



5301 Northshore Drive
North Little Rock, AR 72118
Telephone: 501-682-0744

Client Report For: Exxon Oil Spill 2013 1114-1124
Attention:
Client Address:

,

Report Date: April 15, 2013
LAB ID: AR13APR11-02
Comment:

Approved By: _____

Date: April 15, 2013

Client: Special Samples

Client Sample ID: WS-003

Lab ID: 2013-1114

Collection Date: 4/11/2013 9:07:00 AM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13041214 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	58.6	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.51	0.5	0.2		ug/L
Barium	13.6	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	12.6	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	4.96	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	0.63	0.5	0.2		ug/L
Iron	173	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.30	0.02	0.01		mg/L
Manganese	66.6	0.3	0.07		ug/L
Nickel	0.67	0.5	0.15		ug/L
Potassium	1.61	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.60	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.75	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	2.66	1	0.3		ug/L
Hardness	17.7	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 12 2013 9:28AM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13041215 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	352	20	20		ug/L
Antimony	<10	10	5		ug/L
Arsenic	<1	1	0.5		ug/L
Barium	17.4	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	4.67	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	746	20	10.0		ug/L
Lead	<1	1	0.1		ug/L
Magnesium	1.37	0.1	0.1		mg/L
Manganese	141	1	0.2		ug/L
Nickel	<2.5	2.5	0.5		ug/L
Potassium	1.64	1	0.05		mg/L
Selenium	<2	2	0.5		ug/L
Silver	<5	5	1.0		ug/L
Sodium	4.75	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	Apr 12 2013 12:38PM				
Prep By					
Prep Date/Time					

Client: Special Samples

Client Sample ID: WS-002

Lab ID: 2013-1115

Collection Date: 4/11/2013 10:23:00 AM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13041214 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	42.4	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	12.0	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	9.76	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	4.24	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	183	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.26	0.02	0.01		mg/L
Manganese	45.4	0.3	0.07		ug/L
Nickel	0.63	0.5	0.15		ug/L
Potassium	1.31	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.42	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	3.98	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	2.76	1	0.3		ug/L
Hardness	15.8	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 12 2013 2:07PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13041215 Run: 1

Result Reporting MDL Qual Unit

		<u>Limit</u>		
Aluminum	319	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	15.9	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	4.43	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	689	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.29	0.1	0.1	mg/L
Manganese	108	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.43	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	4.00	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	Apr 12 2013 12:44PM			
Prep By				
Prep Date/Time				

Client: Special Samples	Client Sample ID: WS-BKG-001
Lab ID: 2013-1116	Collection Date: 4/11/2013 10:53:00 AM
Matrix: Water	

Analyses

<i>Dissolved Metals by EPA 200.8</i>	<i>EPA 200.8</i>	<i>Batch: 13041214 Run: 1</i>			
	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	172	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	1.29	0.5	0.2		ug/L
Barium	22.5	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	13.1	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	7.07	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	0.65	0.5	0.05		ug/L
Copper	3.00	0.5	0.2		ug/L
Iron	338	20	5.0		ug/L
Lead	0.38	0.3	0.02		ug/L
Magnesium	1.67	0.02	0.01		mg/L
Manganese	40.6	0.3	0.07		ug/L
Nickel	1.62	0.5	0.15		ug/L
Potassium	1.48	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	7.61	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	3.90	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	0.67	0.5	0.3		ug/L
Zinc	12.0	1	0.3		ug/L
Hardness	24.5	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 12 2013 10:00AM				

<i>Total Metals by EPA 200.8</i>	<i>EPA 200.8</i>	<i>Batch: 13041215 Run: 1</i>			
	<u>Result</u>	<u>Reporting</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>

		<u>Limit</u>		
Aluminum	706	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	1.42	1	0.5	ug/L
Barium	26.1	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	7.74	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	3.30	1	0.5	ug/L
Iron	719	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.75	0.1	0.1	mg/L
Manganese	47.7	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.55	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	3.94	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	12.6	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 12 2013 1:09PM			
Prep By				
Prep Date/Time				

Client: Special Samples

Client Sample ID: WS-005

Lab ID: 2013-1117

Collection Date: 4/11/2013 12:28:00 PM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13041214 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	55.4	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	11.5	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	11.5	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	4.44	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	0.75	0.5	0.2		ug/L
Iron	192	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.38	0.02	0.01		mg/L
Manganese	43.7	0.3	0.07		ug/L
Nickel	0.74	0.5	0.15		ug/L
Potassium	1.66	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.34	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.84	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	2.14	1	0.3		ug/L
Hardness	16.7	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 12 2013 10:06AM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13041215 Run: 1

