



5301 Northshore Drive  
North Little Rock, AR 72118  
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**Client Report For:** Exxon Oil Spill 2014 0724-0734  
**Attention:**  
**Client Address:**

**Report Date:** March 19, 2014  
**LAB ID:** AR14MAR13-02  
**Comment:**

Approved By: \_\_\_\_\_

Date: March 19, 2014

**Client:** Special Samples

**Client Sample ID:** WS-011S

**Lab ID:** 2014-0724

**Collection Date:** 3/13/2014 10:10:00 AM

**Matrix:** Water

**Analyses**

*Dissolved Metals by EPA 200.8*

*EPA 200.8*

*Batch: 14031804 Run: 1*

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Aluminum	60.5	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	11.9	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	15.7	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	3.28	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	<0.5	0.5	0.05		ug/L
Copper	0.68	0.5	0.2		ug/L
Iron	93.0	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.52	0.02	0.01		mg/L
Manganese	2.90	0.3	0.07		ug/L
Nickel	0.57	0.5	0.15		ug/L
Potassium	2.28	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	3.01	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	6.23	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	5.57	1	0.3		ug/L
Hardness	14.5	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Mar 17 2014 12:41PM				

*Total Metals by EPA 200.8*

*EPA 200.8*

*Batch: 14031805 Run: 1*

	<b><u>Result</u></b>	<b><u>Reporting Limit</u></b>	<b><u>MDL</u></b>	<b><u>Qual</u></b>	<b><u>Unit</u></b>
Aluminum	316	20	20		ug/L
Antimony	<10	10	5		ug/L
Arsenic	<1	1	0.5		ug/L
Barium	15.3	10	2.0		ug/L
Beryllium	<0.5	0.5	0.1		ug/L
Boron	<25	25	5.0		ug/L
Cadmium	<1	1	0.3		ug/L
Calcium	3.48	0.04	0.04		mg/L
Chromium	<1	1	0.3		ug/L
Cobalt	<1	1	0.5		ug/L
Copper	<1	1	0.5		ug/L
Iron	564	20	10.0		ug/L
Lead	<1	1	0.1		ug/L
Magnesium	1.64	0.1	0.1		mg/L
Manganese	54.4	1	0.2		ug/L
Nickel	<2.5	2.5	0.5		ug/L
Potassium	2.44	1	0.05		mg/L
Selenium	<2	2	0.5		ug/L
Silver	<5	5	1.0		ug/L
Sodium	6.42	0.04	0.02		mg/L
Thallium	<2.5	2.5	0.05		ug/L
Vanadium	<2.5	2.5	1.0		ug/L
Zinc	6.90	3	2.0		ug/L

Dilution Factor 1

Analyzed By Robert Graddy

Analysis Date/Time Mar 17 2014 5:02PM

Prep By

Prep Date/Time

**Client:** Special Samples

**Client Sample ID:** WS-011D

**Lab ID:** 2014-0725

**Collection Date:** 3/13/2014 10:15:00 AM

**Matrix:** Water

**Analyses**

**Dissolved Metals by EPA 200.8**

**EPA 200.8**

**Batch: 14031804 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Aluminum	59.5	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	11.6	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	15.8	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	3.29	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	<0.5	0.5	0.05		ug/L
Copper	0.66	0.5	0.2		ug/L
Iron	95.1	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.55	0.02	0.01		mg/L
Manganese	3.25	0.3	0.07		ug/L
Nickel	0.58	0.5	0.15		ug/L
Potassium	2.29	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.86	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	6.28	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	1.33	1	0.3		ug/L
Hardness	14.6	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Mar 17 2014 12:48PM				

**Total Metals by EPA 200.8**

**EPA 200.8**

**Batch: 14031805 Run: 1**

**Result Reporting MDL Qual Unit**

		<b>Limit</b>		
Aluminum	317	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	15.3	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	3.51	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	<1	1	0.5	ug/L
Iron	616	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.63	0.1	0.1	mg/L
Manganese	59.6	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.45	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	6.46	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	<2.5	2.5	1.0	ug/L
Zinc	<3	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Mar 17 2014 5:09PM			
Prep By				
Prep Date/Time				

**Client:** Special Samples

**Client Sample ID:** WS-014S

**Lab ID:** 2014-0726

**Collection Date:** 3/13/2014 10:45:00 AM

**Matrix:** Water

**Analyses**

**Dissolved Metals by EPA 200.8**

**EPA 200.8**

**Batch: 14031804 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Aluminum	72.9	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	11.7	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	14.1	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	3.03	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	<0.5	0.5	0.05		ug/L
Copper	0.58	0.5	0.2		ug/L
Iron	105	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.47	0.02	0.01		mg/L
Manganese	3.59	0.3	0.07		ug/L
Nickel	<0.5	0.5	0.15		ug/L
Potassium	2.12	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	3.22	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	5.48	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	<1	1	0.3		ug/L
Hardness	13.6	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Mar 17 2014 12:54PM				

**Total Metals by EPA 200.8**

**EPA 200.8**

**Batch: 14031805 Run: 1**

**Result Reporting MDL Qual Unit**

		<b>Limit</b>		
Aluminum	294	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	14.9	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	3.21	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	<1	1	0.5	ug/L
Iron	475	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.56	0.1	0.1	mg/L
Manganese	45.8	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.27	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	5.69	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	<2.5	2.5	1.0	ug/L
Zinc	<3	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Mar 17 2014 5:15PM			
Prep By				
Prep Date/Time				

**Client:** Special Samples

**Client Sample ID:** WS-014D

**Lab ID:** 2014-0727

**Collection Date:** 3/13/2014 10:49:00 AM

**Matrix:** Water

**Analyses**

**Dissolved Metals by EPA 200.8**

**EPA 200.8**

**Batch: 14031804 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Aluminum	59.4	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	11.8	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	15.6	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	3.07	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	<0.5	0.5	0.05		ug/L
Copper	0.65	0.5	0.2		ug/L
Iron	91.1	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.48	0.02	0.01		mg/L
Manganese	3.48	0.3	0.07		ug/L
Nickel	0.53	0.5	0.15		ug/L
Potassium	2.13	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	3.17	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	5.56	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	1.03	1	0.3		ug/L
Hardness	13.8	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Mar 17 2014 1:20PM				

**Total Metals by EPA 200.8**

**EPA 200.8**

**Batch: 14031805 Run: 1**

**Result Reporting MDL Qual Unit**



**Limit**

Aluminum	290	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	14.9	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	3.26	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	<1	1	0.5	ug/L
Iron	488	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.54	0.1	0.1	mg/L
Manganese	48.4	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.30	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	5.70	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	<2.5	2.5	1.0	ug/L
Zinc	<3	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Mar 17 2014 5:54PM			
Prep By				
Prep Date/Time				

**Client:** Special Samples

**Client Sample ID:** WS-012S

**Lab ID:** 2014-0728

**Collection Date:** 3/13/2014 11:43:00 AM

**Matrix:** Water

**Analyses**

**Dissolved Metals by EPA 200.8**

**EPA 200.8**

**Batch: 14031804 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Aluminum	67.0	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	12.3	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	15.2	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	3.26	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	<0.5	0.5	0.05		ug/L
Copper	0.74	0.5	0.2		ug/L
Iron	99.0	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.54	0.02	0.01		mg/L
Manganese	14.5	0.3	0.07		ug/L
Nickel	0.70	0.5	0.15		ug/L
Potassium	2.23	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	3.20	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	5.95	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	1.65	1	0.3		ug/L
Hardness	14.5	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Mar 17 2014 1:40PM				

**Total Metals by EPA 200.8**

**EPA 200.8**

**Batch: 14031805 Run: 1**

**Result Reporting MDL Qual Unit**

**Limit**

Aluminum	312	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	15.6	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	3.50	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	<1	1	0.5	ug/L
Iron	449	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.64	0.1	0.1	mg/L
Manganese	60.3	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.39	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	6.18	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	<2.5	2.5	1.0	ug/L
Zinc	<3	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Mar 17 2014 6:01PM			
Prep By				
Prep Date/Time				

**Client:** Special Samples

**Client Sample ID:** WS-012D

**Lab ID:** 2014-0729

**Collection Date:** 3/13/2014 11:51:00 AM

**Matrix:** Water

**Analyses**

**Dissolved Metals by EPA 200.8**

**EPA 200.8**

**Batch: 14031804 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Aluminum	65.6	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	12.2	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	15.2	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	3.20	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	<0.5	0.5	0.05		ug/L
Copper	0.71	0.5	0.2		ug/L
Iron	98.2	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.52	0.02	0.01		mg/L
Manganese	13.2	0.3	0.07		ug/L
Nickel	0.59	0.5	0.15		ug/L
Potassium	2.20	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	3.15	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	5.88	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	1.50	1	0.3		ug/L
Hardness	14.3	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Mar 17 2014 1:46PM				

**Total Metals by EPA 200.8**

**EPA 200.8**

**Batch: 14031805 Run: 1**

**Result Reporting MDL Qual Unit**

		<b>Limit</b>		
Aluminum	312	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	15.5	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	3.51	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	<1	1	0.5	ug/L
Iron	479	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.64	0.1	0.1	mg/L
Manganese	61.0	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.41	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	6.19	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	<2.5	2.5	1.0	ug/L
Zinc	<3	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Mar 17 2014 6:07PM			
Prep By				
Prep Date/Time				

**Client:** Special Samples

**Client Sample ID:** WS-010S

**Lab ID:** 2014-0730

**Collection Date:** 3/13/2014 12:39:00 PM

**Matrix:** Water

**Analyses**

**Dissolved Metals by EPA 200.8**

**EPA 200.8**

**Batch: 14031804 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Aluminum	77	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	12.9	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	14.2	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	3.22	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	<0.5	0.5	0.05		ug/L
Copper	0.90	0.5	0.2		ug/L
Iron	123	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.54	0.02	0.01		mg/L
Manganese	29.2	0.3	0.07		ug/L
Nickel	0.65	0.5	0.15		ug/L
Potassium	2.12	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	3.15	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	5.86	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	1.97	1	0.3		ug/L
Hardness	14.4	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Mar 17 2014 1:53PM				

**Total Metals by EPA 200.8**

**EPA 200.8**

**Batch: 14031805 Run: 1**

**Result Reporting MDL Qual Unit**

		<b>Limit</b>		
Aluminum	461	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	16.2	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	3.42	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	<1	1	0.5	ug/L
Iron	523	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.59	0.1	0.1	mg/L
Manganese	70.6	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.28	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	5.94	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	<2.5	2.5	1.0	ug/L
Zinc	3.37	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Mar 17 2014 6:14PM			
Prep By				
Prep Date/Time				

