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,

REVISED121284 - 699099 [Report ID: 121284]

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 WSCF121284

* 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 # WSCF121284
Data Deliverable Date 11/12/12

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
W13-010	B2M1B1	121284001	WATER	10/10/12	10/10/12
W13-010	B2M106	121284002	WATER	10/10/12	10/10/12
W13-010	B2M118	121284003	WATER	10/10/12	10/10/12
X13-002	B2M910	121284004	WATER	10/10/12	10/10/12
W13-010	B2M204	121284005	WATER	10/10/12	10/10/12
W13-010	B2M203	121284006	WATER	10/10/12	10/10/12
W13-010	B2M8F1	121284007	WATER	10/10/12	10/10/12
W13-010	B2M8F2	121284008	WATER	10/10/12	10/10/12
W13-010	B2M107	121284009	WATER	10/10/12	10/10/12
W13-010	B2M1B2	121284010	WATER	10/10/12	10/10/12
W13-010	B2M119	121284011	WATER	10/10/12	10/10/12
W13-010	B2M105	121284012	WATER	10/10/12	10/10/12
W13-010	B2M205	121284013	WATER	10/10/12	10/10/12
W13-010	B2M251	121284014	WATER	10/10/12	10/10/12
W13-010	B2M252	121284015	WATER	10/10/12	10/10/12
W13-010	B2M253	121284016	WATER	10/10/12	10/10/12
W13-010	B2M211	121284017	WATER	10/10/12	10/10/12
W13-010	B2M209	121284018	WATER	10/10/12	10/10/12
W13-010	B2M210	121284019	WATER	10/10/12	10/10/12
W13-010	B2M8L6	121284020	WATER	10/10/12	10/10/12
W13-010	B2M8L7	121284021	WATER	10/10/12	10/10/12
W13-010	B2M8F7	121284022	WATER	10/10/12	10/10/12
W13-010	B2M1B0	121284023	WATER	10/10/12	10/10/12
W13-010	B2M117	121284024	WATER	10/10/12	10/10/12
W13-010	B2M8F8	121284025	WATER	10/10/12	10/10/12

ATTACHMENT 2

NARRATIVE

Consisting of 8 pages
Including cover page

Attachment 2
Narrative Rev2
WSCF121284

Revision 2: This case narrative replaces the prior in its entirety. 1,4-Dioxane was added per SDR13-064 to samples B2M105, B2M1B0, and B2M117.

Revision 1: This case narrative replaces the prior in its entirety. P&D correction is adding Kerosene to samples B2M105, B2M1B0, and B2M117.

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
WSCF121284

- **U** – Analyzed for but not detected above limiting criteria. Relative Percent Difference (RPD) values associated with an analyte qualified with a "U" are not applicable.

Analytical Methodology for Requested Analyses

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

Inorganic Comments

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

- All applicable QC controls are within the established limits.

Chemical Oxygen Demand – Hold time requirement for this analysis was met. A 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):

- Batch QC 208451
  - Calcium – Exceeded spiking levels by a factor of 4. Spike recoveries and associated RPDs are not valid.
- Batch QC 208651
  - Sodium was detected in the Blank and evaluated.
  - All other applicable QC controls are within the established limits.

Attachment 2
Narrative Rev2
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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 was 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.

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

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):

- The MS, MSD and samples B2M105 (121284012), B2M1B0 (121284023) and B2M117 (121284024) 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):

- Due to the co-elution of analytes for TPHD-WA (DRO) and kerosene analysis, samples are spiked and evaluated for TPHD only.
- All applicable QC controls are within the established limits.

Attachment 2
Narrative Rev2
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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):

- Bromoform – Matrix Spike Duplicate recovery did not meet established laboratory acceptance limits. Affected sample results in this batch were "T" flagged.
- Bromoform – The LCS recovery did not meet established laboratory acceptance limits. Affected sample and QC results in this batch were flagged.
- All other applicable QC controls are within the established limits.

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

Attachment 2
Narrative Rev2
WSCF121284

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

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Attachment 2
Narrative Rev2
WSCF121284

Problem and Discrepancy Report

WSCF

SDGWSCF121284

11/06/2012

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1. The data package has the following issues:

a) TPHKEROSENE for sample number B2M105, B2M1B0, and B2M117 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
WSCF121284

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

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ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 160 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 # WSCF121284
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.

Batch QC List

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
208451	208510	5	BLANK	82667	BLANK		ICP-6010 - All possible metals
208451	208510	7	LCS	82669	LCS		ICP-6010 - All possible metals
208451	208510	9	MS	82670	B2M159(121274003MS)	121274003	ICP-6010 - All possible metals
208451	208510	10	MSD	82671	B2M159(121274003MSD)	121274003	ICP-6010 - All possible metals
208451	208510	30	SAMPLE	121284009	B2M107		ICP-6010 - All possible metals
208451	208510	31	SAMPLE	121284010	B2M1B2		ICP-6010 - All possible metals
208471	208471	2	BLANK	82715	BLANK		Anions by Ion Chromatography (Water)
208471	208471	3	LCS	82716	LCS		Anions by Ion Chromatography (Water)
208471	208471	4	DUP	82717	B2M6C0(121277001DUP)	121277001	Anions by Ion Chromatography (Water)
208471	208471	5	MS	82718	B2M6C0(121277001MS)	121277001	Anions by Ion Chromatography (Water)
208471	208471	6	MSD	82719	B2M6C0(121277001MSD	121277001	Anions by Ion Chromatography (Water)
208471	208471	18	SAMPLE	121284001	B2M1B1		Anions by Ion Chromatography (Water)
208471	208471	19	SAMPLE	121284001	B2M1B1		Anions by Ion Chromatography (Water)
208471	208471	20	SAMPLE	121284002	B2M106		Anions by Ion Chromatography (Water)
208471	208471	21	SAMPLE	121284003	B2M118		Anions by Ion Chromatography (Water)
208651	208863	5	BLANK	82957	BLANK		ICP-6010 - All possible metals
208651	208863	7	LCS	82959	LCS		ICP-6010 - All possible metals
208651	208863	9	MS	82960	B2MBY9(121282001MS)	121282001	ICP-6010 - All possible metals
208651	208863	10	MSD	82961	B2MBY9(121282001MSD	121282001	ICP-6010 - All possible metals
208651	208863	11	SAMPLE	121284011	B2M119		ICP-6010 - All possible metals
208651	208863	12	SAMPLE	121284012	B2M105		ICP-6010 - All possible metals
208651	208863	13	SAMPLE	121284023	B2M1B0		ICP-6010 - All possible metals
208651	208863	14	SAMPLE	121284024	B2M117		ICP-6010 - All possible metals

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Batch QC List

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
208868	208870	3	BLANK	83102	BLANK		Chemical Oxygen Demand
208868	208870	4	LCS	83103	LCS		Chemical Oxygen Demand
208868	208870	7	MS	83104	B2M105(121284012MS)	121284012	Chemical Oxygen Demand
208868	208870	8	MSD	83105	B2M105(121284012MSD)	121284012	Chemical Oxygen Demand
208868	208870	9	SAMPLE	121284012	B2M105		Chemical Oxygen Demand
208868	208870	10	SAMPLE	121284023	B2M1B0		Chemical Oxygen Demand
208868	208870	11	SAMPLE	121284024	B2M117		Chemical Oxygen Demand
208922	209017	4	BLANK	83253	BLANK		ICP-2008 MS All possible metal
208922	209017	5	LCS	83254	LCS		ICP-2008 MS All possible metal
208922	209017	7	MS	83255	B2MBY9(121282001MS)	121282001	ICP-2008 MS All possible metal
208922	209017	8	MSD	83256	B2MBY9(121282001MSD	121282001	ICP-2008 MS All possible metal
208922	209017	11	SAMPLE	121284007	B2M8F1		ICP-2008 MS All possible metal
208922	209017	12	SAMPLE	121284008	B2M8F2		ICP-2008 MS All possible metal
208922	209017	13	SAMPLE	121284009	B2M107		ICP-2008 MS All possible metal
208922	209017	14	SAMPLE	121284010	B2M1B2		ICP-2008 MS All possible metal
208922	209017	15	SAMPLE	121284011	B2M119		ICP-2008 MS All possible metal
208922	209017	16	SAMPLE	121284012	B2M105		ICP-2008 MS All possible metal
208922	209017	17	SAMPLE	121284020	B2M8L6		ICP-2008 MS All possible metal
208922	209017	20	SAMPLE	121284021	B2M8L7		ICP-2008 MS All possible metal
208922	209017	21	SAMPLE	121284022	B2M8F7		ICP-2008 MS All possible metal
208922	209017	22	SAMPLE	121284023	B2M1B0		ICP-2008 MS All possible metal
208922	209017	23	SAMPLE	121284024	B2M117		ICP-2008 MS All possible metal
208922	209017	24	SAMPLE	121284025	B2M8F8		ICP-2008 MS All possible metal

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Batch QC List

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
209188	209189	1	BLANK	83788	BLANK		Total Organic Halides
209188	209189	2	LCS	83789	LCS		Total Organic Halides
209188	209189	4	MS	83790	B2M249(121275011MS)	121275011	Total Organic Halides
209188	209189	5	MSD	83791	B2M249(121275011MSD)	121275011	Total Organic Halides
209188	209189	10	SAMPLE	121284005	B2M204		Total Organic Halides
209188	209189	11	SAMPLE	121284006	B2M203		Total Organic Halides
209188	209189	12	SAMPLE	121284012	B2M105		Total Organic Halides
209188	209189	13	SAMPLE	121284013	B2M205		Total Organic Halides
209194	209204	1	BLANK	83816	BLANK		Total Organic Halides
209194	209204	2	LCS	83817	LCS		Total Organic Halides
209194	209204	16	MS	83827	B2M251(121284014MS)	121284014	Total Organic Halides
209194	209204	17	MSD	83828	B2M251(121284014MSD)	121284014	Total Organic Halides
209194	209204	18	SAMPLE	121284014	B2M251		Total Organic Halides
209194	209204	19	SAMPLE	121284015	B2M252		Total Organic Halides
209194	209204	20	SAMPLE	121284016	B2M253		Total Organic Halides
209194	209204	21	SAMPLE	121284017	B2M211		Total Organic Halides
209194	209204	22	SAMPLE	121284018	B2M209		Total Organic Halides
209194	209204	23	SAMPLE	121284019	B2M210		Total Organic Halides
209194	209204	24	SAMPLE	121284023	B2M1B0		Total Organic Halides
209194	209204	25	SAMPLE	121284024	B2M117		Total Organic Halides

Batch QC List

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
208467	208487	1	BLANK	82704	BLANK		Extractable Diesel and Petroleum
208467	208487	2	LCS	82705	LCS		Extractable Diesel and Petroleum
208467	208487	3	MS	82706	B2M2T9(121270001MS)	121270001	Extractable Diesel and Petroleum
208467	208487	4	MSD	82707	B2M2T9(121270001MSD)	121270001	Extractable Diesel and Petroleum
208467	208487	8	SAMPLE	121284012	B2M105		Extractable Diesel and Petroleum
208467	208487	11	SAMPLE	121284024	B2M117		Extractable Diesel and Petroleum
208467	208487	13	SAMPLE	121284023	B2M1B0		Extractable Diesel and Petroleum
208855	208917	1	BLANK	83040	BLANK		SW-846 8270D Semivolatiles
208855	208917	2	LCS	83041	LCS		SW-846 8270D Semivolatiles
208855	208917	3	MS	83042	B2M159(121274003MS)	121274003	SW-846 8270D Semivolatiles
208855	208917	4	MSD	83043	B2M159(121274003MSD)	121274003	SW-846 8270D Semivolatiles
208855	208917	10	SAMPLE	121284012	B2M105		SW-846 8270D Semivolatiles
208855	208917	13	SAMPLE	121284024	B2M117		SW-846 8270D Semivolatiles
208855	208917	15	SAMPLE	121284023	B2M1B0		SW-846 8270D Semivolatiles
209018	209113	1	BLANK	83416	BLANK		PCBs by EPA SW-846 Method 8082
209018	209113	2	LCS	83417	LCS		PCBs by EPA SW-846 Method 8082
209018	209113	3	MS	83418	B2M159(121274003MS)	121274003	PCBs by EPA SW-846 Method 8082
209018	209113	4	MSD	83419	B2M159(121274003MSD)	121274003	PCBs by EPA SW-846 Method 8082
209018	209113	6	SAMPLE	121284024	B2M117		PCBs by EPA SW-846 Method 8082
209018	209113	8	SAMPLE	121284023	B2M1B0		PCBs by EPA SW-846 Method 8082
209018	209113	12	SAMPLE	121284012	B2M105		PCBs by EPA SW-846 Method 8082

Batch QC List

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
208758	208759	1	BLANK	82988	BLANK		Gasoline Range (W)
208758	208759	2	LCS	82989	LCS		Gasoline Range (W)
208758	208759	3	MS	82990	B2M2T9(121270001MS)	121270001	Gasoline Range (W)
208758	208759	4	MSD	82991	B2M2T9(121270001MSD)	121270001	Gasoline Range (W)
208758	208759	5	DUP	82992	B2M2T9(121270001DUP)	121270001	Gasoline Range (W)
208758	208759	12	SAMPLE	121284012	B2M105		Gasoline Range (W)
208758	208759	13	SAMPLE	121284023	B2M1B0		Gasoline Range (W)
208758	208759	14	SAMPLE	121284024	B2M117		Gasoline Range (W)
208876	208877	1	BLANK	83112	BLANK		SW-846 8260B Volatiles
208876	208877	2	LCS	83113	LCS		SW-846 8260B Volatiles
208876	208877	3	MS	83114	B2M910(121284004MS)	121284004	SW-846 8260B Volatiles
208876	208877	4	MSD	83115	B2M910(121284004MSD)	121284004	SW-846 8260B Volatiles
208876	208877	6	SAMPLE	121284004	B2M910		SW-846 8260B Volatiles
208876	208877	7	SAMPLE	121284012	B2M105		SW-846 8260B Volatiles
208876	208877	8	SAMPLE	121284024	B2M117		SW-846 8260B Volatiles
208876	208877	9	SAMPLE	121284023	B2M1B0		SW-846 8260B Volatiles

Batch QC List

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
208754	208754	1	LCS	82975	LCS		Total Alkalinity as mg/L CaCO3 (Water)
208754	208754	9	DUP	82976	B2M0Y9(121239002DUP)	121239002	Total Alkalinity as mg/L CaCO3 (Water)
208754	208754	13	LCS	82977	LCS		Total Alkalinity as mg/L CaCO3 (Water)
208754	208754	21	SAMPLE	121284012	B2M105		Total Alkalinity as mg/L CaCO3 (Water)
208754	208754	22	SAMPLE	121284023	B2M1B0		Total Alkalinity as mg/L CaCO3 (Water)
208754	208754	23	SAMPLE	121284024	B2M117		Total Alkalinity as mg/L CaCO3 (Water)
208754	208754	24	LCS	82978	LCS		Total Alkalinity as mg/L CaCO3 (Water)
208765	208765	2	BLANK	83011	BLANK		Total Organic Carbon
208765	208765	3	LCS	83012	LCS		Total Organic Carbon
208765	208765	4	MS	83013	B2M248(121275009MS)	121275009	Total Organic Carbon
208765	208765	5	MSD	83014	B2M248(121275009MSD)	121275009	Total Organic Carbon
208765	208765	12	SAMPLE	121284005	B2M204		Total Organic Carbon
208765	208765	13	SAMPLE	121284006	B2M203		Total Organic Carbon
208765	208765	14	SAMPLE	121284012	B2M105		Total Organic Carbon
208765	208765	15	SAMPLE	121284013	B2M205		Total Organic Carbon
208765	208765	17	MS	83016	B2M251(121284014MS)	121284014	Total Organic Carbon
208765	208765	18	MSD	83017	B2M251(121284014MSD)	121284014	Total Organic Carbon
208765	208765	19	SAMPLE	121284014	B2M251		Total Organic Carbon
208765	208765	20	SAMPLE	121284015	B2M252		Total Organic Carbon
208765	208765	21	SAMPLE	121284016	B2M253		Total Organic Carbon
208765	208765	22	SAMPLE	121284017	B2M211		Total Organic Carbon
208765	208765	23	SAMPLE	121284018	B2M209		Total Organic Carbon
208765	208765	24	SAMPLE	121284019	B2M210		Total Organic Carbon

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Batch QC List

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
208765	208765	25	SAMPLE	121284023	B2M1B0		Total Organic Carbon
208765	208765	26	SAMPLE	121284024	B2M117		Total Organic Carbon
208883	208899	1	BLANK	83149	BLANK		Cyanide (W) by Midi/Spectrophotometer
208883	208899	4	LCS	83152	LCS		Cyanide (W) by Midi/Spectrophotometer
208883	208899	5	MS	83153	B2M147(121242007MS)	121242007	Cyanide (W) by Midi/Spectrophotometer
208883	208899	6	MSD	83154	B2M147(121242007MSD)	121242007	Cyanide (W) by Midi/Spectrophotometer
208883	208899	13	SAMPLE	121284012	B2M105		Cyanide (W) by Midi/Spectrophotometer
208883	208899	14	SAMPLE	121284023	B2M1B0		Cyanide (W) by Midi/Spectrophotometer
208883	208899	15	SAMPLE	121284024	B2M117		Cyanide (W) by Midi/Spectrophotometer

Method Reference

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

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
LA-533-410	Anion Analysis by Ion Chromatography		
	EPA-600/R-94-111	300.0	Determination of Inorganic Anions by Ion Chromatography
	HEIS	300.0_ANIONS_IC	Determination of Inorganic Anions by Ion Chromatography

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

Method Reference

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

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

Method Reference

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

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 # WSCF121284

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 # WSCF121284

Sample # 121284001
SAF# W13-010
Sample ID B2M1B1

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/10/12
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	D	0.155		ug/mL	2	0.046	0.14	10/10/12
Chloride	16887-00-6	LA-533-410	D	31.1		ug/mL	2	0.12	0.81	10/10/12
Nitrite-N	NO2-N	LA-533-410	BD	0.0396		ug/mL	2	0.038	0.20	10/10/12
Nitrate-N	NO3-N	LA-533-410	D	104		ug/mL	10	0.19	0.99	10/10/12
Sulfate	14808-79-8	LA-533-410	D	158		ug/mL	2	0.22	2.1	10/10/12

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

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

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)
o - LCS recovery outside established laboratory acceptance limits.
o - LCS recovery outside established laboratory acceptance limits.