Result Reporting MDL Qual Unit

		<u>Limit</u>		
Aluminum	381	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	15.4	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	4.08	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	728	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.44	0.1	0.1	mg/L
Manganese	106	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.71	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	4.93	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	Apr 12 2013 1:16PM			
Prep By				
Prep Date/Time				

Client: Special Samples

Client Sample ID: WS-001

Lab ID: 2013-1118

Collection Date: 4/11/2013 1:17:00 PM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13041214 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	81.4	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.68	0.5	0.2		ug/L
Barium	13.6	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	11.1	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	4.97	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	0.80	0.5	0.2		ug/L
Iron	318	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.35	0.02	0.01		mg/L
Manganese	153	0.3	0.07		ug/L
Nickel	0.9	0.5	0.15		ug/L
Potassium	1.55	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.83	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.71	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	4.38	1	0.3		ug/L
Hardness	18.0	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 12 2013 10:12AM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13041215 Run: 1

Result Reporting MDL Qual Unit

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

		<u>Limit</u>		
Aluminum	1010	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	1.01	1	0.5	ug/L
Barium	20.8	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	5.57	0.04	0.04	mg/L
Chromium	1.59	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	1.22	1	0.5	ug/L
Iron	1300	20	10.0	ug/L
Lead	1.17	1	0.1	ug/L
Magnesium	1.45	0.1	0.1	mg/L
Manganese	221	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.73	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	4.75	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	6.34	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 12 2013 1:35PM			
Prep By				
Prep Date/Time				

Client: Special Samples	Client Sample ID: WS-004
Lab ID: 2013-1119	Collection Date: 4/11/2013 1:40:00 PM
Matrix: Water	

Analyses

<i>Dissolved Metals by EPA 200.8</i>	<i>EPA 200.8</i>	<i>Batch: 13041214 Run: 1</i>			
	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	242	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	1.69	0.5	0.2		ug/L
Barium	19.5	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	8.58	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	4.35	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	1.91	0.5	0.05		ug/L
Copper	2.13	0.5	0.2		ug/L
Iron	549	20	5.0		ug/L
Lead	0.49	0.3	0.02		ug/L
Magnesium	1.40	0.02	0.01		mg/L
Manganese	469	0.3	0.07		ug/L
Nickel	2.06	0.5	0.15		ug/L
Potassium	1.69	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	4.36	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	3.40	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	0.85	0.5	0.3		ug/L
Zinc	11.8	1	0.3		ug/L
Hardness	16.6	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 12 2013 10:19AM				

<i>Total Metals by EPA 200.8</i>	<i>EPA 200.8</i>	<i>Batch: 13041215 Run: 1</i>			
	<u>Result</u>	<u>Reporting</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>

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

		<u>Limit</u>		
Aluminum	2630	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	2.74	1	0.5	ug/L
Barium	55.0	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	5.26	0.04	0.04	mg/L
Chromium	2.79	1	0.3	ug/L
Cobalt	3.71	1	0.5	ug/L
Copper	4.05	1	0.5	ug/L
Iron	4280	20	10.0	ug/L
Lead	6.89	1	0.1	ug/L
Magnesium	1.89	0.1	0.1	mg/L
Manganese	593	1	0.2	ug/L
Nickel	4.94	2.5	0.5	ug/L
Potassium	1.90	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	3.41	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	4.83	2.5	1.0	ug/L
Zinc	31.8	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 12 2013 1:41PM			
Prep By				
Prep Date/Time				

Client: Special Samples

Client Sample ID: WS-007

Lab ID: 2013-1120

Collection Date: 4/11/2013 2:17:00 PM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13041214 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	262	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	1.71	0.5	0.2		ug/L
Barium	19.5	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	8.37	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	4.76	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	1.93	0.5	0.05		ug/L
Copper	2.03	0.5	0.2		ug/L
Iron	511	20	5.0		ug/L
Lead	0.47	0.3	0.02		ug/L
Magnesium	1.36	0.02	0.01		mg/L
Manganese	460	0.3	0.07		ug/L
Nickel	2.06	0.5	0.15		ug/L
Potassium	1.63	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	4.48	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	3.44	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	0.70	0.5	0.3		ug/L
Zinc	12.8	1	0.3		ug/L
Hardness	17.5	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 12 2013 10:38AM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13041215 Run: 1