**Client:** Special Samples

**Client Sample ID:** WS-018S

**Lab ID:** 2014-0732

**Collection Date:** 3/13/2014 1:44:00 PM

**Matrix:** Water

**Analyses**

**Dissolved Metals by EPA 200.8**

**EPA 200.8**

**Batch: 14031804 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Aluminum	57.5	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	13.0	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	15.4	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	3.15	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	<0.5	0.5	0.05		ug/L
Copper	0.64	0.5	0.2		ug/L
Iron	76.6	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.52	0.02	0.01		mg/L
Manganese	19.0	0.3	0.07		ug/L
Nickel	0.57	0.5	0.15		ug/L
Potassium	2.25	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	3.23	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	5.88	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	1.66	1	0.3		ug/L
Hardness	14.1	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Mar 17 2014 1:59PM				

**Total Metals by EPA 200.8**

**EPA 200.8**

**Batch: 14031805 Run: 1**

**Result Reporting MDL Qual Unit**



		<b>Limit</b>		
Aluminum	292	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	16.8	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	3.44	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	<1	1	0.5	ug/L
Iron	486	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.64	0.1	0.1	mg/L
Manganese	77.6	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.46	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	6.00	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	<2.5	2.5	1.0	ug/L
Zinc	<3	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Mar 17 2014 6:20PM			
Prep By				
Prep Date/Time				

<b>Client:</b> Special Samples	<b>Client Sample ID:</b> Metals Field Blank
<b>Lab ID:</b> 2014-0733	<b>Collection Date:</b> 3/13/2014 12:39:00 PM
<b>Matrix:</b> Water	

**Analyses**

<i>Dissolved Metals by EPA 200.8</i>	<i>EPA 200.8</i>	<i>Batch: 14031804 Run: 1</i>			
	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Aluminum	<20	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	<2	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	<5	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	<0.03	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	<0.5	0.5	0.05		ug/L
Copper	<0.5	0.5	0.2		ug/L
Iron	<20	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	<0.02	0.02	0.01		mg/L
Manganese	<0.3	0.3	0.07		ug/L
Nickel	<0.5	0.5	0.15		ug/L
Potassium	<0.02	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	0.087	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	<0.02	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	<1	1	0.3		ug/L
Hardness	<1	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Mar 17 2014 2:06PM				

**Client:** Special Samples

**Client Sample ID:** WS-011S

**Lab ID:** 2014-0724

**Collection Date:** 3/13/2014 10:10:00 AM

**Matrix:** Water

**Analyses**

**Oil and Grease**

**EPA1664**

**Batch: 14031806 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	03/17/2014 1600				

**Semi-Volatiles by GC/MS**

**EPA 3510C/EPA 8270D**

**Batch: 14031811 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
2-Fluorophenol (% Recovery)	30.4	40-110			%
Nitrobenzene-d5 (% Recovery)	54.1	50-110			%
2-Fluorobiphenyl (% Recovery)	48.9	50-110			%
2,4,6-Tribromophenol (% Recovery)	61.9	40-110			%
Terphenyl-d14 (% Recovery)	89.8	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	<0.16	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

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 501-682-0955

Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	0.287	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	0.448	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	3/18/2014 3:50 PM			
Prep By	Ed Harris			
Prep Date/Time	3/17/2014 08:00			

**Client:** Special Samples

**Client Sample ID:** WS-011D

**Lab ID:** 2014-0725

**Collection Date:** 3/13/2014 10:15:00 AM

**Matrix:** Water

**Analyses**

**Oil and Grease**

**EPA1664**

**Batch: 14031806 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	03/17/2014 1600				

**Semi-Volatiles by GC/MS**

**EPA 3510C/EPA 8270D**

**Batch: 14031811 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
2-Fluorophenol (% Recovery)	49.3	40-110			%
Nitrobenzene-d5 (% Recovery)	78.1	50-110			%
2-Fluorobiphenyl (% Recovery)	82.2	50-110			%
2,4,6-Tribromophenol (% Recovery)	85.7	40-110			%
Terphenyl-d14 (% Recovery)	95.3	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	<0.16	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	<0.2	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	0.368	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	3/18/2014 4:19 PM			
Prep By	Ed Harris			
Prep Date/Time	3/17/2014 08:00			



**Client:** Special Samples

**Client Sample ID:** WS-014S

**Lab ID:** 2014-0726

**Collection Date:** 3/13/2014 10:45:00 AM

**Matrix:** Water

**Analyses**

**Oil and Grease**

**EPA1664**

**Batch: 14031806 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	03/17/2014 1600				

**Semi-Volatiles by GC/MS**

**EPA 3510C/EPA 8270D**

**Batch: 14031811 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
2-Fluorophenol (% Recovery)	33.8	40-110			%
Nitrobenzene-d5 (% Recovery)	58.5	50-110			%
2-Fluorobiphenyl (% Recovery)	62.7	50-110			%
2,4,6-Tribromophenol (% Recovery)	63.3	40-110			%
Terphenyl-d14 (% Recovery)	81.8	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	<0.16	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

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Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	<0.2	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	0.308	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	3/18/2014 4:47 PM			
Prep By	Ed Harris			
Prep Date/Time	3/17/2014 08:00			

**Client:** Special Samples

**Client Sample ID:** WS-014D

**Lab ID:** 2014-0727

**Collection Date:** 3/13/2014 10:49:00 AM

**Matrix:** Water

**Analyses**

**Oil and Grease**

**EPA1664**

**Batch: 14031806 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	03/17/2014 1600				

**Semi-Volatiles by GC/MS**

**EPA 3510C/EPA 8270D**

**Batch: 14031811 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
2-Fluorophenol (% Recovery)	30.0	40-110			%
Nitrobenzene-d5 (% Recovery)	56.5	50-110			%
2-Fluorobiphenyl (% Recovery)	59.7	50-110			%
2,4,6-Tribromophenol (% Recovery)	67.2	40-110			%
Terphenyl-d14 (% Recovery)	81.2	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	<0.16	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

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Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	<0.2	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	<0.3	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	3/18/2014 6:40 PM			
Prep By	Ed Harris			
Prep Date/Time	3/17/2014 08:00			

**Client:** Special Samples

**Client Sample ID:** WS-012S

**Lab ID:** 2014-0728

**Collection Date:** 3/13/2014 11:43:00 AM

**Matrix:** Water

**Analyses**

**Oil and Grease**

**EPA1664**

**Batch: 14031806 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	03/17/2014 1600				

**Semi-Volatiles by GC/MS**

**EPA 3510C/EPA 8270D**

**Batch: 14031811 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
2-Fluorophenol (% Recovery)	27.1	40-110			%
Nitrobenzene-d5 (% Recovery)	50.1	50-110			%
2-Fluorobiphenyl (% Recovery)	46.9	50-110			%
2,4,6-Tribromophenol (% Recovery)	51.5	40-110			%
Terphenyl-d14 (% Recovery)	85.4	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	<0.16	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L



Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	<0.2	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	<0.3	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	3/18/2014 7:09 PM			
Prep By	Ed Harris			
Prep Date/Time	3/17/2014 08:00			

**Client:** Special Samples

**Client Sample ID:** WS-012D

**Lab ID:** 2014-0729

**Collection Date:** 3/13/2014 11:51:00 AM

**Matrix:** Water

**Analyses**

**Oil and Grease**

**EPA1664**

**Batch: 14031806 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	03/17/2014 1600				

**Semi-Volatiles by GC/MS**

**EPA 3510C/EPA 8270D**

**Batch: 14031811 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
2-Fluorophenol (% Recovery)	26.2	40-110			%
Nitrobenzene-d5 (% Recovery)	53.0	50-110			%
2-Fluorobiphenyl (% Recovery)	53.8	50-110			%
2,4,6-Tribromophenol (% Recovery)	57.0	40-110			%
Terphenyl-d14 (% Recovery)	81.8	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	<0.16	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

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Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	<0.2	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	<0.3	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	3/18/2014 7:37 PM			
Prep By	Ed Harris			
Prep Date/Time	3/17/2014 08:00			

**Client:** Special Samples

**Client Sample ID:** WS-010S

**Lab ID:** 2014-0730

**Collection Date:** 3/13/2014 12:39:00 PM

**Matrix:** Water

**Analyses**

**Oil and Grease**

**EPA1664**

**Batch: 14031806 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	03/17/2014 1600				

**Semi-Volatiles by GC/MS**

**EPA 3510C/EPA 8270D**

**Batch: 14031811 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
2-Fluorophenol (% Recovery)	30.9	40-110			%
Nitrobenzene-d5 (% Recovery)	60.0	50-110			%
2-Fluorobiphenyl (% Recovery)	59.3	50-110			%
2,4,6-Tribromophenol (% Recovery)	67.5	40-110			%
Terphenyl-d14 (% Recovery)	86.6	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	<0.16	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

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Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	0.218	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	0.306	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	3/18/2014 8:06 PM			
Prep By	Ed Harris			
Prep Date/Time	3/17/2014 08:00			

**Client:** Special Samples

**Client Sample ID:** WS-018S

**Lab ID:** 2014-0732

**Collection Date:** 3/13/2014 1:44:00 PM

**Matrix:** Water

**Analyses**

**Oil and Grease**

**EPA1664**

**Batch: 14031806 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	03/17/2014 1600				

**Semi-Volatiles by GC/MS**

**EPA 3510C/EPA 8270D**

**Batch: 14031811 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
2-Fluorophenol (% Recovery)	52.7	40-110			%
Nitrobenzene-d5 (% Recovery)	81.4	50-110			%
2-Fluorobiphenyl (% Recovery)	83.8	50-110			%
2,4,6-Tribromophenol (% Recovery)	86.8	40-110			%
Terphenyl-d14 (% Recovery)	82.1	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	<0.16	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L