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Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284002
SAF# W13-010
Sample ID B2M106

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/11/12
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	D	0.383		ug/mL	2	0.046	0.14	10/11/12
Chloride	16887-00-6	LA-533-410	D	12.9		ug/mL	2	0.12	0.81	10/11/12
Nitrite-N	NO2-N	LA-533-410	BD	0.0622		ug/mL	2	0.038	0.20	10/11/12
Nitrate-N	NO3-N	LA-533-410	D	11.7		ug/mL	2	0.038	0.20	10/11/12
Sulfate	14808-79-8	LA-533-410	D	62.2		ug/mL	2	0.22	2.1	10/11/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284003
SAF# W13-010
Sample ID B2M118

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/11/12
Anions by Ion Chromatography (Water)										
Fluoride	16984-48-8	LA-533-410	D	0.342		ug/mL	2	0.046	0.14	10/11/12
Chloride	16887-00-6	LA-533-410	D	11.7		ug/mL	2	0.12	0.81	10/11/12
Nitrite-N	NO2-N	LA-533-410	BD	0.0475		ug/mL	2	0.038	0.20	10/11/12
Nitrate-N	NO3-N	LA-533-410	D	12.0		ug/mL	2	0.038	0.20	10/11/12
Sulfate	14808-79-8	LA-533-410	D	62.2		ug/mL	2	0.22	2.1	10/11/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284005
SAF# W13-010
Sample ID B2M204

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/16/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284006
SAF# W13-010
Sample ID B2M203

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/16/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284007
SAF# W13-010
Sample ID B2M8F1

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep (W)										**10/23/12**
ICP-2008 MS All possible metal										
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	10/24/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284008
SAF# W13-010
Sample ID B2M8F2

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep (W)										**10/23/12**
ICP-2008 MS All possible metal										
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	10/24/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284009
SAF# W13-010
Sample ID B2M107

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										**10/15/12**
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	B	28.1		ug/L	1	19	95	10/17/12
Magnesium	7439-95-4	LA-505-411		15600		ug/L	1	4.0	20	10/17/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/17/12
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/17/12
Potassium	7440-09-7	LA-505-411		6760		ug/L	1	76	380	10/17/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/17/12
Sodium	7440-23-5	LA-505-411		24300		ug/L	1	10	50	10/17/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	10/17/12
Barium	7440-39-3	LA-505-411		70.8		ug/L	1	4.0	20	10/17/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/17/12
Chromium	7440-47-3	LA-505-411	U	<5.0		ug/L	1	5.0	25	10/17/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/17/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/17/12
Vanadium	7440-62-2	LA-505-411	B	18.0		ug/L	1	5.0	25	10/17/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	10/17/12
Calcium	7440-70-2	LA-505-411		53700		ug/L	1	49	240	10/17/12
Strontium	7440-24-6	LA-505-411		240		ug/L	1	9.0	45	10/17/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284009
SAF# W13-010
Sample ID B2M107

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

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	10/17/12
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/17/12
ICPMS Prep (W)										**10/23/12**
ICP-2008 MS All possible metal										
Aluminum	7429-90-5	LA-505-412	BD	16.3		ug/L	2	10	100	10/24/12
Manganese	7439-96-5	LA-505-412	BD	0.876		ug/L	2	0.20	2.0	10/24/12
Nickel	7440-02-0	LA-505-412	D	2.36		ug/L	2	0.20	2.0	10/24/12
Silver	7440-22-4	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	10/24/12
Barium	7440-39-3	LA-505-412	D	75.1		ug/L	2	0.40	4.0	10/24/12
Beryllium	7440-41-7	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	10/24/12
Cadmium	7440-43-9	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Chromium	7440-47-3	LA-505-412	D	3.71		ug/L	2	0.20	2.0	10/24/12
Cobalt	7440-48-4	LA-505-412	BD	0.128		ug/L	2	0.10	0.50	10/24/12
Copper	7440-50-8	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	10/24/12
Vanadium	7440-62-2	LA-505-412	DC	20.5		ug/L	2	0.40	4.0	10/24/12
Zinc	7440-66-6	LA-505-412	BD	2.44		ug/L	2	2.0	20	10/24/12
Lead	7439-92-1	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Molybdenum	7439-98-7	LA-505-412	D	6.58		ug/L	2	0.10	1.0	10/24/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284009
SAF# W13-010
Sample ID B2M107

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Strontium	7440-24-6	LA-505-412	D	263		ug/L	2	0.20	2.0	10/24/12
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Arsenic	7440-38-2	LA-505-412	D	4.14		ug/L	2	0.40	4.0	10/24/12
Selenium	7782-49-2	LA-505-412	BD	4.97		ug/L	2	2.0	20	10/24/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284010
SAF# W13-010
Sample ID B2M1B2

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										**10/15/12**
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411		134		ug/L	1	19	95	10/17/12
Magnesium	7439-95-4	LA-505-411		47200		ug/L	1	4.0	20	10/17/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/17/12
Nickel	7440-02-0	LA-505-411	B	5.40		ug/L	1	4.0	20	10/17/12
Potassium	7440-09-7	LA-505-411		12300		ug/L	1	76	380	10/17/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/17/12
Sodium	7440-23-5	LA-505-411		40200		ug/L	1	10	50	10/17/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	10/17/12
Barium	7440-39-3	LA-505-411		162		ug/L	1	4.0	20	10/17/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/17/12
Chromium	7440-47-3	LA-505-411	B	14.5		ug/L	1	5.0	25	10/17/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/17/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/17/12
Vanadium	7440-62-2	LA-505-411	B	8.90		ug/L	1	5.0	25	10/17/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	10/17/12
Calcium	7440-70-2	LA-505-411		1.61E5		ug/L	1	49	240	10/17/12
Strontium	7440-24-6	LA-505-411		822		ug/L	1	9.0	45	10/17/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284010
SAF# W13-010
Sample ID B2M1B2

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

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	10/17/12
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/17/12
ICPMS Prep (W)										**10/23/12**
ICP-2008 MS All possible metal										
Aluminum	7429-90-5	LA-505-412	BD	15.2		ug/L	2	10	100	10/24/12
Manganese	7439-96-5	LA-505-412	BD	1.73		ug/L	2	0.20	2.0	10/24/12
Nickel	7440-02-0	LA-505-412	D	4.75		ug/L	2	0.20	2.0	10/24/12
Silver	7440-22-4	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	10/24/12
Barium	7440-39-3	LA-505-412	D	189		ug/L	2	0.40	4.0	10/24/12
Beryllium	7440-41-7	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	10/24/12
Cadmium	7440-43-9	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Chromium	7440-47-3	LA-505-412	D	16.3		ug/L	2	0.20	2.0	10/24/12
Cobalt	7440-48-4	LA-505-412	D	0.732		ug/L	2	0.10	0.50	10/24/12
Copper	7440-50-8	LA-505-412	BD	0.574		ug/L	2	0.20	2.0	10/24/12
Vanadium	7440-62-2	LA-505-412	DC	15.1		ug/L	2	0.40	4.0	10/24/12
Zinc	7440-66-6	LA-505-412	BD	3.13		ug/L	2	2.0	20	10/24/12
Lead	7439-92-1	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Molybdenum	7439-98-7	LA-505-412	D	3.87		ug/L	2	0.10	1.0	10/24/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284010
SAF# W13-010
Sample ID B2M1B2

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Strontium	7440-24-6	LA-505-412	D	954		ug/L	2	0.20	2.0	10/24/12
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Arsenic	7440-38-2	LA-505-412	D	4.81		ug/L	2	0.40	4.0	10/24/12
Selenium	7782-49-2	LA-505-412	BD	9.69		ug/L	2	2.0	20	10/24/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284011
SAF# W13-010
Sample ID B2M119

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										**10/17/12**
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	B	42.1		ug/L	1	19	95	10/19/12
Magnesium	7439-95-4	LA-505-411		15000		ug/L	1	4.0	20	10/19/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Potassium	7440-09-7	LA-505-411		6580		ug/L	1	76	380	10/19/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Sodium	7440-23-5	LA-505-411		23600		ug/L	1	10	50	10/19/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	10/19/12
Barium	7440-39-3	LA-505-411		52.5		ug/L	1	4.0	20	10/19/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Chromium	7440-47-3	LA-505-411	U	<5.0		ug/L	1	5.0	25	10/19/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Vanadium	7440-62-2	LA-505-411	B	17.5		ug/L	1	5.0	25	10/19/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	10/19/12
Calcium	7440-70-2	LA-505-411		50100		ug/L	1	49	240	10/19/12
Strontium	7440-24-6	LA-505-411		244		ug/L	1	9.0	45	10/19/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284011
SAF# W13-010
Sample ID B2M119

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

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	10/19/12
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
ICPMS Prep (W)										**10/23/12**
ICP-2008 MS All possible metal										
Aluminum	7429-90-5	LA-505-412	BD	14.6		ug/L	2	10	100	10/24/12
Manganese	7439-96-5	LA-505-412	BD	0.872		ug/L	2	0.20	2.0	10/24/12
Nickel	7440-02-0	LA-505-412	D	2.98		ug/L	2	0.20	2.0	10/24/12
Silver	7440-22-4	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	10/24/12
Barium	7440-39-3	LA-505-412	D	56.4		ug/L	2	0.40	4.0	10/24/12
Beryllium	7440-41-7	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	10/24/12
Cadmium	7440-43-9	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Chromium	7440-47-3	LA-505-412	D	4.50		ug/L	2	0.20	2.0	10/24/12
Cobalt	7440-48-4	LA-505-412	BD	0.118		ug/L	2	0.10	0.50	10/24/12
Copper	7440-50-8	LA-505-412	BD	0.224		ug/L	2	0.20	2.0	10/24/12
Vanadium	7440-62-2	LA-505-412	DC	19.7		ug/L	2	0.40	4.0	10/24/12
Zinc	7440-66-6	LA-505-412	BD	2.14		ug/L	2	2.0	20	10/24/12
Lead	7439-92-1	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Molybdenum	7439-98-7	LA-505-412	D	7.70		ug/L	2	0.10	1.0	10/24/12

MDL = Minimum Detection Limit
RQ = Result Qualifier
TP Err = Total Propagated Error
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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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284011
SAF# W13-010
Sample ID B2M119

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Strontium	7440-24-6	LA-505-412	D	263		ug/L	2	0.20	2.0	10/24/12
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Arsenic	7440-38-2	LA-505-412	D	4.71		ug/L	2	0.40	4.0	10/24/12
Selenium	7782-49-2	LA-505-412	BD	4.47		ug/L	2	2.0	20	10/24/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										**10/17/12**
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	B	40.9		ug/L	1	19	95	10/19/12
Magnesium	7439-95-4	LA-505-411		15600		ug/L	1	4.0	20	10/19/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Nickel	7440-02-0	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Potassium	7440-09-7	LA-505-411		6800		ug/L	1	76	380	10/19/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Sodium	7440-23-5	LA-505-411		24800		ug/L	1	10	50	10/19/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	10/19/12
Barium	7440-39-3	LA-505-411		70.5		ug/L	1	4.0	20	10/19/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Chromium	7440-47-3	LA-505-411	B	9.50		ug/L	1	5.0	25	10/19/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Vanadium	7440-62-2	LA-505-411	B	16.1		ug/L	1	5.0	25	10/19/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	10/19/12
Calcium	7440-70-2	LA-505-411		52400		ug/L	1	49	240	10/19/12
Strontium	7440-24-6	LA-505-411		237		ug/L	1	9.0	45	10/19/12

MDL = Minimum Detection Limit
RQ = Result Qualifier
TP Err = Total Propagated Error
DF = Dilution Factor
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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.
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o - LCS recovery outside established laboratory acceptance limits.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

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	10/19/12
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
ICPMS Prep (W)										**10/23/12**
ICP-2008 MS All possible metal										
Aluminum	7429-90-5	LA-505-412	UD	<10		ug/L	2	10	100	10/24/12
Manganese	7439-96-5	LA-505-412	BD	1.21		ug/L	2	0.20	2.0	10/24/12
Nickel	7440-02-0	LA-505-412	D	3.87		ug/L	2	0.20	2.0	10/24/12
Silver	7440-22-4	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	10/24/12
Barium	7440-39-3	LA-505-412	D	74.2		ug/L	2	0.40	4.0	10/24/12
Beryllium	7440-41-7	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	10/24/12
Cadmium	7440-43-9	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Chromium	7440-47-3	LA-505-412	D	10.6		ug/L	2	0.20	2.0	10/24/12
Cobalt	7440-48-4	LA-505-412	UD	<0.10		ug/L	2	0.10	0.50	10/24/12
Copper	7440-50-8	LA-505-412	BD	0.622		ug/L	2	0.20	2.0	10/24/12
Vanadium	7440-62-2	LA-505-412	DC	20.3		ug/L	2	0.40	4.0	10/24/12
Zinc	7440-66-6	LA-505-412	UD	<2.0		ug/L	2	2.0	20	10/24/12
Lead	7439-92-1	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Molybdenum	7439-98-7	LA-505-412	D	6.54		ug/L	2	0.10	1.0	10/24/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Strontium	7440-24-6	LA-505-412	D	261		ug/L	2	0.20	2.0	10/24/12
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Tin	7440-31-5	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Arsenic	7440-38-2	LA-505-412	D	4.04		ug/L	2	0.40	4.0	10/24/12
Selenium	7782-49-2	LA-505-412	BD	4.94		ug/L	2	2.0	20	10/24/12
Preparation for COD (W)										**10/16/12**
Chemical Oxygen Demand										
Chemical Oxygen Demand	COD	LA-523-470	U	<10		mg/L	1	10	50	10/16/12
Preparation for TOX (W)										**10/16/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284013
SAF# W13-010
Sample ID B2M205

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/16/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284014
SAF# W13-010
Sample ID B2M251

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/16/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284015
SAF# W13-010
Sample ID B2M252

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/16/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	B	5.15		ug/L	1	5.0	15	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284016
SAF# W13-010
Sample ID B2M253

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/16/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284017
SAF# W13-010
Sample ID B2M211

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/16/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284018
SAF# W13-010
Sample ID B2M209

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/16/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	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 < 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 # WSCF121284

Sample # 121284019
SAF# W13-010
Sample ID B2M210

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for TOX (W)										**10/16/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	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 < 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)
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o - LCS recovery outside established laboratory acceptance limits.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284020
SAF# W13-010
Sample ID B2M8L6

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep (W)										**10/23/12**
ICP-2008 MS All possible metal										
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	10/24/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284021
SAF# W13-010
Sample ID B2M8L7

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep (W)										**10/23/12**
ICP-2008 MS All possible metal										
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	10/24/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284022
SAF# W13-010
Sample ID B2M8F7

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep (W)										**10/23/12**
ICP-2008 MS All possible metal										
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	10/24/12

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)
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REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										**10/17/12**
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411		163		ug/L	1	19	95	10/19/12
Magnesium	7439-95-4	LA-505-411		46000		ug/L	1	4.0	20	10/19/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Nickel	7440-02-0	LA-505-411	B	5.80		ug/L	1	4.0	20	10/19/12
Potassium	7440-09-7	LA-505-411		12100		ug/L	1	76	380	10/19/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Sodium	7440-23-5	LA-505-411		39900		ug/L	1	10	50	10/19/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	10/19/12
Barium	7440-39-3	LA-505-411		158		ug/L	1	4.0	20	10/19/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Chromium	7440-47-3	LA-505-411	B	19.6		ug/L	1	5.0	25	10/19/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Vanadium	7440-62-2	LA-505-411	B	9.00		ug/L	1	5.0	25	10/19/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	10/19/12
Calcium	7440-70-2	LA-505-411		1.54E5		ug/L	1	49	240	10/19/12
Strontium	7440-24-6	LA-505-411		788		ug/L	1	9.0	45	10/19/12

MDL = Minimum Detection Limit
RQ = Result Qualifier
TP Err = Total Propagated Error
DF = Dilution Factor
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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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

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	10/19/12
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
ICPMS Prep (W)										**10/23/12**
ICP-2008 MS All possible metal										
Aluminum	7429-90-5	LA-505-412	UD	<10		ug/L	2	10	100	10/24/12
Manganese	7439-96-5	LA-505-412	D	2.05		ug/L	2	0.20	2.0	10/24/12
Nickel	7440-02-0	LA-505-412	D	6.34		ug/L	2	0.20	2.0	10/24/12
Silver	7440-22-4	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	10/24/12
Barium	7440-39-3	LA-505-412	D	169		ug/L	2	0.40	4.0	10/24/12
Beryllium	7440-41-7	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	10/24/12
Cadmium	7440-43-9	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Chromium	7440-47-3	LA-505-412	D	21.7		ug/L	2	0.20	2.0	10/24/12
Cobalt	7440-48-4	LA-505-412	D	0.580		ug/L	2	0.10	0.50	10/24/12
Copper	7440-50-8	LA-505-412	BD	0.814		ug/L	2	0.20	2.0	10/24/12
Vanadium	7440-62-2	LA-505-412	DC	13.8		ug/L	2	0.40	4.0	10/24/12
Zinc	7440-66-6	LA-505-412	UD	<2.0		ug/L	2	2.0	20	10/24/12
Lead	7439-92-1	LA-505-412	BD	0.150		ug/L	2	0.10	1.0	10/24/12
Molybdenum	7439-98-7	LA-505-412	D	3.51		ug/L	2	0.10	1.0	10/24/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Strontium	7440-24-6	LA-505-412	D	857		ug/L	2	0.20	2.0	10/24/12
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Tin	7440-31-5	LA-505-412	BD	0.120		ug/L	2	0.10	1.0	10/24/12
Arsenic	7440-38-2	LA-505-412	D	4.49		ug/L	2	0.40	4.0	10/24/12
Selenium	7782-49-2	LA-505-412	BD	8.62		ug/L	2	2.0	20	10/24/12
Preparation for COD (W)										**10/16/12**
Chemical Oxygen Demand										
Chemical Oxygen Demand	COD	LA-523-470	U	<10		mg/L	1	10	50	10/16/12
Preparation for TOX (W)										**10/16/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPAES Prep (W)										**10/17/12**
ICP-6010 - All possible metals										
Iron	7439-89-6	LA-505-411	B	48.8		ug/L	1	19	95	10/19/12
Magnesium	7439-95-4	LA-505-411		15600		ug/L	1	4.0	20	10/19/12
Manganese	7439-96-5	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Nickel	7440-02-0	LA-505-411	B	5.10		ug/L	1	4.0	20	10/19/12
Potassium	7440-09-7	LA-505-411		6850		ug/L	1	76	380	10/19/12
Silver	7440-22-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Sodium	7440-23-5	LA-505-411		24900		ug/L	1	10	50	10/19/12
Antimony	7440-36-0	LA-505-411	U	<36		ug/L	1	36	180	10/19/12
Barium	7440-39-3	LA-505-411		54.9		ug/L	1	4.0	20	10/19/12
Cadmium	7440-43-9	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Chromium	7440-47-3	LA-505-411	B	9.80		ug/L	1	5.0	25	10/19/12
Cobalt	7440-48-4	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Copper	7440-50-8	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
Vanadium	7440-62-2	LA-505-411	B	18.1		ug/L	1	5.0	25	10/19/12
Zinc	7440-66-6	LA-505-411	U	<5.0		ug/L	1	5.0	25	10/19/12
Calcium	7440-70-2	LA-505-411		52200		ug/L	1	49	240	10/19/12
Strontium	7440-24-6	LA-505-411		250		ug/L	1	9.0	45	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

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	10/19/12
Beryllium	7440-41-7	LA-505-411	U	<4.0		ug/L	1	4.0	20	10/19/12
ICPMS Prep (W)										**10/23/12**
ICP-2008 MS All possible metal										
Aluminum	7429-90-5	LA-505-412	UD	<10		ug/L	2	10	100	10/24/12
Manganese	7439-96-5	LA-505-412	BD	1.19		ug/L	2	0.20	2.0	10/24/12
Nickel	7440-02-0	LA-505-412	D	5.38		ug/L	2	0.20	2.0	10/24/12
Silver	7440-22-4	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Antimony	7440-36-0	LA-505-412	UD	<0.60		ug/L	2	0.60	6.0	10/24/12
Barium	7440-39-3	LA-505-412	D	60.8		ug/L	2	0.40	4.0	10/24/12
Beryllium	7440-41-7	LA-505-412	UD	<0.20		ug/L	2	0.20	2.0	10/24/12
Cadmium	7440-43-9	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Chromium	7440-47-3	LA-505-412	D	9.69		ug/L	2	0.20	2.0	10/24/12
Cobalt	7440-48-4	LA-505-412	BD	0.142		ug/L	2	0.10	0.50	10/24/12
Copper	7440-50-8	LA-505-412	BD	0.498		ug/L	2	0.20	2.0	10/24/12
Vanadium	7440-62-2	LA-505-412	DC	21.3		ug/L	2	0.40	4.0	10/24/12
Zinc	7440-66-6	LA-505-412	UD	<2.0		ug/L	2	2.0	20	10/24/12
Lead	7439-92-1	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Molybdenum	7439-98-7	LA-505-412	D	8.43		ug/L	2	0.10	1.0	10/24/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Strontium	7440-24-6	LA-505-412	D	280		ug/L	2	0.20	2.0	10/24/12
Thallium	7440-28-0	LA-505-412	UD	<0.10		ug/L	2	0.10	1.0	10/24/12
Tin	7440-31-5	LA-505-412	BD	0.102		ug/L	2	0.10	1.0	10/24/12
Arsenic	7440-38-2	LA-505-412	D	4.90		ug/L	2	0.40	4.0	10/24/12
Selenium	7782-49-2	LA-505-412	BD	4.56		ug/L	2	2.0	20	10/24/12
Preparation for COD (W)										**10/16/12**
Chemical Oxygen Demand										
Chemical Oxygen Demand	COD	LA-523-470	U	<10		mg/L	1	10	50	10/16/12
Preparation for TOX (W)										**10/16/12**
Total Organic Halides										
Total Organic Halides	59473-04-0	LA-523-444	U	<5.0		ug/L	1	5.0	15	10/16/12

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Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Sample # 121284025
SAF# W13-010
Sample ID B2M8F8

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep (W)										**10/23/12**
ICP-2008 MS All possible metal										
Mercury	7439-97-6	LA-505-412	UD	<0.10		ug/L	2	0.10	0.40	10/24/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8082 (W) SPE										**10/17/12**
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	10/24/12
Aroclor-1221	11104-28-2	LA-523-427	U	<0.2		ug/L	1	0.2	0.4	10/24/12
Aroclor-1232	11141-16-5	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Aroclor-1242	53469-21-9	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Aroclor-1248	12672-29-6	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Aroclor-1254	11097-69-1	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Aroclor-1260	11096-82-5	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Preparation for 8270 (W) CLE										**10/15/12**
SW-846 8270D Semivolatiles										
4-Nitrophenol	100-02-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phenol	108-95-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pyrene	129-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

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	10/19/12
Acenaphthene	83-32-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pentachlorophenol	87-86-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Chlorophenol	95-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Nitroaniline	100-01-6	LA-523-456	U	<0.9		ug/L	1	0.9	2	10/19/12
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<1		ug/L	1	1	2	10/19/12
4-Chloroaniline	106-47-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Bis-(2-Chloroethyl) ether	111-44-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Di-n-octylphthalate	117-84-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Hexachlorobenzene	118-74-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Anthracene	120-12-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

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Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

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	10/19/12
Dibenzofuran	132-64-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Fluoranthene	206-44-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Acenaphthylene	208-96-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Chrysene	218-01-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(a)pyrene	50-32-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(a)anthracene	56-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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	10/19/12
Isophorone	78-59-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Diethyl phthalate	84-66-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Di-n-butylphthalate	84-74-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phenanthrene	85-01-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Butylbenzylphthalate	85-68-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Fluorene	86-73-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Carbazole	86-74-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Hexachlorobutadiene	87-68-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Nitroaniline	88-74-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Nitrophenol	88-75-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Naphthalene	91-20-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Methylnaphthalene	91-57-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Chloronaphthalene	91-58-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Methylphenol	95-48-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Nitrobenzene	98-95-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