Result Reporting MDL Qual Unit

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

		<u>Limit</u>		
Aluminum	3050	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	3.18	1	0.5	ug/L
Barium	62.4	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	3.63	0.04	0.04	mg/L
Chromium	3.19	1	0.3	ug/L
Cobalt	4.06	1	0.5	ug/L
Copper	4.43	1	0.5	ug/L
Iron	4740	20	10.0	ug/L
Lead	7.70	1	0.1	ug/L
Magnesium	1.92	0.1	0.1	mg/L
Manganese	624	1	0.2	ug/L
Nickel	5.08	2.5	0.5	ug/L
Potassium	1.92	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	3.48	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	5.52	2.5	1.0	ug/L
Zinc	35.8	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 12 2013 1:48PM			
Prep By				
Prep Date/Time				

Client: Special Samples

Client Sample ID: WS-006

Lab ID: 2013-1121

Collection Date: 4/11/2013 2:54:00 PM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13041214 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	73.8	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.86	0.5	0.2		ug/L
Barium	13.3	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	11	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	4.13	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	0.94	0.5	0.2		ug/L
Iron	308	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.43	0.02	0.01		mg/L
Manganese	148	0.3	0.07		ug/L
Nickel	0.96	0.5	0.15		ug/L
Potassium	1.55	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	2.82	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.82	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	3.37	1	0.3		ug/L
Hardness	16.2	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 12 2013 10:44AM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13041215 Run: 1

Result Reporting MDL Qual Unit

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

Laboratory Contact: Jeff Ruehr
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 501-682-0955

		<u>Limit</u>		
Aluminum	899	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	1.17	1	0.5	ug/L
Barium	19.8	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	4.17	0.04	0.04	mg/L
Chromium	1.08	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	1.24	1	0.5	ug/L
Iron	1260	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	1.50	0.1	0.1	mg/L
Manganese	216	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	1.69	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	4.88	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	6.00	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 12 2013 1:54PM			
Prep By				
Prep Date/Time				

Client: Special Samples

Client Sample ID: WS-008

Lab ID: 2013-1122

Collection Date: 4/11/2013 3:42:00 PM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13041214 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	170	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.76	0.5	0.2		ug/L
Barium	15.3	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	10.5	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	5.20	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	2.57	0.5	0.05		ug/L
Copper	2.42	0.5	0.2		ug/L
Iron	350	20	5.0		ug/L
Lead	0.36	0.3	0.02		ug/L
Magnesium	1.82	0.02	0.01		mg/L
Manganese	544	0.3	0.07		ug/L
Nickel	2.60	0.5	0.15		ug/L
Potassium	1.22	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	8.54	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	4.42	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	0.64	0.5	0.3		ug/L
Zinc	10.8	1	0.3		ug/L
Hardness	20.5	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 12 2013 10:51AM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13041215 Run: 1

Result Reporting MDL Qual Unit

		<u>Limit</u>		
Antimony	<10	10	5	ug/L
Arsenic	7.65	1	0.5	ug/L
Barium	229	10	2.0	ug/L
Beryllium	1.71	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	6.10	0.04	0.04	mg/L
Chromium	27.6	1	0.3	ug/L
Cobalt	23.7	1	0.5	ug/L
Copper	16.9	1	0.5	ug/L
Lead	51.3	1	0.1	ug/L
Magnesium	6.5	0.1	0.1	mg/L
Nickel	34.1	2.5	0.5	ug/L
Potassium	2.67	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	4.42	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	22.2	2.5	1.0	ug/L
Zinc	145	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 12 2013 2:00PM			
Prep By				
Prep Date/Time				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13041215 Run: 2

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	17200	2000	20		ug/L
Iron	36500	2000	10.0		ug/L
Manganese	2240	100	0.2		ug/L
Dilution Factor	100				
Analyzed By	Robert Graddy				
Analysis Date/Time	Apr 12 2013 2:20PM				
Prep By					
Prep Date/Time					

Client: Special Samples

Client Sample ID: Field Blank

Lab ID: 2013-1123

Collection Date: 4/11/2013 10:26:00 AM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13041214 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
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	<0.05	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	Apr 12 2013 10:57AM				