2-Nitrophenol	<0.3	0.3	150	ug/L
2,4-Dimethylphenol	<0.1	0.1	50	ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100	ug/L
2,4-Dichlorophenol	<0.2	0.2	100	ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60	ug/L
Naphthalene	<0.08	0.08	40	ug/L
4-Chloroaniline	<0.1	0.1	50	ug/L
2,6-Dichlorophenol	<0.2	0.2	100	ug/L
Hexachlorobutadiene	<0.2	0.2	100	ug/L
N-Nitrosodibutylamine	<0.2	0.2	100	ug/L
4-Chloro-3-methylphenol	<0.16	0.16	80	ug/L
2-Methylnaphthalene	<0.1	0.1	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.1	0.1	50	ug/L
Hexachlorocyclopentadiene	<0.16	0.16	80	ug/L
2,4,6-Trichlorophenol	<0.2	0.2	100	ug/L
2,4,5-Trichlorophenol	<0.2	0.2	100	ug/L
2-Chloronaphthalene	<0.1	0.1	50	ug/L
1-Chloronaphthalene	<0.1	0.1	50	ug/L
2-Nitroaniline	<0.2	0.2	100	ug/L
Dimethyl phthalate	<0.2	0.2	100	ug/L
2,6-Dinitrotoluene	<0.2	0.2	100	ug/L
Acenaphthylene	<0.08	0.08	40	ug/L
3-Nitroaniline	<0.2	0.2	100	ug/L
Acenaphthene	<0.1	0.1	50	ug/L
2,4-Dinitrophenol	<4	4	2000	ug/L
Pentachlorobenzene	<0.12	0.12	60	ug/L
4-Nitrophenol	<2	2	1000	ug/L
Dibenzofuran	<0.1	0.1	50	ug/L
2,4-Dinitrotoluene	<0.2	0.2	100	ug/L
2,3,4,6-Tetrachlorophenol	<0.6	0.6	300	ug/L
Diethyl phthalate	<0.2	0.2	100	ug/L
Fluorene	<0.1	0.1	50	ug/L
4-Chlorophenyl phenyl ether	<0.1	0.1	50	ug/L
4-Nitroaniline	<0.2	0.2	100	ug/L
4,6-Dinitro-2-methylphenol	<6	6	3000	ug/L
Diphenylamine	<0.1	0.1	50	ug/L
Azobenzene	<0.08	0.08	40	ug/L
4-Bromophenyl phenyl ether	<0.2	0.2	100	ug/L
Hexachlorobenzene	<0.16	0.16	80	ug/L
Pentachlorophenol	<1	1	500	ug/L

Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	<0.2	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	<0.3	0.3	150	ug/L
Di-n-octyl phthalate	<0.3	0.3	150	ug/L
Benzo (b) fluoranthene	<0.16	0.16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.2	0.2	100	ug/L
Benzo (k) fluoranthene	<0.16	0.16	80	ug/L
Benzo (a) pyrene	<0.16	0.16	80	ug/L
3-Methylcholanthrene	<0.2	0.2	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.2	0.2	100	ug/L
Dibenzo (a,h) anthracene	<0.16	0.16	80	ug/L
Benzo (g,h,i) perylene	<0.16	0.16	80	ug/L
Initial Volume	500			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	3/18/2014 8:34 PM			
Prep By	Ed Harris			
Prep Date/Time	3/17/2014 08:00			

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**Client:** Special Samples

**Client Sample ID:** WS-011S

**Lab ID:** 2014-0724

**Collection Date:** 3/13/2014 10:10:00 AM

**Matrix:** Water

**Analyses**

***Turbidity***

***EPA 180.1***

***Batch: 14031702 Run: 1***

	<b><u>Result</u></b>	<b><u>Reporting Limit</u></b>	<b><u>MDL</u></b>	<b><u>Qual</u></b>	<b><u>Unit</u></b>
Turbidity	8.49	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	3/14/2014 12:37				

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**Client:** Special Samples

**Client Sample ID:** WS-011D

**Lab ID:** 2014-0725

**Collection Date:** 3/13/2014 10:15:00 AM

**Matrix:** Water

**Analyses**

***Turbidity***

***EPA 180.1***

***Batch: 14031702 Run: 1***

	<b><u>Result</u></b>	<b><u>Reporting Limit</u></b>	<b><u>MDL</u></b>	<b><u>Qual</u></b>	<b><u>Unit</u></b>
Turbidity	8.91	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	3/14/2014 12:40				

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**Client:** Special Samples

**Client Sample ID:** WS-014S

**Lab ID:** 2014-0726

**Collection Date:** 3/13/2014 10:45:00 AM

**Matrix:** Water

**Analyses**

***Turbidity***

***EPA 180.1***

***Batch: 14031702 Run: 1***

	<b><u>Result</u></b>	<b><u>Reporting Limit</u></b>	<b><u>MDL</u></b>	<b><u>Qual</u></b>	<b><u>Unit</u></b>
Turbidity	7.67	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	3/14/2014 12:46				

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**Client:** Special Samples

**Client Sample ID:** WS-014D

**Lab ID:** 2014-0727

**Collection Date:** 3/13/2014 10:49:00 AM

**Matrix:** Water

**Analyses**

***Turbidity***

***EPA 180.1***

***Batch: 14031702 Run: 1***

	<b><u>Result</u></b>	<b><u>Reporting Limit</u></b>	<b><u>MDL</u></b>	<b><u>Qual</u></b>	<b><u>Unit</u></b>
Turbidity	7.76	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	3/14/2014 12:54				

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**Client:** Special Samples

**Client Sample ID:** WS-012S

**Lab ID:** 2014-0728

**Collection Date:** 3/13/2014 11:43:00 AM

**Matrix:** Water

**Analyses**

***Turbidity***

***EPA 180.1***

***Batch: 14031702 Run: 1***

	<b><u>Result</u></b>	<b><u>Reporting Limit</u></b>	<b><u>MDL</u></b>	<b><u>Qual</u></b>	<b><u>Unit</u></b>
Turbidity	7.60	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	3/14/2014 12:58				

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**Client:** Special Samples

**Client Sample ID:** WS-012D

**Lab ID:** 2014-0729

**Collection Date:** 3/13/2014 11:51:00 AM

**Matrix:** Water

**Analyses**

***Turbidity***

***EPA 180.1***

***Batch: 14031702 Run: 1***

	<b><u>Result</u></b>	<b><u>Reporting Limit</u></b>	<b><u>MDL</u></b>	<b><u>Qual</u></b>	<b><u>Unit</u></b>
Turbidity	7.42	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	3/14/2014 13:03				



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**Client:** Special Samples

**Client Sample ID:** WS-010S

**Lab ID:** 2014-0730

**Collection Date:** 3/13/2014 12:39:00 PM

**Matrix:** Water

**Analyses**

***Turbidity***

***EPA 180.1***

***Batch: 14031702 Run: 1***

	<b><u>Result</u></b>	<b><u>Reporting Limit</u></b>	<b><u>MDL</u></b>	<b><u>Qual</u></b>	<b><u>Unit</u></b>
Turbidity	9.60	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	3/14/2014 13:08				

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Laboratory Contact: Jeff Ruehr  
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501-682-0955

**Client:** Special Samples

**Client Sample ID:** WS-018S

**Lab ID:** 2014-0732

**Collection Date:** 3/13/2014 1:44:00 PM

**Matrix:** Water

**Analyses**

***Turbidity***

***EPA 180.1***

***Batch: 14031702 Run: 1***

	<b><u>Result</u></b>	<b><u>Reporting Limit</u></b>	<b><u>MDL</u></b>	<b><u>Qual</u></b>	<b><u>Unit</u></b>
Turbidity	11.6	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	3/14/2014 13:13				

**Client:** Special Samples

**Client Sample ID:** WS-011S

**Lab ID:** 2014-0724

**Collection Date:** 3/13/2014 10:10:00 AM

**Matrix:** Water

**Analyses**

**Volatile Organics by GCMS**

**EPA 8260C**

**Batch: 14031406 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Dibromofluoromethane (% Recovery)	108	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	100	70-130			%
Toluene-d8 (% Recovery)	98.7	70-130			%
4-Bromofluorobenzene (% Recovery)	110	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	3/13/2014 10:23 PM			

**Client:** Special Samples

**Client Sample ID:** WS-011D

**Lab ID:** 2014-0725

**Collection Date:** 3/13/2014 10:15:00 AM

**Matrix:** Water

**Analyses**

**Volatile Organics by GCMS**

**EPA 8260C**

**Batch: 14031406 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
<i>Dibromofluoromethane (% Recovery)</i>	104	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	99.7	70-130			%
<i>Toluene-d8 (% Recovery)</i>	99.4	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	111	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	3/13/2014 10:49 PM			

**Client:** Special Samples

**Client Sample ID:** WS-014S

**Lab ID:** 2014-0726

**Collection Date:** 3/13/2014 10:45:00 AM

**Matrix:** Water

**Analyses**

**Volatile Organics by GCMS**

**EPA 8260C**

**Batch: 14031406 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
<i>Dibromofluoromethane (% Recovery)</i>	106	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	99.0	70-130			%
<i>Toluene-d8 (% Recovery)</i>	97.8	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	106	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	3/14/2014 1:21 AM			



**Client:** Special Samples

**Client Sample ID:** WS-014D

**Lab ID:** 2014-0727

**Collection Date:** 3/13/2014 10:49:00 AM

**Matrix:** Water

**Analyses**

**Volatile Organics by GCMS**

**EPA 8260C**

**Batch: 14031406 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
<i>Dibromofluoromethane (% Recovery)</i>	108	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	99.4	70-130			%
<i>Toluene-d8 (% Recovery)</i>	102	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	108	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	3/13/2014 11:14 PM			

**Client:** Special Samples

**Client Sample ID:** WS-012S

**Lab ID:** 2014-0728

**Collection Date:** 3/13/2014 11:43:00 AM

**Matrix:** Water

**Analyses**

**Volatile Organics by GCMS**

**EPA 8260C**

**Batch: 14031406 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
<i>Dibromofluoromethane (% Recovery)</i>	102	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	97.0	70-130			%
<i>Toluene-d8 (% Recovery)</i>	97.1	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	105	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	3/13/2014 11:39 PM			

**Client:** Special Samples

**Client Sample ID:** WS-012D

**Lab ID:** 2014-0729

**Collection Date:** 3/13/2014 11:51:00 AM

**Matrix:** Water

**Analyses**

**Volatile Organics by GCMS**

**EPA 8260C**

**Batch: 14031406 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
<i>Dibromofluoromethane (% Recovery)</i>	107	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	99.0	70-130			%
<i>Toluene-d8 (% Recovery)</i>	98.3	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	115	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	3/14/2014 12:05 AM			

**Client:** Special Samples

**Client Sample ID:** WS-010S

**Lab ID:** 2014-0730

**Collection Date:** 3/13/2014 12:39:00 PM

**Matrix:** Water

**Analyses**

**Volatile Organics by GCMS**

**EPA 8260C**

**Batch: 14031406 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
Dibromofluoromethane (% Recovery)	103	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	94.0	70-130			%
Toluene-d8 (% Recovery)	96.7	70-130			%
4-Bromofluorobenzene (% Recovery)	107	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	3/14/2014 12:30 AM			