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	10/19/12
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Hexachloroethane	67-72-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzyl alcohol	100-51-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Tributyl phosphate	126-73-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Naphthylamine	91-59-8	LA-523-456	U	<1		ug/L	1	1	2	10/19/12
Pyridine	110-86-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosopiperidine	100-75-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosomethylethylamine	10595-95-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
p-Phenylenediamine	106-50-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Picoline	109-06-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
3,3-Dimethylbenzidine	119-93-7	LA-523-456	U	<4		ug/L	1	4	6	10/19/12
Isosafrole	120-58-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phentermine	122-09-8	LA-523-456	U	<5		ug/L	1	5	9	10/19/12
1,4-Dioxane	123-91-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,4-Naphthoquinone	130-15-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

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	10/19/12
Aramite	140-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Kepone	143-50-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Hexachloropropene	1888-71-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Diallate	2303-16-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pronamide	23950-58-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Isodrin	465-73-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Chlorobenzilate	510-15-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Acetylaminofluorene	53-96-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosodiethylamine	55-18-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
3-Methylcholanthrene	56-49-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Nitroquinoline-1-oxide	56-57-5	LA-523-456	U	<0.9		ug/L	1	0.9	2	10/19/12
7,12-Dimethylbenz(a)anthracene	57-97-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,3,4,6-Tetrachlorophenol	58-90-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosomorpholine	59-89-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pentachlorobenzene	608-93-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phenacetin	62-44-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

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	10/19/12
Aniline	62-53-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosodimethylamine	62-75-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Methyl methanesulfonate	66-27-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pentachloroethane	76-01-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pentachloronitrobenzene	82-68-8	LA-523-456	U	<1		ug/L	1	1	2	10/19/12
2,6-Dichlorophenol	87-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Dinoseb(..dinitromethylphenol)	88-85-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Aminobiphenyl	92-67-1	LA-523-456	U	<1		ug/L	1	1	2	10/19/12
n-Nitrosodibutylamine	924-16-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosopyrolidine	930-55-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Safrole	94-59-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
o-Toluidine	95-53-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,2,4,5-Tetrachlorobenzene	95-94-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Acetophenone	98-86-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,3,5-Trinitrobenzene	99-35-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

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	10/19/12
1,3-Dinitrobenzene	99-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
O,O,O-Triethylthiophosphate	126-68-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Parathion	56-38-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Dimethylaminoazobenzene	60-11-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Dimethoate	60-51-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Thionazin	297-97-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Methyl parathion	298-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phorate	298-02-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Disulfoton	298-04-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Sulfotep	3689-24-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Famfur	52-85-7	LA-523-456	U	<5		ug/L	1	5	9	10/19/12
N-Nitrosodiphenylamin/Diphenyl	DPA+NNDPA	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Methapyrilene	91-80-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Total Petroleum Hydrocarbons (Water Prep										**10/11/12**
Extractable Diesel and Petroleum										
Diesel	TPHDIESEL	LA-523-493	U	<70		ug/L	1	70	100	10/11/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

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	10/11/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8082 (W) SPE										**10/17/12**
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	10/24/12
Aroclor-1221	11104-28-2	LA-523-427	U	<0.2		ug/L	1	0.2	0.4	10/24/12
Aroclor-1232	11141-16-5	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Aroclor-1242	53469-21-9	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Aroclor-1248	12672-29-6	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Aroclor-1254	11097-69-1	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Aroclor-1260	11096-82-5	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Preparation for 8270 (W) CLE										**10/15/12**
SW-846 8270D Semivolatiles										
4-Nitrophenol	100-02-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phenol	108-95-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pyrene	129-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

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	10/19/12
Acenaphthene	83-32-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pentachlorophenol	87-86-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Chlorophenol	95-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Nitroaniline	100-01-6	LA-523-456	U	<0.9		ug/L	1	0.9	2	10/19/12
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<1		ug/L	1	1	2	10/19/12
4-Chloroaniline	106-47-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Bis-(2-Chloroethyl) ether	111-44-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Di-n-octylphthalate	117-84-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Hexachlorobenzene	118-74-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Anthracene	120-12-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

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	10/19/12
Dibenzofuran	132-64-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Fluoranthene	206-44-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Acenaphthylene	208-96-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Chrysene	218-01-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(a)pyrene	50-32-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(a)anthracene	56-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

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	10/19/12
Isophorone	78-59-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Diethyl phthalate	84-66-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Di-n-butylphthalate	84-74-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phenanthrene	85-01-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Butylbenzylphthalate	85-68-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Fluorene	86-73-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Carbazole	86-74-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Hexachlorobutadiene	87-68-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Nitroaniline	88-74-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Nitrophenol	88-75-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Naphthalene	91-20-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Methylnaphthalene	91-57-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Chloronaphthalene	91-58-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Methylphenol	95-48-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Nitrobenzene	98-95-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

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	10/19/12
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Hexachloroethane	67-72-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzyl alcohol	100-51-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Tributyl phosphate	126-73-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Naphthylamine	91-59-8	LA-523-456	U	<1		ug/L	1	1	2	10/19/12
Pyridine	110-86-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosopiperidine	100-75-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosomethylethylamine	10595-95-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
p-Phenylenediamine	106-50-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Picoline	109-06-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
3,3-Dimethylbenzidine	119-93-7	LA-523-456	U	<4		ug/L	1	4	6	10/19/12
Isosafrole	120-58-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phentermine	122-09-8	LA-523-456	U	<5		ug/L	1	5	9	10/19/12
1,4-Dioxane	123-91-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,4-Naphthoquinone	130-15-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

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	10/19/12
Aramite	140-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Kepone	143-50-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Hexachloropropene	1888-71-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Diallate	2303-16-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pronamide	23950-58-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Isodrin	465-73-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Chlorobenzilate	510-15-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Acetylaminofluorene	53-96-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosodiethylamine	55-18-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
3-Methylcholanthrene	56-49-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Nitroquinoline-1-oxide	56-57-5	LA-523-456	U	<0.9		ug/L	1	0.9	2	10/19/12
7,12-Dimethylbenz(a)anthracene	57-97-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,3,4,6-Tetrachlorophenol	58-90-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosomorpholine	59-89-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pentachlorobenzene	608-93-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phenacetin	62-44-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

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	10/19/12
Aniline	62-53-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosodimethylamine	62-75-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Methyl methanesulfonate	66-27-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pentachloroethane	76-01-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pentachloronitrobenzene	82-68-8	LA-523-456	U	<1		ug/L	1	1	2	10/19/12
2,6-Dichlorophenol	87-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Dinoseb(..dinitromethylphenol)	88-85-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Aminobiphenyl	92-67-1	LA-523-456	U	<1		ug/L	1	1	2	10/19/12
n-Nitrosodibutylamine	924-16-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosopyrolidine	930-55-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Safrole	94-59-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
o-Toluidine	95-53-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,2,4,5-Tetrachlorobenzene	95-94-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Acetophenone	98-86-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,3,5-Trinitrobenzene	99-35-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

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	10/19/12
1,3-Dinitrobenzene	99-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
O,O,O-Triethylthiophosphate	126-68-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Parathion	56-38-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Dimethylaminoazobenzene	60-11-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Dimethoate	60-51-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Thionazin	297-97-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Methyl parathion	298-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phorate	298-02-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Disulfoton	298-04-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Sulfotep	3689-24-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Famfur	52-85-7	LA-523-456	U	<5		ug/L	1	5	9	10/19/12
N-Nitrosodiphenylamin/Diphenyl	DPA+NNDPA	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Methapyrilene	91-80-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Total Petroleum Hydrocarbons (Water Prep										**10/11/12**
Extractable Diesel and Petroleum										
Diesel	TPHDIESEL	LA-523-493	U	<70		ug/L	1	70	100	10/11/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

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	10/11/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8082 (W) SPE										**10/17/12**
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	10/24/12
Aroclor-1221	11104-28-2	LA-523-427	U	<0.2		ug/L	1	0.2	0.4	10/24/12
Aroclor-1232	11141-16-5	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Aroclor-1242	53469-21-9	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Aroclor-1248	12672-29-6	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Aroclor-1254	11097-69-1	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Aroclor-1260	11096-82-5	LA-523-427	U	<0.09		ug/L	1	0.09	0.2	10/24/12
Preparation for 8270 (W) CLE										**10/15/12**
SW-846 8270D Semivolatiles										
4-Nitrophenol	100-02-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phenol	108-95-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,2,4-Trichlorobenzene	120-82-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4-Dinitrotoluene	121-14-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,4-Dichlorobenzene	106-46-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pyrene	129-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Chloro-3-methylphenol	59-50-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

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	10/19/12
Acenaphthene	83-32-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pentachlorophenol	87-86-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Chlorophenol	95-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Nitroaniline	100-01-6	LA-523-456	U	<0.9		ug/L	1	0.9	2	10/19/12
4-Bromophenyl-phenylether	101-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4-Dimethylphenol	105-67-9	LA-523-456	U	<1		ug/L	1	1	2	10/19/12
4-Chloroaniline	106-47-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Bis(1-Chloro-2-propyl)ether	108-60-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Bis-(2-Chloroethyl) ether	111-44-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Bis-(2-Chloroethoxy)methane	111-91-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Bis-(2-Ethylhexyl)phthalate	117-81-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Di-n-octylphthalate	117-84-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Hexachlorobenzene	118-74-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Anthracene	120-12-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4-Dichlorophenol	120-83-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

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	10/19/12
Dibenzofuran	132-64-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(g,h,i)perylene	191-24-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Indeno(1,2,3-cd)pyrene	193-39-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(b)fluoranthene	205-99-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Fluoranthene	206-44-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(k)fluoranthene	207-08-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Acenaphthylene	208-96-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Chrysene	218-01-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(a)pyrene	50-32-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4-Dinitrophenol	51-28-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Dibenzo(a,h)anthracene	53-70-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4,6-Dinitro-2-methylphenol	534-52-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,3-Dichlorobenzene	541-73-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzo(a)anthracene	56-55-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,6-Dinitrotoluene	606-20-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Chlorophenyl-phenylether	7005-72-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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PQL is equivalent to Estimated Quantitation Limit (EQL)
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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

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	10/19/12
Isophorone	78-59-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Diethyl phthalate	84-66-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Di-n-butylphthalate	84-74-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phenanthrene	85-01-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Butylbenzylphthalate	85-68-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Fluorene	86-73-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Carbazole	86-74-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Hexachlorobutadiene	87-68-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Nitroaniline	88-74-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Nitrophenol	88-75-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Naphthalene	91-20-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Methylnaphthalene	91-57-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Chloronaphthalene	91-58-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
3,3-Dichlorobenzidine	91-94-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Methylphenol	95-48-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,2-Dichlorobenzene	95-50-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4,5-Trichlorophenol	95-95-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Nitrobenzene	98-95-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

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	10/19/12
3 & 4 Methylphenol, Total	65794-96-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Hexachloroethane	67-72-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,4,6-Trichlorophenol	88-06-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Benzyl alcohol	100-51-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Tributyl phosphate	126-73-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Naphthylamine	91-59-8	LA-523-456	U	<1		ug/L	1	1	2	10/19/12
Pyridine	110-86-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosopiperidine	100-75-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosomethylethylamine	10595-95-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
p-Phenylenediamine	106-50-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Picoline	109-06-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
3,3-Dimethylbenzidine	119-93-7	LA-523-456	U	<4		ug/L	1	4	6	10/19/12
Isosafrole	120-58-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phentermine	122-09-8	LA-523-456	U	<5		ug/L	1	5	9	10/19/12
1,4-Dioxane	123-91-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,4-Naphthoquinone	130-15-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

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	10/19/12
Aramite	140-57-8	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Kepone	143-50-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Hexachloropropene	1888-71-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Diallate	2303-16-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pronamide	23950-58-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Isodrin	465-73-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Chlorobenzilate	510-15-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2-Acetylaminofluorene	53-96-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosodiethylamine	55-18-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
3-Methylcholanthrene	56-49-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Nitroquinoline-1-oxide	56-57-5	LA-523-456	U	<0.9		ug/L	1	0.9	2	10/19/12
7,12-Dimethylbenz(a)anthracene	57-97-6	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
2,3,4,6-Tetrachlorophenol	58-90-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosomorpholine	59-89-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pentachlorobenzene	608-93-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phenacetin	62-44-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

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	10/19/12
Aniline	62-53-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosodimethylamine	62-75-9	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Methyl methanesulfonate	66-27-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pentachloroethane	76-01-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Pentachloronitrobenzene	82-68-8	LA-523-456	U	<1		ug/L	1	1	2	10/19/12
2,6-Dichlorophenol	87-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Dinoseb(..dinitromethylphenol)	88-85-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
4-Aminobiphenyl	92-67-1	LA-523-456	U	<1		ug/L	1	1	2	10/19/12
n-Nitrosodibutylamine	924-16-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
n-Nitrosopyrolidine	930-55-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Safrole	94-59-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
o-Toluidine	95-53-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,2,4,5-Tetrachlorobenzene	95-94-3	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Acetophenone	98-86-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
1,3,5-Trinitrobenzene	99-35-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

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	10/19/12
1,3-Dinitrobenzene	99-65-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
O,O,O-Triethylthiophosphate	126-68-1	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Parathion	56-38-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Dimethylaminoazobenzene	60-11-7	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Dimethoate	60-51-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Thionazin	297-97-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Methyl parathion	298-00-0	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Phorate	298-02-2	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Disulfoton	298-04-4	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Sulfotep	3689-24-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Famfur	52-85-7	LA-523-456	U	<5		ug/L	1	5	9	10/19/12
N-Nitrosodiphenylamin/Diphenyl	DPA+NNDPA	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Methapyrilene	91-80-5	LA-523-456	U	<0.9		ug/L	1	0.9	1	10/19/12
Total Petroleum Hydrocarbons (Water Prep										**10/11/12**
Extractable Diesel and Petroleum										
Diesel	TPHDIESEL	LA-523-493	U	<70		ug/L	1	70	100	10/11/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

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	10/11/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Sample # 121284004
SAF# X13-002
Sample ID B2M910

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for 8260B (W)										**10/18/12**
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Tetrachloroethene	127-18-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methylene chloride	75-09-2	LA-523-455		7.0		ug/L	1	1	5	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Sample # 121284004
SAF# X13-002
Sample ID B2M910

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1-Butanol	71-36-3	LA-523-455	U	<100		ug/L	1	100	500	10/19/12
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	10/19/12
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	10/19/12
1,4-Dichlorobenzene	106-46-7	LA-523-455	U	<1		ug/L	1	1	5	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

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)										**10/18/12**
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Styrene	100-42-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Dibromochloromethane	124-48-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

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	10/19/12
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Total 1,2-Dichloroethene	540-59-0	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
2-Hexanone	591-78-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Bromomethane	74-83-9	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chloromethane	74-87-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chloroethane	75-00-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Bromoform	75-25-2	LA-523-455	UoT	<1		ug/L	1	1	5	10/19/12
Bromodichloromethane	75-27-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2-Dichloropropane	78-87-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12

MDL = Minimum Detection Limit
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B - Analyte was detected in both the BLANK and SAMPLE
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X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)
o - LCS recovery outside established laboratory acceptance limits.

REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

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	10/19/12
1-Butanol	71-36-3	LA-523-455	U	<100		ug/L	1	100	500	10/19/12
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	10/19/12
Trichlorofluoromethane	75-69-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Acetonitrile	75-05-8	LA-523-455	U	<2		ug/L	1	2	10	10/19/12
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	10/19/12
Isobutyl alcohol	78-83-1	LA-523-455	U	<200		ug/L	1	200	1.E3	10/19/12
Iodomethane	74-88-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1,1,2-Tetrachloroethane	630-20-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2,3-Trichloropropane	96-18-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2-Dibromo-3-chloropropane	96-12-8	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2-Dibromoethane	106-93-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Acrolein	107-02-8	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Acrylonitrile	107-13-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Allyl chloride	107-05-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12

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J - Analyte < PQL (or EQL) >= MDL.
N - Presumed evidence based on MS library search(GC/MS only)

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X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)
o - LCS recovery outside established laboratory acceptance limits.

REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

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	10/19/12
Dichlorodifluoromethane	75-71-8	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Ethyl methacrylate	97-63-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methacrylonitrile	126-98-7	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methyl methacrylate	80-62-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Trans-1,4-dichloro-2-butene	110-57-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Vinyl acetate	108-05-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chloroprene	126-99-8	LA-523-455	U	<1		ug/L	1	1	5	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

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)										**10/18/12**
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Styrene	100-42-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Dibromochloromethane	124-48-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

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	10/19/12
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Total 1,2-Dichloroethene	540-59-0	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
2-Hexanone	591-78-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Bromomethane	74-83-9	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chloromethane	74-87-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chloroethane	75-00-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Bromoform	75-25-2	LA-523-455	UoT	<1		ug/L	1	1	5	10/19/12
Bromodichloromethane	75-27-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2-Dichloropropane	78-87-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

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	10/19/12
1-Butanol	71-36-3	LA-523-455	U	<100		ug/L	1	100	500	10/19/12
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	10/19/12
Trichlorofluoromethane	75-69-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Acetonitrile	75-05-8	LA-523-455	U	<2		ug/L	1	2	10	10/19/12
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	10/19/12
Isobutyl alcohol	78-83-1	LA-523-455	U	<200		ug/L	1	200	1.E3	10/19/12
Iodomethane	74-88-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1,1,2-Tetrachloroethane	630-20-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2,3-Trichloropropane	96-18-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2-Dibromo-3-chloropropane	96-12-8	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2-Dibromoethane	106-93-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Acrolein	107-02-8	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Acrylonitrile	107-13-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Allyl chloride	107-05-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

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	10/19/12
Dichlorodifluoromethane	75-71-8	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Ethyl methacrylate	97-63-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methacrylonitrile	126-98-7	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methyl methacrylate	80-62-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Trans-1,4-dichloro-2-butene	110-57-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Vinyl acetate	108-05-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chloroprene	126-99-8	LA-523-455	U	<1		ug/L	1	1	5	10/19/12

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REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

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)										**10/18/12**
SW-846 8260B Volatiles										
1,1-Dichloroethene	75-35-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Trichloroethene	79-01-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Benzene	71-43-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Toluene	108-88-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chlorobenzene	108-90-7	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1-Dichloroethane	75-34-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Ethylbenzene	100-41-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Styrene	100-42-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
cis-1,3-Dichloropropene	10061-01-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
trans-1,3-Dichloropropene	10061-02-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2-Dichloroethane	107-06-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methyl isobutyl ketone	108-10-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Dibromochloromethane	124-48-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

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	10/19/12
Total Xylenes	1330-20-7	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Total 1,2-Dichloroethene	540-59-0	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Carbon tetrachloride	56-23-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
2-Hexanone	591-78-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Acetone	67-64-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chloroform	67-66-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1,1-Trichloroethane	71-55-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Bromomethane	74-83-9	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chloromethane	74-87-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chloroethane	75-00-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Vinyl chloride	75-01-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methylene chloride	75-09-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Carbon disulfide	75-15-0	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Bromoform	75-25-2	LA-523-455	UoT	<1		ug/L	1	1	5	10/19/12
Bromodichloromethane	75-27-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2-Dichloropropane	78-87-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methyl ethyl ketone	78-93-3	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1,2-Trichloroethane	79-00-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

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	10/19/12
1-Butanol	71-36-3	LA-523-455	U	<100		ug/L	1	100	500	10/19/12
Tetrahydrofuran	109-99-9	LA-523-455	U	<2		ug/L	1	2	10	10/19/12
Trichlorofluoromethane	75-69-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
trans-1,2-Dichloroethene	156-60-5	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Acetonitrile	75-05-8	LA-523-455	U	<2		ug/L	1	2	10	10/19/12
cis-1,2-Dichloroethene	156-59-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Propionitrile	107-12-0	LA-523-455	U	<2		ug/L	1	2	10	10/19/12
Isobutyl alcohol	78-83-1	LA-523-455	U	<200		ug/L	1	200	1.E3	10/19/12
Iodomethane	74-88-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,1,1,2-Tetrachloroethane	630-20-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2,3-Trichloropropane	96-18-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2-Dibromo-3-chloropropane	96-12-8	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
1,2-Dibromoethane	106-93-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Acrolein	107-02-8	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Acrylonitrile	107-13-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Allyl chloride	107-05-1	LA-523-455	U	<1		ug/L	1	1	5	10/19/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

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	10/19/12
Dichlorodifluoromethane	75-71-8	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Ethyl methacrylate	97-63-2	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methacrylonitrile	126-98-7	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Methyl methacrylate	80-62-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Trans-1,4-dichloro-2-butene	110-57-6	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Vinyl acetate	108-05-4	LA-523-455	U	<1		ug/L	1	1	5	10/19/12
Chloroprene	126-99-8	LA-523-455	U	<1		ug/L	1	1	5	10/19/12

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.

