-010	B2M167	121226002	WATER	10/03/12	10/03/12
W13-010	B2M8H6	121226003	WATER	10/03/12	10/03/12
W13-010	B2M8H7	121226004	WATER	10/03/12	10/03/12
W13-010	B2M8K2	121226005	WATER	10/03/12	10/03/12
W13-010	B2M8K1	121226006	WATER	10/03/12	10/03/12
W13-010	B2M218	121226007	WATER	10/03/12	10/03/12
W13-010	B2M219	121226008	WATER	10/03/12	10/03/12
W13-010	B2M220	121226009	WATER	10/03/12	10/03/12
W13-010	B2M233	121226010	WATER	10/03/12	10/03/12
W13-010	B2M234	121226011	WATER	10/03/12	10/03/12
W13-010	B2M235	121226012	WATER	10/03/12	10/03/12
W13-010	B2M135	121226013	WATER	10/03/12	10/03/12
W13-010	B2M165	121226014	WATER	10/03/12	10/03/12

ATTACHMENT 2

NARRATIVE

Consisting of 8 pages
Including cover page

Attachment 2
Narrative Rev2
WSCF121226

Revision 2: This case narrative replaces the prior in its entirety. 1,4-Dioxane was added per SDR13-064 to samples B2M135 and B2M165.

Revision 1: This case narrative replaces the prior in its entirety. P&D correction is adding Kerosene to samples B2M135 and B2M165.

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 by Method 8270 is attached to this report.
- Sample Issue Resolution Form SDR13-064 adding 1,4-Dioxane by 8270 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.

Attachment 2
Narrative Rev2
WSCF121226

- **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

Chemical Oxygen Demand – Hold time requirement for this analysis was met. A Duplicate, Matrix Spike, Matrix Spike Duplicate and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- All 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):

- All 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):

- Vanadium, Strontium, Copper and Aluminum were detected in the Blank and evaluated.
- All other 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.

Total Organic Carbon – 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.

Attachment 2
Narrative Rev2
WSCF121226

Total Organic Halides – 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.

Organic Comments

PCB – 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.

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):

- 4-Nitrophenol and Pentachlorophenol did not meet the MS / MSD RPD acceptance limits. Sample results for this analyte were not flagged. The quality control report was flagged for RPD failure.
- The Blank, MS, MSD and samples B2M135 (121226013) and B2M165 (121226014) did not meet the acceptance limits for surrogate Phenol-d5. Sample results were not flagged. The quality control report was flagged for surrogate recovery failure.
- All other applicable QC controls are within the established limits.

TPHD-WA – 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.

TPHG-WA – The hold time requirement for this analysis was met. A Duplicate, 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.

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.

Attachment 2
Narrative Rev2
WSCF121226

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 Rev2
WSCF121226

SAMPLE ISSUE RESOLUTION

SIR NUM SDR13-012
REV NUM 0
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	B2M0Y3, B2M0Y9, B2M105, B2M111, B2M117, B2M123, B2M129, B2M135, B2M141, B2M147, B2M153, B2M159, B2M165, B2M171, B2M177, B2M194, B2M1B0, B2M9W6
SAMPLE MATRIX	WATER
COLLECTION DATE	10/3/2012 - 10/10/2012
SDG NUM	WSCF121241, WSCF121242, WSCF121284, WSCF121226, WSCF121275, WSCF121230, WSCF121223, WSCF121274, WSCF121232, WSCF121239

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

A-6003-640 (03/30) PAGE 1 of 1

Attachment 2
Narrative Rev2
WSCF121226

Problem and Discrepancy Report

WSCF

SDG WSCF121226

11/06/2012

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1. The data package has the following issues:

a) TPHKEROSENE for sample number B2M135, and B2M165 was not reported in the electronic or hardcopy data packages.

Resolution: *Provide appropriate correction*

Lab Response: **the results have been added**

Attachment 2
Narrative Rev2
WSCF121226

SAMPLE ISSUE RESOLUTION

SIR NUM	SDR13-064
REV NUM	0
DATE INITIATED	12/12/2012

SAMPLE EVENT INFORMATION

SAF NUM(S)	W13-011, X13-012, W13-012, I13-007, W13-002, W13-010
OPERABLE UNIT(S)	NONE, 100-NR-2
PROJECT(S)	SURV13, CERC13, RCRA13
SAMPLE EVENT TITLE(S)	SURV13, CERC13, RCRA13
LABORATORY	Waste Sampling & Characterization

SAMPLING INFORMATION

NUMBER OF SAMPLES	63
SAMPLE NUMBERS	B2M0Y3, B2M0Y9, B2M105, B2M111, B2M117, B2M123, B2M129, B2M135, B2M141, B2M147, B2M153, B2M159, B2M165, B2M171, B2M177, B2M183, B2M194, B2M1B0, B2M9W6, B2MN27, B2MN32, B2MN37, B2MN42, B2MN47, B2MN52, B2MN57, B2MN64, B2MN71, B2MN75, B2MN81, B2MN82, B2MN89, B2MN94, B2MN99, B2MNB5, B2MNC0, B2MXD6, B2MXL9, B2MXM7, B2MXM8, B2MXN9, B2N3D3, B2N3D5, B2N905, B2N906, B2N910, B2N914, B2N915, B2N919, B2N923, B2N926, B2N931, B2N935, B2N938, B2N941, B2N945, B2N946, B2N950, B2N953, B2N957, B2N958, B2N962, B2N965
SAMPLE MATRIX	WATER
COLLECTION DATE	10/3/2012 - 12/6/2012
SDG NUM	WSCF121241, WSCF121242, WSCF121404, WSCF121448, WSCF121284, WSCF121439, WSCF121226, WSCF121555, WSCF121456, WSCF121275, WSCF121230, WSCF121223, WSCF121303, WSCF121402, WSCF121401, WSCF121398, WSCF121274, WSCF121232, WSCF121450, WSCF121239

ISSUE BACKGROUND

CLASS	Sample Management Issues
TYPE	Addition of Analyses
DESCRIPTION	Missed adding Appendix IX constituent 1,4-Dioxane to the new service list.

DISPOSITION

DESCRIPTION	Proposed disposition: Request that WSCF report the missing data for 1,4-Dioxane for the listed samples. SMR will add necessary information to the affected data packages.
JUSTIFICATION	Accepted disposition: WSCF understands SMR missed having 1,4-dioxane reported for the Appendix IX 8270 service list. The data is available. WSCF has added 1,4-dioxane to the yellow highlighted samples above in addition to B2MXN8 (121450), and B2MN63 (121456). The samples not highlighted have not been received by WSCF as of 12/17/12. When they are received 1,4-dioxane will be added.

Submitted by: Karen Waters-Husted/CHPRC DATE: 12/12/12
Accepted by: Heather Medley/WSCF DATE: 12/17/12

A-6003-640 (03/30) PAGE 1 of 1

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 117 pages
Including cover page

WSCF ANALYTICAL RESULTS REPORT

For

CH2M Hill Plateau Remediation

PO Box 1600
Richland, WA 99352

Attention: Scot Fitzgerald

Contract #	MOA-FH-CHPRC-2008
Group #	WSCF121226
Report Date	December 18, 2012

Analytical: Electronically signed by Joseph Hale

Client Services: Electronically signed by Heather Medley

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 # WSCF121226

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
208198	208205	5	BLANK	82193	BLANK		ICP-6010 - All possible metals
208198	208205	7	LCS	82195	LCS		ICP-6010 - All possible metals
208198	208205	9	MS	82196	B2M131(121223007MS)	121223007	ICP-6010 - All possible metals
208198	208205	10	MSD	82197	B2M131(121223007MSD)	121223007	ICP-6010 - All possible metals
208198	208205	14	SAMPLE	121226001	B2M137		ICP-6010 - All possible metals
208198	208205	15	SAMPLE	121226002	B2M167		ICP-6010 - All possible metals
208198	208205	16	SAMPLE	121226013	B2M135		ICP-6010 - All possible metals
208198	208205	17	SAMPLE	121226014	B2M165		ICP-6010 - All possible metals
208257	208292	4	BLANK	82385	BLANK		ICP-2008 MS All possible metal
208257	208292	5	LCS	82386	LCS		ICP-2008 MS All possible metal
208257	208292	7	MS	82387	B2M8H4(121223010MS)	121223010	ICP-2008 MS All possible metal
208257	208292	8	MSD	82388	B2M8H4(121223010MSD	121223010	ICP-2008 MS All possible metal
208257	208292	12	SAMPLE	121226001	B2M137		ICP-2008 MS All possible metal
208257	208292	13	SAMPLE	121226002	B2M167		ICP-2008 MS All possible metal
208257	208292	14	SAMPLE	121226003	B2M8H6		ICP-2008 MS All possible metal
208257	208292	15	SAMPLE	121226004	B2M8H7		ICP-2008 MS All possible metal
208257	208292	16	SAMPLE	121226005	B2M8K2		ICP-2008 MS All possible metal
208257	208292	17	SAMPLE	121226006	B2M8K1		ICP-2008 MS All possible metal
208257	208292	20	SAMPLE	121226013	B2M135		ICP-2008 MS All possible metal
208257	208292	21	SAMPLE	121226014	B2M165		ICP-2008 MS All possible metal
208507	208508	3	BLANK	82881	BLANK		Chemical Oxygen Demand
208507	208508	4	LCS	82882	LCS		Chemical Oxygen Demand
208507	208508	9	MS	82885	B2M129(121223013MS)	121223013	Chemical Oxygen Demand

REVISED121226 -

Batch QC List

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
208507	208508	10	MSD	82886	B2M129(121223013MSD)	121223013	Chemical Oxygen Demand
208507	208508	13	SAMPLE	121226013	B2M135		Chemical Oxygen Demand
208507	208508	14	SAMPLE	121226014	B2M165		Chemical Oxygen Demand
209136	209139	1	BLANK	83612	BLANK		Total Organic Halides
209136	209139	2	LCS	83613	LCS		Total Organic Halides
209136	209139	10	MS	83619	B2M237(121223005MS)	121223005	Total Organic Halides
209136	209139	11	MSD	83620	B2M237(121223005MSD)	121223005	Total Organic Halides
209136	209139	16	SAMPLE	121226007	B2M218		Total Organic Halides
209136	209139	17	SAMPLE	121226008	B2M219		Total Organic Halides
209136	209139	18	SAMPLE	121226009	B2M220		Total Organic Halides
209136	209139	19	SAMPLE	121226010	B2M233		Total Organic Halides
209143	209144	1	BLANK	83634	BLANK		Total Organic Halides
209143	209144	2	LCS	83635	LCS		Total Organic Halides
209143	209144	10	MS	83639	B2M234(121226011MS)	121226011	Total Organic Halides
209143	209144	11	MSD	83640	B2M234(121226011MSD)	121226011	Total Organic Halides
209143	209144	12	SAMPLE	121226011	B2M234		Total Organic Halides
209143	209144	13	SAMPLE	121226012	B2M235		Total Organic Halides
209143	209144	14	SAMPLE	121226013	B2M135		Total Organic Halides
209143	209144	15	SAMPLE	121226014	B2M165		Total Organic Halides

Batch QC List

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
208245	208258	1	BLANK	82350	BLANK		Extractable Diesel and Petroleum
208245	208258	2	LCS	82351	LCS		Extractable Diesel and Petroleum
208245	208258	3	MS	82352	B2M129(121223013MS)	121223013	Extractable Diesel and Petroleum
208245	208258	4	MSD	82353	B2M129(121223013MSD)	121223013	Extractable Diesel and Petroleum
208245	208258	7	SAMPLE	121226014	B2M165		Extractable Diesel and Petroleum
208245	208258	8	SAMPLE	121226013	B2M135		Extractable Diesel and Petroleum
208488	208850	1	BLANK	82826	BLANK		SW-846 8270D Semivolatiles
208488	208850	2	LCS	82827	LCS		SW-846 8270D Semivolatiles
208488	208850	3	MS	82828	B2M0Y3(121239001MS)	121239001	SW-846 8270D Semivolatiles
208488	208850	4	MSD	82829	B2M0Y3(121239001MSD	121239001	SW-846 8270D Semivolatiles
208488	208850	7	SAMPLE	121226014	B2M165		SW-846 8270D Semivolatiles
208488	208850	8	SAMPLE	121226013	B2M135		SW-846 8270D Semivolatiles
208650	208887	1	BLANK	82953	BLANK		PCBs by EPA SW-846 Method 8082
208650	208887	2	LCS	82954	LCS		PCBs by EPA SW-846 Method 8082
208650	208887	3	MS	82955	B2M129(121223013MS)	121223013	PCBs by EPA SW-846 Method 8082
208650	208887	4	MSD	82956	B2M129(121223013MSD)	121223013	PCBs by EPA SW-846 Method 8082
208650	208887	5	SAMPLE	121226014	B2M165		PCBs by EPA SW-846 Method 8082
208650	208887	6	SAMPLE	121226013	B2M135		PCBs by EPA SW-846 Method 8082

Batch QC List

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
208456	208457	1	BLANK	82689	BLANK		SW-846 8260B Volatiles
208456	208457	2	LCS	82690	LCS		SW-846 8260B Volatiles
208456	208457	3	MS	82691	B2M129(121223013MS)	121223013	SW-846 8260B Volatiles
208456	208457	4	MSD	82692	B2M129(121223013MSD)	121223013	SW-846 8260B Volatiles
208456	208457	7	SAMPLE	121226014	B2M165		SW-846 8260B Volatiles
208456	208457	8	SAMPLE	121226013	B2M135		SW-846 8260B Volatiles
208756	208757	1	BLANK	82983	BLANK		Gasoline Range (W)
208756	208757	2	LCS	82984	LCS		Gasoline Range (W)
208756	208757	3	MS	82985	B2M129(121223013MS)	121223013	Gasoline Range (W)
208756	208757	4	MSD	82986	B2M129(121223013MSD)	121223013	Gasoline Range (W)
208756	208757	5	DUP	82987	B2M129(121223013DUP)	121223013	Gasoline Range (W)
208756	208757	8	SAMPLE	121226013	B2M135		Gasoline Range (W)
208756	208757	9	SAMPLE	121226014	B2M165		Gasoline Range (W)

Batch QC List

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121226

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
208268	208268	2	BLANK	82439	BLANK		Total Organic Carbon
208268	208268	3	LCS	82440	LCS		Total Organic Carbon
208268	208268	4	MS	82441	B2M218(121226007MS)	121226007	Total Organic Carbon
208268	208268	5	MSD	82442	B2M218(121226007MSD)	121226007	Total Organic Carbon
208268	208268	6	SAMPLE	121226007	B2M218		Total Organic Carbon
208268	208268	7	SAMPLE	121226008	B2M219		Total Organic Carbon
208268	208268	8	SAMPLE	121226009	B2M220		Total Organic Carbon
208268	208268	9	SAMPLE	121226010	B2M233		Total Organic Carbon
208268	208268	10	SAMPLE	121226011	B2M234		Total Organic Carbon
208268	208268	11	SAMPLE	121226012	B2M235		Total Organic Carbon
208268	208268	12	SAMPLE	121226013	B2M135		Total Organic Carbon
208268	208268	13	SAMPLE	121226014	B2M165		Total Organic Carbon
208469	208469	1	LCS	82711	LCS		Total Alkalinity as mg/L CaCO3 (Water)
208469	208469	3	DUP	82712	B2M1J4(121208020DUP)	121208020	Total Alkalinity as mg/L CaCO3 (Water)
208469	208469	10	SAMPLE	121226013	B2M135		Total Alkalinity as mg/L CaCO3 (Water)
208469	208469	11	SAMPLE	121226014	B2M165		Total Alkalinity as mg/L CaCO3 (Water)
208469	208469	13	LCS	82713	LCS		Total Alkalinity as mg/L CaCO3 (Water)
208476	208482	1	BLANK	82749	BLANK		Cyanide (W) by Midi/Spectrophotometer
208476	208482	4	LCS	82752	LCS		Cyanide (W) by Midi/Spectrophotometer
208476	208482	5	MS	82753	B2LDT5(121203010MS)	121203010	Cyanide (W) by Midi/Spectrophotometer
208476	208482	6	MSD	82754	B2LDT5(121203010MSD)	121203010	Cyanide (W) by Midi/Spectrophotometer
208476	208482	12	SAMPLE	121226013	B2M135		Cyanide (W) by Midi/Spectrophotometer
208476	208482	13	SAMPLE	121226014	B2M165		Cyanide (W) by Midi/Spectrophotometer