**Client:** Special Samples

**Client Sample ID:** WS-018S

**Lab ID:** 2014-0732

**Collection Date:** 3/13/2014 1:44:00 PM

**Matrix:** Water

**Analyses**

**Volatile Organics by GCMS**

**EPA 8260C**

**Batch: 14031406 Run: 1**

	<b>Result</b>	<b>Reporting Limit</b>	<b>MDL</b>	<b>Qual</b>	<b>Unit</b>
<i>Dibromofluoromethane (% Recovery)</i>	106	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	98.6	70-130			%
<i>Toluene-d8 (% Recovery)</i>	98.6	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	108	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	3/14/2014 12:56 AM			

<b>Client:</b> Special Samples	<b>Client Sample ID:</b> Volatiles Trip Blank
<b>Lab ID:</b> 2014-0734	<b>Collection Date:</b> 3/13/2014 8:00:00 AM
<b>Matrix:</b> Water	

**Analyses**

<i>Volatile Organics by GCMS</i>	<i>EPA 8260C</i>	<i>Batch: 14031406 Run: 1</i>			
	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Dibromofluoromethane (% Recovery)	106	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	100	70-130			%
Toluene-d8 (% Recovery)	97.0	70-130			%
4-Bromofluorobenzene (% Recovery)	106	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	3/13/2014 9:58 PM			

Arkansas Department of Environmental Quality  
5301 Northshore Drive  
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr  
Ruehr@adeq.state.ar.us  
501-682-0955

**Client:** Special Samples

**Client Sample ID:** WS-010D

**Lab ID:** 2014-0731

**Collection Date:** 3/13/2014 1:00:00 PM

**Matrix:** Water

**Analyses**

**Not Collected Sample**

**Batch: 14031902 Run: 1**

**Result**

**Reporting**  
**Limit**

**MDL**

**Qual**

**Unit**

Not Collected Sample

Dry

## Analytical Quality Control Results Report

<b>Batch: 14031811</b>	<b>Semi-VOA water (Prep)</b>
<b>WS-014S</b>	<b>LIMS ID: 2014-0726</b>

*Semi Volatiles - water DUP*

*Run: 1*

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	3/17/2014 08:00				
2-Fluorophenol (% Recovery)	30.5 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	63.8 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	65.9 %			40 - 110	
2,4,6-Tribromophenol (% Recovery)	69.5 %			40 - 110	
Terphenyl-d14 (% Recovery)	87.2 %			40 - 125	
Methyl Methanesulfonate (RPD)	0 %				0 - 40
Ethyl methanesulfonate (RPD)	0 %				0 - 40
Phenol (RPD)	0 %				0 - 40
Aniline (RPD)	0 %				0 - 40
Bis(2-chloroethyl)ether (RPD)	0 %				0 - 40
2-Chlorophenol (RPD)	0 %				0 - 40
1,3-Dichlorobenzene (RPD)	0 %				0 - 40
1,4-Dichlorobenzene (RPD)	0 %				0 - 40
Benzyl alcohol (RPD)	15.5 %				0 - 40
1,2-Dichlorobenzene (RPD)	0 %				0 - 40
2-Methylphenol (RPD)	0 %				0 - 40
Acetophenone (RPD)	200 %				0 - 40
4-Methylphenol (RPD)	0 %				0 - 40
N-Nitrosodi-n-propylamine (RPD)	0 %				0 - 40
Hexachloroethane (RPD)	0 %				0 - 40
Nitrobenzene (RPD)	0 %				0 - 40
N-Nitrosopiperidine (RPD)	0 %				0 - 40
Isophorone (RPD)	200 %				0 - 40
2-Nitrophenol (RPD)	0 %				0 - 40
2,4-Dimethylphenol (RPD)	0 %				0 - 40
Bis(2-chloroethoxy)methane (RPD)	0 %				0 - 40
2,4-Dichlorophenol (RPD)	0 %				0 - 40

1,2,4-Trichlorobenzene (RPD)	0 %	0 - 40
Naphthalene (RPD)	0 %	0 - 40
4-Chloroaniline (RPD)	0 %	0 - 40
2,6-Dichlorophenol (RPD)	0 %	0 - 40
Hexachlorobutadiene (RPD)	0 %	0 - 40
N-Nitrosodibutylamine (RPD)	20.6 %	0 - 40
4-Chloro-3-methylphenol (RPD)	0 %	0 - 40
2-Methylnaphthalene (RPD)	0 %	0 - 40
1,2,4,5-Tetrachlorobenzene (RPD)	0 %	0 - 40
Hexachlorocyclopentadiene (RPD)	0 %	0 - 40
2,4,6-Trichlorophenol (RPD)	0 %	0 - 40
2,4,5-Trichlorophenol (RPD)	0 %	0 - 40
2-Chloronaphthalene (RPD)	0 %	0 - 40
1-Chloronaphthalene (RPD)	0 %	0 - 40
2-Nitroaniline (RPD)	0 %	0 - 40
Dimethyl phthalate (RPD)	0 %	0 - 40
2,6-Dinitrotoluene (RPD)	0 %	0 - 40
Acenaphthylene (RPD)	0 %	0 - 40
3-Nitroaniline (RPD)	0 %	0 - 40
Acenaphthene (RPD)	0 %	0 - 40
2,4-Dinitrophenol (RPD)	0 %	0 - 40
Pentachlorobenzene (RPD)	0 %	0 - 40
4-Nitrophenol (RPD)	0 %	0 - 40
Dibenzofuran (RPD)	0 %	0 - 40
2,4-Dinitrotoluene (RPD)	0 %	0 - 40
2,3,4,6-Tetrachlorophenol (RPD)	0 %	0 - 40
Diethyl phthalate (RPD)	1.0 %	0 - 40
Fluorene (RPD)	0 %	0 - 40
4-Chlorophenyl phenyl ether (RPD)	0 %	0 - 40
4-Nitroaniline (RPD)	0 %	0 - 40
4,6-Dinitro-2-methylphenol (RPD)	0 %	0 - 40
Diphenylamine (RPD)	0 %	0 - 40
Azobenzene (RPD)	0 %	0 - 40
4-Bromophenyl phenyl ether (RPD)	0 %	0 - 40
Hexachlorobenzene (RPD)	0 %	0 - 40
Pentachlorophenol (RPD)	0 %	0 - 40
Pentachloronitrobenzene (RPD)	0 %	0 - 40
Pronamide (RPD)	0 %	0 - 40
Phenanthrene (RPD)	0 %	0 - 40
Anthracene (RPD)	0 %	0 - 40

Carbazole (RPD)	0 %	0 - 40
Di-n-butyl phthalate (RPD)	4.7 %	0 - 40
Fluoranthene (RPD)	0 %	0 - 40
Pyrene (RPD)	0 %	0 - 40
Dimethylaminoazobenzene (RPD)	0 %	0 - 40
Butyl benzyl phthalate (RPD)	200 %	0 - 40
Benzo (a) anthracene (RPD)	0 %	0 - 40
Chrysene (RPD)	0 %	0 - 40
Bis(2-ethylhexyl)phthalate (RPD)	14.5 %	0 - 40
Di-n-octyl phthalate (RPD)	1.7 %	0 - 40
Benzo (b) fluoranthene (RPD)	0 %	0 - 40
7,12-Dimethylbenz (a) anthracene (RPD)	0 %	0 - 40
Benzo (k) fluoranthene (RPD)	0 %	0 - 40
Benzo (a) pyrene (RPD)	0 %	0 - 40
3-Methylcholanthrene (RPD)	0 %	0 - 40
Indeno (1,2,3-cd) pyrene (RPD)	200 %	0 - 40
Dibenzo (a,h) anthracene (RPD)	0 %	0 - 40
Benzo (g,h,i) perylene (RPD)	0 %	0 - 40
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	3/18/2014 5:15 PM	

<b>WS-014S</b>	<b>LIMS ID: 2014-0726</b>
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**Semi Volatiles - water MS**

**Run: 1**

<b>Parameter</b>	<b>Result</b>	<b>DL</b>	<b>RL</b>	<b>Accuracy Control</b>	<b>Precision Control</b>
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	3/17/2014 08:00				
2-Fluorophenol (% Recovery)	35.4 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	63.4 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	59.1 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	76.6 %			40 - 125	
Terphenyl-d14 (% Recovery)	82.8 %			40 - 125	
Phenol (% Recovery)	22.3 %			25 - 125	
2-Chlorophenol (% Recovery)	49.7 %			25 - 125	
1,4-Dichlorobenzene (% Recovery)	51.5 %			25 - 125	
N-Nitrosodi-n-propylamine (% Recovery)	67.2 %			25 - 125	
1,2,4-Trichlorobenzene (% Recovery)	54.5 %			25 - 125	



4-Chloro-3-methylphenol (% Recovery)	57.8 %	25 - 125
Acenaphthene (% Recovery)	51.2 %	25 - 125
4-Nitrophenol (% Recovery)	40.1 %	25 - 125
2,4-Dinitrotoluene (% Recovery)	56.2 %	25 - 125
Pentachlorophenol (% Recovery)	90.8 %	25 - 125
Pyrene (% Recovery)	73.7 %	25 - 125
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	3/18/2014 5:44 PM	

**WS-014S** **LIMS ID: 2014-0726**

**Semi Volatiles - water MSD**

**Run: 1**

<b>Parameter</b>	<b>Result</b>	<b>DL</b>	<b>RL</b>	<b>Accuracy Control</b>	<b>Precision Control</b>
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	3/17/2014 08:00				
2-Fluorophenol (% Recovery)	37.9 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	59.4 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	60.1 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	64.4 %			40 - 125	
Terphenyl-d14 (% Recovery)	83.4 %			40 - 125	
Phenol (% Recovery)	22.5 %			25 - 125	
Phenol (RPD)	0.9 %				0 - 40
2-Chlorophenol (% Recovery)	54.2 %			25 - 125	
2-Chlorophenol (RPD)	8.7 %				0 - 40
1,4-Dichlorobenzene (RPD)	6.9 %				0 - 40
1,4-Dichlorobenzene (% Recovery)	55.2 %			25 - 125	
N-Nitrosodi-n-propylamine (% Recovery)	62.9 %			25 - 125	
N-Nitrosodi-n-propylamine (RPD)	6.5 %				0 - 40
1,2,4-Trichlorobenzene (% Recovery)	50.0 %			25 - 125	
1,2,4-Trichlorobenzene (RPD)	8.7 %				0 - 40
4-Chloro-3-methylphenol (% Recovery)	50.8 %			25 - 125	
4-Chloro-3-methylphenol (RPD)	12.9 %				0 - 40
Acenaphthene (% Recovery)	56.1 %			25 - 125	
Acenaphthene (RPD)	9.2 %				0 - 40
4-Nitrophenol (% Recovery)	37.6 %			25 - 125	
4-Nitrophenol (RPD)	6.6 %				0 - 40
2,4-Dinitrotoluene (% Recovery)	57.3 %			25 - 125	