REVISED121284 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Sample # 121284005
SAF# W13-010
Sample ID B2M204

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/16/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406	B	0.107		mg/L	1	0.10	0.30	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Sample # 121284006
SAF# W13-010
Sample ID B2M203

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/16/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406	B	0.125		mg/L	1	0.10	0.30	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Sample # 121284012
SAF# W13-010
Sample ID B2M105

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for Cyanide (W)										**10/17/12**
Cyanide (W) by Midi/Spectrophotometer										
Cyanide	57-12-5	LA-695-402	B	4.12		ug/L	1	4.0	20	10/17/12
										10/15/12
Total Alkalinity as mg/L CaCO3 (Water)										
Total Alkalinity as CaCO3	ALKALINITY	LA-531-411		110		mg/L	1	1	10	10/15/12
										10/16/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406	B	0.119		mg/L	1	0.10	0.30	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Sample # 121284013
SAF# W13-010
Sample ID B2M205

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/16/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406	B	0.125		mg/L	1	0.10	0.30	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Sample # 121284014
SAF# W13-010
Sample ID B2M251

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/16/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406		0.367		mg/L	1	0.10	0.30	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Sample # 121284015
SAF# W13-010
Sample ID B2M252

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/16/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406		0.366		mg/L	1	0.10	0.30	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Sample # 121284016
SAF# W13-010
Sample ID B2M253

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/16/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406		0.379		mg/L	1	0.10	0.30	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Sample # 121284017
SAF# W13-010
Sample ID B2M211

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/16/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406	B	0.121		mg/L	1	0.10	0.30	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Sample # 121284018
SAF# W13-010
Sample ID B2M209

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/16/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406	B	0.116		mg/L	1	0.10	0.30	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Sample # 121284019
SAF# W13-010
Sample ID B2M210

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
										10/16/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406	B	0.127		mg/L	1	0.10	0.30	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Sample # 121284023
SAF# W13-010
Sample ID B2M1B0

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for Cyanide (W)										**10/17/12**
Cyanide (W) by Midi/Spectrophotometer										
Cyanide	57-12-5	LA-695-402		205		ug/L	1	4.0	20	10/17/12
										10/15/12
Total Alkalinity as mg/L CaCO3 (Water)										
Total Alkalinity as CaCO3	ALKALINITY	LA-531-411		98		mg/L	1	1	10	10/15/12
										10/16/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406		0.372		mg/L	1	0.10	0.30	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 < 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.

REVISED121284 -

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Sample # 121284024
SAF# W13-010
Sample ID B2M117

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

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Preparation for Cyanide (W)										**10/17/12**
Cyanide (W) by Midi/Spectrophotometer										
Cyanide	57-12-5	LA-695-402	U	<4.0		ug/L	1	4.0	20	10/17/12
										10/15/12
Total Alkalinity as mg/L CaCO3 (Water)										
Total Alkalinity as CaCO3	ALKALINITY	LA-531-411		110		mg/L	1	1	10	10/15/12
										10/16/12
Total Organic Carbon										
Total Organic Carbon	TOC	LA-344-406	B	0.123		mg/L	1	0.10	0.30	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 < 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.

REVISED121284 -

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Analytical Batch 208471 (QC Batch: 208471) **Test** Anions by Ion Chromatography (Water)
Associated Samples 121284001, 121284002, 121284003

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #82715**								
Fluoride	16984-48-8		<0.023	ug/mL						U	10/10/12
Chloride	16887-00-6		<0.058	ug/mL						U	10/10/12
Nitrite-N	NO2-N		<0.019	ug/mL						U	10/10/12
Nitrate-N	NO3-N		<0.019	ug/mL						U	10/10/12
Sulfate	14808-79-8		<0.11	ug/mL						U	10/10/12
LCS			**QC Sample #82716**								
Fluoride	16984-48-8		0.952	ug/mL	96.1	90 - 110					10/10/12
Chloride	16887-00-6		1.84	ug/mL	92.9	90 - 110					10/10/12
Nitrite-N	NO2-N		1.00	ug/mL	102.2	90 - 110					10/10/12
Nitrate-N	NO3-N		0.875	ug/mL	98.9	90 - 110					10/10/12
Sulfate	14808-79-8		3.94	ug/mL	100.5	90 - 110					10/10/12
DUP			**QC Sample #82717**								
			Original 121277001								
Fluoride	16984-48-8		<0.046	ug/mL			0.00	20		UD	10/10/12
Chloride	16887-00-6		1.60	ug/mL			1.60	20		D	10/10/12
Nitrite-N	NO2-N		<0.038	ug/mL			20.10	20	*	UXD	10/10/12
Nitrate-N	NO3-N		0.128	ug/mL			8.70	20		BD	10/10/12

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

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Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Sulfate	14808-79-8		21.4	ug/mL			0.60	20	D	10/10/12
MS			**QC Sample #82718**							
			Original 121277001							
Fluoride	16984-48-8		0.961	ug/mL	96.1	80 - 120			D	10/10/12
Chloride	16887-00-6		1.88	ug/mL	93.8	80 - 120			D	10/10/12
Nitrite-N	NO2-N		1.01	ug/mL	102.4	80 - 120			D	10/10/12
Nitrate-N	NO3-N		0.865	ug/mL	96.7	80 - 120			D	10/10/12
Sulfate	14808-79-8		3.90	ug/mL	98.4	80 - 120			D	10/10/12
MSD			**QC Sample #82719**							
			Original 121277001					**Paired 82718**		
Fluoride	16984-48-8		0.960	ug/mL	96	80 - 120	0.10	20	D	10/10/12
Chloride	16887-00-6		1.84	ug/mL	91.8	80 - 120	1.20	20	D	10/10/12
Nitrite-N	NO2-N		0.993	ug/mL	100.5	80 - 120	1.80	20	D	10/10/12
Nitrate-N	NO3-N		0.886	ug/mL	99.1	80 - 120	2.10	20	D	10/10/12
Sulfate	14808-79-8		4.03	ug/mL	101.8	80 - 120	0.50	20	D	10/10/12

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

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Analytical Batch 208487 (QC Batch: 208467) **Test** Extractable Diesel and Petroleum
Associated Samples 121284012, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #82704**							
Diesel	TPHDIESEL		<80	ug/L					U	10/11/12
Kerosene	TPHKEROSE		<80	ug/L					U	10/11/12
LCS			**QC Sample #82705**							
Diesel	TPHDIESEL		2500	ug/L	101	65 - 128				10/11/12
MS			**QC Sample #82706**							
			Original 121270001							
Diesel	TPHDIESEL		2500	ug/L	105.6	73 - 123				10/11/12
MSD			**QC Sample #82707**							
			Original 121270001					**Paired 82706**		
Diesel	TPHDIESEL		2600	ug/L	112.1	73 - 123	5.90	20		10/11/12

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

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Analytical Batch 208510 (QC Batch: 208451) **Test** ICP-6010 - All possible metals
Associated Samples 121284009, 121284010

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #82667**						
Iron	7439-89-6		<19	ug/L				U	10/17/12
Magnesium	7439-95-4		<4.0	ug/L				U	10/17/12
Manganese	7439-96-5		<4.0	ug/L				U	10/17/12
Nickel	7440-02-0		<4.0	ug/L				U	10/17/12
Potassium	7440-09-7		<76	ug/L				U	10/17/12
Silver	7440-22-4		<4.0	ug/L				U	10/17/12
Sodium	7440-23-5		<10	ug/L				U	10/17/12
Antimony	7440-36-0		<36	ug/L				U	10/17/12
Barium	7440-39-3		<4.0	ug/L				U	10/17/12
Cadmium	7440-43-9		<4.0	ug/L				U	10/17/12
Chromium	7440-47-3		<5.0	ug/L				U	10/17/12
Cobalt	7440-48-4		<4.0	ug/L				U	10/17/12
Copper	7440-50-8		<4.0	ug/L				U	10/17/12
Vanadium	7440-62-2		<5.0	ug/L				U	10/17/12
Zinc	7440-66-6		<5.0	ug/L				U	10/17/12
Calcium	7440-70-2		<49	ug/L				U	10/17/12
Strontium	7440-24-6		<9.0	ug/L				U	10/17/12

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

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Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Titanium	7440-32-6		<4.0	ug/L					U	10/17/12
Beryllium	7440-41-7		<4.0	ug/L					U	10/17/12
LCS			**QC Sample #82669**							
Iron	7439-89-6		1020	ug/L	102.4	80 - 120				10/17/12
Magnesium	7439-95-4		10400	ug/L	103.7	80 - 120				10/17/12
Manganese	7439-96-5		1050	ug/L	104.6	80 - 120				10/17/12
Nickel	7440-02-0		1030	ug/L	102.8	80 - 120				10/17/12
Potassium	7440-09-7		10800	ug/L	107.9	80 - 120				10/17/12
Silver	7440-22-4		1000	ug/L	100.1	80 - 120				10/17/12
Sodium	7440-23-5		10400	ug/L	104	80 - 120				10/17/12
Antimony	7440-36-0		1070	ug/L	107	80 - 120				10/17/12
Barium	7440-39-3		1040	ug/L	104.4	80 - 120				10/17/12
Cadmium	7440-43-9		1030	ug/L	103.2	80 - 120				10/17/12
Chromium	7440-47-3		1040	ug/L	103.6	80 - 120				10/17/12
Cobalt	7440-48-4		1010	ug/L	101.3	80 - 120				10/17/12
Copper	7440-50-8		1030	ug/L	103	80 - 120				10/17/12
Vanadium	7440-62-2		1020	ug/L	102.4	80 - 120				10/17/12
Zinc	7440-66-6		1050	ug/L	105.1	80 - 120				10/17/12
Calcium	7440-70-2		21000	ug/L	105.1	80 - 120				10/17/12
Strontium	7440-24-6		1010	ug/L	101	80 - 120				10/17/12
Titanium	7440-32-6		1060	ug/L	105.8	80 - 120				10/17/12
Beryllium	7440-41-7		1030	ug/L	103.1	80 - 120				10/17/12

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

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Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
MS			**QC Sample #82670**							
			Original 121274003							
Iron	7439-89-6		1000	ug/L	100.2	75 - 125				10/17/12
Magnesium	7439-95-4		9950	ug/L	99.5	75 - 125				10/17/12
Manganese	7439-96-5		1020	ug/L	102.1	75 - 125				10/17/12
Nickel	7440-02-0		982	ug/L	98.2	75 - 125				10/17/12
Potassium	7440-09-7		10600	ug/L	106.3	75 - 125				10/17/12
Silver	7440-22-4		985	ug/L	98.5	75 - 125				10/17/12
Sodium	7440-23-5		9770	ug/L	97.7	75 - 125				10/17/12
Antimony	7440-36-0		1050	ug/L	105.2	75 - 125				10/17/12
Barium	7440-39-3		1020	ug/L	102.2	75 - 125				10/17/12
Cadmium	7440-43-9		1020	ug/L	102	75 - 125				10/17/12
Chromium	7440-47-3		1010	ug/L	100.8	75 - 125				10/17/12
Cobalt	7440-48-4		968	ug/L	96.8	75 - 125				10/17/12
Copper	7440-50-8		1010	ug/L	101.2	75 - 125				10/17/12
Vanadium	7440-62-2		1010	ug/L	100.8	75 - 125				10/17/12
Zinc	7440-66-6		1030	ug/L	103.3	75 - 125				10/17/12
Calcium	7440-70-2		20400	ug/L	101.9	75 - 125			X	10/17/12
Strontium	7440-24-6		990	ug/L	99	75 - 125				10/17/12
Titanium	7440-32-6		1020	ug/L	101.7	75 - 125				10/17/12
Beryllium	7440-41-7		1020	ug/L	102.5	75 - 125				10/17/12
MSD			**QC Sample #82671**							
			Original 121274003					**Paired 82670**		
Iron	7439-89-6		972	ug/L	97.2	75 - 125	2.80	20		10/17/12

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

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Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Magnesium	7439-95-4		8450	ug/L	84.5	75 - 125	4.20	20		10/17/12
Manganese	7439-96-5		988	ug/L	98.8	75 - 125	3.30	20		10/17/12
Nickel	7440-02-0		945	ug/L	94.5	75 - 125	3.80	20		10/17/12
Potassium	7440-09-7		9870	ug/L	98.7	75 - 125	3.80	20		10/17/12
Silver	7440-22-4		961	ug/L	96.1	75 - 125	2.50	20		10/17/12
Sodium	7440-23-5		7900	ug/L	79	75 - 125	4.20	20		10/17/12
Antimony	7440-36-0		1020	ug/L	102.3	75 - 125	2.80	20		10/17/12
Barium	7440-39-3		985	ug/L	98.5	75 - 125	3.50	20		10/17/12
Cadmium	7440-43-9		986	ug/L	98.6	75 - 125	3.40	20		10/17/12
Chromium	7440-47-3		975	ug/L	97.5	75 - 125	3.20	20		10/17/12
Cobalt	7440-48-4		935	ug/L	93.5	75 - 125	3.50	20		10/17/12
Copper	7440-50-8		972	ug/L	97.2	75 - 125	4.00	20		10/17/12
Vanadium	7440-62-2		972	ug/L	97.2	75 - 125	3.60	20		10/17/12
Zinc	7440-66-6		999	ug/L	99.9	75 - 125	3.30	20		10/17/12
Calcium	7440-70-2		16300	ug/L	81.4	75 - 125	3.90	20	X	10/17/12
Strontium	7440-24-6		943	ug/L	94.3	75 - 125	3.40	20		10/17/12
Titanium	7440-32-6		979	ug/L	97.9	75 - 125	3.80	20		10/17/12
Beryllium	7440-41-7		987	ug/L	98.7	75 - 125	3.80	20		10/17/12

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

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Quality Control Report

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Analytical Batch 208754 (QC Batch: 208754) **Test** Total Alkalinity as mg/L CaCO3 (Water)
Associated Samples 121284012, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS			**QC Sample #82975**							
Total Alkalinity as CaCO3	ALKALINITY		97	mg/L	97	80 - 120				10/15/12
DUP			**QC Sample #82976**							
			Original 121239002							
Total Alkalinity as CaCO3	ALKALINITY		120	mg/L			0.00	20		10/15/12
LCS			**QC Sample #82977**							
Total Alkalinity as CaCO3	ALKALINITY		97	mg/L	97.5	80 - 120				10/15/12
LCS			**QC Sample #82978**							
Total Alkalinity as CaCO3	ALKALINITY		97	mg/L	97.2	80 - 120				10/15/12

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

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Analytical Batch 208759 (QC Batch: 208758) **Test** Gasoline Range (W)
Associated Samples 121284012, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #82988**								
Gasoline	TPHGASOLI		<50	ug/L						U	10/16/12
LCS			**QC Sample #82989**								
Gasoline	TPHGASOLI		2500	ug/L	101.2	80 - 120					10/16/12
MS			**QC Sample #82990**								
			Original 121270001								
Gasoline	TPHGASOLI		2000	ug/L	80.2	75 - 125					10/16/12
MSD			**QC Sample #82991**								
			Original 121270001						**Paired**	**82990**	
Gasoline	TPHGASOLI		2000	ug/L	81.1	75 - 125	1.10	20			10/16/12
DUP			**QC Sample #82992**								
			Original 121270001								
Gasoline	TPHGASOLI		<50	ug/L			0.00	20		U	10/16/12

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

Quality Control Report

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Analytical Batch 208765 (QC Batch: 208765) **Test** Total Organic Carbon
Associated Samples 121284005, 121284006, 121284012, 121284013, 121284014, 121284015, 121284016, 121284017, 121284018, 121284019, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #83011**								
Total Organic Carbon	TOC		<0.045	mg/L						U	10/16/12
LCS			**QC Sample #83012**								
Total Organic Carbon	TOC		2.12	mg/L	105.8	80 - 120					10/16/12
MS			**QC Sample #83013**								
			Original 121275009								
Total Organic Carbon	TOC		2.18	mg/L	108.8	75 - 125					10/16/12
MSD			**QC Sample #83014**								
			Original 121275009						**Paired**	**83013**	
Total Organic Carbon	TOC		2.11	mg/L	105.5	75 - 125	2.60	20			10/16/12
MS			**QC Sample #83016**								
			Original 121284014								
Total Organic Carbon	TOC	0.367	2.14	mg/L	107.1	75 - 125					10/16/12
MSD			**QC Sample #83017**								
			Original 121284014						**Paired**	**83016**	
Total Organic Carbon	TOC	0.367	2.12	mg/L	105.9	75 - 125	1.00	20			10/16/12

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

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Analytical Batch 208863 (QC Batch: 208651) **Test** ICP-6010 - All possible metals
Associated Samples 121284011, 121284012, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #82957**						
Iron	7439-89-6		<19	ug/L				U	10/19/12
Magnesium	7439-95-4		<4.0	ug/L				U	10/19/12
Manganese	7439-96-5		<4.0	ug/L				U	10/19/12
Nickel	7440-02-0		<4.0	ug/L				U	10/19/12
Potassium	7440-09-7		<76	ug/L				U	10/19/12
Silver	7440-22-4		<4.0	ug/L				U	10/19/12
Sodium	7440-23-5		12.8	ug/L				B	10/19/12
Antimony	7440-36-0		<36	ug/L				U	10/19/12
Barium	7440-39-3		<4.0	ug/L				U	10/19/12
Cadmium	7440-43-9		<4.0	ug/L				U	10/19/12
Chromium	7440-47-3		<5.0	ug/L				U	10/19/12
Cobalt	7440-48-4		<4.0	ug/L				U	10/19/12
Copper	7440-50-8		<4.0	ug/L				U	10/19/12
Vanadium	7440-62-2		<5.0	ug/L				U	10/19/12
Zinc	7440-66-6		<5.0	ug/L				U	10/19/12
Calcium	7440-70-2		<49	ug/L				U	10/19/12
Strontium	7440-24-6		<9.0	ug/L				U	10/19/12

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

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Attention Scot Fitzgerald
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Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Titanium	7440-32-6		<4.0	ug/L					U	10/19/12
Beryllium	7440-41-7		<4.0	ug/L					U	10/19/12
LCS			**QC Sample #82959**							
Iron	7439-89-6		1000	ug/L	100.3	80 - 120				10/19/12
Magnesium	7439-95-4		10400	ug/L	103.6	80 - 120				10/19/12
Manganese	7439-96-5		1020	ug/L	101.7	80 - 120				10/19/12
Nickel	7440-02-0		981	ug/L	98.1	80 - 120				10/19/12
Potassium	7440-09-7		11000	ug/L	109.6	80 - 120				10/19/12
Silver	7440-22-4		1000	ug/L	100.4	80 - 120				10/19/12
Sodium	7440-23-5		10500	ug/L	105	80 - 120				10/19/12
Antimony	7440-36-0		1020	ug/L	101.8	80 - 120				10/19/12
Barium	7440-39-3		1040	ug/L	103.8	80 - 120				10/19/12
Cadmium	7440-43-9		1010	ug/L	100.6	80 - 120				10/19/12
Chromium	7440-47-3		1010	ug/L	100.9	80 - 120				10/19/12
Cobalt	7440-48-4		990	ug/L	99	80 - 120				10/19/12
Copper	7440-50-8		1030	ug/L	103	80 - 120				10/19/12
Vanadium	7440-62-2		1010	ug/L	100.9	80 - 120				10/19/12
Zinc	7440-66-6		1030	ug/L	103.1	80 - 120				10/19/12
Calcium	7440-70-2		20200	ug/L	101	80 - 120				10/19/12
Strontium	7440-24-6		988	ug/L	98.8	80 - 120				10/19/12
Titanium	7440-32-6		1020	ug/L	102	80 - 120				10/19/12
Beryllium	7440-41-7		1010	ug/L	100.9	80 - 120				10/19/12

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

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Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
MS			**QC Sample #82960**							
			Original 121282001							
Iron	7439-89-6		1000	ug/L	100.4	75 - 125				10/19/12
Magnesium	7439-95-4		10100	ug/L	101.2	75 - 125				10/19/12
Manganese	7439-96-5		1020	ug/L	102	75 - 125				10/19/12
Nickel	7440-02-0		969	ug/L	96.9	75 - 125				10/19/12
Potassium	7440-09-7		10700	ug/L	106.9	75 - 125				10/19/12
Silver	7440-22-4		1000	ug/L	100.5	75 - 125				10/19/12
Sodium	7440-23-5		9960	ug/L	99.6	75 - 125				10/19/12
Antimony	7440-36-0		1040	ug/L	103.6	75 - 125				10/19/12
Barium	7440-39-3		1030	ug/L	102.8	75 - 125				10/19/12
Cadmium	7440-43-9		1010	ug/L	101.2	75 - 125				10/19/12
Chromium	7440-47-3		1010	ug/L	100.9	75 - 125				10/19/12
Cobalt	7440-48-4		975	ug/L	97.5	75 - 125				10/19/12
Copper	7440-50-8		1020	ug/L	101.9	75 - 125				10/19/12
Vanadium	7440-62-2		1010	ug/L	101	75 - 125				10/19/12
Zinc	7440-66-6		1040	ug/L	103.6	75 - 125				10/19/12
Calcium	7440-70-2		21400	ug/L	107	75 - 125				10/19/12
Strontium	7440-24-6		996	ug/L	99.6	75 - 125				10/19/12
Titanium	7440-32-6		1020	ug/L	101.5	75 - 125				10/19/12
Beryllium	7440-41-7		1020	ug/L	101.8	75 - 125				10/19/12
MSD			**QC Sample #82961**							
			Original 121282001					**Paired**	**82960**	
Iron	7439-89-6		996	ug/L	99.6	75 - 125	0.80	20		10/19/12