REVISED121226 -

Method Reference

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

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-523-444	Total Organic Halides Based on SW-846 Method 9020B		
	EPA SW-846	9020B	Total Organic Halides (TOX)
	HEIS	9020_TOX	Total Organic Halides (TOX)
LA-523-470	Chemical Oxygen Demand		
	EPA-600/4-79-020	410.4	Chemical Oxygen Demand
	HEIS	410.4_COD	Chemical Oxygen Demand

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

Method Reference

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

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-523-427	Polychlorinated Biphenyls (PCB'S) by Gas Chromatography		
	EPA SW-846	3510C	Separatory Funnel Liquid-Liquid Extraction
	EPA SW-846	3545	Pressurized Fluid Extraction (PFE)
	EPA SW-846	3665A	Sulfuric Acid/Permanganate Cleanup
	EPA SW-846	8000B	Determinative Chromatographic Separations
	EPA SW-846	8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography
	HEIS	8082_PCB_GC	Polychlorinated Biphenyls (PCBs) by Gas Chromatography
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 Chromatography/Mass Spectrometry (GC/MS)
	EPA SW-846	3545	Pressurized Fluid Extraction (PFE)
	HEIS	8270_SVOA_GCMS	Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry(GC/MS)
LA-523-493	NWTPH-Dx, Extractible Diesel and Petroleum Productions Analysis in Soil and Water		
	WDOE	WDOE	Total Petroleum Hydrocarbons in Diesel
	HEIS	WTPH_DIESEL	TPH Diesel

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

REVISED121226 -

Method Reference

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

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-523-443	Gas Chromatography Analysis of Gasoline Range Total Petroleum Hydrocarbons in Water		
	EPA	NWTPH-G	"Analytical Methods for Petroleum Hydrocarbons, June 1997, NWTPH-G, Volatile Petroleum Products Method for Soil and Water
	HEIS	WTPH_GASOLINE	Total Petroleum Hydrocarbons, Gasoline
LA-523-455	Volatile Sample Analysis by SW-846 Method 8260B		
	EPA SW-846	8000B	Determinative Chromographic Separations
	EPA SW-846	8260B	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
	HEIS	8260_VOA_GCMS	Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

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

Method Reference

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121226

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-344-406	Total Organic Carbon (TOC) Based on SW-846		
	EPA SW-846	9060	Total Organic Carbon
	HEIS	9060_TOC	Total Organic Carbon
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 # WSCF121226

Sample # 121226001
SAF# W13-010
Sample ID B2M137

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										**10/04/12**
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	B	31.9		ug/L	1	19	95	10/05/12
Magnesium	7439-95-4	LA-505-411		16100		ug/L	1	4.0	20	10/05/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Nickel	7440-02-0	LA-505-411	B	4.80		ug/L	1	4.0	20	10/05/12
Potassium	7440-09-7	LA-505-411		7070		ug/L	1	76	380	10/05/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Sodium	7440-23-5	LA-505-411		32600		ug/L	1	10	50	10/05/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	10/05/12
Barium	7440-39-3	LA-505-411		54.9		ug/L	1	4.0	20	10/05/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Chromium	7440-47-3	LA-505-411	B	6.00		ug/L	1	5.0	25	10/05/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Vanadium	7440-62-2	LA-505-411	B	13.7		ug/L	1	5.0	25	10/05/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	10/05/12
Calcium	7440-70-2	LA-505-411		52300		ug/L	1	49	240	10/05/12
Strontium	7440-24-6	LA-505-411		238		ug/L	1	9.0	45	10/05/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226001
SAF# W13-010
Sample ID B2M137

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Titanium	7440-32-6	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
ICPMS Prep (W)										**10/09/12**
ICP-2008 MS All possible metal										
Aluminum	7429-90-5	LA-505-412	UD	<10		ug/L	2	10	100	10/09/12
Manganese	7439-96-5	LA-505-412	BD	1.24		ug/L	2	0.20	2.0	10/09/12
Nickel	7440-02-0	LA-505-412	D	4.64		ug/L	2	0.20	2.0	10/09/12
Silver	7440-22-4	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	10/09/12
Barium	7440-39-3	LA-505-412	D	59.4		ug/L	2	0.40	4.0	10/09/12
Beryllium	7440-41-7	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	10/09/12
Cadmium	7440-43-9	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Chromium	7440-47-3	LA-505-412	D	7.93		ug/L	2	0.20	2.0	10/09/12
Cobalt	7440-48-4	LA-505-412	BD	0.170		ug/L	2	0.10	0.50	10/09/12
Copper	7440-50-8	LA-505-412	BDC	0.506		ug/L	2	0.20	2.0	10/09/12
Vanadium	7440-62-2	LA-505-412	D	19.0		ug/L	2	0.40	4.0	10/09/12
Zinc	7440-66-6	LA-505-412	BD	2.47		ug/L	2	2.0	20	10/09/12
Lead	7439-92-1	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Molybdenum	7439-98-7	LA-505-412	D	9.02		ug/L	2	0.10	1.0	10/09/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226001
SAF# W13-010
Sample ID B2M137

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Strontium	7440-24-6	LA-505-412	D	273		ug/L	2	0.20	2.0	10/09/12
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Arsenic	7440-38-2	LA-505-412	D	4.66		ug/L	2	0.40	4.0	10/09/12
Selenium	7782-49-2	LA-505-412	BD	8.28		ug/L	2	2.0	20	10/09/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226002
SAF# W13-010
Sample ID B2M167

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										**10/04/12**
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	U	<19		ug/L	1	19	95	10/05/12
Magnesium	7439-95-4	LA-505-411		21100		ug/L	1	4.0	20	10/05/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Potassium	7440-09-7	LA-505-411		8780		ug/L	1	76	380	10/05/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Sodium	7440-23-5	LA-505-411		29900		ug/L	1	10	50	10/05/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	10/05/12
Barium	7440-39-3	LA-505-411		56.4		ug/L	1	4.0	20	10/05/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Chromium	7440-47-3	LA-505-411	U	<5.0		ug/L	1	5.0	25	10/05/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Vanadium	7440-62-2	LA-505-411	B	14.8		ug/L	1	5.0	25	10/05/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	10/05/12
Calcium	7440-70-2	LA-505-411		68000		ug/L	1	49	240	10/05/12
Strontium	7440-24-6	LA-505-411		341		ug/L	1	9.0	45	10/05/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226002
SAF# W13-010
Sample ID B2M167

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Titanium	7440-32-6	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
ICPMS Prep (W)										**10/09/12**
ICP-2008 MS All possible metal										
Aluminum	7429-90-5	LA-505-412	UD	<10		ug/L	2	10	100	10/09/12
Manganese	7439-96-5	LA-505-412	BD	0.454		ug/L	2	0.20	2.0	10/09/12
Nickel	7440-02-0	LA-505-412	BD	0.944		ug/L	2	0.20	2.0	10/09/12
Silver	7440-22-4	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	10/09/12
Barium	7440-39-3	LA-505-412	D	56.6		ug/L	2	0.40	4.0	10/09/12
Beryllium	7440-41-7	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	10/09/12
Cadmium	7440-43-9	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Chromium	7440-47-3	LA-505-412	D	3.21		ug/L	2	0.20	2.0	10/09/12
Cobalt	7440-48-4	LA-505-412	BD	0.140		ug/L	2	0.10	0.50	10/09/12
Copper	7440-50-8	LA-505-412	BDC	1.86		ug/L	2	0.20	2.0	10/09/12
Vanadium	7440-62-2	LA-505-412	D	16.8		ug/L	2	0.40	4.0	10/09/12
Zinc	7440-66-6	LA-505-412	UD	<2.0		ug/L	2	2.0	20	10/09/12
Lead	7439-92-1	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Molybdenum	7439-98-7	LA-505-412	D	6.04		ug/L	2	0.10	1.0	10/09/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226002
SAF# W13-010
Sample ID B2M167

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Strontium	7440-24-6	LA-505-412	D	356		ug/L	2	0.20	2.0	10/09/12
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Arsenic	7440-38-2	LA-505-412	D	4.73		ug/L	2	0.40	4.0	10/09/12
Selenium	7782-49-2	LA-505-412	BD	6.04		ug/L	2	2.0	20	10/09/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226003
SAF# W13-010
Sample ID B2M8H6

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep (W)										**10/09/12**
ICP-2008 MS All possible metal										
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	10/09/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226004
SAF# W13-010
Sample ID B2M8H7

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep (W)										**10/09/12**
ICP-2008 MS All possible metal										
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	10/09/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226005
SAF# W13-010
Sample ID B2M8K2

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep (W)										**10/09/12**
ICP-2008 MS All possible metal										
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	10/09/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226006
SAF# W13-010
Sample ID B2M8K1

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep (W)										**10/09/12**
ICP-2008 MS All possible metal										
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	10/09/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226007
SAF# W13-010
Sample ID B2M218

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/08/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	10/08/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226008
SAF# W13-010
Sample ID B2M219

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/08/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	10/08/12

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.

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Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226009
SAF# W13-010
Sample ID B2M220

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/08/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	10/08/12

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.

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Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226010
SAF# W13-010
Sample ID B2M233

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/08/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	10/08/12

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.

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Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226011
SAF# W13-010
Sample ID B2M234

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/08/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	10/08/12

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.

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Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226012
SAF# W13-010
Sample ID B2M235

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/08/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	B	5.58		ug/L	1	5.0	15	10/08/12

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.

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Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										**10/04/12**
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	B	90.4		ug/L	1	19	95	10/05/12
Magnesium	7439-95-4	LA-505-411		15600		ug/L	1	4.0	20	10/05/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Nickel	7440-02-0	LA-505-411	B	10.3		ug/L	1	4.0	20	10/05/12
Potassium	7440-09-7	LA-505-411		7040		ug/L	1	76	380	10/05/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Sodium	7440-23-5	LA-505-411		29400		ug/L	1	10	50	10/05/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	10/05/12
Barium	7440-39-3	LA-505-411		52.8		ug/L	1	4.0	20	10/05/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Chromium	7440-47-3	LA-505-411	B	13.7		ug/L	1	5.0	25	10/05/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Vanadium	7440-62-2	LA-505-411	B	14.4		ug/L	1	5.0	25	10/05/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	10/05/12
Calcium	7440-70-2	LA-505-411		49600		ug/L	1	49	240	10/05/12
Strontium	7440-24-6	LA-505-411		229		ug/L	1	9.0	45	10/05/12

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.

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Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Titanium	7440-32-6	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
ICPMS Prep (W)										**10/09/12**
ICP-2008 MS All possible metal										
Aluminum	7429-90-5	LA-505-412	BDC	20.2		ug/L	2	10	100	10/09/12
Manganese	7439-96-5	LA-505-412	BD	1.81		ug/L	2	0.20	2.0	10/09/12
Nickel	7440-02-0	LA-505-412	D	6.80		ug/L	2	0.20	2.0	10/09/12
Silver	7440-22-4	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	10/09/12
Barium	7440-39-3	LA-505-412	D	54.7		ug/L	2	0.40	4.0	10/09/12
Beryllium	7440-41-7	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	10/09/12
Cadmium	7440-43-9	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Chromium	7440-47-3	LA-505-412	D	12.3		ug/L	2	0.20	2.0	10/09/12
Cobalt	7440-48-4	LA-505-412	BD	0.136		ug/L	2	0.10	0.50	10/09/12
Copper	7440-50-8	LA-505-412	BDC	0.902		ug/L	2	0.20	2.0	10/09/12
Vanadium	7440-62-2	LA-505-412	D	17.1		ug/L	2	0.40	4.0	10/09/12
Zinc	7440-66-6	LA-505-412	BD	5.45		ug/L	2	2.0	20	10/09/12
Lead	7439-92-1	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Molybdenum	7439-98-7	LA-505-412	D	7.55		ug/L	2	0.10	1.0	10/09/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Strontium	7440-24-6	LA-505-412	D	256		ug/L	2	0.20	2.0	10/09/12
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Arsenic	7440-38-2	LA-505-412	D	4.03		ug/L	2	0.40	4.0	10/09/12
Selenium	7782-49-2	LA-505-412	BD	7.17		ug/L	2	2.0	20	10/09/12
Preparation for COD (W)										**10/11/12**
Chemical Oxygen Demand										
Chemical Oxygen Demand	COD	LA-523-470	U	<10		mg/L	1	10	50	10/11/12
Preparation for TOX (W)										**10/08/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	10/08/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										**10/04/12**
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	U	<19		ug/L	1	19	95	10/05/12
Magnesium	7439-95-4	LA-505-411		20800		ug/L	1	4.0	20	10/05/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Potassium	7440-09-7	LA-505-411		8640		ug/L	1	76	380	10/05/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Sodium	7440-23-5	LA-505-411		29500		ug/L	1	10	50	10/05/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	10/05/12
Barium	7440-39-3	LA-505-411		55.9		ug/L	1	4.0	20	10/05/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Chromium	7440-47-3	LA-505-411	U	<5.0		ug/L	1	5.0	25	10/05/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Vanadium	7440-62-2	LA-505-411	B	14.1		ug/L	1	5.0	25	10/05/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	10/05/12
Calcium	7440-70-2	LA-505-411		66800		ug/L	1	49	240	10/05/12
Strontium	7440-24-6	LA-505-411		331		ug/L	1	9.0	45	10/05/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Titanium	7440-32-6	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/05/12
ICPMS Prep (W)										**10/09/12**
ICP-2008 MS All possible metal										
Aluminum	7429-90-5	LA-505-412	UD	<10		ug/L	2	10	100	10/09/12
Manganese	7439-96-5	LA-505-412	BD	0.362		ug/L	2	0.20	2.0	10/09/12
Nickel	7440-02-0	LA-505-412	BD	1.05		ug/L	2	0.20	2.0	10/09/12
Silver	7440-22-4	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	10/09/12
Barium	7440-39-3	LA-505-412	D	59.1		ug/L	2	0.40	4.0	10/09/12
Beryllium	7440-41-7	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	10/09/12
Cadmium	7440-43-9	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Chromium	7440-47-3	LA-505-412	D	3.33		ug/L	2	0.20	2.0	10/09/12
Cobalt	7440-48-4	LA-505-412	UD	<0.10		ug/L	2	0.10	0.50	10/09/12
Copper	7440-50-8	LA-505-412	DC	2.30		ug/L	2	0.20	2.0	10/09/12
Vanadium	7440-62-2	LA-505-412	D	16.4		ug/L	2	0.40	4.0	10/09/12
Zinc	7440-66-6	LA-505-412	UD	<2.0		ug/L	2	2.0	20	10/09/12
Lead	7439-92-1	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Molybdenum	7439-98-7	LA-505-412	D	6.34		ug/L	2	0.10	1.0	10/09/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Strontium	7440-24-6	LA-505-412	D	373		ug/L	2	0.20	2.0	10/09/12
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/09/12
Arsenic	7440-38-2	LA-505-412	D	4.53		ug/L	2	0.40	4.0	10/09/12
Selenium	7782-49-2	LA-505-412	BD	6.33		ug/L	2	2.0	20	10/09/12
Preparation for COD (W)										**10/11/12**
Chemical Oxygen Demand										
Chemical Oxygen Demand	COD	LA-523-470	U	<10		mg/L	1	10	50	10/11/12
Preparation for TOX (W)										**10/08/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	10/08/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8082 (W) SPE										**10/09/12**
PCBs by EPA SW-846 Method 8082										
Aroclor-1016	12674-11-2	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/17/12
Aroclor-1221	11104-28-2	LA-523-427	U	<0.2		ug/L	1	0.2	0.4	10/17/12
Aroclor-1232	11141-16-5	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/17/12
Aroclor-1242	53469-21-9	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/17/12
Aroclor-1248	12672-29-6	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/17/12
Aroclor-1254	11097-69-1	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/17/12
Aroclor-1260	11096-82-5	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/17/12
Preparation for 8270 (W) CLE										**10/10/12**
SW-846 8270D Semivolatiles										
4-Nitrophenol	100-02-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Phenol	108-95-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Pyrene	129-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12