2,4-Dinitrotoluene (RPD)	1.9 %	0 - 40
Pentachlorophenol (% Recovery)	80.3 %	25 - 125
Pentachlorophenol (RPD)	12.2 %	0 - 40
Pyrene (% Recovery)	71.6 %	25 - 125
Pyrene (RPD)	2.9 %	0 - 40
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	3/18/2014 6:12 PM	

**MB** **LIMS ID: 14031811-MB-01**

**Semi Volatiles - water MB**

**Run: 1**

<b>Parameter</b>	<b>Result</b>	<b>DL</b>	<b>RL</b>	<b>Accuracy Control</b>	<b>Precision Control</b>
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	3/17/2014 08:00				
2-Fluorophenol (% Recovery)	45.3 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	85.7 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	84.1 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	91.8 %			40 - 125	
Terphenyl-d14 (% Recovery)	95.9 %			40 - 125	
Methyl Methanesulfonate	<0.2 ug/L	0.2	0.2		
Ethyl methanesulfonate	<0.2 ug/L	0.2	0.2		
Phenol	<0.2 ug/L	0.2	0.2		
Aniline	<0.2 ug/L	0.2	0.2		
Bis(2-chloroethyl)ether	<0.2 ug/L	0.2	0.2		
2-Chlorophenol	<0.2 ug/L	0.2	0.2		
1,3-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
1,4-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
Benzyl alcohol	<0.16 ug/L	0.16	0.16		
1,2-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
2-Methylphenol	<0.1 ug/L	0.1	0.1		
Acetophenone	<0.1 ug/L	0.1	0.1		
4-Methylphenol	<0.1 ug/L	0.1	0.1		
N-Nitrosodi-n-propylamine	<0.2 ug/L	0.2	0.2		
Hexachloroethane	<0.2 ug/L	0.2	0.2		
Nitrobenzene	<0.2 ug/L	0.2	0.2		
N-Nitrosopiperidine	<0.2 ug/L	0.2	0.2		
Isophorone	<0.1 ug/L	0.1	0.1		

2-Nitrophenol	<0.3 ug/L	0.3	0.3
2,4-Dimethylphenol	<0.1 ug/L	0.1	0.1
Bis(2-chloroethoxy)methane	<0.2 ug/L	0.2	0.2
2,4-Dichlorophenol	<0.2 ug/L	0.2	0.2
1,2,4-Trichlorobenzene	<0.12 ug/L	0.12	0.12
Naphthalene	<0.08 ug/L	0.08	0.08
4-Chloroaniline	<0.1 ug/L	0.1	0.1
2,6-Dichlorophenol	<0.2 ug/L	0.2	0.2
Hexachlorobutadiene	<0.2 ug/L	0.2	0.2
N-Nitrosodibutylamine	<0.2 ug/L	0.2	0.2
4-Chloro-3-methylphenol	<0.16 ug/L	0.16	0.16
2-Methylnaphthalene	<0.12 ug/L	0.12	0.12
1,2,4,5-Tetrachlorobenzene	<0.1 ug/L	0.1	0.1
Hexachlorocyclopentadiene	<0.16 ug/L	0.16	0.16
2,4,6-Trichlorophenol	<0.2 ug/L	0.2	0.2
2,4,5-Trichlorophenol	<0.2 ug/L	0.2	0.2
2-Chloronaphthalene	<0.1 ug/L	0.1	0.1
1-Chloronaphthalene	<0.1 ug/L	0.1	0.1
2-Nitroaniline	<0.2 ug/L	0.2	0.2
Dimethyl phthalate	<0.2 ug/L	0.2	0.2
2,6-Dinitrotoluene	<0.2 ug/L	0.2	0.2
Acenaphthylene	<0.08 ug/L	0.08	0.08
3-Nitroaniline	<0.2 ug/L	0.2	0.2
Acenaphthene	<0.1 ug/L	0.1	0.1
2,4-Dinitrophenol	<4 ug/L	4	4
Pentachlorobenzene	<0.12 ug/L	0.12	0.12
4-Nitrophenol	<2 ug/L	2	2
Dibenzofuran	<0.1 ug/L	0.1	0.1
2,4-Dinitrotoluene	<0.2 ug/L	0.2	0.2
2,3,4,6-Tetrachlorophenol	<0.6 ug/L	0.6	0.6
Diethyl phthalate	<0.2 ug/L	0.2	0.2
Fluorene	<0.1 ug/L	0.1	0.1
4-Chlorophenyl phenyl ether	<0.1 ug/L	0.1	0.1
4-Nitroaniline	<0.2 ug/L	0.2	0.2
4,6-Dinitro-2-methylphenol	<6 ug/L	6	6
Diphenylamine	<0.1 ug/L	0.1	0.1
Azobenzene	<0.08 ug/L	0.08	0.08
4-Bromophenyl phenyl ether	<0.2 ug/L	0.2	0.2
Hexachlorobenzene	<0.16 ug/L	0.16	0.16
Pentachlorophenol	<1 ug/L	1	1

Pentachloronitrobenzene	<0.2 ug/L	0.2	0.2
Pronamide	<0.2 ug/L	0.2	0.2
Phenanthrene	<0.08 ug/L	0.08	0.08
Anthracene	<0.08 ug/L	0.08	0.08
Carbazole	<0.1 ug/L	0.1	0.1
Di-n-butyl phthalate	0.809 ug/L	0.2	0.2
Fluoranthene	<0.08 ug/L	0.08	0.08
Pyrene	<0.08 ug/L	0.08	0.08
Dimethylaminoazobenzene	<0.2 ug/L	0.2	0.2
Butyl benzyl phthalate	<0.3 ug/L	0.3	0.3
Benzo (a) anthracene	<0.2 ug/L	0.2	0.2
Chrysene	<0.1 ug/L	0.1	0.1
Bis(2-ethylhexyl)phthalate	<0.3 ug/L	0.3	0.3
Di-n-octyl phthalate	<0.3 ug/L	0.3	0.3
Benzo (b) fluoranthene	<0.16 ug/L	0.16	0.16
7,12-Dimethylbenz (a) anthracene	<0.2 ug/L	0.2	0.2
Benzo (k) fluoranthene	<0.16 ug/L	0.16	0.16
Benzo (a) pyrene	<0.16 ug/L	0.16	0.16
3-Methylcholanthrene	<0.2 ug/L	0.2	0.2
Indeno (1,2,3-cd) pyrene	<0.2 ug/L	0.2	0.2
Dibenzo (a,h) anthracene	<0.16 ug/L	0.16	0.16
Benzo (g,h,i) perylene	<0.16 ug/L	0.16	0.16
Dilution Factor	1		
Analyzed By	Ed Harris		
Analysis Date/Time	3/18/2014 14:54		

**LCS** **LIMS ID: 14031811-LCS-01**

**Semi Volatiles - water LCS**

**Run: 1**

<b>Parameter</b>	<b>Result</b>	<b>DL</b>	<b>RL</b>	<b>Accuracy Control</b>	<b>Precision Control</b>
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	3/17/2014 08:00				
2-Fluorophenol (% Recovery)	47.1 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	86.9 %			50 - 125	
2-Fluorobiphenyl (% Recovery)	86.6 %			50 - 125	
2,4,6-Tribromophenol (% Recovery)	92.8 %			40 - 125	
Terphenyl-d14 (% Recovery)	91.9 %			50 - 125	
Methyl Methanesulfonate (% Recovery)	71.7 %			50 - 150	

Ethyl methanesulfonate (% Recovery)	98.3 %	50 - 150
Phenol (% Recovery)	38.4 %	50 - 150
Aniline (% Recovery)	49.2 %	50 - 150
Bis(2-chloroethyl)ether (% Recovery)	104 %	50 - 150
2-Chlorophenol (% Recovery)	90.3 %	50 - 150
1,3-Dichlorobenzene (% Recovery)	71.4 %	50 - 150
1,4-Dichlorobenzene (% Recovery)	72.5 %	50 - 150
Benzyl alcohol (% Recovery)	86.8 %	50 - 150
1,2-Dichlorobenzene (% Recovery)	76.2 %	50 - 150
2-Methylphenol (% Recovery)	83.7 %	50 - 150
Acetophenone (% Recovery)	99.1 %	50 - 150
4-Methylphenol (% Recovery)	74.6 %	50 - 150
N-Nitrosodi-n-propylamine (% Recovery)	107 %	50 - 150
Hexachloroethane (% Recovery)	55.0 %	50 - 150
Nitrobenzene (% Recovery)	92.8 %	50 - 150
N-Nitrosopiperidine (% Recovery)	99.8 %	50 - 150
Isophorone (% Recovery)	109 %	50 - 150
2-Nitrophenol (% Recovery)	96.3 %	50 - 150
2,4-Dimethylphenol (% Recovery)	7.5 %	50 - 150
Bis(2-chloroethoxy)methane (% Recovery)	89.6 %	50 - 150
2,4-Dichlorophenol (% Recovery)	96.1 %	50 - 150
1,2,4-Trichlorobenzene (% Recovery)	77.9 %	50 - 150
Naphthalene (% Recovery)	87.7 %	50 - 150
4-Chloroaniline (% Recovery)	73.8 %	50 - 150
2,6-Dichlorophenol (% Recovery)	94.7 %	50 - 150
Hexachlorobutadiene (% Recovery)	57.3 %	50 - 150
N-Nitrosodibutylamine (% Recovery)	112 %	50 - 150
4-Chloro-3-methylphenol (% Recovery)	95.6 %	50 - 150
2-Methylnaphthalene (% Recovery)	85.3 %	50 - 150
1,2,4,5-Tetrachlorobenzene (% Recovery)	84.0 %	50 - 150
Hexachlorocyclopentadiene (% Recovery)	32.9 %	50 - 150
2,4,6-Trichlorophenol (% Recovery)	117 %	50 - 150
2,4,5-Trichlorophenol (% Recovery)	106 %	50 - 150
2-Chloronaphthalene (% Recovery)	97.5 %	50 - 150
1-Chloronaphthalene (% Recovery)	96.2 %	50 - 150
2-Nitroaniline (% Recovery)	112 %	50 - 150
Dimethyl phthalate (% Recovery)	101 %	50 - 150
2,6-Dinitrotoluene (% Recovery)	112 %	50 - 150
Acenaphthylene (% Recovery)	107 %	50 - 150
3-Nitroaniline (% Recovery)	113 %	50 - 150