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

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Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Magnesium	7439-95-4		9750	ug/L	97.5	75 - 125	1.20	20		10/19/12
Manganese	7439-96-5		1010	ug/L	100.6	75 - 125	1.40	20		10/19/12
Nickel	7440-02-0		959	ug/L	95.9	75 - 125	1.10	20		10/19/12
Potassium	7440-09-7		10500	ug/L	104.8	75 - 125	1.30	20		10/19/12
Silver	7440-22-4		993	ug/L	99.3	75 - 125	1.20	20		10/19/12
Sodium	7440-23-5		9560	ug/L	95.6	75 - 125	1.60	20		10/19/12
Antimony	7440-36-0		1030	ug/L	102.9	75 - 125	0.70	20		10/19/12
Barium	7440-39-3		1010	ug/L	101.3	75 - 125	1.40	20		10/19/12
Cadmium	7440-43-9		1000	ug/L	100.4	75 - 125	0.80	20		10/19/12
Chromium	7440-47-3		1000	ug/L	100	75 - 125	0.90	20		10/19/12
Cobalt	7440-48-4		970	ug/L	97	75 - 125	0.60	20		10/19/12
Copper	7440-50-8		1000	ug/L	100.4	75 - 125	1.50	20		10/19/12
Vanadium	7440-62-2		996	ug/L	99.6	75 - 125	1.40	20		10/19/12
Zinc	7440-66-6		1030	ug/L	102.6	75 - 125	1.00	20		10/19/12
Calcium	7440-70-2		20300	ug/L	101.6	75 - 125	1.40	20		10/19/12
Strontium	7440-24-6		979	ug/L	97.9	75 - 125	1.30	20		10/19/12
Titanium	7440-32-6		1000	ug/L	100.4	75 - 125	1.10	20		10/19/12
Beryllium	7440-41-7		1000	ug/L	100.4	75 - 125	1.40	20		10/19/12

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

REVISED121284 -

Quality Control Report

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Analytical Batch 208870 (QC Batch: 208868) **Test** Chemical Oxygen Demand
Associated Samples 121284012, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #83102**							
Chemical Oxygen Demand	COD		<10	mg/L					U	10/16/12
LCS			**QC Sample #83103**							
Chemical Oxygen Demand	COD		98.8	mg/L	98.8	80 - 120				10/16/12
MS			**QC Sample #83104**							
			Original 121284012							
Chemical Oxygen Demand	COD	<10	251	mg/L	100.2	75 - 125				10/16/12
MSD			**QC Sample #83105**							
			Original 121284012					**Paired**	**83104**	
Chemical Oxygen Demand	COD	<10	255	mg/L	102.1	75 - 125	1.90	20		10/16/12

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

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Analytical Batch 208877 (QC Batch: 208876) **Test** SW-846 8260B Volatiles
Associated Samples 121284004, 121284012, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #83112**						
1,1-Dichloroethene	75-35-4		<1	ug/L				U	10/18/12
Trichloroethene	79-01-6		<1	ug/L				U	10/18/12
Benzene	71-43-2		<1	ug/L				U	10/18/12
Toluene	108-88-3		<1	ug/L				U	10/18/12
Chlorobenzene	108-90-7		<1	ug/L				U	10/18/12
1,1-Dichloroethane	75-34-3		<1	ug/L				U	10/18/12
Ethylbenzene	100-41-4		<1	ug/L				U	10/18/12
Styrene	100-42-5		<1	ug/L				U	10/18/12
cis-1,3-Dichloropropene	10061-01-5		<1	ug/L				U	10/18/12
trans-1,3-Dichloropropene	10061-02-6		<1	ug/L				U	10/18/12
1,2-Dichloroethane	107-06-2		<1	ug/L				U	10/18/12
Methyl isobutyl ketone	108-10-1		<1	ug/L				U	10/18/12
Dibromochloromethane	124-48-1		<1	ug/L				U	10/18/12
Tetrachloroethene	127-18-4		<1	ug/L				U	10/18/12
Total Xylenes	1330-20-7		<1	ug/L				U	10/18/12

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

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Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

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	10/18/12
Carbon tetrachloride	56-23-5		<1	ug/L					U	10/18/12
2-Hexanone	591-78-6		<1	ug/L					U	10/18/12
Acetone	67-64-1		<1	ug/L					U	10/18/12
Chloroform	67-66-3		<1	ug/L					U	10/18/12
1,1,1-Trichloroethane	71-55-6		<1	ug/L					U	10/18/12
Bromomethane	74-83-9		<1	ug/L					U	10/18/12
Chloromethane	74-87-3		<1	ug/L					U	10/18/12
Chloroethane	75-00-3		<1	ug/L					U	10/18/12
Vinyl chloride	75-01-4		<1	ug/L					U	10/18/12
Methylene chloride	75-09-2		<1	ug/L					U	10/18/12
Carbon disulfide	75-15-0		<1	ug/L					U	10/18/12
Bromoform	75-25-2		<1	ug/L					Uo	10/18/12
Bromodichloromethane	75-27-4		<1	ug/L					U	10/18/12
1,2-Dichloropropane	78-87-5		<1	ug/L					U	10/18/12
Methyl ethyl ketone	78-93-3		<1	ug/L					U	10/18/12
1,1,2-Trichloroethane	79-00-5		<1	ug/L					U	10/18/12
1,1,2,2-Tetrachloroethane	79-34-5		<1	ug/L					U	10/18/12
1-Butanol	71-36-3		<100	ug/L					U	10/18/12
Tetrahydrofuran	109-99-9		<2	ug/L					U	10/18/12
Trichlorofluoromethane	75-69-4		<1	ug/L					U	10/18/12

* - QC result out of range

n/a - Not Applicable

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Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

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	10/18/12
Acetonitrile	75-05-8		<2	ug/L					U	10/18/12
cis-1,2-Dichloroethene	156-59-2		<1	ug/L					U	10/18/12
Propionitrile	107-12-0		<2	ug/L					U	10/18/12
1,4-Dichlorobenzene	106-46-7		<1	ug/L					U	10/18/12
Isobutyl alcohol	78-83-1		<200	ug/L					U	10/18/12
Iodomethane	74-88-4		<1	ug/L					U	10/18/12
1,1,1,2-Tetrachloroethane	630-20-6		<1	ug/L					U	10/18/12
1,2,3-Trichloropropane	96-18-4		<1	ug/L					U	10/18/12
1,2-Dibromo-3-chloropropane	96-12-8		<1	ug/L					U	10/18/12
1,2-Dibromoethane	106-93-4		<1	ug/L					U	10/18/12
Acrolein	107-02-8		<1	ug/L					U	10/18/12
Acrylonitrile	107-13-1		<1	ug/L					U	10/18/12
Allyl chloride	107-05-1		<1	ug/L					U	10/18/12
Methylene bromide	74-95-3		<1	ug/L					U	10/18/12
Dichlorodifluoromethane	75-71-8		<1	ug/L					U	10/18/12
Ethyl methacrylate	97-63-2		<1	ug/L					U	10/18/12
Methacrylonitrile	126-98-7		<1	ug/L					U	10/18/12
Methyl methacrylate	80-62-6		<1	ug/L					U	10/18/12
Trans-1,4-dichloro-2-butene	110-57-6		<1	ug/L					U	10/18/12

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

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Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Vinyl acetate	108-05-4		<1	ug/L					U	10/18/12
Chloroprene	126-99-8		<1	ug/L					U	10/18/12
LCS			**QC Sample #83113**							
1,1-Dichloroethene	75-35-4		25	ug/L	101.4	75 - 125				10/18/12
Trichloroethene	79-01-6		26	ug/L	103	75 - 125				10/18/12
Benzene	71-43-2		28	ug/L	110.2	75 - 125				10/18/12
Toluene	108-88-3		26	ug/L	103.6	75 - 125				10/18/12
Chlorobenzene	108-90-7		27	ug/L	106.6	75 - 125				10/18/12
1,1-Dichloroethane	75-34-3		26	ug/L	103.8	75 - 125				10/18/12
Ethylbenzene	100-41-4		27	ug/L	107.7	75 - 125				10/18/12
Styrene	100-42-5		29	ug/L	115.7	75 - 125				10/18/12
trans-1,3-Dichloropropene	10061-02-6		28	ug/L	111.5	75 - 125				10/18/12
1,2-Dichloroethane	107-06-2		28	ug/L	113.7	75 - 125				10/18/12
1,1,1-Trichloroethane	71-55-6		27	ug/L	109.8	75 - 125				10/18/12
Dibromochloromethane	124-48-1		28	ug/L	112.8	75 - 125				10/18/12
Carbon disulfide	75-15-0		25	ug/L	100.5	75 - 125				10/18/12
Bromoform	75-25-2		32	ug/L	127.4	75 - 125			o	10/18/12
Bromodichloromethane	75-27-4		28	ug/L	113.6	75 - 125				10/18/12
1,2-Dichloropropane	78-87-5		28	ug/L	110.1	75 - 125				10/18/12
1,1,2-Trichloroethane	79-00-5		30	ug/L	118.4	75 - 125				10/18/12

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

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Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
1,1,2,2-Tetrachloroethane	79-34-5		30	ug/L	118.7	75 - 125				10/18/12
trans-1,2-Dichloroethene	156-60-5		26	ug/L	102.5	75 - 125				10/18/12
cis-1,2-Dichloroethene	156-59-2		25	ug/L	101.8	75 - 125				10/18/12
MS			**QC Sample #83114**							
			Original 121284004							
1,1-Dichloroethene	75-35-4	<1	26	ug/L	102.2	75 - 125				10/19/12
Trichloroethene	79-01-6	<1	26	ug/L	105.8	75 - 125				10/19/12
Benzene	71-43-2	<1	28	ug/L	112.7	75 - 125				10/19/12
Toluene	108-88-3	<1	27	ug/L	106.2	75 - 125				10/19/12
Chlorobenzene	108-90-7	<1	27	ug/L	107.8	75 - 125				10/19/12
1,1-Dichloroethane	75-34-3	<1	27	ug/L	106.2	75 - 125				10/19/12
Ethylbenzene	100-41-4	<1	28	ug/L	110.4	75 - 125				10/19/12
Styrene	100-42-5		29	ug/L	116.4	75 - 125				10/19/12
trans-1,3-Dichloropropene	10061-02-6		27	ug/L	109.1	75 - 125				10/19/12
1,2-Dichloroethane	107-06-2	<1	27	ug/L	109	75 - 125				10/19/12
1,1,1-Trichloroethane	71-55-6	<1	28	ug/L	112.7	75 - 125				10/19/12
Dibromochloromethane	124-48-1		28	ug/L	111.8	75 - 125				10/19/12
Carbon disulfide	75-15-0	<1	25	ug/L	100.5	75 - 125				10/19/12
Bromoform	75-25-2		31	ug/L	122.5	75 - 125			o	10/19/12
Bromodichloromethane	75-27-4		29	ug/L	114.5	75 - 125				10/19/12
1,2-Dichloropropane	78-87-5		28	ug/L	112.7	75 - 125				10/19/12

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

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Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
1,1,2-Trichloroethane	79-00-5	<1	28	ug/L	113.8	75 - 125				10/19/12
1,1,2,2-Tetrachloroethane	79-34-5		28	ug/L	113.9	75 - 125				10/19/12
trans-1,2-Dichloroethene	156-60-5	<1	26	ug/L	104.6	75 - 125				10/19/12
cis-1,2-Dichloroethene	156-59-2	<1	26	ug/L	105	75 - 125				10/19/12
MSD			**QC Sample #83115**							
			Original 121284004						**Paired 83114**	
1,1-Dichloroethene	75-35-4	<1	27	ug/L	108.3	75 - 125	5.80	20		10/19/12
Trichloroethene	79-01-6	<1	26	ug/L	103.3	75 - 125	2.40	20		10/19/12
Benzene	71-43-2	<1	28	ug/L	111.9	75 - 125	0.70	20		10/19/12
Toluene	108-88-3	<1	26	ug/L	105.1	75 - 125	1.00	20		10/19/12
Chlorobenzene	108-90-7	<1	27	ug/L	106.6	75 - 125	1.20	20		10/19/12
1,1-Dichloroethane	75-34-3	<1	27	ug/L	106.3	75 - 125	0.20	20		10/19/12
Ethylbenzene	100-41-4	<1	27	ug/L	108.2	75 - 125	2.00	20		10/19/12
Styrene	100-42-5		29	ug/L	114.4	75 - 125	1.70	20		10/19/12
trans-1,3-Dichloropropene	10061-02-6		28	ug/L	111	75 - 125	1.70	20		10/19/12
1,2-Dichloroethane	107-06-2	<1	28	ug/L	113	75 - 125	3.60	20		10/19/12
1,1,1-Trichloroethane	71-55-6	<1	28	ug/L	111	75 - 125	1.60	20		10/19/12
Dibromochloromethane	124-48-1		28	ug/L	113.4	75 - 125	1.40	20		10/19/12
Carbon disulfide	75-15-0	<1	26	ug/L	103.9	75 - 125	3.40	20		10/19/12
Bromoform	75-25-2		32	ug/L	126.6	75 - 125	3.30	20	oT	10/19/12
Bromodichloromethane	75-27-4		29	ug/L	115.8	75 - 125	1.10	20		10/19/12

* - QC result out of range

n/a - Not Applicable

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Quality Control Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
1,2-Dichloropropane	78-87-5		28	ug/L	111.5	75 - 125	1.10	20		10/19/12
1,1,2-Trichloroethane	79-00-5	<1	29	ug/L	117	75 - 125	2.70	20		10/19/12
1,1,2,2-Tetrachloroethane	79-34-5		30	ug/L	121.6	75 - 125	6.50	20		10/19/12
trans-1,2-Dichloroethene	156-60-5	<1	26	ug/L	103.5	75 - 125	1.00	20		10/19/12
cis-1,2-Dichloroethene	156-59-2	<1	26	ug/L	105.2	75 - 125	0.20	20		10/19/12

* - QC result out of range

n/a - Not Applicable

Quality Control Report

Attention Scot Fitzgerald
Department Wet Chemistry

Group # WSCF121284

Analytical Batch 208899 (QC Batch: 208883) **Test** Cyanide (W) by Midi/Spectrophotometer
Associated Samples 121284012, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #83149**							
Cyanide	57-12-5		<4.0	ug/L					U	10/17/12
LCS			**QC Sample #83152**							
Cyanide	57-12-5		50.3	ug/L	100.6	85 - 115				10/17/12
MS			**QC Sample #83153**							
			Original 121242007							
Cyanide	57-12-5		42.6	ug/L	106.4	75 - 125				10/17/12
MSD			**QC Sample #83154**							
			Original 121242007					**Paired**	**83153**	
Cyanide	57-12-5		43.3	ug/L	108.2	75 - 125	1.70	20		10/17/12

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

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Analytical Batch 208917 (QC Batch: 208855)
Associated Samples 121284012, 121284023, 121284024

Test SW-846 8270D Semivolatiles

Analyte	CAS #	Original Found	QC Found	Units	% Recov Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #83040**						
4-Nitrophenol	100-02-7		<1	ug/L				U	10/18/12
Phenol	108-95-2		<1	ug/L				U	10/18/12
1,2,4-Trichlorobenzene	120-82-1		<1	ug/L				U	10/18/12
2,4-Dinitrotoluene	121-14-2		<1	ug/L				U	10/18/12
1,4-Dichlorobenzene	106-46-7		<1	ug/L				U	10/18/12
Pyrene	129-00-0		<1	ug/L				U	10/18/12
4-Chloro-3-methylphenol	59-50-7		<1	ug/L				U	10/18/12
n-Nitroso-di-n-propylamine	621-64-7		<1	ug/L				U	10/18/12
Acenaphthene	83-32-9		<1	ug/L				U	10/18/12
Pentachlorophenol	87-86-5		<1	ug/L				U	10/18/12
2-Chlorophenol	95-57-8		<1	ug/L				U	10/18/12
4-Nitroaniline	100-01-6		<1	ug/L				U	10/18/12
4-Bromophenyl-phenylether	101-55-3		<1	ug/L				U	10/18/12
2,4-Dimethylphenol	105-67-9		<2	ug/L				U	10/18/12
4-Chloroaniline	106-47-8		<1	ug/L				U	10/18/12

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

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Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

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	10/18/12
Bis-(2-Chloroethyl) ether	111-44-4		<1	ug/L				U	10/18/12
Bis-(2-Chloroethoxy)methane	111-91-1		<1	ug/L				U	10/18/12
Bis-(2-Ethylhexyl)phthalate	117-81-7		<1	ug/L				U	10/18/12
Di-n-octylphthalate	117-84-0		<1	ug/L				U	10/18/12
Hexachlorobenzene	118-74-1		<1	ug/L				U	10/18/12
Anthracene	120-12-7		<1	ug/L				U	10/18/12
2,4-Dichlorophenol	120-83-2		<1	ug/L				U	10/18/12
Dimethylphthalate	131-11-3		<1	ug/L				U	10/18/12
Dibenzofuran	132-64-9		<1	ug/L				U	10/18/12
Benzo(g,h,i)perylene	191-24-2		<1	ug/L				U	10/18/12
Indeno(1,2,3-cd)pyrene	193-39-5		<1	ug/L				U	10/18/12
Benzo(b)fluoranthene	205-99-2		<1	ug/L				U	10/18/12
Fluoranthene	206-44-0		<1	ug/L				U	10/18/12
Benzo(k)fluoranthene	207-08-9		<1	ug/L				U	10/18/12
Acenaphthylene	208-96-8		<1	ug/L				U	10/18/12
Chrysene	218-01-9		<1	ug/L				U	10/18/12
Benzo(a)pyrene	50-32-8		<1	ug/L				U	10/18/12
2,4-Dinitrophenol	51-28-5		<1	ug/L				U	10/18/12

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

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Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

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	10/18/12
4,6-Dinitro-2-methylphenol	534-52-1		<1	ug/L					U	10/18/12
1,3-Dichlorobenzene	541-73-1		<1	ug/L					U	10/18/12
Benzo(a)anthracene	56-55-3		<1	ug/L					U	10/18/12
2,6-Dinitrotoluene	606-20-2		<1	ug/L					U	10/18/12
4-Chlorophenyl-phenylether	7005-72-3		<1	ug/L					U	10/18/12
Hexachlorocyclopentadiene	77-47-4		<1	ug/L					U	10/18/12
Isophorone	78-59-1		<1	ug/L					U	10/18/12
Diethyl phthalate	84-66-2		<1	ug/L					U	10/18/12
Di-n-butylphthalate	84-74-2		<1	ug/L					U	10/18/12
Phenanthrene	85-01-8		<1	ug/L					U	10/18/12
Butylbenzylphthalate	85-68-7		<1	ug/L					U	10/18/12
Fluorene	86-73-7		<1	ug/L					U	10/18/12
Carbazole	86-74-8		<1	ug/L					U	10/18/12
Hexachlorobutadiene	87-68-3		<1	ug/L					U	10/18/12
2-Nitroaniline	88-74-4		<1	ug/L					U	10/18/12
2-Nitrophenol	88-75-5		<1	ug/L					U	10/18/12
Naphthalene	91-20-3		<1	ug/L					U	10/18/12
2-Methylnaphthalene	91-57-6		<1	ug/L					U	10/18/12
2-Chloronaphthalene	91-58-7		<1	ug/L					U	10/18/12
3,3-Dichlorobenzidine	91-94-1		<1	ug/L					U	10/18/12

* - QC result out of range

n/a - Not Applicable

REVISED121284 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
2-Methylphenol	95-48-7		<1	ug/L					U	10/18/12
1,2-Dichlorobenzene	95-50-1		<1	ug/L					U	10/18/12
2,4,5-Trichlorophenol	95-95-4		<1	ug/L					U	10/18/12
Nitrobenzene	98-95-3		<1	ug/L					U	10/18/12
3-Nitroaniline	99-09-2		<1	ug/L					U	10/18/12
3 & 4 Methylphenol, Total	65794-96-9		<1	ug/L					U	10/18/12
Hexachloroethane	67-72-1		<1	ug/L					U	10/18/12
2,4,6-Trichlorophenol	88-06-2		<1	ug/L					U	10/18/12
Benzyl alcohol	100-51-6		<1	ug/L					U	10/18/12
Tributyl phosphate	126-73-8		<1	ug/L					U	10/18/12
2-Naphthylamine	91-59-8		<2	ug/L					U	10/18/12
Pyridine	110-86-1		<1	ug/L					U	10/18/12
n-Nitrosopiperidine	100-75-4		<1	ug/L					U	10/18/12
n-Nitrosomethylethylamine	10595-95-6		<1	ug/L					U	10/18/12
p-Phenylenediamine	106-50-3		<1	ug/L					U	10/18/12
2-Picoline	109-06-8		<1	ug/L					U	10/18/12
3,3-Dimethylbenzidine	119-93-7		<4	ug/L					U	10/18/12
Isosafrole	120-58-1		<1	ug/L					U	10/18/12
Phentermine	122-09-8		<5	ug/L					U	10/18/12
1,4-Dioxane	123-91-1		<1	ug/L					U	10/18/12
1,4-Naphthoquinone	130-15-4		<1	ug/L					U	10/18/12