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REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
n-Nitroso-di-n-propylamine	621-64-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Acenaphthene	83-32-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Pentachlorophenol	87-86-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Chlorophenol	95-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
4-Nitroaniline	100-01-6	LA-523-456	U	<0.9		ug/L	1	0.9	2	10/16/12
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<1		ug/L	1	1	2	10/16/12
4-Chloroaniline	106-47-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Bis-(2-Chloroethyl) ether	111-44-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Di-n-octylphthalate	117-84-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Hexachlorobenzene	118-74-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Anthracene	120-12-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Dimethylphthalate	131-11-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Dibenzofuran	132-64-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Fluoranthene	206-44-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Acenaphthylene	208-96-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Chrysene	218-01-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Benzo(a)pyrene	50-32-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Benzo(a)anthracene	56-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12

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Matrix WATER
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Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	<0.9		ug/L	1	0.9	2	10/16/12
Isophorone	78-59-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Diethyl phthalate	84-66-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Di-n-butylphthalate	84-74-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Phenanthrene	85-01-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Butylbenzylphthalate	85-68-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Fluorene	86-73-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Carbazole	86-74-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Hexachlorobutadiene	87-68-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Nitroaniline	88-74-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Nitrophenol	88-75-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Naphthalene	91-20-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Methylnaphthalene	91-57-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Chloronaphthalene	91-58-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Methylphenol	95-48-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Nitrobenzene	98-95-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12

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Matrix WATER
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3-Nitroaniline	99-09-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Hexachloroethane	67-72-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Benzyl alcohol	100-51-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Tributyl phosphate	126-73-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Naphthylamine	91-59-8	LA-523-456	U	<1		ug/L	1	1	2	10/16/12
Pyridine	110-86-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
n-Nitrosopiperidine	100-75-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
n-Nitrosomethylethylamine	10595-95-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
p-Phenylenediamine	106-50-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Picoline	109-06-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
3,3-Dimethylbenzidine	119-93-7	LA-523-456	U	<4		ug/L	1	4	6	10/16/12
Isosafrole	120-58-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Phentermine	122-09-8	LA-523-456	U	<5		ug/L	1	5	9	10/16/12
1,4-Dioxane	123-91-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,4-Naphthoquinone	130-15-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12

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Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
1-Naphthylamine	134-32-7	LA-523-456	U	<1		ug/L	1	1	2	10/16/12
Aramite	140-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Kepone	143-50-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Hexachloropropene	1888-71-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Diallate	2303-16-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Pronamide	23950-58-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Isodrin	465-73-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Chlorobenzilate	510-15-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Acetylaminofluorene	53-96-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
n-Nitrosodiethylamine	55-18-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
3-Methylcholanthrene	56-49-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
4-Nitroquinoline-1-oxide	56-57-5	LA-523-456	U	<0.9		ug/L	1	0.9	2	10/16/12
7,12-Dimethylbenz(a)anthracene	57-97-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,3,4,6-Tetrachlorophenol	58-90-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
n-Nitrosomorpholine	59-89-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Pentachlorobenzene	608-93-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Phenacetin	62-44-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12

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Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
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Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Ethyl methanesulfonate	62-50-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Aniline	62-53-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
n-Nitrosodimethylamine	62-75-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Methyl methanesulfonate	66-27-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Pentachloroethane	76-01-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Pentachloronitrobenzene	82-68-8	LA-523-456	U	<1		ug/L	1	1	2	10/16/12
2,6-Dichlorophenol	87-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Dinoseb(..dinitromethylphenol)	88-85-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
4-Aminobiphenyl	92-67-1	LA-523-456	U	<1		ug/L	1	1	2	10/16/12
n-Nitrosodibutylamine	924-16-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
n-Nitrosopyrolidine	930-55-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Safrole	94-59-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
o-Toluidine	95-53-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,2,4,5-Tetrachlorobenzene	95-94-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Acetophenone	98-86-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,3,5-Trinitrobenzene	99-35-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12

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Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
2-Methyl-5-nitroaniline	99-55-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,3-Dinitrobenzene	99-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
O,O,O-Triethylthiophosphate	126-68-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Parathion	56-38-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Dimethylaminoazobenzene	60-11-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Dimethoate	60-51-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Thionazin	297-97-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Methyl parathion	298-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Phorate	298-02-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Disulfoton	298-04-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Sulfotep	3689-24-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Famfur	52-85-7	LA-523-456	U	<5		ug/L	1	5	9	10/16/12
N-Nitrosodiphenylamin/Diphenyl	DPA+NNDPA	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Methapyrilene	91-80-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Total Petroleum Hydrocarbons (Water Prep										**10/04/12**
Extractable Diesel and Petroleum										
Diesel	TPHDIESEL	LA-523-493	U	<70		ug/L	1	70	100	10/05/12

MDL = Minimum Detection Limit
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REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Kerosene	TPHKEROSEN	LA-523-493	U	<70		ug/L	1	70	100	10/05/12

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REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8082 (W) SPE										**10/09/12**
PCBs by EPA SW-846 Method 8082										
Aroclor-1016	12674-11-2	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/17/12
Aroclor-1221	11104-28-2	LA-523-427	U	<0.2		ug/L	1	0.2	0.4	10/17/12
Aroclor-1232	11141-16-5	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/17/12
Aroclor-1242	53469-21-9	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/17/12
Aroclor-1248	12672-29-6	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/17/12
Aroclor-1254	11097-69-1	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/17/12
Aroclor-1260	11096-82-5	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/17/12
Preparation for 8270 (W) CLE										**10/10/12**
SW-846 8270D Semivolatiles										
4-Nitrophenol	100-02-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Phenol	108-95-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Pyrene	129-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12

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REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
n-Nitroso-di-n-propylamine	621-64-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Acenaphthene	83-32-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Pentachlorophenol	87-86-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Chlorophenol	95-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
4-Nitroaniline	100-01-6	LA-523-456	U	<0.9		ug/L	1	0.9	2	10/16/12
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<1		ug/L	1	1	2	10/16/12
4-Chloroaniline	106-47-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Bis-(2-Chloroethyl) ether	111-44-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Di-n-octylphthalate	117-84-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Hexachlorobenzene	118-74-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Anthracene	120-12-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12

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REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Dimethylphthalate	131-11-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Dibenzofuran	132-64-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Fluoranthene	206-44-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Acenaphthylene	208-96-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Chrysene	218-01-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Benzo(a)pyrene	50-32-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Benzo(a)anthracene	56-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12

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Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
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Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Hexachlorocyclopentadiene	77-47-4	LA-523-456	U	<0.9		ug/L	1	0.9	2	10/16/12
Isophorone	78-59-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Diethyl phthalate	84-66-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Di-n-butylphthalate	84-74-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Phenanthrene	85-01-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Butylbenzylphthalate	85-68-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Fluorene	86-73-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Carbazole	86-74-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Hexachlorobutadiene	87-68-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Nitroaniline	88-74-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Nitrophenol	88-75-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Naphthalene	91-20-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Methylnaphthalene	91-57-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Chloronaphthalene	91-58-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Methylphenol	95-48-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Nitrobenzene	98-95-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12

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Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
3-Nitroaniline	99-09-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Hexachloroethane	67-72-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Benzyl alcohol	100-51-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Tributyl phosphate	126-73-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Naphthylamine	91-59-8	LA-523-456	U	<1		ug/L	1	1	2	10/16/12
Pyridine	110-86-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
n-Nitrosopiperidine	100-75-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
n-Nitrosomethylethylamine	10595-95-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
p-Phenylenediamine	106-50-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Picoline	109-06-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
3,3-Dimethylbenzidine	119-93-7	LA-523-456	U	<4		ug/L	1	4	6	10/16/12
Isosafrole	120-58-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Phentermine	122-09-8	LA-523-456	U	<5		ug/L	1	5	9	10/16/12
1,4-Dioxane	123-91-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,4-Naphthoquinone	130-15-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12

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Department Organic, Semivolatiles

Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
1-Naphthylamine	134-32-7	LA-523-456	U	<1		ug/L	1	1	2	10/16/12
Aramite	140-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Kepone	143-50-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Hexachloropropene	1888-71-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Diallate	2303-16-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Pronamide	23950-58-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Isodrin	465-73-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Chlorobenzilate	510-15-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2-Acetylaminofluorene	53-96-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
n-Nitrosodiethylamine	55-18-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
3-Methylcholanthrene	56-49-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
4-Nitroquinoline-1-oxide	56-57-5	LA-523-456	U	<0.9		ug/L	1	0.9	2	10/16/12
7,12-Dimethylbenz(a)anthracene	57-97-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
2,3,4,6-Tetrachlorophenol	58-90-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
n-Nitrosomorpholine	59-89-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Pentachlorobenzene	608-93-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Phenacetin	62-44-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12

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Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Ethyl methanesulfonate	62-50-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Aniline	62-53-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
n-Nitrosodimethylamine	62-75-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Methyl methanesulfonate	66-27-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Pentachloroethane	76-01-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Pentachloronitrobenzene	82-68-8	LA-523-456	U	<1		ug/L	1	1	2	10/16/12
2,6-Dichlorophenol	87-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Dinoseb(..dinitromethylphenol)	88-85-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
4-Aminobiphenyl	92-67-1	LA-523-456	U	<1		ug/L	1	1	2	10/16/12
n-Nitrosodibutylamine	924-16-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
n-Nitrosopyrolidine	930-55-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Safrole	94-59-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
o-Toluidine	95-53-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,2,4,5-Tetrachlorobenzene	95-94-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Acetophenone	98-86-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,3,5-Trinitrobenzene	99-35-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12

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PQL is equivalent to Estimated Quantitation Limit (EQL)
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REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
2-Methyl-5-nitroaniline	99-55-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
1,3-Dinitrobenzene	99-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
O,O,O-Triethylthiophosphate	126-68-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Parathion	56-38-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Dimethylaminoazobenzene	60-11-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Dimethoate	60-51-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Thionazin	297-97-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Methyl parathion	298-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Phorate	298-02-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Disulfoton	298-04-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Sulfotep	3689-24-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Famfur	52-85-7	LA-523-456	U	<5		ug/L	1	5	9	10/16/12
N-Nitrosodiphenylamin/Diphenyl	DPA+NNDPA	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Methapyrilene	91-80-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/16/12
Total Petroleum Hydrocarbons (Water Prep										**10/04/12**
Extractable Diesel and Petroleum										
Diesel	TPHDIESEL	LA-523-493	U	<70		ug/L	1	70	100	10/05/12

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REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Kerosene	TPHKEROSEN	LA-523-493	U	<70		ug/L	1	70	100	10/05/12

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REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Gasoline Range Prep (W)										**10/16/12**
Gasoline Range (W)										
Gasoline	TPHGASOLIN	LA-523-443	U	<50		ug/L	1	50	200	10/16/12
Preparation for 8260B (W)										**10/11/12**
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Styrene	100-42-5	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Dibromochloromethane	124-48-1	LA-523-455	U	<1		ug/L	1	1	5	10/16/12

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REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Total 1,2-Dichloroethene	540-59-0	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
2-Hexanone	591-78-6	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Bromomethane	74-83-9	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Chloromethane	74-87-3	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Chloroethane	75-00-3	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Bromoform	75-25-2	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Bromodichloromethane	75-27-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,2-Dichloropropane	78-87-5	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	10/16/12

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REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1-Butanol	71-36-3	LA-523-455	U	<100		ug/L	1	100	500	10/16/12
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	10/16/12
Trichlorofluoromethane	75-69-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Acetonitrile	75-05-8	LA-523-455	U	<2		ug/L	1	2	10	10/16/12
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	10/16/12
Isobutyl alcohol	78-83-1	LA-523-455	U	<200		ug/L	1	200	1.E3	10/16/12
Iodomethane	74-88-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,1,1,2-Tetrachloroethane	630-20-6	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,2,3-Trichloropropane	96-18-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,2-Dibromo-3-chloropropane	96-12-8	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,2-Dibromoethane	106-93-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Acrolein	107-02-8	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Acrylonitrile	107-13-1	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Allyl chloride	107-05-1	LA-523-455	U	<1		ug/L	1	1	5	10/16/12

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REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Methylene bromide	74-95-3	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Dichlorodifluoromethane	75-71-8	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Ethyl methacrylate	97-63-2	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Methacrylonitrile	126-98-7	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Methyl methacrylate	80-62-6	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Trans-1,4-dichloro-2-butene	110-57-6	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Vinyl acetate	108-05-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Chloroprene	126-99-8	LA-523-455	U	<1		ug/L	1	1	5	10/16/12

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REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Gasoline Range Prep (W)										**10/16/12**
Gasoline Range (W)										
Gasoline	TPHGASOLIN	LA-523-443	U	<50		ug/L	1	50	200	10/16/12
Preparation for 8260B (W)										**10/11/12**
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Styrene	100-42-5	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Dibromochloromethane	124-48-1	LA-523-455	U	<1		ug/L	1	1	5	10/16/12

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REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Total 1,2-Dichloroethene	540-59-0	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
2-Hexanone	591-78-6	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Bromomethane	74-83-9	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Chloromethane	74-87-3	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Chloroethane	75-00-3	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Bromoform	75-25-2	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Bromodichloromethane	75-27-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,2-Dichloropropane	78-87-5	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	10/16/12

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PQL is equivalent to Estimated Quantitation Limit (EQL)
o - LCS recovery outside established laboratory acceptance limits.

REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
1,1,2,2-Tetrachloroethane	79-34-5	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1-Butanol	71-36-3	LA-523-455	U	<100		ug/L	1	100	500	10/16/12
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	10/16/12
Trichlorofluoromethane	75-69-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Acetonitrile	75-05-8	LA-523-455	U	<2		ug/L	1	2	10	10/16/12
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	10/16/12
Isobutyl alcohol	78-83-1	LA-523-455	U	<200		ug/L	1	200	1.E3	10/16/12
Iodomethane	74-88-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,1,1,2-Tetrachloroethane	630-20-6	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,2,3-Trichloropropane	96-18-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,2-Dibromo-3-chloropropane	96-12-8	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
1,2-Dibromoethane	106-93-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Acrolein	107-02-8	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Acrylonitrile	107-13-1	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Allyl chloride	107-05-1	LA-523-455	U	<1		ug/L	1	1	5	10/16/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Methylene bromide	74-95-3	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Dichlorodifluoromethane	75-71-8	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Ethyl methacrylate	97-63-2	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Methacrylonitrile	126-98-7	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Methyl methacrylate	80-62-6	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Trans-1,4-dichloro-2-butene	110-57-6	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Vinyl acetate	108-05-4	LA-523-455	U	<1		ug/L	1	1	5	10/16/12
Chloroprene	126-99-8	LA-523-455	U	<1		ug/L	1	1	5	10/16/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121226

Sample # 121226007
SAF# W13-010
Sample ID B2M218

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/05/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406	B	0.166		mg/L	1	0.10	0.30	10/05/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121226

Sample # 121226008
SAF# W13-010
Sample ID B2M219

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/05/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406	B	0.172		mg/L	1	0.10	0.30	10/05/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121226

Sample # 121226009
SAF# W13-010
Sample ID B2M220

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/05/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406	B	0.176		mg/L	1	0.10	0.30	10/05/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121226

Sample # 121226010
SAF# W13-010
Sample ID B2M233

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/05/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406		1.49		mg/L	1	0.10	0.30	10/05/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121226

Sample # 121226011
SAF# W13-010
Sample ID B2M234

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/05/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406		1.53		mg/L	1	0.10	0.30	10/05/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121226

Sample # 121226012
SAF# W13-010
Sample ID B2M235

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/05/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406		1.54		mg/L	1	0.10	0.30	10/05/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121226

Sample # 121226013
SAF# W13-010
Sample ID B2M135

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for Cyanide (W)										**10/10/12**
Cyanide (W) by Midi/Spectrophotometer										
Cyanide	57-12-5	LA-695-402	U	<4.0		ug/L	1	4.0	20	10/10/12
										10/08/12
Total Alkalinity as mg/L CaCO3 (Water)										
Total Alkalinity as CaCO3	ALKALINITY	LA-531-411		110		mg/L	1	1	10	10/08/12
										10/05/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406	B	0.154		mg/L	1	0.10	0.30	10/05/12

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.

REVISED121226 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121226

Sample # 121226014
SAF# W13-010
Sample ID B2M165

Matrix WATER
Sampled 10/03/12
Received 10/03/12

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for Cyanide (W)										**10/10/12**
Cyanide (W) by Midi/Spectrophotometer										
Cyanide	57-12-5	LA-695-402		36.3		ug/L	1	4.0	20	10/10/12
										10/08/12
Total Alkalinity as mg/L CaCO3 (Water)										
Total Alkalinity as CaCO3	ALKALINITY	LA-531-411		110		mg/L	1	1	10	10/08/12
										10/05/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406		1.62		mg/L	1	0.10	0.30	10/05/12

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.

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Analytical Batch 208205 (QC Batch: 208198)
Associated Samples 121226001, 121226002, 121226013, 121226014

Test ICP-6010 - All possible metals

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #82193**							
Iron	7439-89-6		<19	ug/L					U	10/05/12
Magnesium	7439-95-4		<4.0	ug/L					U	10/05/12
Manganese	7439-96-5		<4.0	ug/L					U	10/05/12
Nickel	7440-02-0		<4.0	ug/L					U	10/05/12
Potassium	7440-09-7		<76	ug/L					U	10/05/12
Silver	7440-22-4		<4.0	ug/L					U	10/05/12
Sodium	7440-23-5		<10	ug/L					U	10/05/12
Antimony	7440-36-0		<36	ug/L					U	10/05/12
Barium	7440-39-3		<4.0	ug/L					U	10/05/12
Cadmium	7440-43-9		<4.0	ug/L					U	10/05/12
Chromium	7440-47-3		<5.0	ug/L					U	10/05/12
Cobalt	7440-48-4		<4.0	ug/L					U	10/05/12
Copper	7440-50-8		<4.0	ug/L					U	10/05/12
Vanadium	7440-62-2		<5.0	ug/L					U	10/05/12
Zinc	7440-66-6		<5.0	ug/L					U	10/05/12
Calcium	7440-70-2		<49	ug/L					U	10/05/12
Strontium	7440-24-6		<9.0	ug/L					U	10/05/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Titanium	7440-32-6		<4.0	ug/L					U	10/05/12
Beryllium	7440-41-7		<4.0	ug/L					U	10/05/12
LCS			**QC Sample #82195**							
Iron	7439-89-6		1010	ug/L	100.6	80 - 120				10/05/12
Magnesium	7439-95-4		10300	ug/L	103	80 - 120				10/05/12
Manganese	7439-96-5		1030	ug/L	102.7	80 - 120				10/05/12
Nickel	7440-02-0		997	ug/L	99.7	80 - 120				10/05/12
Potassium	7440-09-7		10900	ug/L	108.6	80 - 120				10/05/12
Silver	7440-22-4		1020	ug/L	102.2	80 - 120				10/05/12
Sodium	7440-23-5		10500	ug/L	105	80 - 120				10/05/12
Antimony	7440-36-0		1040	ug/L	103.9	80 - 120				10/05/12
Barium	7440-39-3		1040	ug/L	104.5	80 - 120				10/05/12
Cadmium	7440-43-9		1010	ug/L	100.9	80 - 120				10/05/12
Chromium	7440-47-3		1010	ug/L	101.2	80 - 120				10/05/12
Cobalt	7440-48-4		991	ug/L	99.1	80 - 120				10/05/12
Copper	7440-50-8		1030	ug/L	102.8	80 - 120				10/05/12
Vanadium	7440-62-2		1010	ug/L	100.6	80 - 120				10/05/12
Zinc	7440-66-6		1030	ug/L	103.3	80 - 120				10/05/12
Calcium	7440-70-2		20700	ug/L	103.7	80 - 120				10/05/12
Strontium	7440-24-6		988	ug/L	98.8	80 - 120				10/05/12
Titanium	7440-32-6		1030	ug/L	103.4	80 - 120				10/05/12
Beryllium	7440-41-7		1010	ug/L	101.4	80 - 120				10/05/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
MS			**QC Sample #82196**							
			Original	**121223007**						
Iron	7439-89-6		1010	ug/L	101.2	75 - 125				10/05/12
Magnesium	7439-95-4		10400	ug/L	104.5	75 - 125				10/05/12
Manganese	7439-96-5		1030	ug/L	103.4	75 - 125				10/05/12
Nickel	7440-02-0		988	ug/L	98.8	75 - 125				10/05/12
Potassium	7440-09-7		11000	ug/L	110	75 - 125				10/05/12
Silver	7440-22-4		1020	ug/L	102	75 - 125				10/05/12
Sodium	7440-23-5		9960	ug/L	99.6	75 - 125				10/05/12
Antimony	7440-36-0		1030	ug/L	103.4	75 - 125				10/05/12
Barium	7440-39-3		1030	ug/L	103.4	75 - 125				10/05/12
Cadmium	7440-43-9		1010	ug/L	101.2	75 - 125				10/05/12
Chromium	7440-47-3		1020	ug/L	102.4	75 - 125				10/05/12
Cobalt	7440-48-4		984	ug/L	98.4	75 - 125				10/05/12
Copper	7440-50-8		1020	ug/L	101.5	75 - 125				10/05/12
Vanadium	7440-62-2		1010	ug/L	101.5	75 - 125				10/05/12
Zinc	7440-66-6		1040	ug/L	103.7	75 - 125				10/05/12
Calcium	7440-70-2		21800	ug/L	108.8	75 - 125				10/05/12
Strontium	7440-24-6		1000	ug/L	100.3	75 - 125				10/05/12
Titanium	7440-32-6		1030	ug/L	103.1	75 - 125				10/05/12
Beryllium	7440-41-7		1030	ug/L	102.6	75 - 125				10/05/12
MSD			**QC Sample #82197**							
			Original	**121223007**					**Paired**	**82196**
Iron	7439-89-6		1000	ug/L	100.5	75 - 125	0.70	20		10/05/12

* - QC result out of range

n/a - Not Applicable

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Magnesium	7439-95-4		10300	ug/L	103.3	75 - 125	0.50	20		10/05/12
Manganese	7439-96-5		1030	ug/L	102.9	75 - 125	0.50	20		10/05/12
Nickel	7440-02-0		984	ug/L	98.4	75 - 125	0.40	20		10/05/12
Potassium	7440-09-7		10900	ug/L	108.5	75 - 125	0.80	20		10/05/12
Silver	7440-22-4		1020	ug/L	101.7	75 - 125	0.30	20		10/05/12
Sodium	7440-23-5		9930	ug/L	99.3	75 - 125	0.10	20		10/05/12
Antimony	7440-36-0		1050	ug/L	104.6	75 - 125	1.20	20		10/05/12
Barium	7440-39-3		1030	ug/L	103.5	75 - 125	0.10	20		10/05/12
Cadmium	7440-43-9		1010	ug/L	101.3	75 - 125	0.10	20		10/05/12
Chromium	7440-47-3		1020	ug/L	102.1	75 - 125	0.30	20		10/05/12
Cobalt	7440-48-4		981	ug/L	98.1	75 - 125	0.30	20		10/05/12
Copper	7440-50-8		1010	ug/L	101.4	75 - 125	0.10	20		10/05/12
Vanadium	7440-62-2		1010	ug/L	101	75 - 125	0.50	20		10/05/12
Zinc	7440-66-6		1040	ug/L	103.8	75 - 125	0.10	20		10/05/12
Calcium	7440-70-2		21200	ug/L	105.8	75 - 125	0.90	20		10/05/12
Strontium	7440-24-6		999	ug/L	99.9	75 - 125	0.30	20		10/05/12
Titanium	7440-32-6		1030	ug/L	102.9	75 - 125	0.20	20		10/05/12
Beryllium	7440-41-7		1020	ug/L	102.5	75 - 125	0.10	20		10/05/12

* - QC result out of range

n/a - Not Applicable

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analytical Batch 208258 (QC Batch: 208245)
Associated Samples 121226013, 121226014

Test Extractable Diesel and Petroleum

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #82350**							
Diesel	TPHDIESEL		<80	ug/L					U	10/05/12
Kerosene	TPHKEROSE		<80	ug/L					U	10/05/12
LCS			**QC Sample #82351**							
Diesel	TPHDIESEL		2800	ug/L	111.6	65 - 128				10/05/12
MS			**QC Sample #82352**							
			Original 121223013							
Diesel	TPHDIESEL		2400	ug/L	102.2	73 - 123				10/05/12
MSD			**QC Sample #82353**							
			Original 121223013					**Paired**	**82352**	
Diesel	TPHDIESEL		2500	ug/L	105.7	73 - 123	3.40	20		10/05/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121226

Analytical Batch 208268 (QC Batch: 208268) **Test** Total Organic Carbon
Associated Samples 121226007, 121226008, 121226009, 121226010, 121226011, 121226012, 121226013, 121226014

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #82439**							
Total Organic Carbon	TOC		<0.045	mg/L					U	10/05/12
LCS			**QC Sample #82440**							
Total Organic Carbon	TOC		2.20	mg/L	109.8	80 - 120				10/05/12
MS			**QC Sample #82441**							
			Original 121226007							
Total Organic Carbon	TOC	0.166	2.21	mg/L	110.6	75 - 125				10/05/12
MSD			**QC Sample #82442**							
			Original 121226007					**Paired**	**82441**	
Total Organic Carbon	TOC	0.166	2.22	mg/L	111.1	75 - 125	0.40	20		10/05/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Analytical Batch 208292 (QC Batch: 208257) **Test** ICP-2008 MS All possible metal
Associated Samples 121226001, 121226002, 121226003, 121226004, 121226005, 121226006, 121226013, 121226014