Acenaphthene (% Recovery)	102 %	50 - 150
2,4-Dinitrophenol (% Recovery)	111 %	50 - 150
Pentachlorobenzene (% Recovery)	88.5 %	50 - 150
4-Nitrophenol (% Recovery)	46.3 %	50 - 150
Dibenzofuran (% Recovery)	101 %	50 - 150
2,4-Dinitrotoluene (% Recovery)	110 %	50 - 150
2,3,4,6-Tetrachlorophenol (% Recovery)	126 %	50 - 150
Diethyl phthalate (% Recovery)	109 %	50 - 150
Fluorene (% Recovery)	101 %	50 - 150
4-Chlorophenyl phenyl ether (% Recovery)	102 %	50 - 150
4-Nitroaniline (% Recovery)	116 %	50 - 150
4,6-Dinitro-2-methylphenol (% Recovery)	96.5 %	50 - 150
Diphenylamine (% Recovery)	92.9 %	50 - 150
Azobenzene (% Recovery)	102 %	50 - 150
4-Bromophenyl phenyl ether (% Recovery)	102 %	50 - 150
Hexachlorobenzene (% Recovery)	89.5 %	50 - 150
Pentachlorophenol (% Recovery)	102 %	50 - 150
Pentachloronitrobenzene (% Recovery)	102 %	50 - 150
Pronamide (% Recovery)	108 %	50 - 150
Phenanthrene (% Recovery)	95.4 %	50 - 150
Anthracene (% Recovery)	96.2 %	50 - 150
Carbazole (% Recovery)	108 %	50 - 150
Di-n-butyl phthalate (% Recovery)	123 %	50 - 150
Fluoranthene (% Recovery)	102 %	50 - 150
Pyrene (% Recovery)	97.1 %	50 - 150
Dimethylaminoazobenzene (% Recovery)	137 %	50 - 150
Butyl benzyl phthalate (% Recovery)	127 %	50 - 150
Benzo (a) anthracene (% Recovery)	110 %	50 - 150
Chrysene (% Recovery)	103 %	50 - 150
Bis(2-ethylhexyl)phthalate (% Recovery)	140 %	50 - 150
Di-n-octyl phthalate (% Recovery)	153 %	50 - 150
Benzo (b) fluoranthene (% Recovery)	105 %	50 - 150
7,12-Dimethylbenz (a) anthracene (% Recovery)	88.2 %	50 - 150
Benzo (k) fluoranthene (% Recovery)	92.5 %	50 - 150
Benzo (a) pyrene (% Recovery)	97.0 %	50 - 150
3-Methylcholanthrene (% Recovery)	99.1 %	50 - 150
Indeno (1,2,3-cd) pyrene (% Recovery)	68.8 %	50 - 150
Dibenzo (a,h) anthracene (% Recovery)	68.0 %	50 - 150
Benzo (g,h,i) perylene (% Recovery)	60.6 %	50 - 150
Dilution Factor	1	

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Analyzed By	Ed Harris
Analysis Date/Time	3/18/2014 15:22

## Analytical Quality Control Results Report

<b>Batch: 14031406</b>	<b>VOA - water</b>
<b>WS-014S</b>	<b>LIMS ID: 2014-0726</b>

*Volatiles - water DUP*

*Run: 1*

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Dibromofluoromethane (% Recovery)	104 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	96.2 %			70 - 130	
Toluene-d8 (% Recovery)	98.5 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	111 %			70 - 130	
Dichlorodifluoromethane (RPD)	0 %				0 - 20
Chloromethane (RPD)	0 %				0 - 20
Vinyl chloride (RPD)	0 %				0 - 20
Bromomethane (RPD)	0 %				0 - 20
Chloroethane (RPD)	0 %				0 - 20
Trichlorofluoromethane (RPD)	0 %				0 - 20
1,1-Dichloroethene (RPD)	0 %				0 - 20
Acetone (RPD)	0 %				0 - 20
Methylene chloride (RPD)	6.7 %				0 - 20
Methyl tert-butyl ether (RPD)	0 %				0 - 20
trans-1,2-Dichloroethene (RPD)	0 %				0 - 20
1,1-Dichloroethane (RPD)	0 %				0 - 20
Methyl ethyl ketone (RPD)	0 %				0 - 20
cis-1,2-Dichloroethene (RPD)	0 %				0 - 20
2,2-Dichloropropane (RPD)	0 %				0 - 20
Bromochloromethane (RPD)	0 %				0 - 20
Chloroform (RPD)	0 %				0 - 20
1,1,1-Trichloroethane (RPD)	0 %				0 - 20
1,1-Dichloropropene (RPD)	0 %				0 - 20
Carbon tetrachloride (RPD)	0 %				0 - 20
Benzene (RPD)	0 %				0 - 20
1,2-Dichloroethane (RPD)	0 %				0 - 20
Trichloroethene (RPD)	0 %				0 - 20
1,2-Dichloropropane (RPD)	0 %				0 - 20
Dibromomethane (RPD)	0 %				0 - 20
Bromodichloromethane (RPD)	0 %				0 - 20
cis-1,3-Dichloropropene (RPD)	0 %				0 - 20
Methyl isobutyl ketone (RPD)	0 %				0 - 20
Toluene (RPD)	0 %				0 - 20



trans-1,3-Dichloropropene (RPD)	0 %	0 - 20
1,1,2-Trichloroethane (RPD)	0 %	0 - 20
2-Hexanone (RPD)	0 %	0 - 20
Tetrachloroethene (RPD)	0 %	0 - 20
1,3-Dichloropropane (RPD)	0 %	0 - 20
Dibromochloromethane (RPD)	0 %	0 - 20
1,2-Dibromoethane (EDB) (RPD)	0 %	0 - 20
Chlorobenzene (RPD)	0 %	0 - 20
Ethylbenzene (RPD)	0 %	0 - 20
1,1,1,2-Tetrachloroethane (RPD)	0 %	0 - 20
m,p-Xylene (RPD)	0 %	0 - 20
o-Xylene (RPD)	0 %	0 - 20
Styrene (RPD)	0 %	0 - 20
Bromoform (RPD)	0 %	0 - 20
Isopropylbenzene (RPD)	0 %	0 - 20
1,1,1,2-Tetrachloroethane (RPD)	0 %	0 - 20
1,2,3-Trichloropropane (RPD)	0 %	0 - 20
n-Propylbenzene (RPD)	0 %	0 - 20
Bromobenzene (RPD)	0 %	0 - 20
1,3,5-Trimethylbenzene (RPD)	0 %	0 - 20
2-Chlorotoluene (RPD)	0 %	0 - 20
4-Chlorotoluene (RPD)	0 %	0 - 20
tert-Butylbenzene (RPD)	0 %	0 - 20
1,2,4-Trimethylbenzene (RPD)	0 %	0 - 20
sec-Butylbenzene (RPD)	0 %	0 - 20
p-Isopropyltoluene (RPD)	0 %	0 - 20
1,3-Dichlorobenzene (RPD)	0 %	0 - 20
1,4-Dichlorobenzene (RPD)	0 %	0 - 20
n-Butylbenzene (RPD)	0 %	0 - 20
1,2-Dichlorobenzene (RPD)	0 %	0 - 20
1,2-Dibromo-3-chloropropane (RPD)	0 %	0 - 20
1,2,4-Trichlorobenzene (RPD)	0 %	0 - 20
Hexachlorobutadiene (RPD)	0 %	0 - 20
Naphthalene (RPD)	0 %	0 - 20
1,2,3-Trichlorobenzene (RPD)	0 %	0 - 20
Dilution Factor	1	
Analyzed By	Jeff Ruehr	
Analysis Date/Time	3/14/2014 1:46 AM	

**Volatiles - water MS**

**Run: 1**

<b>Parameter</b>	<b>Result</b>	<b>DL</b>	<b>RL</b>	<b>Accuracy Control</b>	<b>Precision Control</b>
Dibromofluoromethane (% Recovery)	104 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	98.9 %			70 - 130	
Toluene-d8 (% Recovery)	96.5 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	104 %			70 - 130	
1,1-Dichloroethene (% Recovery)	107 %			70 - 130	
Benzene (% Recovery)	99.7 %			70 - 130	
Trichloroethene (% Recovery)	99.1 %			70 - 130	
Toluene (% Recovery)	88.8 %			70 - 130	
Chlorobenzene (% Recovery)	96.1 %			70 - 130	
Dilution Factor	1				
Analyzed By	Jeff Ruehr				
Analysis Date/Time	3/14/2014 2:12 AM				

**WS-014S** **LIMS ID: 2014-0726**

**Volatiles - water MSD**

**Run: 1**

<b>Parameter</b>	<b>Result</b>	<b>DL</b>	<b>RL</b>	<b>Accuracy Control</b>	<b>Precision Control</b>
Dibromofluoromethane (% Recovery)	104 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	97.8 %			70 - 130	
Toluene-d8 (% Recovery)	96.9 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	102 %			70 - 130	
1,1-Dichloroethene (% Recovery)	110 %			70 - 130	
1,1-Dichloroethene (RPD)	2.8 %				0 - 20
Benzene (RPD)	3.3 %				0 - 20
Benzene (% Recovery)	103 %			70 - 130	
Trichloroethene (% Recovery)	101 %			70 - 130	
Trichloroethene (RPD)	2.2 %				0 - 20
Toluene (RPD)	3.1 %				0 - 20
Toluene (% Recovery)	91.6 %			70 - 130	
Chlorobenzene (% Recovery)	100 %			70 - 130	
Chlorobenzene (RPD)	4.3 %				0 - 20
Dilution Factor	1				
Analyzed By	Jeff Ruehr				
Analysis Date/Time	3/14/2014 2:37 AM				