* - QC result out of range

n/a - Not Applicable

REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

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

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

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Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Methyl methanesulfonate	66-27-3		<1	ug/L					U	10/18/12
Pentachloroethane	76-01-7		<1	ug/L					U	10/18/12
Pentachloronitrobenzene	82-68-8		<2	ug/L					U	10/18/12
2,6-Dichlorophenol	87-65-0		<1	ug/L					U	10/18/12
Dinoseb(..dinitromethylphenol)	88-85-7		<1	ug/L					U	10/18/12
4-Aminobiphenyl	92-67-1		<2	ug/L					U	10/18/12
n-Nitrosodibutylamine	924-16-3		<1	ug/L					U	10/18/12
n-Nitrosopyrolidine	930-55-2		<1	ug/L					U	10/18/12
Safrole	94-59-7		<1	ug/L					U	10/18/12
o-Toluidine	95-53-4		<1	ug/L					U	10/18/12
1,2,4,5-Tetrachlorobenzene	95-94-3		<1	ug/L					U	10/18/12
Acetophenone	98-86-2		<1	ug/L					U	10/18/12
1,3,5-Trinitrobenzene	99-35-4		<1	ug/L					U	10/18/12
2-Methyl-5-nitroaniline	99-55-8		<1	ug/L					U	10/18/12
1,3-Dinitrobenzene	99-65-0		<1	ug/L					U	10/18/12
O,O,O-Triethylthiophosphate	126-68-1		<1	ug/L					U	10/18/12
Parathion	56-38-2		<1	ug/L					U	10/18/12
Dimethylaminoazobenzene	60-11-7		<1	ug/L					U	10/18/12
Dimethoate	60-51-5		<1	ug/L					U	10/18/12
Thionazin	297-97-2		<1	ug/L					U	10/18/12

* - QC result out of range

n/a - Not Applicable

REVISED121284 -

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Methyl parathion	298-00-0		<1	ug/L					U	10/18/12
Phorate	298-02-2		<1	ug/L					U	10/18/12
Disulfoton	298-04-4		<1	ug/L					U	10/18/12
Sulfotep	3689-24-5		<1	ug/L					U	10/18/12
Famfur	52-85-7		<5	ug/L					U	10/18/12
N-Nitrosodiphenylamin/ Diphenyl	DPA+NNDPA		<1	ug/L					U	10/18/12
Methapyrilene	91-80-5		<1	ug/L					U	10/18/12
LCS			**QC Sample #83041**							
4-Nitrophenol	100-02-7		14	ug/L	45.7	5 - 88				10/18/12
1,2,4-Trichlorobenzene	120-82-1		20	ug/L	67.8	50 - 105				10/18/12
Phenol	108-95-2		14	ug/L	46.2	18 - 89				10/18/12
1,4-Dichlorobenzene	106-46-7		14	ug/L	70.7	47 - 115				10/18/12
2,4-Dinitrotoluene	121-14-2		23	ug/L	78.3	59 - 110				10/18/12
Pyrene	129-00-0		23	ug/L	76.1	64 - 116				10/18/12
4-Chloro-3-methylphenol	59-50-7		24	ug/L	79.9	62 - 109				10/18/12
n-Nitroso-di-n-propylamine	621-64-7		23	ug/L	76.5	61 - 110				10/18/12
Acenaphthene	83-32-9		22	ug/L	73.4	59 - 113				10/18/12
Pentachlorophenol	87-86-5		20	ug/L	67.3	17 - 125				10/18/12
2-Chlorophenol	95-57-8		22	ug/L	72.7	55 - 109				10/18/12
1,4-Dioxane	123-91-1		20	ug/L	66.4	42 - 99				10/18/12

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

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
n-Nitrosodimethylamine	62-75-9		21	ug/L	70.4	40 - 103				10/18/12
Benzyl alcohol	100-51-6		24	ug/L	79.4	58 - 108				10/18/12
2-Methylphenol	95-48-7		22	ug/L	74.2	59 - 107				10/18/12
Hexachloroethane	67-72-1		19	ug/L	61.8	43 - 105				10/18/12
2-Nitrophenol	88-75-5		21	ug/L	71.6	48 - 113				10/18/12
2,4-Dimethylphenol	105-67-9		23	ug/L	77.9	58 - 113				10/18/12
2,4-Dichlorophenol	120-83-2		21	ug/L	70.8	52 - 110				10/18/12
Anthracene	120-12-7		24	ug/L	80.4	67 - 113				10/18/12
Naphthalene	91-20-3		21	ug/L	69.2	55 - 110				10/18/12
2-Nitroaniline	88-74-4		24	ug/L	81.4	57 - 114				10/18/12
Dibenzofuran	132-64-9		23	ug/L	76.8	61 - 113				10/18/12
Fluorene	86-73-7		23	ug/L	77.6	64 - 115				10/18/12
Tributyl phosphate	126-73-8		24	ug/L	81.2	65 - 108				10/18/12
Hexachlorobenzene	118-74-1		24	ug/L	78.5	60 - 117				10/18/12
Dimethoate	60-51-5		13	ug/L	86.4	64 - 108				10/18/12
Carbazole	86-74-8		27	ug/L	88.4	35 - 129				10/18/12
Di-n-butylphthalate	84-74-2		25	ug/L	84.2	70 - 116				10/18/12
3,3-Dichlorobenzidine	91-94-1		19	ug/L	63.1	16 - 117				10/18/12
Bis-(2-Ethylhexyl)phthalate	117-81-7		25	ug/L	83.5	64 - 133				10/18/12
Di-n-octylphthalate	117-84-0		22	ug/L	74.8	57 - 134				10/18/12
Benzo(a)pyrene	50-32-8		25	ug/L	83.2	63 - 115				10/18/12
2-Picoline	109-06-8		22	ug/L	73.5	59 - 102				10/18/12

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

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Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Bis(1-Chloro-2-propyl)ether	108-60-1		21	ug/L	70.6	58 - 111				10/18/12
4-Chloroaniline	106-47-8		27	ug/L	90	43 - 125				10/18/12
MS			**QC Sample #83042**							
			Original 121274003							
4-Nitrophenol	100-02-7		11	ug/L	38.2	15 - 57				10/18/12
1,2,4-Trichlorobenzene	120-82-1		21	ug/L	72.9	51 - 104				10/18/12
Phenol	108-95-2		11	ug/L	40.5	24 - 65				10/18/12
1,4-Dichlorobenzene	106-46-7		14	ug/L	75.7	52 - 114				10/18/12
2,4-Dinitrotoluene	121-14-2		23	ug/L	80.3	57 - 112				10/18/12
Pyrene	129-00-0		25	ug/L	86.7	58 - 119				10/18/12
4-Chloro-3-methylphenol	59-50-7		23	ug/L	82.4	56 - 115				10/18/12
n-Nitroso-di-n-propylamine	621-64-7		22	ug/L	77.7	60 - 112				10/18/12
Acenaphthene	83-32-9		22	ug/L	76.7	60 - 113				10/18/12
Pentachlorophenol	87-86-5		19	ug/L	67.3	32 - 127				10/18/12
2-Chlorophenol	95-57-8		21	ug/L	75.1	52 - 113				10/18/12
1,4-Dioxane	123-91-1		18	ug/L	62.5	39 - 93				10/18/12
n-Nitrosodimethylamine	62-75-9		19	ug/L	65.7	41 - 92				10/18/12
Benzyl alcohol	100-51-6		22	ug/L	78.8	56 - 107				10/18/12
2-Methylphenol	95-48-7		21	ug/L	73.9	46 - 114				10/18/12
Hexachloroethane	67-72-1		19	ug/L	65.6	48 - 102				10/18/12
2-Nitrophenol	88-75-5		21	ug/L	74.7	51 - 114				10/18/12

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

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Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
2,4-Dimethylphenol	105-67-9		23	ug/L	80.1	46 - 124				10/18/12
2,4-Dichlorophenol	120-83-2		21	ug/L	74.3	50 - 114				10/18/12
Anthracene	120-12-7		24	ug/L	84.1	64 - 116				10/18/12
Naphthalene	91-20-3		21	ug/L	73.9	57 - 110				10/18/12
2-Nitroaniline	88-74-4		24	ug/L	86.2	60 - 114				10/18/12
Dibenzofuran	132-64-9		23	ug/L	80.7	61 - 114				10/18/12
Fluorene	86-73-7		23	ug/L	81.9	63 - 116				10/18/12
Tributyl phosphate	126-73-8		24	ug/L	84.2	59 - 113				10/18/12
Hexachlorobenzene	118-74-1		23	ug/L	82.5	58 - 119				10/18/12
Dimethoate	60-51-5		12	ug/L	85.1	53 - 119				10/18/12
Carbazole	86-74-8		25	ug/L	88.8	41 - 122				10/18/12
Di-n-butylphthalate	84-74-2		25	ug/L	87.6	67 - 118				10/18/12
3,3-Dichlorobenzidine	91-94-1		21	ug/L	73.9	16 - 121				10/18/12
Bis-(2-Ethylhexyl)phthalate	117-81-7		26	ug/L	92.2	64 - 134				10/18/12
Di-n-octylphthalate	117-84-0		23	ug/L	82.9	40 - 143				10/18/12
Benzo(a)pyrene	50-32-8		25	ug/L	87.8	61 - 117				10/18/12
2-Picoline	109-06-8		21	ug/L	75.2	50 - 104				10/18/12
Bis(1-Chloro-2-propyl)ether	108-60-1		21	ug/L	72.9	58 - 112				10/18/12
4-Chloroaniline	106-47-8		26	ug/L	93.5	43 - 118				10/18/12
MSD			**QC Sample #83043**							
			Original 121274003						**Paired 83042**	
4-Nitrophenol	100-02-7		10	ug/L	36.5	15 - 57	4.70	20		10/18/12

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

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Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
1,2,4-Trichlorobenzene	120-82-1		21	ug/L	74	51 - 104	1.40	20		10/18/12
Phenol	108-95-2		11	ug/L	38.3	24 - 65	5.50	20		10/18/12
1,4-Dichlorobenzene	106-46-7		14	ug/L	74.8	52 - 114	1.30	20		10/18/12
2,4-Dinitrotoluene	121-14-2		23	ug/L	79.9	57 - 112	0.50	20		10/18/12
Pyrene	129-00-0		23	ug/L	82.9	58 - 119	4.40	20		10/18/12
4-Chloro-3-methylphenol	59-50-7		23	ug/L	81.6	56 - 115	0.90	20		10/18/12
n-Nitroso-di-n-propylamine	621-64-7		22	ug/L	78.1	60 - 112	0.60	20		10/18/12
Acenaphthene	83-32-9		22	ug/L	79.1	60 - 113	3.20	20		10/18/12
Pentachlorophenol	87-86-5		19	ug/L	67.9	32 - 127	0.80	20		10/18/12
2-Chlorophenol	95-57-8		21	ug/L	74.8	52 - 113	0.40	20		10/18/12
1,4-Dioxane	123-91-1		17	ug/L	61	39 - 93	2.40	20		10/18/12
n-Nitrosodimethylamine	62-75-9		18	ug/L	64.4	41 - 92	1.90	20		10/18/12
Benzyl alcohol	100-51-6		22	ug/L	78.2	56 - 107	0.80	20		10/18/12
2-Methylphenol	95-48-7		21	ug/L	73.1	46 - 114	1.10	20		10/18/12
Hexachloroethane	67-72-1		18	ug/L	64.4	48 - 102	1.80	20		10/18/12
2-Nitrophenol	88-75-5		22	ug/L	77.9	51 - 114	4.20	20		10/18/12
2,4-Dimethylphenol	105-67-9		23	ug/L	81.6	46 - 124	1.80	20		10/18/12
2,4-Dichlorophenol	120-83-2		22	ug/L	76.3	50 - 114	2.60	20		10/18/12
Anthracene	120-12-7		24	ug/L	84.7	64 - 116	0.60	20		10/18/12
Naphthalene	91-20-3		21	ug/L	74.5	57 - 110	0.80	20		10/18/12
2-Nitroaniline	88-74-4		24	ug/L	85.1	60 - 114	1.20	20		10/18/12

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

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Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Dibenzofuran	132-64-9		23	ug/L	81.5	61 - 114	1.00	20		10/18/12
Fluorene	86-73-7		23	ug/L	82.1	63 - 116	0.20	20		10/18/12
Tributyl phosphate	126-73-8		24	ug/L	84.3	59 - 113	0.10	20		10/18/12
Hexachlorobenzene	118-74-1		23	ug/L	82	58 - 119	0.70	20		10/18/12
Dimethoate	60-51-5		12	ug/L	85.5	53 - 119	0.50	20		10/18/12
Carbazole	86-74-8		26	ug/L	93.2	41 - 122	4.90	20		10/18/12
Di-n-butylphthalate	84-74-2		25	ug/L	87.5	67 - 118	0.10	20		10/18/12
3,3-Dichlorobenzidine	91-94-1		22	ug/L	79.1	16 - 121	6.70	20		10/18/12
Bis-(2-Ethylhexyl)phthalate	117-81-7		25	ug/L	89.8	64 - 134	2.60	20		10/18/12
Di-n-octylphthalate	117-84-0		23	ug/L	82.3	40 - 143	0.70	20		10/18/12
Benzo(a)pyrene	50-32-8		23	ug/L	82.1	61 - 117	6.80	20		10/18/12
2-Picoline	109-06-8		23	ug/L	81.5	50 - 104	8.00	20		10/18/12
Bis(1-Chloro-2-propyl)ether	108-60-1		21	ug/L	73.8	58 - 112	1.10	20		10/18/12
4-Chloroaniline	106-47-8		26	ug/L	91.7	43 - 118	2.00	20		10/18/12

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

REVISED121284 -

Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Analytical Batch 209017 (QC Batch: 208922) **Test** ICP-2008 MS All possible metal
Associated Samples 121284007, 121284008, 121284009, 121284010, 121284011, 121284012, 121284020, 121284021, 121284022, 121284023, 121284024, 121284025

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #83253**							
Aluminum	7429-90-5		<5.0	ug/L					U	10/24/12
Manganese	7439-96-5		<0.10	ug/L					U	10/24/12
Nickel	7440-02-0		<0.10	ug/L					U	10/24/12
Silver	7440-22-4		<0.050	ug/L					U	10/24/12
Antimony	7440-36-0		<0.30	ug/L					U	10/24/12
Barium	7440-39-3		<0.20	ug/L					U	10/24/12
Beryllium	7440-41-7		<0.10	ug/L					U	10/24/12
Cadmium	7440-43-9		<0.050	ug/L					U	10/24/12
Chromium	7440-47-3		<0.10	ug/L					U	10/24/12
Cobalt	7440-48-4		<0.050	ug/L					U	10/24/12
Copper	7440-50-8		<0.10	ug/L					U	10/24/12
Vanadium	7440-62-2		0.542	ug/L					B	10/24/12
Zinc	7440-66-6		<1.0	ug/L					U	10/24/12
Lead	7439-92-1		<0.050	ug/L					U	10/24/12
Mercury	7439-97-6		<0.050	ug/L					U	10/24/12
Molybdenum	7439-98-7		<0.050	ug/L					U	10/24/12
Strontium	7440-24-6		<0.10	ug/L					U	10/24/12

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

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Attention Scot Fitzgerald
Department Inorganic

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Thallium	7440-28-0		<0.050	ug/L					U	10/24/12
Tin	7440-31-5		<0.050	ug/L					U	10/24/12
Arsenic	7440-38-2		<0.20	ug/L					U	10/24/12
Selenium	7782-49-2		<1.0	ug/L					U	10/24/12
LCS			**QC Sample #83254**							
Aluminum	7429-90-5		418	ug/L	104.4	85 - 115				10/24/12
Manganese	7439-96-5		41.8	ug/L	104.6	85 - 115				10/24/12
Nickel	7440-02-0		41.9	ug/L	104.7	85 - 115				10/24/12
Silver	7440-22-4		42.4	ug/L	105.9	85 - 115				10/24/12
Antimony	7440-36-0		40.1	ug/L	100.2	85 - 115				10/24/12
Barium	7440-39-3		42.2	ug/L	105.5	85 - 115				10/24/12
Beryllium	7440-41-7		42.9	ug/L	107.3	85 - 115				10/24/12
Cadmium	7440-43-9		39.9	ug/L	99.6	85 - 115				10/24/12
Chromium	7440-47-3		41.9	ug/L	104.8	85 - 115				10/24/12
Cobalt	7440-48-4		42.1	ug/L	105.3	85 - 115				10/24/12
Copper	7440-50-8		42.3	ug/L	105.7	85 - 115				10/24/12
Vanadium	7440-62-2		42.1	ug/L	105.2	85 - 115				10/24/12
Zinc	7440-66-6		37.4	ug/L	93.5	85 - 115				10/24/12
Lead	7439-92-1		43.7	ug/L	109.2	85 - 115				10/24/12
Mercury	7439-97-6		1.75	ug/L	87.4	85 - 115				10/24/12
Molybdenum	7439-98-7		41.7	ug/L	104.2	85 - 115				10/24/12
Strontium	7440-24-6		412	ug/L	103	85 - 115				10/24/12

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

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Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Thallium	7440-28-0		43.4	ug/L	108.6	85 - 115				10/24/12
Tin	7440-31-5		41.5	ug/L	103.8	85 - 115				10/24/12
Arsenic	7440-38-2		38.7	ug/L	96.7	85 - 115				10/24/12
Selenium	7782-49-2		35.8	ug/L	89.5	85 - 115				10/24/12
MS			**QC Sample #83255**							
			Original 121282001							
Aluminum	7429-90-5		409	ug/L	102.2	70 - 130				10/24/12
Manganese	7439-96-5		39.8	ug/L	99.6	70 - 130				10/24/12
Nickel	7440-02-0		38.5	ug/L	96.2	70 - 130				10/24/12
Silver	7440-22-4		38.8	ug/L	97	70 - 130				10/24/12
Antimony	7440-36-0		40.3	ug/L	100.7	70 - 130				10/24/12
Barium	7440-39-3		41.7	ug/L	104.3	70 - 130				10/24/12
Beryllium	7440-41-7		42.4	ug/L	106	70 - 130				10/24/12
Cadmium	7440-43-9		38.7	ug/L	96.8	70 - 130				10/24/12
Chromium	7440-47-3		40.2	ug/L	100.6	70 - 130				10/24/12
Cobalt	7440-48-4		39.4	ug/L	98.5	70 - 130				10/24/12
Copper	7440-50-8		37.3	ug/L	93.3	70 - 130				10/24/12
Vanadium	7440-62-2		41.2	ug/L	103	70 - 130				10/24/12
Zinc	7440-66-6		34.5	ug/L	86.3	70 - 130				10/24/12
Lead	7439-92-1		44.4	ug/L	111	70 - 130				10/24/12
Mercury	7439-97-6		1.79	ug/L	89.4	70 - 130				10/24/12
Molybdenum	7439-98-7		42.1	ug/L	105.2	70 - 130				10/24/12
Strontium	7440-24-6		410	ug/L	102.6	70 - 130				10/24/12

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

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Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Thallium	7440-28-0		44.6	ug/L	111.4	70 - 130				10/24/12
Tin	7440-31-5		41.2	ug/L	103	70 - 130				10/24/12
Arsenic	7440-38-2		38.5	ug/L	96.2	70 - 130				10/24/12
Selenium	7782-49-2		35.4	ug/L	88.4	70 - 130				10/24/12
MSD			**QC Sample #83256**							
			Original 121282001					**Paired**	**83255**	
Aluminum	7429-90-5		421	ug/L	105.2	70 - 130	2.90	20		10/24/12
Manganese	7439-96-5		40.6	ug/L	101.6	70 - 130	1.90	20		10/24/12
Nickel	7440-02-0		39.4	ug/L	98.6	70 - 130	2.40	20		10/24/12
Silver	7440-22-4		39.8	ug/L	99.6	70 - 130	2.50	20		10/24/12
Antimony	7440-36-0		41.3	ug/L	103.2	70 - 130	2.50	20		10/24/12
Barium	7440-39-3		44.0	ug/L	110.1	70 - 130	2.60	20		10/24/12
Beryllium	7440-41-7		43.5	ug/L	108.7	70 - 130	2.50	20		10/24/12
Cadmium	7440-43-9		39.6	ug/L	99	70 - 130	2.30	20		10/24/12
Chromium	7440-47-3		41.1	ug/L	102.8	70 - 130	1.80	20		10/24/12
Cobalt	7440-48-4		40.1	ug/L	100.2	70 - 130	1.70	20		10/24/12
Copper	7440-50-8		38.1	ug/L	95.1	70 - 130	1.90	20		10/24/12
Vanadium	7440-62-2		42.0	ug/L	105	70 - 130	1.20	20		10/24/12
Zinc	7440-66-6		34.9	ug/L	87.2	70 - 130	1.00	20		10/24/12
Lead	7439-92-1		45.3	ug/L	113.3	70 - 130	2.00	20		10/24/12
Mercury	7439-97-6		1.82	ug/L	91.2	70 - 130	2.00	20		10/24/12
Molybdenum	7439-98-7		43.3	ug/L	108.3	70 - 130	2.70	20		10/24/12
Strontium	7440-24-6		428	ug/L	107	70 - 130	2.50	20		10/24/12

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

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Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Thallium	7440-28-0		45.6	ug/L	114	70 - 130	2.30	20		10/24/12
Tin	7440-31-5		41.9	ug/L	104.7	70 - 130	1.60	20		10/24/12
Arsenic	7440-38-2		39.3	ug/L	98.2	70 - 130	1.90	20		10/24/12
Selenium	7782-49-2		35.8	ug/L	89.6	70 - 130	1.30	20		10/24/12

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

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Department Organic, Semivolatiles