Client: Special Samples

Client Sample ID: WS-003

Lab ID: 2013-1114

Collection Date: 4/11/2013 9:07:00 AM

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13041213 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	4/12/2013 07:30				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13041501 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	58.5	50-110			%
Nitrobenzene-d5 (% Recovery)	66.0	50-110			%
2-Fluorobiphenyl (% Recovery)	68.9	50-110			%
2,4,6-Tribromophenol (% Recovery)	67.6	40-110			%
Terphenyl-d14 (% Recovery)	69.9	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

Arkansas Department of Environmental Quality
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 North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
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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	4/12/2013 7:07 PM			
Prep By	Ed Harris			
Prep Date/Time	4/12/2013 08:00			

Client: Special Samples

Client Sample ID: WS-002

Lab ID: 2013-1115

Collection Date: 4/11/2013 10:23:00 AM

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13041213 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	4/12/2013 07:30				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13041501 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	54.0	50-110			%
Nitrobenzene-d5 (% Recovery)	68.8	50-110			%
2-Fluorobiphenyl (% Recovery)	69.6	50-110			%
2,4,6-Tribromophenol (% Recovery)	64.4	40-110			%
Terphenyl-d14 (% Recovery)	54.7	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	<0.2	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	4/12/2013 1:46 PM			
Prep By	Ed Harris			
Prep Date/Time	4/12/2013 08:00			

Client: Special Samples	Client Sample ID: WS-BKG-001
Lab ID: 2013-1116	Collection Date: 4/11/2013 10:53:00 AM
Matrix: Water	

Analyses

Oil and Grease		EPA1664	Batch: 13041213 Run: 1		
	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	4/12/2013 07:30				

Semi-Volatiles by GC/MS		EPA 3510C/EPA 8270D	Batch: 13041501 Run: 1		
	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	66.0	50-110			%
Nitrobenzene-d5 (% Recovery)	66.5	50-110			%
2-Fluorobiphenyl (% Recovery)	68.8	50-110			%
2,4,6-Tribromophenol (% Recovery)	62.0	40-110			%
Terphenyl-d14 (% Recovery)	61.8	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

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	4/12/2013 4:11 PM			
Prep By	Ed Harris			
Prep Date/Time	4/12/2013 08:00			

Client: Special Samples

Client Sample ID: WS-005

Lab ID: 2013-1117

Collection Date: 4/11/2013 12:28:00 PM

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13041213 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	3.8	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	4/12/2013 07:30				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13041501 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	44.6	50-110			%
Nitrobenzene-d5 (% Recovery)	89.4	50-110			%
2-Fluorobiphenyl (% Recovery)	80.5	50-110			%
2,4,6-Tribromophenol (% Recovery)	86.6	40-110			%
Terphenyl-d14 (% Recovery)	93.3	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

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Laboratory Contact: Jeff Ruehr
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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	4/12/2013 4:40 PM			
Prep By	Ed Harris			
Prep Date/Time	4/12/2013 08:00			

Client: Special Samples

Client Sample ID: WS-001

Lab ID: 2013-1118

Collection Date: 4/11/2013 1:17:00 PM

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13041213 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	3.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	4/12/2013 07:30				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13041501 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	55.9	50-110			%
Nitrobenzene-d5 (% Recovery)	86.7	50-110			%
2-Fluorobiphenyl (% Recovery)	80.2	50-110			%
2,4,6-Tribromophenol (% Recovery)	85.7	40-110			%
Terphenyl-d14 (% Recovery)	85.2	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	4/12/2013 5:09 PM			
Prep By	Ed Harris			
Prep Date/Time	4/12/2013 08:00			

Client: Special Samples

Client Sample ID: WS-004

Lab ID: 2013-1119

Collection Date: 4/11/2013 1:40:00 PM

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13041213 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	3.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	4/12/2013 07:30				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13041501 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	19.7	50-110			%
Nitrobenzene-d5 (% Recovery)	80.4	50-110			%
2-Fluorobiphenyl (% Recovery)	77.8	50-110			%
2,4,6-Tribromophenol (% Recovery)	68.0	40-110			%
Terphenyl-d14 (% Recovery)	74.4	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	0.140	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	0.105	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	4/12/2013 5:39 PM			
Prep By	Ed Harris			
Prep Date/Time	4/12/2013 08:00			

Client: Special Samples

Client Sample ID: WS-007

Lab ID: 2013-1120

Collection Date: 4/11/2013 2:17:00 PM

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13041213 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	4/12/2013 07:30				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13041501 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	15.8	50-110			%
Nitrobenzene-d5 (% Recovery)	77.4	50-110			%
2-Fluorobiphenyl (% Recovery)	75.2	50-110			%
2,4,6-Tribromophenol (% Recovery)	52.0	40-110			%
Terphenyl-d14 (% Recovery)	46.5	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	0.828	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	4/12/2013 6:08 PM			
Prep By	Ed Harris			
Prep Date/Time	4/12/2013 08:00			