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #82385**						
Aluminum	7429-90-5		16.0	ug/L				B	10/09/12
Manganese	7439-96-5		<0.10	ug/L				U	10/09/12
Nickel	7440-02-0		<0.10	ug/L				U	10/09/12
Silver	7440-22-4		<0.050	ug/L				U	10/09/12
Antimony	7440-36-0		<0.30	ug/L				U	10/09/12
Barium	7440-39-3		<0.20	ug/L				U	10/09/12
Beryllium	7440-41-7		<0.10	ug/L				U	10/09/12
Cadmium	7440-43-9		<0.050	ug/L				U	10/09/12
Chromium	7440-47-3		<0.10	ug/L				U	10/09/12
Cobalt	7440-48-4		<0.050	ug/L				U	10/09/12
Copper	7440-50-8		0.155	ug/L				B	10/09/12
Vanadium	7440-62-2		0.315	ug/L				B	10/09/12
Zinc	7440-66-6		<1.0	ug/L				U	10/09/12
Lead	7439-92-1		<0.050	ug/L				U	10/09/12
Mercury	7439-97-6		<0.050	ug/L				U	10/09/12
Molybdenum	7439-98-7		<0.050	ug/L				U	10/09/12
Strontium	7440-24-6		0.242	ug/L				B	10/09/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Thallium	7440-28-0		<0.050	ug/L					U	10/09/12
Tin	7440-31-5		<0.050	ug/L					U	10/09/12
Arsenic	7440-38-2		<0.20	ug/L					U	10/09/12
Selenium	7782-49-2		<1.0	ug/L					U	10/09/12
LCS			**QC Sample #82386**							
Aluminum	7429-90-5		448	ug/L	112	85 - 115				10/09/12
Manganese	7439-96-5		42.3	ug/L	105.7	85 - 115				10/09/12
Nickel	7440-02-0		42.4	ug/L	105.9	85 - 115				10/09/12
Silver	7440-22-4		41.8	ug/L	104.6	85 - 115				10/09/12
Antimony	7440-36-0		41.1	ug/L	102.6	85 - 115				10/09/12
Barium	7440-39-3		43.4	ug/L	108.4	85 - 115				10/09/12
Beryllium	7440-41-7		44.0	ug/L	110	85 - 115				10/09/12
Cadmium	7440-43-9		41.7	ug/L	104.4	85 - 115				10/09/12
Chromium	7440-47-3		43.1	ug/L	107.8	85 - 115				10/09/12
Cobalt	7440-48-4		42.4	ug/L	106.1	85 - 115				10/09/12
Copper	7440-50-8		42.7	ug/L	106.8	85 - 115				10/09/12
Vanadium	7440-62-2		43.3	ug/L	108.3	85 - 115				10/09/12
Zinc	7440-66-6		39.6	ug/L	99	85 - 115				10/09/12
Lead	7439-92-1		44.5	ug/L	111.3	85 - 115				10/09/12
Mercury	7439-97-6		1.80	ug/L	89.8	85 - 115				10/09/12
Molybdenum	7439-98-7		42.2	ug/L	105.4	85 - 115				10/09/12
Strontium	7440-24-6		424	ug/L	106	85 - 115				10/09/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Thallium	7440-28-0		44.2	ug/L	110.4	85 - 115				10/09/12
Tin	7440-31-5		42.1	ug/L	105.2	85 - 115				10/09/12
Arsenic	7440-38-2		40.5	ug/L	101.2	85 - 115				10/09/12
Selenium	7782-49-2		37.7	ug/L	94.2	85 - 115				10/09/12
MS			**QC Sample #82387**							
			Original 121223010							
Aluminum	7429-90-5		453	ug/L	113.1	70 - 130				10/09/12
Manganese	7439-96-5		42.1	ug/L	105.3	70 - 130				10/09/12
Nickel	7440-02-0		40.8	ug/L	102.1	70 - 130				10/09/12
Silver	7440-22-4		39.8	ug/L	99.6	70 - 130				10/09/12
Antimony	7440-36-0		42.7	ug/L	106.7	70 - 130				10/09/12
Barium	7440-39-3		42.8	ug/L	107.1	70 - 130				10/09/12
Beryllium	7440-41-7		44.8	ug/L	112.1	70 - 130				10/09/12
Cadmium	7440-43-9		41.8	ug/L	104.6	70 - 130				10/09/12
Chromium	7440-47-3		43.4	ug/L	108.4	70 - 130				10/09/12
Cobalt	7440-48-4		41.7	ug/L	104.2	70 - 130				10/09/12
Copper	7440-50-8		39.8	ug/L	99.4	70 - 130				10/09/12
Vanadium	7440-62-2		44.4	ug/L	111	70 - 130				10/09/12
Zinc	7440-66-6		38.0	ug/L	95	70 - 130				10/09/12
Lead	7439-92-1		46.4	ug/L	115.9	70 - 130				10/09/12
Mercury	7439-97-6		1.91	ug/L	95.4	70 - 130				10/09/12
Molybdenum	7439-98-7		44.7	ug/L	111.7	70 - 130				10/09/12
Strontium	7440-24-6		427	ug/L	106.7	70 - 130				10/09/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Thallium	7440-28-0		46.8	ug/L	116.9	70 - 130				10/09/12
Tin	7440-31-5		43.4	ug/L	108.5	70 - 130				10/09/12
Arsenic	7440-38-2		41.6	ug/L	103.9	70 - 130				10/09/12
Selenium	7782-49-2		38.2	ug/L	95.5	70 - 130				10/09/12
MSD			**QC Sample #82388**							
			Original 121223010					**Paired**	**82387**	
Aluminum	7429-90-5		453	ug/L	113.2	70 - 130	0.00	20		10/09/12
Manganese	7439-96-5		42.3	ug/L	105.7	70 - 130	0.40	20		10/09/12
Nickel	7440-02-0		40.9	ug/L	102.3	70 - 130	0.20	20		10/09/12
Silver	7440-22-4		40.0	ug/L	100	70 - 130	0.40	20		10/09/12
Antimony	7440-36-0		42.4	ug/L	106.1	70 - 130	0.60	20		10/09/12
Barium	7440-39-3		42.5	ug/L	106.4	70 - 130	0.20	20		10/09/12
Beryllium	7440-41-7		46.4	ug/L	116.1	70 - 130	3.50	20		10/09/12
Cadmium	7440-43-9		41.4	ug/L	103.6	70 - 130	0.90	20		10/09/12
Chromium	7440-47-3		43.3	ug/L	108.3	70 - 130	0.10	20		10/09/12
Cobalt	7440-48-4		41.5	ug/L	103.7	70 - 130	0.50	20		10/09/12
Copper	7440-50-8		39.8	ug/L	99.4	70 - 130	0.00	20		10/09/12
Vanadium	7440-62-2		44.7	ug/L	111.7	70 - 130	0.40	20		10/09/12
Zinc	7440-66-6		38.6	ug/L	96.6	70 - 130	1.70	20		10/09/12
Lead	7439-92-1		46.1	ug/L	115.3	70 - 130	0.60	20		10/09/12
Mercury	7439-97-6		1.89	ug/L	94.6	70 - 130	0.80	20		10/09/12
Molybdenum	7439-98-7		44.6	ug/L	111.6	70 - 130	0.10	20		10/09/12
Strontium	7440-24-6		434	ug/L	108.5	70 - 130	1.10	20		10/09/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Thallium	7440-28-0		46.5	ug/L	116.2	70 - 130	0.60	20		10/09/12
Tin	7440-31-5		43.2	ug/L	108	70 - 130	0.50	20		10/09/12
Arsenic	7440-38-2		41.8	ug/L	104.5	70 - 130	0.60	20		10/09/12
Selenium	7782-49-2		38.3	ug/L	95.7	70 - 130	0.20	20		10/09/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Analytical Batch 208457 (QC Batch: 208456)
Associated Samples 121226013, 121226014

Test SW-846 8260B Volatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #82689**							
1,1-Dichloroethene	75-35-4		<1	ug/L					U	10/16/12
Trichloroethene	79-01-6		<1	ug/L					U	10/16/12
Benzene	71-43-2		<1	ug/L					U	10/16/12
Toluene	108-88-3		<1	ug/L					U	10/16/12
Chlorobenzene	108-90-7		<1	ug/L					U	10/16/12
1,1-Dichloroethane	75-34-3		<1	ug/L					U	10/16/12
Ethylbenzene	100-41-4		<1	ug/L					U	10/16/12
Styrene	100-42-5		<1	ug/L					U	10/16/12
cis-1,3-Dichloropropene	10061-01-5		<1	ug/L					U	10/16/12
trans-1,3-Dichloropropene	10061-02-6		<1	ug/L					U	10/16/12
1,2-Dichloroethane	107-06-2		<1	ug/L					U	10/16/12
Methyl isobutyl ketone	108-10-1		<1	ug/L					U	10/16/12
Dibromochloromethane	124-48-1		<1	ug/L					U	10/16/12
Tetrachloroethene	127-18-4		<1	ug/L					U	10/16/12
Total Xylenes	1330-20-7		<1	ug/L					U	10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

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	10/16/12
Carbon tetrachloride	56-23-5		<1	ug/L				U	10/16/12
2-Hexanone	591-78-6		<1	ug/L				U	10/16/12
Acetone	67-64-1		<1	ug/L				U	10/16/12
Chloroform	67-66-3		<1	ug/L				U	10/16/12
1,1,1-Trichloroethane	71-55-6		<1	ug/L				U	10/16/12
Bromomethane	74-83-9		<1	ug/L				U	10/16/12
Chloromethane	74-87-3		<1	ug/L				U	10/16/12
Chloroethane	75-00-3		<1	ug/L				U	10/16/12
Vinyl chloride	75-01-4		<1	ug/L				U	10/16/12
Methylene chloride	75-09-2		<1	ug/L				U	10/16/12
Carbon disulfide	75-15-0		<1	ug/L				U	10/16/12
Bromoform	75-25-2		<1	ug/L				U	10/16/12
Bromodichloromethane	75-27-4		<1	ug/L				U	10/16/12
1,2-Dichloropropane	78-87-5		<1	ug/L				U	10/16/12
Methyl ethyl ketone	78-93-3		<1	ug/L				U	10/16/12
1,1,2-Trichloroethane	79-00-5		<1	ug/L				U	10/16/12
1,1,2,2-Tetrachloroethane	79-34-5		<1	ug/L				U	10/16/12
1-Butanol	71-36-3		<100	ug/L				U	10/16/12
Tetrahydrofuran	109-99-9		<2	ug/L				U	10/16/12
Trichlorofluoromethane	75-69-4		<1	ug/L				U	10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

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	10/16/12
Acetonitrile	75-05-8		<2	ug/L				U	10/16/12
cis-1,2-Dichloroethene	156-59-2		<1	ug/L				U	10/16/12
Propionitrile	107-12-0		<2	ug/L				U	10/16/12
Isobutyl alcohol	78-83-1		<200	ug/L				U	10/16/12
Iodomethane	74-88-4		<1	ug/L				U	10/16/12
1,1,1,2-Tetrachloroethane	630-20-6		<1	ug/L				U	10/16/12
1,2,3-Trichloropropane	96-18-4		<1	ug/L				U	10/16/12
1,2-Dibromo-3-chloropropane	96-12-8		<1	ug/L				U	10/16/12
1,2-Dibromoethane	106-93-4		<1	ug/L				U	10/16/12
Acrolein	107-02-8		<1	ug/L				U	10/16/12
Acrylonitrile	107-13-1		<1	ug/L				U	10/16/12
Allyl chloride	107-05-1		<1	ug/L				U	10/16/12
Methylene bromide	74-95-3		<1	ug/L				U	10/16/12
Dichlorodifluoromethane	75-71-8		<1	ug/L				U	10/16/12
Ethyl methacrylate	97-63-2		<1	ug/L				U	10/16/12
Methacrylonitrile	126-98-7		<1	ug/L				U	10/16/12
Methyl methacrylate	80-62-6		<1	ug/L				U	10/16/12
Trans-1,4-dichloro-2-butene	110-57-6		<1	ug/L				U	10/16/12
Vinyl acetate	108-05-4		<1	ug/L				U	10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Chloroprene	126-99-8		<1	ug/L					U	10/16/12
LCS			**QC Sample #82690**							
1,1-Dichloroethene	75-35-4		25	ug/L	99.9	75 - 125				10/16/12
Trichloroethene	79-01-6		24	ug/L	97.2	75 - 125				10/16/12
Benzene	71-43-2		26	ug/L	103.8	75 - 125				10/16/12
Toluene	108-88-3		25	ug/L	99.4	75 - 125				10/16/12
Chlorobenzene	108-90-7		25	ug/L	101.5	75 - 125				10/16/12
1,1-Dichloroethane	75-34-3		25	ug/L	100.4	75 - 125				10/16/12
Ethylbenzene	100-41-4		26	ug/L	102.4	75 - 125				10/16/12
Styrene	100-42-5		27	ug/L	109.9	75 - 125				10/16/12
trans-1,3-Dichloropropene	10061-02-6		27	ug/L	106.9	75 - 125				10/16/12
1,2-Dichloroethane	107-06-2		28	ug/L	111	75 - 125				10/16/12
1,1,1-Trichloroethane	71-55-6		26	ug/L	103.1	75 - 125				10/16/12
Dibromochloromethane	124-48-1		28	ug/L	111.1	75 - 125				10/16/12
Carbon disulfide	75-15-0		25	ug/L	99.2	75 - 125				10/16/12
Bromoform	75-25-2		31	ug/L	125	75 - 125				10/16/12
Bromodichloromethane	75-27-4		27	ug/L	107.9	75 - 125				10/16/12
1,2-Dichloropropane	78-87-5		27	ug/L	106.4	75 - 125				10/16/12
1,1,2-Trichloroethane	79-00-5		28	ug/L	110.6	75 - 125				10/16/12
1,1,2,2-Tetrachloroethane	79-34-5		29	ug/L	116.2	75 - 125				10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
trans-1,2-Dichloroethene	156-60-5		25	ug/L	100.8	75 - 125				10/16/12
cis-1,2-Dichloroethene	156-59-2		25	ug/L	98.2	75 - 125				10/16/12
MS			**QC Sample #82691**							
			Original 121223013							
1,1-Dichloroethene	75-35-4		25	ug/L	100.2	75 - 125				10/16/12
Trichloroethene	79-01-6		25	ug/L	98.9	75 - 125				10/16/12
Benzene	71-43-2		26	ug/L	105.3	75 - 125				10/16/12
Toluene	108-88-3		25	ug/L	101.8	75 - 125				10/16/12
Chlorobenzene	108-90-7		26	ug/L	104.4	75 - 125				10/16/12
1,1-Dichloroethane	75-34-3		25	ug/L	101	75 - 125				10/16/12
Ethylbenzene	100-41-4		26	ug/L	104.5	75 - 125				10/16/12
Styrene	100-42-5		28	ug/L	110.6	75 - 125				10/16/12
trans-1,3-Dichloropropene	10061-02-6		26	ug/L	104.6	75 - 125				10/16/12
1,2-Dichloroethane	107-06-2		27	ug/L	106.5	75 - 125				10/16/12
1,1,1-Trichloroethane	71-55-6		26	ug/L	104.9	75 - 125				10/16/12
Dibromochloromethane	124-48-1		28	ug/L	110	75 - 125				10/16/12
Carbon disulfide	75-15-0		25	ug/L	98.6	75 - 125				10/16/12
Bromoform	75-25-2		30	ug/L	121.3	75 - 125				10/16/12
Bromodichloromethane	75-27-4		27	ug/L	107.4	75 - 125				10/16/12
1,2-Dichloropropane	78-87-5		27	ug/L	106.6	75 - 125				10/16/12
1,1,2-Trichloroethane	79-00-5		27	ug/L	109.8	75 - 125				10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
1,1,2,2-Tetrachloroethane	79-34-5		28	ug/L	111.6	75 - 125				10/16/12
trans-1,2-Dichloroethene	156-60-5		26	ug/L	104.4	75 - 125				10/16/12
cis-1,2-Dichloroethene	156-59-2		25	ug/L	98.5	75 - 125				10/16/12
MSD			**QC Sample #82692**							
			Original 121223013					**Paired**	**82691**	
1,1-Dichloroethene	75-35-4		25	ug/L	101.7	75 - 125	1.40	20		10/16/12
Trichloroethene	79-01-6		24	ug/L	97	75 - 125	2.00	20		10/16/12
Benzene	71-43-2		26	ug/L	102.2	75 - 125	3.00	20		10/16/12
Toluene	108-88-3		25	ug/L	99.2	75 - 125	2.50	20		10/16/12
Chlorobenzene	108-90-7		25	ug/L	100.5	75 - 125	3.80	20		10/16/12
1,1-Dichloroethane	75-34-3		25	ug/L	100.5	75 - 125	0.60	20		10/16/12
Ethylbenzene	100-41-4		26	ug/L	102.4	75 - 125	2.00	20		10/16/12
Styrene	100-42-5		27	ug/L	107.1	75 - 125	3.20	20		10/16/12
trans-1,3-Dichloropropene	10061-02-6		25	ug/L	100.4	75 - 125	4.10	20		10/16/12
1,2-Dichloroethane	107-06-2		25	ug/L	101.8	75 - 125	4.40	20		10/16/12
1,1,1-Trichloroethane	71-55-6		26	ug/L	103	75 - 125	1.80	20		10/16/12
Dibromochloromethane	124-48-1		26	ug/L	105.3	75 - 125	4.40	20		10/16/12
Carbon disulfide	75-15-0		25	ug/L	98.6	75 - 125	0.00	20		10/16/12
Bromoform	75-25-2		28	ug/L	113.4	75 - 125	6.80	20		10/16/12
Bromodichloromethane	75-27-4		26	ug/L	104.5	75 - 125	2.80	20		10/16/12
1,2-Dichloropropane	78-87-5		26	ug/L	103.3	75 - 125	3.10	20		10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
1,1,2-Trichloroethane	79-00-5		26	ug/L	104.2	75 - 125	5.20	20		10/16/12
1,1,2,2-Tetrachloroethane	79-34-5		26	ug/L	103.4	75 - 125	7.60	20		10/16/12
trans-1,2-Dichloroethene	156-60-5		24	ug/L	97.2	75 - 125	7.10	20		10/16/12
cis-1,2-Dichloroethene	156-59-2		25	ug/L	98.6	75 - 125	0.10	20		10/16/12

* - QC result out of range

n/a - Not Applicable

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121226

Analytical Batch 208469 (QC Batch: 208469)
Associated Samples 121226013, 121226014

Test Total Alkalinity as mg/L CaCO3 (Water)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS			**QC Sample #82711**							
Total Alkalinity as CaCO3	ALKALINITY		100	mg/L	99.6	80 - 120				10/08/12
DUP			**QC Sample #82712**							
			Original 121208020							
Total Alkalinity as CaCO3	ALKALINITY		77	mg/L			1.30	20		10/08/12
LCS			**QC Sample #82713**							
Total Alkalinity as CaCO3	ALKALINITY		98	mg/L	98.4	80 - 120				10/08/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121226