**LCS** **LIMS ID: 14031406-LCS-01**

**Volatiles - water LCS**

**Run: 1**

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Dibromofluoromethane (% Recovery)	102 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	99.7 %			70 - 130	
Toluene-d8 (% Recovery)	101 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	110 %			70 - 130	
Dichlorodifluoromethane (% Recovery)	83.1 %			60 - 130	
Chloromethane (% Recovery)	91.9 %			60 - 130	
Vinyl chloride (% Recovery)	92.6 %			60 - 130	
Bromomethane (% Recovery)	99.2 %			60 - 130	
Chloroethane (% Recovery)	102 %			60 - 130	
Trichlorofluoromethane (% Recovery)	98.4 %			60 - 130	
1,1-Dichloroethene (% Recovery)	97.7 %			60 - 130	
Acetone (% Recovery)	109 %			60 - 130	
Methylene chloride (% Recovery)	220 %			60 - 130	
Methyl tert-butyl ether (% Recovery)	95.9 %			60 - 130	
trans-1,2-Dichloroethene (% Recovery)	100 %			60 - 130	
1,1-Dichloroethane (% Recovery)	95.9 %			60 - 130	
Methyl ethyl ketone (% Recovery)	96.5 %			60 - 130	
cis-1,2-Dichloroethene (% Recovery)	102 %			60 - 130	
2,2-Dichloropropane (% Recovery)	113 %			60 - 130	
Bromochloromethane (% Recovery)	99.2 %			60 - 130	
Chloroform (% Recovery)	98.0 %			60 - 130	
1,1,1-Trichloroethane (% Recovery)	100 %			60 - 130	
1,1-Dichloropropene (% Recovery)	100 %			60 - 130	
Carbon tetrachloride (% Recovery)	98.3 %			60 - 130	
Benzene (% Recovery)	96.2 %			60 - 130	
1,2-Dichloroethane (% Recovery)	99.7 %			60 - 130	
Trichloroethene (% Recovery)	99.9 %			60 - 130	
1,2-Dichloropropane (% Recovery)	96.6 %			60 - 130	
Dibromomethane (% Recovery)	96.8 %			60 - 130	
Bromodichloromethane (% Recovery)	96.8 %			60 - 130	
cis-1,3-Dichloropropene (% Recovery)	98.6 %			60 - 130	
Methyl isobutyl ketone (% Recovery)	95.6 %			60 - 130	
Toluene (% Recovery)	98.1 %			60 - 130	
trans-1,3-Dichloropropene (% Recovery)	98.4 %			60 - 130	
1,1,2-Trichloroethane (% Recovery)	94.9 %			60 - 130	
2-Hexanone (% Recovery)	98.6 %			60 - 130	
Tetrachloroethene (% Recovery)	99.9 %			60 - 130	
1,3-Dichloropropane (% Recovery)	94.5 %			60 - 130	
Dibromochloromethane (% Recovery)	95.1 %			60 - 130	

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1,2-Dibromoethane (EDB) (% Recovery)	93.9 %	60 - 130
Chlorobenzene (% Recovery)	99.7 %	60 - 130
Ethylbenzene (% Recovery)	97.8 %	60 - 130
1,1,1,2-Tetrachloroethane (% Recovery)	95.4 %	60 - 130
m,p-Xylene (% Recovery)	98.5 %	60 - 130
o-Xylene (% Recovery)	97.7 %	60 - 130
Styrene (% Recovery)	95.3 %	60 - 130
Bromoform (% Recovery)	97.1 %	60 - 130
Isopropylbenzene (% Recovery)	103 %	60 - 130
1,1,1,2-Tetrachloroethane (% Recovery)	101 %	60 - 130
1,2,3-Trichloropropane (% Recovery)	97.3 %	60 - 130
n-Propylbenzene (% Recovery)	103 %	60 - 130
Bromobenzene (% Recovery)	100 %	60 - 130
1,3,5-Trimethylbenzene (% Recovery)	106 %	60 - 130
2-Chlorotoluene (% Recovery)	106 %	60 - 130
4-Chlorotoluene (% Recovery)	103 %	60 - 130
tert-Butylbenzene (% Recovery)	103 %	60 - 130
1,2,4-Trimethylbenzene (% Recovery)	105 %	60 - 130
sec-Butylbenzene (% Recovery)	109 %	60 - 130
p-Isopropyltoluene (% Recovery)	105 %	60 - 130
1,3-Dichlorobenzene (% Recovery)	107 %	60 - 130
1,4-Dichlorobenzene (% Recovery)	104 %	60 - 130
n-Butylbenzene (% Recovery)	106 %	60 - 130
1,2-Dichlorobenzene (% Recovery)	103 %	60 - 130
1,2-Dibromo-3-chloropropane (% Recovery)	103 %	60 - 130
1,2,4-Trichlorobenzene (% Recovery)	105 %	60 - 130
Hexachlorobutadiene (% Recovery)	113 %	60 - 130
Naphthalene (% Recovery)	98.9 %	60 - 130
1,2,3-Trichlorobenzene (% Recovery)	102 %	60 - 130
Dilution Factor	1	
Analyzed By	Jeff Ruehr	
Analysis Date/Time	3/13/2014 14:24	

## Analytical Quality Control Results Report

<b>Batch: 14031805</b>	<b>ICP Metals - water (total)</b>
<b>WS-014S</b>	<b>LIMS ID: 2014-0726</b>

*ICP Metals - water (Total) DUP*

*Run: 1*

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Aluminum	306 ug/L	20	20		
Aluminum (RPD)	4.0 %				0 - 20
Antimony (RPD)	0 %				0 - 20
Antimony	<10 ug/L	5	10		
Arsenic (RPD)	3.3 %				0 - 20
Arsenic	<1 ug/L	0.5	1		
Barium	15.2 ug/L	2	10		
Barium (RPD)	2.2 %				0 - 20
Beryllium (RPD)	14.3 %				0 - 20
Beryllium	<0.5 ug/L	0.1	0.5		
Boron	<25 ug/L	5	25		
Boron (RPD)	0.2 %				0 - 20
Cadmium (RPD)	200 %				0 - 20
Cadmium	<1 ug/L	0.3	1		
Calcium	3.22 mg/L	0.04	0.04		
Calcium (RPD)	0.6 %				0 - 20
Chromium (RPD)	2.7 %				0 - 20
Chromium	<1 ug/L	0.3	1		
Cobalt	<1 ug/L	0.5	1		
Cobalt (RPD)	4.7 %				0 - 20
Copper (RPD)	8.2 %				0 - 20
Copper	<1 ug/L	0.5	1		
Iron	488 ug/L	10	20		
Iron (RPD)	2.8 %				0 - 20
Lead (RPD)	1.3 %				0 - 20
Lead	<1 ug/L	0.1	1		
Magnesium	1.56 mg/L	0.1	0.1		
Magnesium (RPD)	0.1 %				0 - 20
Manganese	47 ug/L	0.2	1		
Manganese (RPD)	3.4 %				0 - 20
Nickel (RPD)	5.8 %				0 - 20
Nickel	<2.5 ug/L	0.5	2.5		
Potassium	2.28 mg/L	0.05	1		

Potassium (RPD)	0.1 %			0 - 20
Selenium (RPD)	13.2 %			0 - 20
Selenium	<2 ug/L	0.5	2	
Silver	<5 ug/L	1	5	
Silver (RPD)	0 %			0 - 20
Sodium	5.71 mg/L	0.02	0.04	
Sodium (RPD)	0.4 %			0 - 20
Thallium (RPD)	0 %			0 - 20
Thallium	<2.5 ug/L	0.05	2.5	
Vanadium (RPD)	5.7 %			0 - 20
Vanadium	<2.5 ug/L	1	2.5	
Zinc	<3 ug/L	2	3	
Zinc (RPD)	3.9 %			0 - 20
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Mar 17 2014 5:22PM			

<b>WS-014S</b>	<b>LIMS ID: 2014-0726</b>
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**ICP Metals - water (Total) MS**

Run: 1

<b>Parameter</b>	<b>Result</b>	<b>DL</b>	<b>RL</b>	<b>Accuracy Control</b>	<b>Precision Control</b>
Aluminum (% Recovery)	98.2 %			70 - 130	
Antimony (% Recovery)	87.2 %			70 - 130	
Arsenic (% Recovery)	89.4 %			70 - 130	
Barium (% Recovery)	88.2 %			70 - 130	
Beryllium (% Recovery)	92.1 %			70 - 130	
Boron (% Recovery)	97.4 %			70 - 130	
Cadmium (% Recovery)	92.4 %			70 - 130	
Calcium (% Recovery)	91.9 %			70 - 130	
Chromium (% Recovery)	85.8 %			70 - 130	
Cobalt (% Recovery)	86.1 %			70 - 130	
Copper (% Recovery)	86.7 %			70 - 130	
Iron (% Recovery)	80.9 %			70 - 130	
Lead (% Recovery)	88.5 %			70 - 130	
Magnesium (% Recovery)	88.7 %			70 - 130	
Manganese (% Recovery)	81 %			70 - 130	
Nickel (% Recovery)	86 %			70 - 130	
Potassium (% Recovery)	92.1 %			70 - 130	
Selenium (% Recovery)	101 %			70 - 130	
Silver (% Recovery)	83.4 %			70 - 130	

Sodium (% Recovery)	87.3 %	70 - 130
Thallium (% Recovery)	88.7 %	70 - 130
Vanadium (% Recovery)	86.6 %	70 - 130
Zinc (% Recovery)	91.9 %	70 - 130
Dilution Factor	1	
Analyzed By	Robert Graddy	
Analysis Date/Time	Mar 17 2014 5:28PM	

**WS-014S** **LIMS ID: 2014-0726**

**ICP Metals - water (Total) MSD**

**Run: 1**

<b>Parameter</b>	<b>Result</b>	<b>DL</b>	<b>RL</b>	<b>Accuracy Control</b>	<b>Precision Control</b>
Aluminum (% Recovery)	96.7 %			70 - 130	
Aluminum (RPD)	0.8 %				0 - 20
Antimony (% Recovery)	88.1 %			70 - 130	
Antimony (RPD)	1.0 %				0 - 20
Arsenic (% Recovery)	91.4 %			70 - 130	
Arsenic (RPD)	2.1 %				0 - 20
Barium (% Recovery)	88.8 %			70 - 130	
Barium (RPD)	0.6 %				0 - 20
Beryllium (% Recovery)	92.7 %			70 - 130	
Beryllium (RPD)	0.6 %				0 - 20
Boron (% Recovery)	97.5 %			70 - 130	
Boron (RPD)	0.1 %				0 - 20
Cadmium (% Recovery)	92.9 %			70 - 130	
Cadmium (RPD)	0.5 %				0 - 20
Calcium (% Recovery)	90.4 %			70 - 130	
Calcium (RPD)	1.2 %				0 - 20
Chromium (% Recovery)	86.2 %			70 - 130	
Chromium (RPD)	0.5 %				0 - 20
Cobalt (% Recovery)	86.5 %			70 - 130	
Cobalt (RPD)	0.5 %				0 - 20
Copper (% Recovery)	87.3 %			70 - 130	
Copper (RPD)	0.7 %				0 - 20
Iron (% Recovery)	86.0 %			70 - 130	
Iron (RPD)	1.6 %				0 - 20
Lead (% Recovery)	89.2 %			70 - 130	
Lead (RPD)	0.7 %				0 - 20
Magnesium (% Recovery)	88.8 %			70 - 130	
Magnesium (RPD)	0.1 %				0 - 20