Client: Special Samples

Client Sample ID: WS-006

Lab ID: 2013-1121

Collection Date: 4/11/2013 2:54:00 PM

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13041213 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	<2.5	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	4/12/2013 07:30				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13041501 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	24.8	50-110			%
Nitrobenzene-d5 (% Recovery)	89.1	50-110			%
2-Fluorobiphenyl (% Recovery)	78.6	50-110			%
2,4,6-Tribromophenol (% Recovery)	91.8	40-110			%
Terphenyl-d14 (% Recovery)	84.8	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	4/12/2013 6:38 PM			
Prep By	Ed Harris			
Prep Date/Time	4/12/2013 08:00			

Client: Special Samples

Client Sample ID: WS-008

Lab ID: 2013-1122

Collection Date: 4/11/2013 3:42:00 PM

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13041213 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Oil and Grease	45.7	2.5	2.5		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	4/12/2013 07:30				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13041501 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	1.1	50-110			%
Nitrobenzene-d5 (% Recovery)	0	50-110			%
2-Fluorobiphenyl (% Recovery)	0	50-110			%
2,4,6-Tribromophenol (% Recovery)	0	40-110			%
Terphenyl-d14 (% Recovery)	0.4	50-110			%
Methyl Methanesulfonate	<20	20	100		ug/L
Ethyl methanesulfonate	<20	20	100		ug/L
Phenol	<20	20	100		ug/L
Aniline	<20	20	100		ug/L
Bis(2-chloroethyl)ether	<20	20	100		ug/L
2-Chlorophenol	<20	20	100		ug/L
1,3-Dichlorobenzene	<12	12	60		ug/L
1,4-Dichlorobenzene	<12	12	60		ug/L
Benzyl alcohol	<16	16	80		ug/L
1,2-Dichlorobenzene	<12	12	60		ug/L
2-Methylphenol	<10	10	50		ug/L
Acetophenone	<10	10	50		ug/L
4-Methylphenol	<10	10	50		ug/L
N-Nitrosodi-n-propylamine	<20	20	100		ug/L
Hexachloroethane	<20	20	100		ug/L
Nitrobenzene	<20	20	100		ug/L
N-Nitrosopiperidine	<20	20	100		ug/L
Isophorone	<10	10	50		ug/L

2-Nitrophenol	<30	30	150	ug/L
2,4-Dimethylphenol	<10	10	50	ug/L
Bis(2-chloroethoxy)methane	<20	20	100	ug/L
2,4-Dichlorophenol	<20	20	100	ug/L
1,2,4-Trichlorobenzene	<12	12	60	ug/L
Naphthalene	<8	8	40	ug/L
4-Chloroaniline	<10	10	50	ug/L
2,6-Dichlorophenol	<20	20	100	ug/L
Hexachlorobutadiene	<20	20	100	ug/L
N-Nitrosodibutylamine	<20	20	100	ug/L
4-Chloro-3-methylphenol	<16	16	80	ug/L
2-Methylnaphthalene	<10	10	50	ug/L
1,2,4,5-Tetrachlorobenzene	<10	10	50	ug/L
Hexachlorocyclopentadiene	<16	16	80	ug/L
2,4,6-Trichlorophenol	<20	20	100	ug/L
2,4,5-Trichlorophenol	<20	20	100	ug/L
2-Chloronaphthalene	<10	10	50	ug/L
1-Chloronaphthalene	<10	10	50	ug/L
2-Nitroaniline	<20	20	100	ug/L
Dimethyl phthalate	<20	20	100	ug/L
2,6-Dinitrotoluene	<20	20	100	ug/L
Acenaphthylene	<8	8	40	ug/L
3-Nitroaniline	<20	20	100	ug/L
Acenaphthene	<10	10	50	ug/L
2,4-Dinitrophenol	<400	400	2000	ug/L
Pentachlorobenzene	<12	12	60	ug/L
4-Nitrophenol	<200	200	1000	ug/L
Dibenzofuran	<10	10	50	ug/L
2,4-Dinitrotoluene	<20	20	100	ug/L
2,3,4,6-Tetrachlorophenol	<60	60	300	ug/L
Diethyl phthalate	<20	20	100	ug/L
Fluorene	<10	10	50	ug/L
4-Chlorophenyl phenyl ether	<10	10	50	ug/L
4-Nitroaniline	<20	20	100	ug/L
4,6-Dinitro-2-methylphenol	<600	600	3000	ug/L
Diphenylamine	<10	10	50	ug/L
Azobenzene	<8	8	40	ug/L
4-Bromophenyl phenyl ether	<20	20	100	ug/L
Hexachlorobenzene	<16	16	80	ug/L
Pentachlorophenol	<100	100	500	ug/L