Analytical Batch 208482 (QC Batch: 208476)
Associated Samples 121226013, 121226014

Test Cyanide (W) by Midi/Spectrophotometer

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #82749**							
Cyanide	57-12-5		<4.0	ug/L					U	10/10/12
LCS			**QC Sample #82752**							
Cyanide	57-12-5		52.4	ug/L	104.8	85 - 115				10/10/12
MS			**QC Sample #82753**							
			Original 121203010							
Cyanide	57-12-5		40.4	ug/L	100.9	75 - 125				10/10/12
MSD			**QC Sample #82754**							
			Original 121203010					**Paired**	**82753**	
Cyanide	57-12-5		40.8	ug/L	102	75 - 125	1.10	20		10/10/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Analytical Batch 208508 (QC Batch: 208507)
Associated Samples 121226013, 121226014

Test Chemical Oxygen Demand

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #82881**							
Chemical Oxygen Demand	COD		<10	mg/L					U	10/11/12
LCS			**QC Sample #82882**							
Chemical Oxygen Demand	COD		99.2	mg/L	99.2	80 - 120				10/11/12
MS			**QC Sample #82885**							
			Original 121223013							
Chemical Oxygen Demand	COD		252	mg/L	100.8	75 - 125				10/11/12
MSD			**QC Sample #82886**							
			Original 121223013					**Paired**	**82885**	
Chemical Oxygen Demand	COD		247	mg/L	99	75 - 125	1.90	20		10/11/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Analytical Batch 208757 (QC Batch: 208756)
Associated Samples 121226013, 121226014

Test Gasoline Range (W)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #82983**								
Gasoline	TPHGASOLI		<50	ug/L						U	10/16/12
LCS			**QC Sample #82984**								
Gasoline	TPHGASOLI		2300	ug/L	93.6	80 - 120					10/16/12
MS			**QC Sample #82985**								
			Original 121223013								
Gasoline	TPHGASOLI		1900	ug/L	78	75 - 125					10/16/12
MSD			**QC Sample #82986**								
			Original 121223013						**Paired**	**82985**	
Gasoline	TPHGASOLI		2100	ug/L	85.1	75 - 125	8.70	20			10/16/12
DUP			**QC Sample #82987**								
			Original 121223013								
Gasoline	TPHGASOLI		<50	ug/L			0.00	20		U	10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analytical Batch 208850 (QC Batch: 208488)
Associated Samples 121226013, 121226014

Test SW-846 8270D Semivolatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #82826**							
4-Nitrophenol	100-02-7		<1	ug/L					U	10/16/12
Phenol	108-95-2		<1	ug/L					U	10/16/12
1,2,4-Trichlorobenzene	120-82-1		<1	ug/L					U	10/16/12
2,4-Dinitrotoluene	121-14-2		<1	ug/L					U	10/16/12
1,4-Dichlorobenzene	106-46-7		<1	ug/L					U	10/16/12
Pyrene	129-00-0		<1	ug/L					U	10/16/12
4-Chloro-3-methylphenol	59-50-7		<1	ug/L					U	10/16/12
n-Nitroso-di-n-propylamine	621-64-7		<1	ug/L					U	10/16/12
Acenaphthene	83-32-9		<1	ug/L					U	10/16/12
Pentachlorophenol	87-86-5		<1	ug/L					U	10/16/12
2-Chlorophenol	95-57-8		<1	ug/L					U	10/16/12
4-Nitroaniline	100-01-6		<1	ug/L					U	10/16/12
4-Bromophenyl-phenylether	101-55-3		<1	ug/L					U	10/16/12
2,4-Dimethylphenol	105-67-9		<2	ug/L					U	10/16/12
4-Chloroaniline	106-47-8		<1	ug/L					U	10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

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	10/16/12
Bis-(2-Chloroethyl) ether	111-44-4		<1	ug/L					U	10/16/12
Bis-(2-Chloroethoxy)methane	111-91-1		<1	ug/L					U	10/16/12
Bis-(2-Ethylhexyl)phthalate	117-81-7		<1	ug/L					U	10/16/12
Di-n-octylphthalate	117-84-0		<1	ug/L					U	10/16/12
Hexachlorobenzene	118-74-1		<1	ug/L					U	10/16/12
Anthracene	120-12-7		<1	ug/L					U	10/16/12
2,4-Dichlorophenol	120-83-2		<1	ug/L					U	10/16/12
Dimethylphthalate	131-11-3		<1	ug/L					U	10/16/12
Dibenzofuran	132-64-9		<1	ug/L					U	10/16/12
Benzo(g,h,i)perylene	191-24-2		<1	ug/L					U	10/16/12
Indeno(1,2,3-cd)pyrene	193-39-5		<1	ug/L					U	10/16/12
Benzo(b)fluoranthene	205-99-2		<1	ug/L					U	10/16/12
Fluoranthene	206-44-0		<1	ug/L					U	10/16/12
Benzo(k)fluoranthene	207-08-9		<1	ug/L					U	10/16/12
Acenaphthylene	208-96-8		<1	ug/L					U	10/16/12
Chrysene	218-01-9		<1	ug/L					U	10/16/12
Benzo(a)pyrene	50-32-8		<1	ug/L					U	10/16/12
2,4-Dinitrophenol	51-28-5		<1	ug/L					U	10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

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	10/16/12
4,6-Dinitro-2-methylphenol	534-52-1		<1	ug/L					U	10/16/12
1,3-Dichlorobenzene	541-73-1		<1	ug/L					U	10/16/12
Benzo(a)anthracene	56-55-3		<1	ug/L					U	10/16/12
2,6-Dinitrotoluene	606-20-2		<1	ug/L					U	10/16/12
4-Chlorophenyl-phenylether	7005-72-3		<1	ug/L					U	10/16/12
Hexachlorocyclopentadiene	77-47-4		<1	ug/L					U	10/16/12
Isophorone	78-59-1		<1	ug/L					U	10/16/12
Diethyl phthalate	84-66-2		<1	ug/L					U	10/16/12
Di-n-butylphthalate	84-74-2		<1	ug/L					U	10/16/12
Phenanthrene	85-01-8		<1	ug/L					U	10/16/12
Butylbenzylphthalate	85-68-7		<1	ug/L					U	10/16/12
Fluorene	86-73-7		<1	ug/L					U	10/16/12
Carbazole	86-74-8		<1	ug/L					U	10/16/12
Hexachlorobutadiene	87-68-3		<1	ug/L					U	10/16/12
2-Nitroaniline	88-74-4		<1	ug/L					U	10/16/12
2-Nitrophenol	88-75-5		<1	ug/L					U	10/16/12
Naphthalene	91-20-3		<1	ug/L					U	10/16/12
2-Methylnaphthalene	91-57-6		<1	ug/L					U	10/16/12
2-Chloronaphthalene	91-58-7		<1	ug/L					U	10/16/12
3,3-Dichlorobenzidine	91-94-1		<1	ug/L					U	10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
2-Methylphenol	95-48-7		<1	ug/L					U	10/16/12
1,2-Dichlorobenzene	95-50-1		<1	ug/L					U	10/16/12
2,4,5-Trichlorophenol	95-95-4		<1	ug/L					U	10/16/12
Nitrobenzene	98-95-3		<1	ug/L					U	10/16/12
3-Nitroaniline	99-09-2		<1	ug/L					U	10/16/12
3 & 4 Methylphenol, Total	65794-96-9		<1	ug/L					U	10/16/12
Hexachloroethane	67-72-1		<1	ug/L					U	10/16/12
2,4,6-Trichlorophenol	88-06-2		<1	ug/L					U	10/16/12
Benzyl alcohol	100-51-6		<1	ug/L					U	10/16/12
Tributyl phosphate	126-73-8		<1	ug/L					U	10/16/12
2-Naphthylamine	91-59-8		<2	ug/L					U	10/16/12
Pyridine	110-86-1		<1	ug/L					U	10/16/12
n-Nitrosopiperidine	100-75-4		<1	ug/L					U	10/16/12
n-Nitrosomethylethylamine	10595-95-6		<1	ug/L					U	10/16/12
p-Phenylenediamine	106-50-3		<1	ug/L					U	10/16/12
2-Picoline	109-06-8		<1	ug/L					U	10/16/12
3,3-Dimethylbenzidine	119-93-7		<4	ug/L					U	10/16/12
Isosafrole	120-58-1		<1	ug/L					U	10/16/12
Phentermine	122-09-8		<5	ug/L					U	10/16/12
1,4-Dioxane	123-91-1		<1	ug/L					U	10/16/12
1,4-Naphthoquinone	130-15-4		<1	ug/L					U	10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
1-Naphthylamine	134-32-7		<2	ug/L				U	10/16/12
Aramite	140-57-8		<1	ug/L				U	10/16/12
Kepone	143-50-0		<1	ug/L				U	10/16/12
Hexachloropropene	1888-71-7		<1	ug/L				U	10/16/12
Diallate	2303-16-4		<1	ug/L				U	10/16/12
Pronamide	23950-58-5		<1	ug/L				U	10/16/12
Isodrin	465-73-6		<1	ug/L				U	10/16/12
Chlorobenzilate	510-15-6		<1	ug/L				U	10/16/12
2-Acetylaminofluorene	53-96-3		<1	ug/L				U	10/16/12
n-Nitrosodiethylamine	55-18-5		<1	ug/L				U	10/16/12
3-Methylcholanthrene	56-49-5		<1	ug/L				U	10/16/12
4-Nitroquinoline-1-oxide	56-57-5		<1	ug/L				U	10/16/12
7,12-Dimethylbenz(a)anthracene	57-97-6		<1	ug/L				U	10/16/12
2,3,4,6-Tetrachlorophenol	58-90-2		<1	ug/L				U	10/16/12
n-Nitrosomorpholine	59-89-2		<1	ug/L				U	10/16/12
Pentachlorobenzene	608-93-5		<1	ug/L				U	10/16/12
Phenacetin	62-44-2		<1	ug/L				U	10/16/12
Ethyl methanesulfonate	62-50-0		<1	ug/L				U	10/16/12
Aniline	62-53-3		<1	ug/L				U	10/16/12
n-Nitrosodimethylamine	62-75-9		<1	ug/L				U	10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
Methyl methanesulfonate	66-27-3		<1	ug/L				U	10/16/12
Pentachloroethane	76-01-7		<1	ug/L				U	10/16/12
Pentachloronitrobenzene	82-68-8		<2	ug/L				U	10/16/12
2,6-Dichlorophenol	87-65-0		<1	ug/L				U	10/16/12
Dinoseb(..dinitromethylphenol)	88-85-7		<1	ug/L				U	10/16/12
4-Aminobiphenyl	92-67-1		<2	ug/L				U	10/16/12
n-Nitrosodibutylamine	924-16-3		<1	ug/L				U	10/16/12
n-Nitrosopyrolidine	930-55-2		<1	ug/L				U	10/16/12
Safrole	94-59-7		<1	ug/L				U	10/16/12
o-Toluidine	95-53-4		<1	ug/L				U	10/16/12
1,2,4,5-Tetrachlorobenzene	95-94-3		<1	ug/L				U	10/16/12
Acetophenone	98-86-2		<1	ug/L				U	10/16/12
1,3,5-Trinitrobenzene	99-35-4		<1	ug/L				U	10/16/12
2-Methyl-5-nitroaniline	99-55-8		<1	ug/L				U	10/16/12
1,3-Dinitrobenzene	99-65-0		<1	ug/L				U	10/16/12
O,O,O-Triethylthiophosphate	126-68-1		<1	ug/L				U	10/16/12
Parathion	56-38-2		<1	ug/L				U	10/16/12
Dimethylaminoazobenzene	60-11-7		<1	ug/L				U	10/16/12
Dimethoate	60-51-5		<1	ug/L				U	10/16/12
Thionazin	297-97-2		<1	ug/L				U	10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Methyl parathion	298-00-0		<1	ug/L					U	10/16/12
Phorate	298-02-2		<1	ug/L					U	10/16/12
Disulfoton	298-04-4		<1	ug/L					U	10/16/12
Sulfotep	3689-24-5		<1	ug/L					U	10/16/12
Famfur	52-85-7		<5	ug/L					U	10/16/12
N-Nitrosodiphenylamin/ Diphenyl	DPA+NNDPA		<1	ug/L					U	10/16/12
Methapyrilene	91-80-5		<1	ug/L					U	10/16/12
LCS			**QC Sample #82827**							
4-Nitrophenol	100-02-7		14	ug/L	45.3	5 - 88				10/16/12
1,2,4-Trichlorobenzene	120-82-1		22	ug/L	73.4	50 - 105				10/16/12
Phenol	108-95-2		15	ug/L	48.7	18 - 89				10/16/12
1,4-Dichlorobenzene	106-46-7		15	ug/L	76.4	47 - 115				10/16/12
2,4-Dinitrotoluene	121-14-2		24	ug/L	81.3	59 - 110				10/16/12
Pyrene	129-00-0		26	ug/L	87.6	64 - 116				10/16/12
4-Chloro-3-methylphenol	59-50-7		25	ug/L	84.4	62 - 109				10/16/12
n-Nitroso-di-n-propylamine	621-64-7		24	ug/L	81.2	61 - 110				10/16/12
Acenaphthene	83-32-9		24	ug/L	78.6	59 - 113				10/16/12
Pentachlorophenol	87-86-5		22	ug/L	72.2	17 - 125				10/16/12
2-Chlorophenol	95-57-8		24	ug/L	78.4	55 - 109				10/16/12
1,4-Dioxane	123-91-1		20	ug/L	66.4	42 - 99				10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
n-Nitrosodimethylamine	62-75-9		21	ug/L	71.3	40 - 103				10/16/12
Benzyl alcohol	100-51-6		25	ug/L	82.3	58 - 108				10/16/12
2-Methylphenol	95-48-7		24	ug/L	79.4	59 - 107				10/16/12
Hexachloroethane	67-72-1		20	ug/L	66	43 - 105				10/16/12
2-Nitrophenol	88-75-5		23	ug/L	77.6	48 - 113				10/16/12
2,4-Dimethylphenol	105-67-9		25	ug/L	84.6	58 - 113				10/16/12
2,4-Dichlorophenol	120-83-2		23	ug/L	78.2	52 - 110				10/16/12
Anthracene	120-12-7		26	ug/L	85.8	67 - 113				10/16/12
Naphthalene	91-20-3		23	ug/L	75.3	55 - 110				10/16/12
2-Nitroaniline	88-74-4		26	ug/L	87.1	57 - 114				10/16/12
Dibenzofuran	132-64-9		25	ug/L	82.4	61 - 113				10/16/12
Fluorene	86-73-7		25	ug/L	83.1	64 - 115				10/16/12
Tributyl phosphate	126-73-8		26	ug/L	87	65 - 108				10/16/12
Hexachlorobenzene	118-74-1		25	ug/L	84.2	60 - 117				10/16/12
Dimethoate	60-51-5		13	ug/L	86.9	64 - 108				10/16/12
Carbazole	86-74-8		27	ug/L	91.5	35 - 129				10/16/12
Di-n-butylphthalate	84-74-2		27	ug/L	88.3	70 - 116				10/16/12
3,3-Dichlorobenzidine	91-94-1		18	ug/L	58.5	16 - 117				10/16/12
Bis-(2-Ethylhexyl)phthalate	117-81-7		28	ug/L	93	64 - 133				10/16/12
Di-n-octylphthalate	117-84-0		25	ug/L	83	57 - 134				10/16/12
Benzo(a)pyrene	50-32-8		26	ug/L	88.1	63 - 115				10/16/12
2-Picoline	109-06-8		24	ug/L	80	59 - 102				10/16/12