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Manganese (% Recovery)	84 %	70 - 130	
Manganese (RPD)	1.2 %		0 - 20
Nickel (% Recovery)	86 %	70 - 130	
Nickel (RPD)	0.8 %		0 - 20
Potassium (% Recovery)	90.7 %	70 - 130	
Potassium (RPD)	1.2 %		0 - 20
Selenium (% Recovery)	101 %	70 - 130	
Selenium (RPD)	0.5 %		0 - 20
Silver (% Recovery)	84.2 %	70 - 130	
Silver (RPD)	1.0 %		0 - 20
Sodium (% Recovery)	87.3 %	70 - 130	
Sodium (RPD)	0 %		0 - 20
Thallium (% Recovery)	89.0 %	70 - 130	
Thallium (RPD)	0.3 %		0 - 20
Vanadium (% Recovery)	87.1 %	70 - 130	
Vanadium (RPD)	0.5 %		0 - 20
Zinc (% Recovery)	92.4 %	70 - 130	
Zinc (RPD)	0.5 %		0 - 20
Dilution Factor	1		
Analysis Date/Time	Mar 17 2014 5:35PM		
Analyzed By	Robert Graddy		



## Analytical Quality Control Results Report

<b>Batch: 14031804</b>	<b>ICP Metals - water (Diss.)</b>
<b>WS-014S</b>	<b>LIMS ID: 2014-0726</b>

*ICP Metals - water (Dissolved) DUP*

*Run: 1*

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Aluminum	79.9 ug/L	20	20		
Aluminum (RPD)	9.2 %				0 - 20
Antimony (RPD)	0 %				0 - 20
Antimony	<5 ug/L	1	5		
Arsenic	<0.5 ug/L	0.2	0.5		
Arsenic (RPD)	10.8 %				0 - 20
Barium (RPD)	1.6 %				0 - 20
Barium	11.9 ug/L	0.4	2		
Beryllium (RPD)	0 %				0 - 20
Beryllium	<0.1 ug/L	0.04	0.1		
Boron	13.9 ug/L	2	5		
Boron (RPD)	1.2 %				0 - 20
Cadmium (RPD)	0 %				0 - 20
Cadmium	<0.1 ug/L	0.05	0.1		
Calcium	3.01 mg/L	0.03	0.03		
Calcium (RPD)	0.7 %				0 - 20
Chromium (RPD)	7.9 %				0 - 20
Chromium	<0.5 ug/L	0.05	0.5		
Cobalt	<0.5 ug/L	0.05	0.5		
Cobalt (RPD)	0 %				0 - 20
Copper (RPD)	1.4 %				0 - 20
Copper	0.58 ug/L	0.2	0.5		
Iron	108 ug/L	5	20		
Iron (RPD)	3.6 %				0 - 20
Lead (RPD)	2.1 %				0 - 20
Lead	<0.3 ug/L	0.02	0.3		
Magnesium	1.46 mg/L	0.01	0.02		
Magnesium (RPD)	0.6 %				0 - 20
Manganese	3.7 ug/L	0.07	0.3		
Manganese (RPD)	3.0 %				0 - 20
Nickel (RPD)	12 %				0 - 20
Nickel	0.55 ug/L	0.15	0.5		
Potassium	2.10 mg/L	0.01	0.02		

Potassium (RPD)	0.9 %			0 - 20
Selenium (RPD)	14.6 %			0 - 20
Selenium	<1 ug/L	0.2	1	
Silicon Dioxide	3.20 mg/L	0.01	0.05	
Silicon Dioxide (RPD)	0.5 %			0 - 20
Silver	<0.5 ug/L	0.02	0.5	
Silver (RPD)	0 %			0 - 20
Sodium	5.48 mg/L	0.01	0.02	
Sodium (RPD)	0 %			0 - 20
Thallium	<0.5 ug/L	0	0.5	
Thallium (RPD)	0 %			0 - 20
Vanadium (RPD)	2.3 %			0 - 20
Vanadium	<0.5 ug/L	0.3	0.5	
Zinc	<1 ug/L	0.3	1	
Zinc (RPD)	3.2 %			0 - 20
Hardness	14 mg/L	1	1	
Hardness (RPD)	0 %			0 - 20
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Mar 17 2014 1:01PM			

<b>WS-014S</b>	<b>LIMS ID: 2014-0726</b>
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**ICP Metals - water (Dissolved) MS**

**Run: 1**

<b>Parameter</b>	<b>Result</b>	<b>DL</b>	<b>RL</b>	<b>Accuracy Control</b>	<b>Precision Control</b>
Aluminum (% Recovery)	84.2 %			70 - 130	
Antimony (% Recovery)	92.1 %			70 - 130	
Arsenic (% Recovery)	95.4 %			70 - 130	
Barium (% Recovery)	88.5 %			70 - 130	
Beryllium (% Recovery)	91.1 %			70 - 130	
Boron (% Recovery)	94.8 %			70 - 130	
Cadmium (% Recovery)	90.6 %			70 - 130	
Calcium (% Recovery)	86.0 %			70 - 130	
Chromium (% Recovery)	86.7 %			70 - 130	
Cobalt (% Recovery)	86.9 %			70 - 130	
Copper (% Recovery)	88.3 %			70 - 130	
Iron (% Recovery)	84.3 %			70 - 130	
Lead (% Recovery)	88.0 %			70 - 130	
Magnesium (% Recovery)	89.2 %			70 - 130	
Manganese (% Recovery)	85 %			70 - 130	

Nickel (% Recovery)	87 %	70 - 130
Potassium (% Recovery)	87.6 %	70 - 130
Selenium (% Recovery)	103 %	70 - 130
Silver (% Recovery)	84.9 %	70 - 130
Sodium (% Recovery)	90.1 %	70 - 130
Thallium (% Recovery)	86.4 %	70 - 130
Vanadium (% Recovery)	86.4 %	70 - 130
Zinc (% Recovery)	94.9 %	70 - 130
Dilution Factor	1	
Analyzed By	Robert Graddy	
Analysis Date/Time	Mar 17 2014 1:07PM	

<b>WS-014S</b>	<b>LIMS ID: 2014-0726</b>
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**ICP Metals - water (Dissolved) MSD**

**Run: 1**

<b>Parameter</b>	<b>Result</b>	<b>DL</b>	<b>RL</b>	<b>Accuracy Control</b>	<b>Precision Control</b>
Aluminum (% Recovery)	85.2 %			70 - 130	
Aluminum (RPD)	0.9 %				0 - 20
Antimony (% Recovery)	95.7 %			70 - 130	
Antimony (RPD)	3.9 %				0 - 20
Arsenic (% Recovery)	100 %			70 - 130	
Arsenic (RPD)	4.8 %				0 - 20
Barium (% Recovery)	88.9 %			70 - 130	
Barium (RPD)	0.4 %				0 - 20
Beryllium (% Recovery)	90.8 %			70 - 130	
Beryllium (RPD)	0.3 %				0 - 20
Boron (% Recovery)	96.0 %			70 - 130	
Boron (RPD)	1.2 %				0 - 20
Cadmium (% Recovery)	91.3 %			70 - 130	
Cadmium (RPD)	0.8 %				0 - 20
Calcium (% Recovery)	87.3 %			70 - 130	
Calcium (RPD)	1.1 %				0 - 20
Chromium (% Recovery)	85.0 %			70 - 130	
Chromium (RPD)	1.9 %				0 - 20
Cobalt (% Recovery)	86.4 %			70 - 130	
Cobalt (RPD)	0.6 %				0 - 20
Copper (% Recovery)	88.9 %			70 - 130	
Copper (RPD)	0.6 %				0 - 20
Iron (% Recovery)	83.6 %			70 - 130	
Iron (RPD)	0.5 %				0 - 20

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Lead (% Recovery)	86.4 %	70 - 130	
Lead (RPD)	1.8 %		0 - 20
Magnesium (% Recovery)	89.4 %	70 - 130	
Magnesium (RPD)	0.2 %		0 - 20
Manganese (% Recovery)	84 %	70 - 130	
Manganese (RPD)	0.9 %		0 - 20
Nickel (% Recovery)	87 %	70 - 130	
Nickel (RPD)	0 %		0 - 20
Potassium (% Recovery)	88.8 %	70 - 130	
Potassium (RPD)	1.1 %		0 - 20
Selenium (% Recovery)	101 %	70 - 130	
Selenium (RPD)	1.5 %		0 - 20
Silver (% Recovery)	85.0 %	70 - 130	
Silver (RPD)	0.1 %		0 - 20
Sodium (% Recovery)	92.3 %	70 - 130	
Sodium (RPD)	1.5 %		0 - 20
Thallium (% Recovery)	83.0 %	70 - 130	
Thallium (RPD)	4.0 %		0 - 20
Vanadium (% Recovery)	84.7 %	70 - 130	
Vanadium (RPD)	1.9 %		0 - 20
Zinc (% Recovery)	97.1 %	70 - 130	
Zinc (RPD)	2.2 %		0 - 20
Dilution Factor	1		
Analyzed By	Robert Graddy		
Analysis Date/Time	Mar 17 2014 1:14PM		

## Analytical Quality Control Results Report

<b>Batch: 14031806</b>	<b>Oil and Grease - water</b>
<b>WS-014S</b>	<b>LIMS ID: 2014-0726</b>

*Oil and Grease - water DUP*

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease	<2.5 mg/L	2.5	2.5		
Oil and Grease (RPD)	0 %				0 - 20
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	03/17/2014 1600				

<b>WS-014S</b>	<b>LIMS ID: 2014-0726</b>
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*Oil and Grease - water MS*

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease (% Recovery)	108 %			70 - 130	
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	03/17/2014 1600				

<b>WS-014S</b>	<b>LIMS ID: 2014-0726</b>
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*Oil and Grease - water MSD*

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease (% Recovery)	93.2 %			70 - 130	
Oil and Grease (RPD)	14.4 %				0 - 20
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	03/17/2014 1600				

<b>MB</b>	<b>LIMS ID: 14031806-MB-01</b>
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*Oil and Grease - water MB*

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease	<2.5 mg/L	2.5	2.5		
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	03/17/2014 1600				

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**LCS** **LIMS ID: 14031806-LCS-01**

**Oil and Grease - water LCS**

**Run: 1**

<b>Parameter</b>	<b>Result</b>	<b>DL</b>	<b>RL</b>	<b>Accuracy Control</b>	<b>Precision Control</b>
Oil and Grease (% Recovery)	95.7 %			70 - 130	
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	03/17/2014 1600				

## Analytical Quality Control Results Report

<b>Batch: 14031702</b>	<b>Turbidity - water</b>
<b>WS-014S</b>	<b>LIMS ID: 2014-0726</b>

*Turbidity - water DUP*

*Run: 1*

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Turbidity (RPD)	1.1 %				0 - 20
Turbidity	7.59 NTU	0.02	0.02		
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	3/14/2014 12:50				