Group # WSCF121284

Analytical Batch 209113 (QC Batch: 209018) **Test** PCBs by EPA SW-846 Method 8082
Associated Samples 121284012, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #83416**							
Aroclor-1016	12674-11-2		<0.1	ug/L					U	10/24/12
Aroclor-1221	11104-28-2		<0.2	ug/L					U	10/24/12
Aroclor-1232	11141-16-5		<0.1	ug/L					U	10/24/12
Aroclor-1242	53469-21-9		<0.1	ug/L					U	10/24/12
Aroclor-1248	12672-29-6		<0.1	ug/L					U	10/24/12
Aroclor-1254	11097-69-1		<0.1	ug/L					U	10/24/12
Aroclor-1260	11096-82-5		<0.1	ug/L					U	10/24/12
LCS			**QC Sample #83417**							
Aroclor-1254	11097-69-1		1.9	ug/L	95.8	70 - 130				10/24/12
MS			**QC Sample #83418**							
			Original 121274003							
Aroclor-1254	11097-69-1		1.8	ug/L	96.6	60 - 130				10/24/12
MSD			**QC Sample #83419**							
			Original 121274003					**Paired 83418**		
Aroclor-1254	11097-69-1		1.8	ug/L	96.3	60 - 130	0.30	20		10/24/12

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

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Group # WSCF121284

Analytical Batch 209189 (QC Batch: 209188) **Test** Total Organic Halides
Associated Samples 121284005, 121284006, 121284012, 121284013

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #83788**								
Total Organic Halides	59473-04-0		<5.0	ug/L						U	10/16/12
LCS			**QC Sample #83789**								
Total Organic Halides	59473-04-0		403	mg/L	100.7	80 - 120					10/16/12
MS			**QC Sample #83790**								
			Original 121275011								
Total Organic Halides	59473-04-0		38.7	ug/L	96.7	75 - 125					10/16/12
MSD			**QC Sample #83791**								
			Original 121275011						**Paired**	**83790**	
Total Organic Halides	59473-04-0		44.2	ug/L	110.6	75 - 125	13.40	20			10/16/12

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

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Group # WSCF121284

Analytical Batch 209204 (QC Batch: 209194) **Test** Total Organic Halides
Associated Samples 121284014, 121284015, 121284016, 121284017, 121284018, 121284019, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit		RQ	Analyzed
BLANK			**QC Sample #83816**								
Total Organic Halides	59473-04-0		<5.0	ug/L						U	10/16/12
LCS			**QC Sample #83817**								
Total Organic Halides	59473-04-0		371	mg/L	92.7	80 - 120					10/16/12
MS			**QC Sample #83827**								
			Original 121284014								
Total Organic Halides	59473-04-0	<5.0	43.8	ug/L	109.4	75 - 125					10/16/12
MSD			**QC Sample #83828**								
			Original 121284014						**Paired**	**83827**	
Total Organic Halides	59473-04-0	<5.0	40.4	ug/L	100.9	75 - 125	8.10	20			10/16/12

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

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Group # WSCF121284

Analytical Batch 208487 (QC Batch: 208467) **Test** Extractable Diesel and Petroleum
Associated Samples 121284012, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #121284012**							
o-Terphenyl	84-15-1				104.4	70 - 130				10/11/12
SAMPLE			**Sample #121284023**							
o-Terphenyl	84-15-1				96.4	70 - 130				10/11/12
SAMPLE			**Sample #121284024**							
o-Terphenyl	84-15-1				92.2	70 - 130				10/11/12
BLANK			**QC Sample #82704**							
o-Terphenyl	84-15-1				107.8	70 - 130				10/11/12
LCS			**QC Sample #82705**							
o-Terphenyl	84-15-1				93.8	70 - 130				10/11/12
MS			**QC Sample #82706**							
			Original 121270001							
o-Terphenyl	84-15-1				97.3	70 - 130				10/11/12
MSD			**QC Sample #82707**							
			Original 121270001					**Paired**	**82706**	
o-Terphenyl	84-15-1				103.3	70 - 130	n/a			10/11/12

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

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Group # WSCF121284

Analytical Batch 208759 (QC Batch: 208758) **Test** Gasoline Range (W)
Associated Samples 121284012, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #121284012**							
4-Bromofluorobenzene	460-00-4				90.5	50 - 150				10/16/12
SAMPLE			**Sample #121284023**							
4-Bromofluorobenzene	460-00-4				93.4	50 - 150				10/16/12
SAMPLE			**Sample #121284024**							
4-Bromofluorobenzene	460-00-4				93.4	50 - 150				10/16/12
BLANK			**QC Sample #82988**							
4-Bromofluorobenzene	460-00-4				92	50 - 150				10/16/12
LCS			**QC Sample #82989**							
4-Bromofluorobenzene	460-00-4				93	50 - 150				10/16/12
MS			**QC Sample #82990**							
			Original 121270001							

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

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Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
4-Bromofluorobenzene	460-00-4				92.2	50 - 150				10/16/12
MSD			**QC Sample #82991**							
			Original 121270001					**Paired**	**82990**	
4-Bromofluorobenzene	460-00-4				95.7	50 - 150	n/a			10/16/12
DUP			**QC Sample #82992**							
			Original 121270001							
4-Bromofluorobenzene	460-00-4				97.3	50 - 150	n/a			10/16/12

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

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Group # WSCF121284

Analytical Batch 208877 (QC Batch: 208876) **Test** SW-846 8260B Volatiles
Associated Samples 121284004, 121284012, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #121284004**							
1,2-Dichloroethane-d4	17060-07-0				106.4	75 - 125				10/19/12
Toluene-d8	2037-26-5				95.8	75 - 125				10/19/12
4-Bromofluorobenzene	460-00-4				99.3	75 - 125				10/19/12
SAMPLE			**Sample #121284012**							
1,2-Dichloroethane-d4	17060-07-0				105.4	75 - 125				10/19/12
Toluene-d8	2037-26-5				96.7	75 - 125				10/19/12
4-Bromofluorobenzene	460-00-4				101.7	75 - 125				10/19/12
SAMPLE			**Sample #121284023**							
1,2-Dichloroethane-d4	17060-07-0				102.4	75 - 125				10/19/12
Toluene-d8	2037-26-5				97.2	75 - 125				10/19/12
4-Bromofluorobenzene	460-00-4				102.1	75 - 125				10/19/12
SAMPLE			**Sample #121284024**							
1,2-Dichloroethane-d4	17060-07-0				105.8	75 - 125				10/19/12

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

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Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Toluene-d8	2037-26-5				97.2	75 - 125				10/19/12
4-Bromofluorobenzene	460-00-4				102.9	75 - 125				10/19/12
BLANK			**QC Sample #83112**							
1,2-Dichloroethane-d4	17060-07-0				104.3	75 - 125				10/18/12
Toluene-d8	2037-26-5				97.7	75 - 125				10/18/12
4-Bromofluorobenzene	460-00-4				100.6	75 - 125				10/18/12
LCS			**QC Sample #83113**							
1,2-Dichloroethane-d4	17060-07-0				107.3	75 - 125				10/18/12
Toluene-d8	2037-26-5				96.3	75 - 125				10/18/12
4-Bromofluorobenzene	460-00-4				97.4	75 - 125				10/18/12
MS			**QC Sample #83114**							
			Original 121284004							
1,2-Dichloroethane-d4	17060-07-0				103.4	75 - 125				10/19/12
Toluene-d8	2037-26-5				96.1	75 - 125				10/19/12
4-Bromofluorobenzene	460-00-4				97.1	75 - 125				10/19/12
MSD			**QC Sample #83115**							
			Original 121284004					**Paired**	**83114**	
1,2-Dichloroethane-d4	17060-07-0				106.6	75 - 125	n/a			10/19/12
Toluene-d8	2037-26-5				95.5	75 - 125	n/a			10/19/12

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

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Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
4-Bromofluorobenzene	460-00-4				98.9	75 - 125	n/a			10/19/12

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

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Group # WSCF121284

Analytical Batch 208917 (QC Batch: 208855) **Test** SW-846 8270D Semivolatiles
Associated Samples 121284012, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #121284012**							
2-Fluorophenol	367-12-4				52.7	44 - 135				10/19/12
Phenol-d5	4165-62-2				34.5	41 - 136			X	10/19/12
Nitrobenzene-d5	4165-60-0				75.4	53 - 129				10/19/12
2-Methylnaphthalene-d10	7297-45-2				75.6	50 - 140				10/19/12
2-Fluorobiphenyl	321-60-8				76.6	36 - 141				10/19/12
2,4,6-Tribromophenol	118-79-6				65.4	17 - 142				10/19/12
Fluoranthene-d10	93951-69-0				88	50 - 140				10/19/12
Terphenyl-d14	98904-43-9				89.4	61 - 142				10/19/12
SAMPLE			**Sample #121284023**							
2-Fluorophenol	367-12-4				52.3	44 - 135				10/19/12
Phenol-d5	4165-62-2				34	41 - 136			X	10/19/12
Nitrobenzene-d5	4165-60-0				72.6	53 - 129				10/19/12
2-Methylnaphthalene-d10	7297-45-2				75.3	50 - 140				10/19/12
2-Fluorobiphenyl	321-60-8				74.9	36 - 141				10/19/12
2,4,6-Tribromophenol	118-79-6				62.7	17 - 142				10/19/12

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

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Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Fluoranthene-d10	93951-69-0				83.8	50 - 140				10/19/12
Terphenyl-d14	98904-43-9				77.7	61 - 142				10/19/12
SAMPLE			**Sample #121284024**							
2-Fluorophenol	367-12-4				53.8	44 - 135				10/19/12
Phenol-d5	4165-62-2				35.5	41 - 136			X	10/19/12
Nitrobenzene-d5	4165-60-0				81.6	53 - 129				10/19/12
2-Methylnaphthalene-d10	7297-45-2				80.1	50 - 140				10/19/12
2-Fluorobiphenyl	321-60-8				81.2	36 - 141				10/19/12
2,4,6-Tribromophenol	118-79-6				62.4	17 - 142				10/19/12
Fluoranthene-d10	93951-69-0				80.8	50 - 140				10/19/12
Terphenyl-d14	98904-43-9				87.9	61 - 142				10/19/12
BLANK			**QC Sample #83040**							
2-Fluorophenol	367-12-4				65	44 - 135				10/18/12
Phenol-d5	4165-62-2				49	41 - 136				10/18/12
Nitrobenzene-d5	4165-60-0				78.1	53 - 129				10/18/12
2-Methylnaphthalene-d10	7297-45-2				76.7	50 - 140				10/18/12
2-Fluorobiphenyl	321-60-8				76.7	36 - 141				10/18/12
2,4,6-Tribromophenol	118-79-6				63.4	17 - 142				10/18/12
Fluoranthene-d10	93951-69-0				88.5	50 - 140				10/18/12
Terphenyl-d14	98904-43-9				88	61 - 142				10/18/12

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

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Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
LCS			**QC Sample #83041**							
2-Fluorophenol	367-12-4				61.5	44 - 135				10/18/12
Phenol-d5	4165-62-2				44.7	41 - 136				10/18/12
Nitrobenzene-d5	4165-60-0				76.4	53 - 129				10/18/12
2-Methylnaphthalene-d10	7297-45-2				76	50 - 140				10/18/12
2-Fluorobiphenyl	321-60-8				76.3	36 - 141				10/18/12
2,4,6-Tribromophenol	118-79-6				75.7	17 - 142				10/18/12
Fluoranthene-d10	93951-69-0				87.1	50 - 140				10/18/12
Terphenyl-d14	98904-43-9				82	61 - 142				10/18/12
MS			**QC Sample #83042**							
			Original 121274003							
2-Fluorophenol	367-12-4				56.5	44 - 135				10/18/12
Phenol-d5	4165-62-2				39.1	41 - 136			X	10/18/12
Nitrobenzene-d5	4165-60-0				78.9	53 - 129				10/18/12
2-Methylnaphthalene-d10	7297-45-2				79.3	50 - 140				10/18/12
2-Fluorobiphenyl	321-60-8				79.9	36 - 141				10/18/12
2,4,6-Tribromophenol	118-79-6				79.2	17 - 142				10/18/12
Fluoranthene-d10	93951-69-0				85.6	50 - 140				10/18/12
Terphenyl-d14	98904-43-9				91.3	61 - 142				10/18/12
MSD			**QC Sample #83043**							
			Original 121274003					**Paired**	**83042**	
2-Fluorophenol	367-12-4				52.7	44 - 135	n/a			10/18/12

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

REVISED121284 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Phenol-d5	4165-62-2				37.6	41 - 136	n/a		X	10/18/12
Nitrobenzene-d5	4165-60-0				79.5	53 - 129	n/a			10/18/12
2-Methylnaphthalene-d10	7297-45-2				81.2	50 - 140	n/a			10/18/12
2-Fluorobiphenyl	321-60-8				80.3	36 - 141	n/a			10/18/12
2,4,6-Tribromophenol	118-79-6				79.8	17 - 142	n/a			10/18/12
Fluoranthene-d10	93951-69-0				89	50 - 140	n/a			10/18/12
Terphenyl-d14	98904-43-9				86	61 - 142	n/a			10/18/12

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

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Analytical Batch 209113 (QC Batch: 209018) **Test** PCBs by EPA SW-846 Method 8082
Associated Samples 121284012, 121284023, 121284024

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
SAMPLE			**Sample #121284012**							
Tetrachloro-m-xylene	877-09-8				81.3	60 - 140				10/24/12
Decachlorobiphenyl	2051-24-3				104.2	60 - 140				10/24/12
SAMPLE			**Sample #121284023**							
Tetrachloro-m-xylene	877-09-8				79.7	60 - 140				10/24/12
Decachlorobiphenyl	2051-24-3				104.6	60 - 140				10/24/12
SAMPLE			**Sample #121284024**							
Tetrachloro-m-xylene	877-09-8				82.2	60 - 140				10/24/12
Decachlorobiphenyl	2051-24-3				106	60 - 140				10/24/12
BLANK			**QC Sample #83416**							
Tetrachloro-m-xylene	877-09-8				81.6	60 - 140				10/24/12
Decachlorobiphenyl	2051-24-3				100.4	60 - 140				10/24/12
LCS			**QC Sample #83417**							
Tetrachloro-m-xylene	877-09-8				82.3	60 - 140				10/24/12
Decachlorobiphenyl	2051-24-3				87.1	60 - 140				10/24/12

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

REVISED121284 -

Quality Control Report

Attention Scot Fitzgerald
Department Organic, Semivolatiles

Group # WSCF121284

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
MS			**QC Sample #83418**							
			Original 121274003							
Tetrachloro-m-xylene	877-09-8				77.6	60 - 140				10/24/12
Decachlorobiphenyl	2051-24-3				94.9	60 - 140				10/24/12
MSD			**QC Sample #83419**							
			Original 121274003					**Paired**	**83418**	
Tetrachloro-m-xylene	877-09-8				79.4	60 - 140	n/a			10/24/12
Decachlorobiphenyl	2051-24-3				94.2	60 - 140	n/a			10/24/12

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

REVISED121284 -

Tentatively Identified Peak Report

Attention Scot Fitzgerald
Department Organic, Volatiles

Group # WSCF121284

Peak Name		CAS #	RT	RQ	Result	Units
121284004	**B2M910**					
Unknown		UNKNOWN-01	16.163		60	ug/L

Attention: Scot Fitzgerald **Group #** WSCF121284

121284012	**B2M105**
Department	Organic, Semivolatiles

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

121284023	**B2M1B0**
Department	Organic, Semivolatiles

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

121284024	**B2M117**
Department	Organic, Semivolatiles

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

Quality Control Comments

Department Inorganic

82670 B2M159(121274003MS)

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

82671 B2M159(121274003MSD)

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

82717 B2M6C0(121277001DUP)

Analyte Nitrite-N - Anions by Ion Chromatography (Water)
[1] Duplicate is flagged for RPD out-of-limits. RPD does not apply to samples concentrations below the calibration range. RPD is calculated on measured values and not applicable for a result below the RDL.

Attention: Scot Fitzgerald **Group #** WSCF121284

Quality Control Comments

Department Organic, Semivolatiles

83042 B2M159(121274003MS)

Analyte Phenol-d5 - SW-846 8270D Semivolatiles

[1] Surrogate recovery outside of established laboratory control limits.

83043 B2M159(121274003MSD)

Analyte Phenol-d5 - SW-846 8270D Semivolatiles

[1] Surrogate recovery outside of established laboratory control limits.

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 14 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 #: 121284
Profile #: W13-010-208
Proj. Mgr.:
Phone:

The following samples were received from you on 10/10/2012 2:20:00 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		
121284001	B2M1B1	WATER	10/10/2012 12:57	10/10/2012 14:20
		IC-W		
121284002	B2M106	WATER	10/10/2012 09:31	10/10/2012 14:20
		IC-W		
121284003	B2M118	WATER	10/10/2012 11:24	10/10/2012 14:20
		IC-W		
121284004	B2M910	WATER	10/10/2012 09:31	10/10/2012 14:20
		8260V-W		
121284005	B2M204	WATER	10/10/2012 09:31	10/10/2012 14:20
		TOC-W; TOX-W		
121284006	B2M203	WATER	10/10/2012 09:31	10/10/2012 14:20
		TOC-W; TOX-W		
121284007	B2M8F1	WATER	10/10/2012 09:31	10/10/2012 14:20
		2008-W		
121284008	B2M8F2	WATER	10/10/2012 09:31	10/10/2012 14:20
		2008-W		
121284009	B2M107	WATER	10/10/2012 09:31	10/10/2012 14:20
		2008-W; 6010-W		
121284010	B2M1B2	WATER	10/10/2012 12:57	10/10/2012 14:20
		2008-W; 6010-W		
121284011	B2M119	WATER	10/10/2012 11:24	10/10/2012 14:20

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

		2008-W; 6010-W		
121284012	B2M105	WATER	10/10/2012 09:31	10/10/2012 14:20
		2008-W; 6010-W; 8260V-W; 8270SV-W; ALK-W; CN-W; COD-W; PCB-W; TOC-W; TOX-W; TPHDWA-W; TPHGWA-W		
121284013	B2M205	WATER	10/10/2012 09:31	10/10/2012 14:20
		TOC-W; TOX-W		
121284014	B2M251	WATER	10/10/2012 12:57	10/10/2012 14:20
		TOC-W; TOX-W		
121284015	B2M252	WATER	10/10/2012 12:57	10/10/2012 14:20
		TOC-W; TOX-W		
121284016	B2M253	WATER	10/10/2012 12:57	10/10/2012 14:20
		TOC-W; TOX-W		
121284017	B2M211	WATER	10/10/2012 11:24	10/10/2012 14:20
		TOC-W; TOX-W		
121284018	B2M209	WATER	10/10/2012 11:24	10/10/2012 14:20
		TOC-W; TOX-W		
121284019	B2M210	WATER	10/10/2012 11:24	10/10/2012 14:20
		TOC-W; TOX-W		
121284020	B2M8L6	WATER	10/10/2012 12:57	10/10/2012 14:20
		2008-W		
121284021	B2M8L7	WATER	10/10/2012 12:57	10/10/2012 14:20
		2008-W		
121284022	B2M8F7	WATER	10/10/2012 11:24	10/10/2012 14:20
		2008-W		
121284023	B2M1B0	WATER	10/10/2012 12:57	10/10/2012 14:20
		2008-W; 6010-W; 8260V-W; 8270SV-W; ALK-W; CN-W; COD-W; PCB-W; TOC-W; TOX-W; TPHDWA-W; TPHGWA-W		
121284024	B2M117	WATER	10/10/2012 11:24	10/10/2012 14:20
		2008-W; 6010-W; 8260V-W; 8270SV-W; ALK-W; CN-W; COD-W; PCB-W; TOC-W; TOX-W; TPHDWA-W; TPHGWA-W		
121284025	B2M8F8	WATER	10/10/2012 11:24	10/10/2012 14:20
		2008-W		

Test Acronym Description

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

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

8270SV-W	Semivolatiles by 8270D (W)
ALK-W	Total Alkalinity (W)
CN-W	Cyanide (Spectroscopy) (W)
COD-W	Chemical Oxygen Demand (W)
IC-W	Anions by IC (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. # **W13-010-208**

Page 1 of 1

Collector	Mitzi White	**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 / 14	**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)

121284

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

FY12 and FY13 samples cannot be in the same SDG.
Site Wide Geolocator 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
B2M1B1	N	10-10-12	1357	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool~4C

Relinquished By Mitzi White	Print / Sign	Date/Time OCT 10 2012 1451	**Received By** Print / Sign CA Hydon OCT 10 2012 1451
Relinquished By	Date/Time		**Received By** Date/Time
Relinquished By	Date/Time		**Received By** Date/Time
Relinquished By	Date/Time		**Received By** Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By Date/Time