* - QC result out of range

n/a - Not Applicable

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1		23	ug/L	76	58 - 111				10/16/12
4-Chloroaniline	106-47-8		26	ug/L	85.7	43 - 125				10/16/12
MS			**QC Sample #82828**							
			Original 121239001							
4-Nitrophenol	100-02-7		7.7	ug/L	27.3	15 - 57				10/16/12
1,2,4-Trichlorobenzene	120-82-1		19	ug/L	66.3	51 - 104				10/16/12
Phenol	108-95-2		9.9	ug/L	34.9	24 - 65				10/16/12
1,4-Dichlorobenzene	106-46-7		13	ug/L	70	52 - 114				10/16/12
2,4-Dinitrotoluene	121-14-2		21	ug/L	73.1	57 - 112				10/16/12
Pyrene	129-00-0		23	ug/L	79.9	58 - 119				10/16/12
4-Chloro-3-methylphenol	59-50-7		21	ug/L	75.2	56 - 115				10/16/12
n-Nitroso-di-n-propylamine	621-64-7		21	ug/L	72.5	60 - 112				10/16/12
Acenaphthene	83-32-9		20	ug/L	69.9	60 - 113				10/16/12
Pentachlorophenol	87-86-5		13	ug/L	45	32 - 127				10/16/12
2-Chlorophenol	95-57-8		20	ug/L	69.3	52 - 113				10/16/12
1,4-Dioxane	123-91-1		16	ug/L	56.8	39 - 93				10/16/12
n-Nitrosodimethylamine	62-75-9		17	ug/L	61	41 - 92				10/16/12
Benzyl alcohol	100-51-6		21	ug/L	73.4	56 - 107				10/16/12
2-Methylphenol	95-48-7		19	ug/L	67.1	46 - 114				10/16/12
Hexachloroethane	67-72-1		17	ug/L	58.9	48 - 102				10/16/12
2-Nitrophenol	88-75-5		19	ug/L	67.3	51 - 114				10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
2,4-Dimethylphenol	105-67-9		21	ug/L	74.5	46 - 124				10/16/12
2,4-Dichlorophenol	120-83-2		19	ug/L	68.8	50 - 114				10/16/12
Anthracene	120-12-7		22	ug/L	77	64 - 116				10/16/12
Naphthalene	91-20-3		19	ug/L	67	57 - 110				10/16/12
2-Nitroaniline	88-74-4		22	ug/L	76.1	60 - 114				10/16/12
Dibenzofuran	132-64-9		21	ug/L	73.9	61 - 114				10/16/12
Fluorene	86-73-7		21	ug/L	73.9	63 - 116				10/16/12
Tributyl phosphate	126-73-8		23	ug/L	79.7	59 - 113				10/16/12
Hexachlorobenzene	118-74-1		22	ug/L	76.3	58 - 119				10/16/12
Dimethoate	60-51-5		11	ug/L	76.3	53 - 119				10/16/12
Carbazole	86-74-8		22	ug/L	79.3	41 - 122				10/16/12
Di-n-butylphthalate	84-74-2		23	ug/L	80.2	67 - 118				10/16/12
3,3-Dichlorobenzidine	91-94-1		18	ug/L	62.9	16 - 121				10/16/12
Bis-(2-Ethylhexyl)phthalate	117-81-7		24	ug/L	85.1	64 - 134				10/16/12
Di-n-octylphthalate	117-84-0		22	ug/L	77.6	40 - 143				10/16/12
Benzo(a)pyrene	50-32-8		22	ug/L	79.1	61 - 117				10/16/12
2-Picoline	109-06-8		20	ug/L	70.9	50 - 104				10/16/12
Bis(1-Chloro-2-propyl)ether	108-60-1		19	ug/L	67.5	58 - 112				10/16/12
4-Chloroaniline	106-47-8		25	ug/L	87	43 - 118				10/16/12
MSD			**QC Sample #82829**							
			Original 121239001					**Paired**	**82828**	
4-Nitrophenol	100-02-7		11	ug/L	40.6	15 - 57	39.00	20 *	X	10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
1,2,4-Trichlorobenzene	120-82-1		20	ug/L	69.3	51 - 104	4.50	20			10/16/12
Phenol	108-95-2		11	ug/L	38.4	24 - 65	9.50	20			10/16/12
1,4-Dichlorobenzene	106-46-7		13	ug/L	71.3	52 - 114	1.90	20			10/16/12
2,4-Dinitrotoluene	121-14-2		22	ug/L	79.4	57 - 112	8.30	20			10/16/12
Pyrene	129-00-0		22	ug/L	76.3	58 - 119	4.60	20			10/16/12
4-Chloro-3-methylphenol	59-50-7		23	ug/L	80.6	56 - 115	6.90	20			10/16/12
n-Nitroso-di-n-propylamine	621-64-7		22	ug/L	76.8	60 - 112	5.80	20			10/16/12
Acenaphthene	83-32-9		21	ug/L	74.1	60 - 113	5.80	20			10/16/12
Pentachlorophenol	87-86-5		19	ug/L	67.7	32 - 127	40.30	20	*	X	10/16/12
2-Chlorophenol	95-57-8		21	ug/L	73.4	52 - 113	5.70	20			10/16/12
1,4-Dioxane	123-91-1		18	ug/L	63.2	39 - 93	10.80	20			10/16/12
n-Nitrosodimethylamine	62-75-9		19	ug/L	68.3	41 - 92	11.20	20			10/16/12
Benzyl alcohol	100-51-6		23	ug/L	80.5	56 - 107	9.30	20			10/16/12
2-Methylphenol	95-48-7		21	ug/L	72.9	46 - 114	8.20	20			10/16/12
Hexachloroethane	67-72-1		18	ug/L	61.9	48 - 102	5.00	20			10/16/12
2-Nitrophenol	88-75-5		20	ug/L	72.3	51 - 114	7.20	20			10/16/12
2,4-Dimethylphenol	105-67-9		22	ug/L	79.4	46 - 124	6.30	20			10/16/12
2,4-Dichlorophenol	120-83-2		21	ug/L	73.1	50 - 114	6.10	20			10/16/12
Anthracene	120-12-7		23	ug/L	80	64 - 116	3.80	20			10/16/12
Naphthalene	91-20-3		20	ug/L	70.9	57 - 110	5.60	20			10/16/12
2-Nitroaniline	88-74-4		23	ug/L	82.3	60 - 114	7.80	20			10/16/12

* - QC result out of range

n/a - Not Applicable

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Dibenzofuran	132-64-9		22	ug/L	77.8	61 - 114	5.20	20		10/16/12
Fluorene	86-73-7		22	ug/L	79.3	63 - 116	7.00	20		10/16/12
Tributyl phosphate	126-73-8		23	ug/L	81.6	59 - 113	2.40	20		10/16/12
Hexachlorobenzene	118-74-1		22	ug/L	78.4	58 - 119	2.70	20		10/16/12
Dimethoate	60-51-5		12	ug/L	83.5	53 - 119	9.00	20		10/16/12
Carbazole	86-74-8		25	ug/L	87.9	41 - 122	10.30	20		10/16/12
Di-n-butylphthalate	84-74-2		24	ug/L	83.3	67 - 118	3.90	20		10/16/12
3,3-Dichlorobenzidine	91-94-1		19	ug/L	66.7	16 - 121	6.00	20		10/16/12
Bis-(2-Ethylhexyl)phthalate	117-81-7		23	ug/L	81.6	64 - 134	4.20	20		10/16/12
Di-n-octylphthalate	117-84-0		21	ug/L	75	40 - 143	3.50	20		10/16/12
Benzo(a)pyrene	50-32-8		23	ug/L	82.9	61 - 117	4.70	20		10/16/12
2-Picoline	109-06-8		23	ug/L	82	50 - 104	14.50	20		10/16/12
Bis(1-Chloro-2-propyl)ether	108-60-1		20	ug/L	70.3	58 - 112	4.00	20		10/16/12
4-Chloroaniline	106-47-8		26	ug/L	92.7	43 - 118	6.30	20		10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analytical Batch 208887 (QC Batch: 208650)
Associated Samples 121226013, 121226014

Test PCBs by EPA SW-846 Method 8082

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #82953**							
Aroclor-1016	12674-11-2		<0.1	ug/L					U	10/17/12
Aroclor-1221	11104-28-2		<0.2	ug/L					U	10/17/12
Aroclor-1232	11141-16-5		<0.1	ug/L					U	10/17/12
Aroclor-1242	53469-21-9		<0.1	ug/L					U	10/17/12
Aroclor-1248	12672-29-6		<0.1	ug/L					U	10/17/12
Aroclor-1254	11097-69-1		<0.1	ug/L					U	10/17/12
Aroclor-1260	11096-82-5		<0.1	ug/L					U	10/17/12
LCS			**QC Sample #82954**							
Aroclor-1254	11097-69-1		1.7	ug/L	87.2	70 - 130				10/17/12
MS			**QC Sample #82955**							
			Original 121223013							
Aroclor-1254	11097-69-1		1.8	ug/L	93.6	60 - 130				10/17/12
MSD			**QC Sample #82956**							
			Original 121223013					**Paired**	**82955**	
Aroclor-1254	11097-69-1		1.8	ug/L	95.1	60 - 130	1.60	20		10/17/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Analytical Batch 209139 (QC Batch: 209136) **Test** Total Organic Halides
Associated Samples 121226007, 121226008, 121226009, 121226010

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #83612**							
Total Organic Halides	59473-04-0		<5.0	ug/L					U	10/08/12
LCS			**QC Sample #83613**							
Total Organic Halides	59473-04-0		377	mg/L	94.3	80 - 120				10/08/12
MS			**QC Sample #83619**							
			Original 121223005							
Total Organic Halides	59473-04-0		41.8	ug/L	104.4	75 - 125				10/08/12
MSD			**QC Sample #83620**							
			Original 121223005					**Paired**	**83619**	
Total Organic Halides	59473-04-0		39.6	ug/L	99	75 - 125	5.30	20		10/08/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121226

Analytical Batch 209144 (QC Batch: 209143) **Test** Total Organic Halides
Associated Samples 121226011, 121226012, 121226013, 121226014

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #83634**							
Total Organic Halides	59473-04-0		<5.0	ug/L					U	10/08/12
LCS			**QC Sample #83635**							
Total Organic Halides	59473-04-0		405	mg/L	101.3	80 - 120				10/08/12
MS			**QC Sample #83639**							
			Original 121226011							
Total Organic Halides	59473-04-0	<5.0	39.6	ug/L	99.1	75 - 125				10/08/12
MSD			**QC Sample #83640**							
			Original 121226011					**Paired**	**83639**	
Total Organic Halides	59473-04-0	<5.0	37.8	ug/L	94.5	75 - 125	4.80	20		10/08/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analytical Batch 208258 (QC Batch: 208245)
Associated Samples 121226013, 121226014

Test Extractable Diesel and Petroleum

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #121226013**							
o-Terphenyl	84-15-1				97.5	70 - 130				10/05/12
SAMPLE			**Sample #121226014**							
o-Terphenyl	84-15-1				98	70 - 130				10/05/12
BLANK			**QC Sample #82350**							
o-Terphenyl	84-15-1				94.7	70 - 130				10/05/12
LCS			**QC Sample #82351**							
o-Terphenyl	84-15-1				102.3	70 - 130				10/05/12
MS			**QC Sample #82352**							
			Original 121223013							
o-Terphenyl	84-15-1				94.3	70 - 130				10/05/12
MSD			**QC Sample #82353**							
			Original 121223013					**Paired 82352**		
o-Terphenyl	84-15-1				96.6	70 - 130	n/a			10/05/12

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

REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Analytical Batch 208457 (QC Batch: 208456)
Associated Samples 121226013, 121226014

Test SW-846 8260B Volatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #121226013**							
1,2-Dichloroethane-d4	17060-07-0				104.7	75 - 125				10/16/12
Toluene-d8	2037-26-5				98.6	75 - 125				10/16/12
4-Bromofluorobenzene	460-00-4				99.5	75 - 125				10/16/12
SAMPLE			**Sample #121226014**							
1,2-Dichloroethane-d4	17060-07-0				101.8	75 - 125				10/16/12
Toluene-d8	2037-26-5				97.7	75 - 125				10/16/12
4-Bromofluorobenzene	460-00-4				98.4	75 - 125				10/16/12
BLANK			**QC Sample #82689**							
1,2-Dichloroethane-d4	17060-07-0				101.4	75 - 125				10/16/12
Toluene-d8	2037-26-5				98.7	75 - 125				10/16/12
4-Bromofluorobenzene	460-00-4				98.6	75 - 125				10/16/12
LCS			**QC Sample #82690**							
1,2-Dichloroethane-d4	17060-07-0				107.9	75 - 125				10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Toluene-d8	2037-26-5				96.4	75 - 125				10/16/12
4-Bromofluorobenzene	460-00-4				95	75 - 125				10/16/12
MS			**QC Sample #82691**							
			Original	**121223013**						
4-Bromofluorobenzene	460-00-4				95.3	75 - 125				10/16/12
1,2-Dichloroethane-d4	17060-07-0				104.4	75 - 125				10/16/12
Toluene-d8	2037-26-5				97	75 - 125				10/16/12
MSD			**QC Sample #82692**							
			Original	**121223013**				**Paired**	**82691**	
1,2-Dichloroethane-d4	17060-07-0				103.9	75 - 125	n/a			10/16/12
Toluene-d8	2037-26-5				97.5	75 - 125	n/a			10/16/12
4-Bromofluorobenzene	460-00-4				96.2	75 - 125	n/a			10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Analytical Batch 208757 (QC Batch: 208756)
Associated Samples 121226013, 121226014

Test Gasoline Range (W)

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #121226013**							
4-Bromofluorobenzene	460-00-4				95.3	50 - 150				10/16/12
SAMPLE			**Sample #121226014**							
4-Bromofluorobenzene	460-00-4				96.1	50 - 150				10/16/12
BLANK			**QC Sample #82983**							
4-Bromofluorobenzene	460-00-4				99.1	50 - 150				10/16/12
LCS			**QC Sample #82984**							
4-Bromofluorobenzene	460-00-4				97.1	50 - 150				10/16/12
MS			**QC Sample #82985**							
			Original 121223013							
4-Bromofluorobenzene	460-00-4				96.7	50 - 150				10/16/12
MSD			**QC Sample #82986**							
			Original 121223013					**Paired**	**82985**	

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
4-Bromofluorobenzene	460-00-4				98.5	50 - 150	n/a			10/16/12
DUP			**QC Sample #82987**							
			Original	**121223013**						
4-Bromofluorobenzene	460-00-4				96.9	50 - 150	n/a			10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analytical Batch 208850 (QC Batch: 208488)
Associated Samples 121226013, 121226014