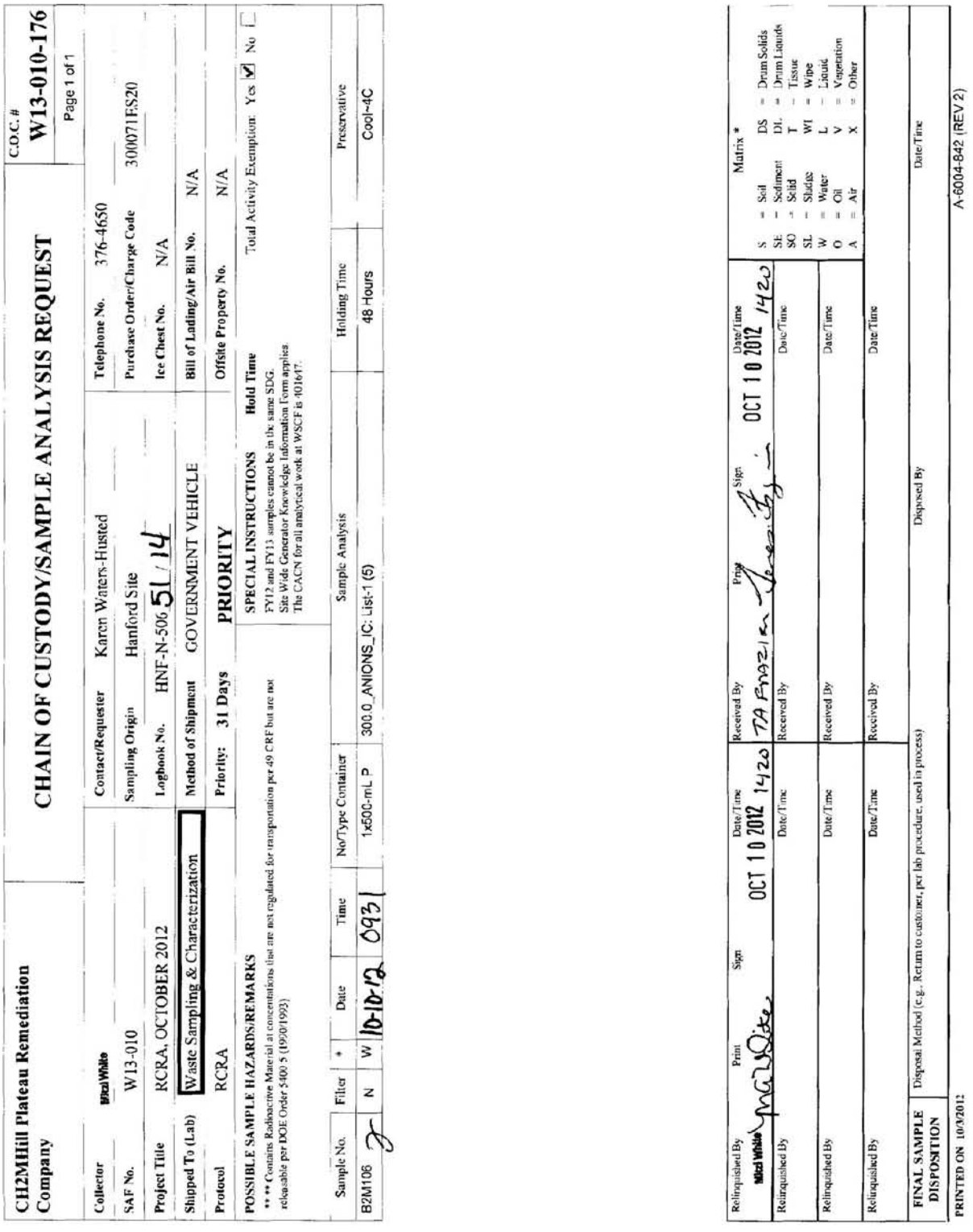
PRINTED ON 9/18/2012

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		

A-6004-847 (REV 2)

Chain of Custody



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W13-010-176

Page 1 of 1

Collector: Mizi White	Contact/Requester: Karen Waters-Husted	Telephone No.: 376-4650	
SAF No.: W13-010	Sampling Origin: Hanford Site	Purchase Order/Charge Code: 300071FS20	
Project Title: RCRA, OCTOBER 2012	Logbook No.: HNF-N-506 51/14	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 (10/20/1993)

Hold Time SPECIAL INSTRUCTIONS

FY12 and FY13 samples cannot be in the same SDG.
Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2M106	N	W	10-10-12	0931	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool-4C

Matrix *

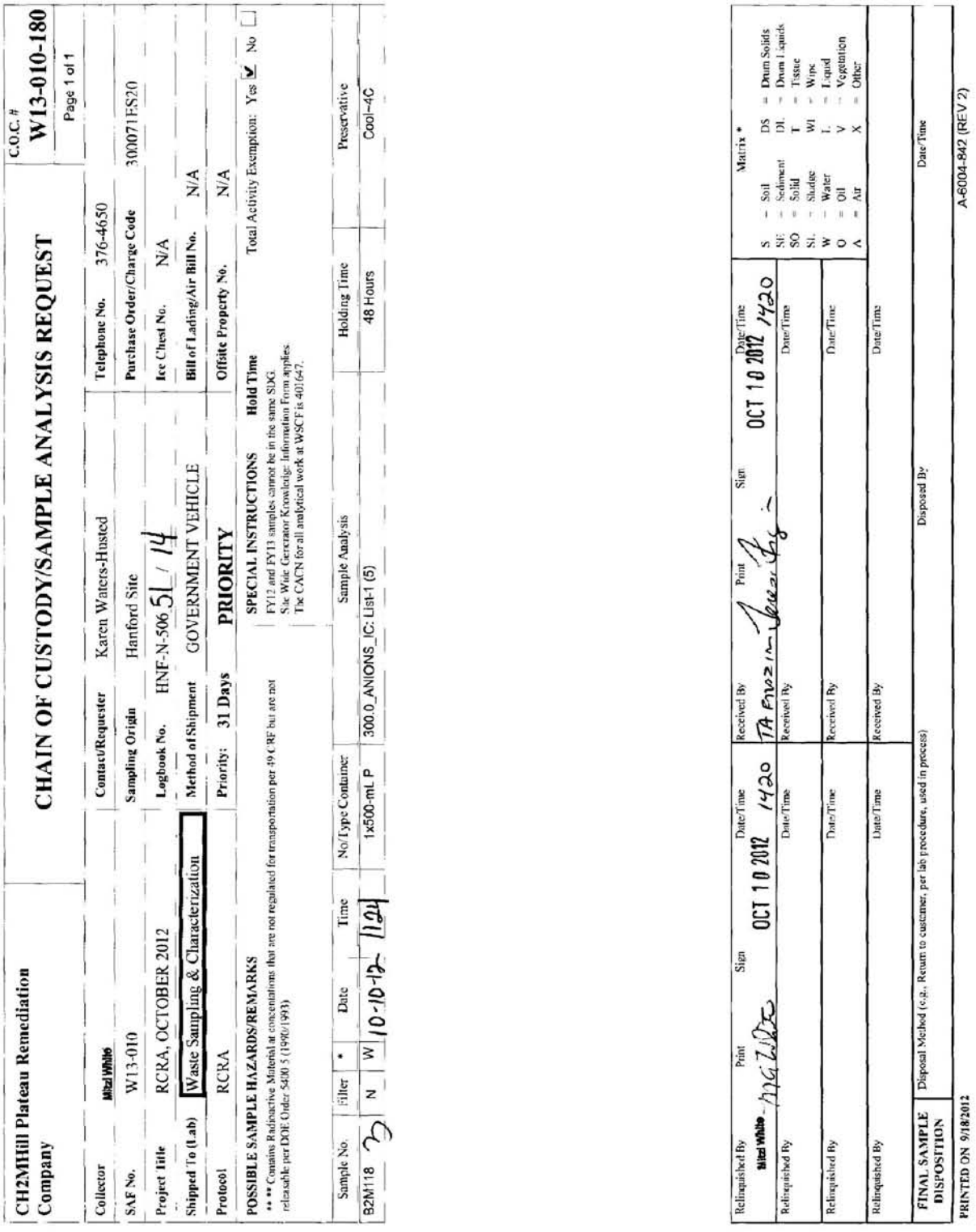
S = Soil	DS = Drum Solids	SE = Sediment	DL = Drum Liquids
SO = Solid	T = Tissue	SL = Sludge	WI = Wipe
W = Water	L = Liquid	O = Oil	V = Vegetation
A = Air	X = Other		

	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Mizi White		OCT 10 2012 1420		TA Frazier		OCT 10 2012 1420
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time

PRINTED ON 10/3/2012

A-6004-842 (REV 2)

Chain of Custody



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W13-010-180

Page 1 of 1

Collector: Mitzi White	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 / 14	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)

SPECIAL INSTRUCTIONS

FY12 and FY13 samples cannot be in the same SDG
Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.

Hold Time Total Activity Exemption: Yes ☑ No ☐

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2M118	N	W	10-10-12	1124	1x500-mL P	300.0_ANIONS_IC: List-1 (5)	48 Hours	Cool-4C

Relinquished By: Mitzi White	Print: Mitzi White	Sign: Mitzi White	Date/Time: OCT 10 2012 1420	Received By: TA Enzin Shear Log	Print:	Sign:	Date/Time: OCT 10 2012 1420	Matrix *				
Relinquished By			Date/Time	Received By			Date/Time	S = Soil	DS = Drum Solids			
Relinquished By			Date/Time	Received By			Date/Time	SE = Sediment	DL = Drum Liquids			
Relinquished By			Date/Time	Received By			Date/Time	SO = Solid	T = Tissue			
Relinquished By			Date/Time	Received By			Date/Time	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					

PRINTED ON 9/18/2012

A-6004-842 (REV 2)

Chain of Custody

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **X13-002-027**

Page 1 of 1

Collector	Mitzi White	Contact/Requester	WATERS-HUSTED, K	Telephone No.	376-4650
SAF No.	X13-002	Sampling Origin	Hanford Site	Purchase Order/Charge Code	300071ES20
Project Title	GW Sitewide Surv, FY13	Logbook No.	HNF-N-506 51 / 14	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	SURV	Priority:	31 Days PRIORITY	Offsite Property No.	N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

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

Site Wide Generator Knowledge Information Form applies.
The CACN for all analytical work at WSCF is 401647.
FY12 and FY13 samples cannot be in the same SDG.
These samples can be batched with A, I, S and W13 SAFS

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B2M910 4	N	W	10-10-12	0931	1x20-mL P	Activity Scan	6 Months	None
B2M910 ↓	N	W	↓	↓	3x40-mL aGs*	8260_VOA_GCMS: List-2 (25)	14 Days	HCl or H2SO4 to pH <2/Cool~4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Mitzi White	[signature]	OCT 10 2012 1420	Received By	TAFNAZIM	[signature]	OCT 10 2012 1420
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

PRINTED ON 9/17/2012

A-6004-842 (REV 2)

Chain of Custody

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C.# **W13-010-175**

Page 1 of 2

Collector	Mitzi White	**Contact/Requester**	Karen Waters-Husted	**Telephone No.**	376-4650
SAF No.	W13-010	**Sampling Origin**	Hanford Site	**Purchase Order/Charge Code**	300071FS20
Project Title	RCRA, OCTOBER 2012	**Logbook No.**	HNF-N-506 51 / 14	**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)

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
B2M204	N	W	10-10-12	0931	1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool-4C
B2M204	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool-4C
B2M203	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool-4C
B2M203	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool-4C
B2M8F1	N	W			1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
B2M107	Y	W			1x500-mL G/P	200.8_METALS_ICPMS: List-1 (26)	6 Months	HNO3 to pH <2
B2M107	Y	W			1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2M8F2	Y	W			1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
B2M105	N	W			1x500-mL G/P	200.8_METALS_ICPMS: List-1 (26)	6 Months	HNO3 to pH <2
B2M105	N	W			1x250-mL G/P	2320_ALKALINITY: Alkalinity (1)	14 Days	Cool-4C
B2M105	N	W			1x500-mL G/P	410.4_COD: COD (1)	28 Days	H2SO4 to pH <2/Cool-4C
B2M105	N	W			1x250-mL P	4500E_CN: Cyanide (1)	14 Days	NaOH to pH >=12
B2M105	N	W			1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2M105	N	W	10-10-12	0931	4x1-L aG	8082_PCB_GC: List-1 (7)	None	Cool-4C

Relinquished By	Print: Mitzi White	Sign:	Date/Time: OCT 10 2012 1420	Received By: Ta Enzin Jeen Ly
Relinquished By			Date/Time	Received By / Date/Time
Relinquished By			Date/Time	Received By / Date/Time
Relinquished By			Date/Time	Received By / Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By / Date/Time

Matrix *

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

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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W13-010-175**

Page 2 of 2

Collector	Mitzi White	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 / 14	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
B2M105	N	W	10-10-12	0931	1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M105	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M105	N	W			3x1-L aG	TPH-DieselKerosene Range - WTPH-D	14/40 Days	HCl to pH <2/Cool~4C
B2M105	N	W			4x40-mL aGs*	TPH-Gasoline Range - WTPH-G	14 Days	HCl to pH <2/Cool~4C
B2M105	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
B2M105	N	W			4x1-L aG	8270_SVOA_GCMS_IX: COMMON	7/40 Days	Cool~4C
B2M205	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M205	N	W	10-10-12	0931	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
Mitzi White			OCT 10 2012 1420	TA Frazier			OCT 10 2012 1420
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	
SD = 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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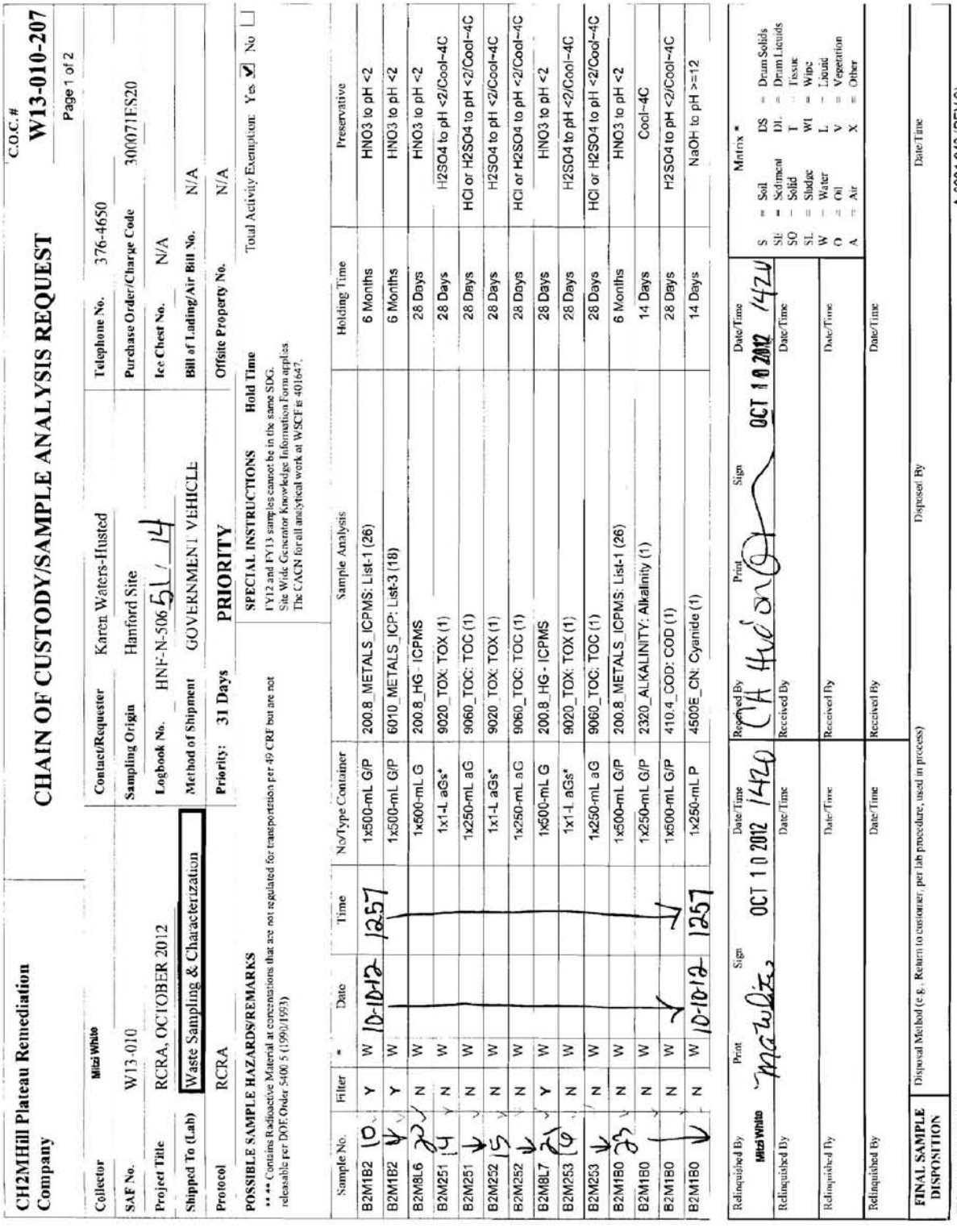
Chain of Custody



CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W13-010-207

Page 1 of 2

Collector	Mitzi White	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 / 14	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)

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
B2M1B2	Y	W	10-10-12	1257	1x500-mL G/P	200.8_METALS_ICPMS: List-1 (26)	6 Months	HNO3 to pH <2
B2M1B2	Y	W			1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2M8L6	N	W			1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
B2M251	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M251	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M252	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M252	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M8L7	Y	W			1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
B2M253	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M253	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M1B0	N	W			1x500-mL G/P	200.8_METALS_ICPMS: List-1 (26)	6 Months	HNO3 to pH <2
B2M1B0	N	W			1x250-mL G/P	2320_ALKALINITY: Alkalinity (1)	14 Days	Cool~4C
B2M1B0	N	W			1x500-mL G/P	410.4_COD: COD (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M1B0	N	W	10-10-12	1257	1x250-mL P	4500E_CN: Cyanide (1)	14 Days	NaOH to pH >=12

	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Mitzi White		OCT 10 2012 1424				OCT 10 2012 1424
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time

Matrix *

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

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CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W13-010-207**
Page 2 of 2

Collector	Mitzi White	**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 / 14	**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
B2M1B0 23	N	W	10-10-12	1257	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2M1B0	N	W	↓	↓	4x1-L aG	8082_PCB_GC: List-1 (7)	None	Cool~4C
B2M1B0	N	W	↓	↓	1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
~~B2M1B0~~ ~~23~~ ~~N~~		~~W~~			~~1x250-mL G/P~~	~~9030_SULFIDE: Sulfide (1)~~	~~7 Days~~	~~ZnAc+NaOH to pH > 9/Cool~4C~~
B2M1B0 23	N	W	10-10-12		1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M1B0	N	W	↓		3x1-L aG	TPH-DieselKerosene Range - WTPH-D	14/40 Days	HCl to pH <2/Cool~4C
B2M1B0	N	W			4x40-mL aGs*	TPH-Gasoline Range - WTPH-G	14 Days	HCl to pH <2/Cool~4C
B2M1B0	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
B2M1B0	N	W	10-10-12	1257	4x1-L aG	8270_SVOA_GCMS_IX: COMMON	7/40 Days	Cool~4C

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Mitzi White			OCT 10 2012 1420				OCT 10 2012 1420
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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Chain of Custody

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # **W13-010-179**

Page 1 of 2

Collector Mitzi White	**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 51/14	**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)

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
B2M211 17	N	W	10-10-12	1124	1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M211	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M8F8	Y	W			1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
B2M209 18	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M209	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M117 24	N	W			1x500-mL G/P	200.8_METALS_ICPMS: List-1 (26)	6 Months	HNO3 to pH <2
B2M117	N	W			1x250-mL G/P	2320_ALKALINITY: Alkalinity (1)	14 Days	Cool~4C
B2M117	N	W			1x500-mL G/P	410.4_COD: COD (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M117	N	W			1x250-mL P	4500E_CN: Cyanide (1)	14 Days	NaOH to pH >=12
B2M117	N	W			1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2
B2M117	N	W			4x1-L aG	8082_PCB_GC: List-1 (7)	None	Cool~4C
B2M117	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
~~B2M117~~	~~N~~	~~W~~			~~1x250-mL G/P~~	~~9030_SULFIDE: Sulfide (1)~~	~~7 Days~~	~~ZnAc+NaOH to pH > 9/Cool~4C.~~
B2M117 29	N	W	10-10-12	1124	1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C

10-9-12 (ku)

	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
Relinquished By	Mitzi White		OCT 10 2012 1420	TA Finazzo			OCT 10 2012 1420
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time

Matrix *

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

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Chain of Custody

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W13-010-179

Page 2 of 2

Collector: Mitzi White	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 / 14	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 CFR 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
B2M117	N	W	10-10-12	1124	3x1-L aG	TPH-DieselKerosene Range - WTPH-D	14/40 Days	HCl to pH <2/Cool~4C
B2M117	N	W			4x40 mL aGs*	TPH-Gasoline Range - WTPH-G	14 Days	HCl to pH <2/Cool~4C
B2M117	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
B2M117	N	W			4x1-L aG	8270_SVOA_GCMS_IX: COMMON	7/40 Days	Cool~4C
B2M8F7	N	W			1x500-mL G	200.8_HG - ICPMS	28 Days	HNO3 to pH <2
B2M210	N	W			1x1-L aGs*	9020_TOX: TOX (1)	28 Days	H2SO4 to pH <2/Cool~4C
B2M210	N	W			1x250-mL aG	9060_TOC: TOC (1)	28 Days	HCl or H2SO4 to pH <2/Cool~4C
B2M119	Y	W			1x500-mL G/P	200.8_METALS_ICPMS: List-1 (26)	6 Months	HNO3 to pH <2
B2M119	Y	W	10-10-12	1124	1x500-mL G/P	6010_METALS_ICP: List-3 (18)	6 Months	HNO3 to pH <2

Relinquished By: Mitzi White	Print: Mitzi White	Sign:	Date/Time: OCT 10 2012 1430	Received By: TA Frazier	Print: Sign: OCT 10 2012 1430
Relinquished By			Date/Time	Received By	Date/Time
Relinquished By			Date/Time	Received By	Date/Time
Relinquished By			Date/Time	Received By	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By	Date/Time

Matrix *

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

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