Test SW-846 8270D Semivolatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #121226013**							
2-Fluorophenol	367-12-4				53.8	44 - 135				10/16/12
Phenol-d5	4165-62-2				35.1	41 - 136			X	10/16/12
Nitrobenzene-d5	4165-60-0				75.4	53 - 129				10/16/12
2-Methylnaphthalene-d10	7297-45-2				77.4	50 - 140				10/16/12
2-Fluorobiphenyl	321-60-8				76.2	36 - 141				10/16/12
2,4,6-Tribromophenol	118-79-6				69	17 - 142				10/16/12
Fluoranthene-d10	93951-69-0				88.2	50 - 140				10/16/12
Terphenyl-d14	98904-43-9				80.4	61 - 142				10/16/12
SAMPLE			**Sample #121226014**							
2-Fluorophenol	367-12-4				54.3	44 - 135				10/16/12
Phenol-d5	4165-62-2				35.5	41 - 136			X	10/16/12
Nitrobenzene-d5	4165-60-0				76.4	53 - 129				10/16/12
2-Methylnaphthalene-d10	7297-45-2				78.6	50 - 140				10/16/12
2-Fluorobiphenyl	321-60-8				79.8	36 - 141				10/16/12
2,4,6-Tribromophenol	118-79-6				67.5	17 - 142				10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Fluoranthene-d10	93951-69-0				85.2	50 - 140				10/16/12
Terphenyl-d14	98904-43-9				80	61 - 142				10/16/12
BLANK			**QC Sample #82826**							
2-Fluorophenol	367-12-4				56.1	44 - 135				10/16/12
Phenol-d5	4165-62-2				40.6	41 - 136			X	10/16/12
Nitrobenzene-d5	4165-60-0				73.6	53 - 129				10/16/12
2-Methylnaphthalene-d10	7297-45-2				74.2	50 - 140				10/16/12
2-Fluorobiphenyl	321-60-8				73.9	36 - 141				10/16/12
2,4,6-Tribromophenol	118-79-6				64.9	17 - 142				10/16/12
Fluoranthene-d10	93951-69-0				83.9	50 - 140				10/16/12
Terphenyl-d14	98904-43-9				76.9	61 - 142				10/16/12
LCS			**QC Sample #82827**							
2-Fluorophenol	367-12-4				64.3	44 - 135				10/16/12
Phenol-d5	4165-62-2				46.6	41 - 136				10/16/12
Nitrobenzene-d5	4165-60-0				81.8	53 - 129				10/16/12
2-Methylnaphthalene-d10	7297-45-2				81.7	50 - 140				10/16/12
2-Fluorobiphenyl	321-60-8				81.2	36 - 141				10/16/12
2,4,6-Tribromophenol	118-79-6				79.5	17 - 142				10/16/12
Fluoranthene-d10	93951-69-0				88.1	50 - 140				10/16/12
Terphenyl-d14	98904-43-9				90.7	61 - 142				10/16/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
MS			**QC Sample #82828**							
			Original	**121239001**						
2-Fluorophenol	367-12-4				50.8	44 - 135				10/16/12
Phenol-d5	4165-62-2				33.2	41 - 136			X	10/16/12
Nitrobenzene-d5	4165-60-0				70.9	53 - 129				10/16/12
2-Methylnaphthalene-d10	7297-45-2				72.3	50 - 140				10/16/12
2-Fluorobiphenyl	321-60-8				72.6	36 - 141				10/16/12
2,4,6-Tribromophenol	118-79-6				70.6	17 - 142				10/16/12
Fluoranthene-d10	93951-69-0				77.1	50 - 140				10/16/12
Terphenyl-d14	98904-43-9				84.6	61 - 142				10/16/12
MSD			**QC Sample #82829**							
			Original	**121239001**				**Paired**	**82828**	
2-Fluorophenol	367-12-4				54.6	44 - 135	n/a			10/16/12
Phenol-d5	4165-62-2				37.3	41 - 136	n/a		X	10/16/12
Nitrobenzene-d5	4165-60-0				75.6	53 - 129	n/a			10/16/12
2-Methylnaphthalene-d10	7297-45-2				76.7	50 - 140	n/a			10/16/12
2-Fluorobiphenyl	321-60-8				75.4	36 - 141	n/a			10/16/12
2,4,6-Tribromophenol	118-79-6				76	17 - 142	n/a			10/16/12
Fluoranthene-d10	93951-69-0				85.5	50 - 140	n/a			10/16/12
Terphenyl-d14	98904-43-9				81.1	61 - 142	n/a			10/16/12

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

REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analytical Batch 208887 (QC Batch: 208650) **Test** PCBs by EPA SW-846 Method 8082
Associated Samples 121226013, 121226014

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #121226013**							
Tetrachloro-m-xylene	877-09-8				82.4	60 - 140				10/17/12
Decachlorobiphenyl	2051-24-3				97.2	60 - 140				10/17/12
SAMPLE			**Sample #121226014**							
Tetrachloro-m-xylene	877-09-8				81.6	60 - 140				10/17/12
Decachlorobiphenyl	2051-24-3				98.6	60 - 140				10/17/12
BLANK			**QC Sample #82953**							
Tetrachloro-m-xylene	877-09-8				78.2	60 - 140				10/17/12
Decachlorobiphenyl	2051-24-3				91.9	60 - 140				10/17/12
LCS			**QC Sample #82954**							
Tetrachloro-m-xylene	877-09-8				75.5	60 - 140				10/17/12
Decachlorobiphenyl	2051-24-3				94	60 - 140				10/17/12
MS			**QC Sample #82955**							
			Original 121223013							
Tetrachloro-m-xylene	877-09-8				81.9	60 - 140				10/17/12
Decachlorobiphenyl	2051-24-3				95.8	60 - 140				10/17/12

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

REVISED121226 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121226

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
MSD			**QC Sample #82956**							
			Original	**121223013**				**Paired**	**82955**	
Tetrachloro-m-xylene	877-09-8				81.2	60 - 140	n/a			10/17/12
Decachlorobiphenyl	2051-24-3				96.8	60 - 140	n/a			10/17/12

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

REVISED121226 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121226

Peak Name		CAS #	RT	RQ	Result	Units
121226014	**B2M165**					
Unknown		UNKNOWN-01	16.159		43	ug/L

REVISED121226 -

Attention: Scot Fitzgerald **Group #** WSCF121226

121226013	**B2M135**
Department	Organic, Semivolatiles
Analyte	Phenol-d5 - SW-846 8270D Semivolatiles [1] Surrogate recovery outside of established laboratory control limits.

121226014	**B2M165**
Department	Organic, Semivolatiles
Analyte	Phenol-d5 - SW-846 8270D Semivolatiles [1] Surrogate recovery outside of established laboratory control limits.

Attention: Scot Fitzgerald

Group # WSCF121226

Quality Control Comments

Department Organic, Semivolatiles

82826 BLANK for HBN 208488 [ORGP/202

Analyte Phenol-d5 - SW-846 8270D Semivolatiles
[1] Surrogate recovery outside of established laboratory control limits.

82828 B2M0Y3(121239001MS)

Analyte Phenol-d5 - SW-846 8270D Semivolatiles
[1] Surrogate recovery outside of established laboratory control limits.

82829 B2M0Y3(121239001MSD)

Analyte 4-Nitrophenol - SW-846 8270D Semivolatiles
[1] Matrix Spike RPD outside established laboratory limits No flags assigned.

Analyte Pentachlorophenol - SW-846 8270D Semivolatiles
[1] Matrix Spike RPD outside established laboratory limits No flags assigned.

Analyte Phenol-d5 - SW-846 8270D Semivolatiles
[1] Surrogate recovery outside of established laboratory control limits.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 7 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 #: 121226
Profile #: W13-010-185
Proj. Mgr.:
Phone:

The following samples were received from you on 10/3/2012 12:10:00 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		
121226001	B2M137	WATER	10/3/2012 11:29	10/3/2012 12:10
		2008-W; 6010-W		
121226002	B2M167	WATER	10/3/2012 10:44	10/3/2012 12:10
		2008-W; 6010-W		
121226003	B2M8H6	WATER	10/3/2012 11:29	10/3/2012 12:10
		2008-W		
121226004	B2M8H7	WATER	10/3/2012 11:29	10/3/2012 12:10
		2008-W		
121226005	B2M8K2	WATER	10/3/2012 10:44	10/3/2012 12:10
		2008-W		
121226006	B2M8K1	WATER	10/3/2012 10:44	10/3/2012 12:10
		2008-W		
121226007	B2M218	WATER	10/3/2012 11:29	10/3/2012 12:10
		TOC-W; TOX-W		
121226008	B2M219	WATER	10/3/2012 11:29	10/3/2012 12:10
		TOC-W; TOX-W		
121226009	B2M220	WATER	10/3/2012 11:29	10/3/2012 12:10
		TOC-W; TOX-W		
121226010	B2M233	WATER	10/3/2012 10:44	10/3/2012 12:10
		TOC-W; TOX-W		
121226011	B2M234	WATER	10/3/2012 10:44	10/3/2012 12:10

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

		TOC-W; TOX-W		
121226012	B2M235	WATER	10/3/2012 10:44	10/3/2012 12:10
		TOC-W; TOX-W		
121226013	B2M135	WATER	10/3/2012 11:29	10/3/2012 12:10
		2008-W; 6010-W; 8260V-W; 8270SV-W; ALK-W; CN-W; COD-W; PCB-W; TOC-W; TOX-W; TPHDWA-W; TPHGWA-W		
121226014	B2M165	WATER	10/3/2012 10:44	10/3/2012 12:10
		2008-W; 6010-W; 8260V-W; 8270SV-W; ALK-W; CN-W; COD-W; PCB-W; TOC-W; TOX-W; TPHDWA-W; TPHGWA-W		

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)
COD-W	Chemical Oxygen Demand (W)
PCB-W	PCB (8082) (W)
TOC-W	Total Organic Carbon (W)
TOX-W	Total Organic Halides (W)
TPHDWA-W	TPHD-WA (W)
TPHGWA-W	TPHG-WA (Water)

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W13-010-185**

Page 1 of 2

Collector	F. M. Hall	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	W13-010	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	RCRA, OCTOBER 2012	Logbook No.	HNF-N-506 51/9	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**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

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

due to airation in well, unable to achieve zero headspace

21226

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

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	No/Type Container	Sample Analysis	Holding Time	Preservative
B2M137 1	Y	W	OCT 0 3 2012	1129	1x500-mL G/P	200.8_METALS_ICPMS: List-1 (26)	6 Months	HNO3 to pH <2
B2M137 ↓	Y	W			1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2M8H6 3	N	W			1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
B2M218 7	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M218 ↓	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M8H7 4	Y	W			1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
B2M220 9	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M220 ↓	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M135 13	N	W			1x500-mL G/P	200.8_METALS_ICPMS: List-1 (26)	6 Months	HNO3 to pH <2
B2M135	N	W			1x250-mL G/P	2320_ALKALINITY: Alkalinity (1)	14 Days	Cool~4C
B2M135	N	W			1x500-mL G/P	410.4_COD: COD (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M135	N	W			1x250-mL P	4500E_CN: Cyanide (1)	14 Days	NaOH to pH >=12
B2M135	N	W			1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2M135	N	W			4x1-L aG	8082_PCB_GC: List-1 (7)	None	Cool~4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. M. Hall			OCT 0 3 2012 1210	C. Johnson			OCT 0 3 2012 1210
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W13-010-185**

Page 2 of 2

Collector	F. M. Hall	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	W13-010	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	RCRA, OCTOBER 2012	Logbook No.	HNF-N-506 51/9	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**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

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

* due to air in water during pumping, unable to achieve zero head space

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

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	No/Type Container	Sample Analysis	Holding Time	Preservative
B2M135	N	W	OCT 0 3 2012	1129	1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
~~B2M135~~	~~N~~	~~W~~			~~1x250-mL G/P~~	~~9030_SULFIDE: Sulfide (1)~~	~~7 Days~~	~~ZnAc+NaOH to pH > 9/Cool~4C~~
B2M135	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M135	N	W			3x1-L aG	TPH-DieselKerosene Range - WTPH-D	14/40 Days	HCl to pH <2/Cool~4C
B2M135	N	W			4x40-mL aGs*	TPH-Gasoline Range - WTPH-G	14 Days	HCl to pH <2/Cool~4C
B2M135	N	W			3x40-mL aGs*	8260_VOA_GCMS_IX: COMMON; 8260_VOA_GCMS_IX: COMMON (Add-on)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M135	N	W			4x1-L aG	8270_SVOA_GCMS_IX: COMMON	7/40 Days	Cool~4C
B2M219	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M219	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
F. M. Hall			OCT 0 3 2012 1210		C Johnson		OCT 0 3 2012 1210
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W13-010-195**

Page 1 of 2

Collector	D.J. Woehle CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	W13-010	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	RCRA, OCTOBER 2012	Logbook No.	HNF-N-506 48/68	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**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS **Hold Time** Total Activity Exemption: Yes ☑ No ☐

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	No/Type Container	Sample Analysis	Holding Time	Preservative
B2M235 12	N	W		10/3/12	1044	1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M235 ↓	N	W		↓	↓	1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M8K2 5	Y	W				1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
B2M167 2	Y	W				1x500-mL G/P	200.8_METALS_ICPMS: List-1 (26)	6 Months	HNO3 to pH <2
B2M167 ↓	Y	W				1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2M233 10	N	W				1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M233 ↓	N	W				1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M165 14	N	W				1x500-mL G/P	200.8_METALS_ICPMS: List-1 (26)	6 Months	HNO3 to pH <2
B2M165	N	W				1x250-mL G/P	2320_ALKALINITY: Alkalinity (1)	14 Days	Cool~4C
B2M165	N	W				1x500-mL G/P	410.4_COD: COD (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M165	N	W				1x250-mL P	4500E_CN: Cyanide (1)	14 Days	NaOH to pH >=12
B2M165	N	W				1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2M165	N	W				4x1-L aG	8082_PCB_GC: List-1 (7)	None	Cool~4C
B2M165	N	W				1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.J. Woehle CHPRC	[illegible]	[illegible]	OCT 03 2012 1010	[illegible]			OCT 03 2012 1010
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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A-6004-842 (REV 2)

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W13-010-195**

Page 2 of 2

Collector	D.J. Woehle CHPRC	Contact/Requester	Karen Waters-Husted	Telephone No.	376-4650
SAF No.	W13-010	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	RCRA, OCTOBER 2012	Logbook No.	HNF-N-506 48/68	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**	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentations that are not regulated for transportation per 49 CRF but are not releasable per DOE Order 5400 5 (1990/1993)

SPECIAL INSTRUCTIONS Hold Time

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.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
~~B2M165~~	~~N~~	~~W~~	10/3/12	1044	~~1x250-mL G/P~~	~~9030_SULFIDE: Sulfide (1)~~	~~7 Days~~	~~ZnAc+NaOH to pH > 9/Cool~4C~~
B2M165	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M165	N	W			3x1-L aG	TPH-DieselKerosene Range - WTPH-D	14/40 Days	HCl to pH <2/Cool~4C
B2M165	N	W			4x40-mL aGs*	TPH-Gasoline Range - WTPH-G	14 Days	HCl to pH <2/Cool~4C
B2M165	N	W			3x40-mL aGs*	8260_VOA_GCMS_IX: COMMON; 8260_VOA_GCMS_IX: COMMON (Add-on)	14 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M165	N	W			4x1-L aG	8270_SVOA_GCMS_IX: COMMON	7/40 Days	Cool~4C
B2M234	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M234	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M8K1	N	W			1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
D.J. Woehle CHPRC			OCT 0 3 2012 1210				OCT 0 3 2012 1210
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix *

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

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

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