Pentachloronitrobenzene	<20	20	100	ug/L
Pronamide	<20	20	100	ug/L
Phenanthrene	<8	8	40	ug/L
Anthracene	<8	8	40	ug/L
Carbazole	<10	10	50	ug/L
Di-n-butyl phthalate	<20	20	100	ug/L
Fluoranthene	<8	8	40	ug/L
Pyrene	<8	8	40	ug/L
Dimethylaminoazobenzene	<20	20	100	ug/L
Butyl benzyl phthalate	<30	30	150	ug/L
Benzo (a) anthracene	<10	10	50	ug/L
Chrysene	<10	10	50	ug/L
Bis(2-ethylhexyl)phthalate	<30	30	150	ug/L
Di-n-octyl phthalate	<30	30	150	ug/L
Benzo (b) fluoranthene	<16	16	80	ug/L
7,12-Dimethylbenz (a) anthracene	<20	20	100	ug/L
Benzo (k) fluoranthene	<16	16	80	ug/L
Benzo (a) pyrene	<16	16	80	ug/L
3-Methylcholanthrene	<20	20	100	ug/L
Indeno (1,2,3-cd) pyrene	<20	20	100	ug/L
Dibenzo (a,h) anthracene	<16	16	80	ug/L
Benzo (g,h,i) perylene	<16	16	80	ug/L
Initial Volume	500			mL
Final Volume	10			mL
Dilution Factor	10			
Analyzed By	Ed Harris			
Analysis Date/Time	4/12/2013 7:36 PM			
Prep By	Ed Harris			
Prep Date/Time	4/12/2013 08:00			

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-003

Lab ID: 2013-1114

Collection Date: 4/11/2013 9:07:00 AM

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13041211 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	10.0	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/12/2013 7:43				

Arkansas Department of Environmental Quality
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Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples

Client Sample ID: WS-002

Lab ID: 2013-1115

Collection Date: 4/11/2013 10:23:00 AM

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13041211 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	10.4	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/12/2013 7:46				

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

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501-682-0955

Client: Special Samples

Client Sample ID: WS-BKG-001

Lab ID: 2013-1116

Collection Date: 4/11/2013 10:53:00 AM

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13041211 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	11.1	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/12/2013 7:54				

Arkansas Department of Environmental Quality
5301 Northshore Drive
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Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples

Client Sample ID: WS-005

Lab ID: 2013-1117

Collection Date: 4/11/2013 12:28:00 PM

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13041211 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	14.0	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/12/2013 7:57				

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

Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples

Client Sample ID: WS-001

Lab ID: 2013-1118

Collection Date: 4/11/2013 1:17:00 PM

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13041211 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	28.1	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/12/2013 8:02				

Arkansas Department of Environmental Quality
5301 Northshore Drive
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Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples

Client Sample ID: WS-004

Lab ID: 2013-1119

Collection Date: 4/11/2013 1:40:00 PM

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13041211 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	241	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/12/2013 8:09				

Arkansas Department of Environmental Quality
5301 Northshore Drive
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Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples

Client Sample ID: WS-007

Lab ID: 2013-1120

Collection Date: 4/11/2013 2:17:00 PM

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13041211 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	255	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/12/2013 8:14				

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

Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples

Client Sample ID: WS-006

Lab ID: 2013-1121

Collection Date: 4/11/2013 2:54:00 PM

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13041211 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	25.6	0.02	0.02		NTU
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/12/2013 8:19				

Arkansas Department of Environmental Quality
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Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client: Special Samples

Client Sample ID: WS-008

Lab ID: 2013-1122

Collection Date: 4/11/2013 3:42:00 PM

Matrix: Water

Analyses

Turbidity

EPA 180.1

Batch: 13041211 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	1410	0.06	0.02		NTU
Dilution Factor	3				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/12/2013 8:33				

Client: Special Samples

Client Sample ID: WS-003

Lab ID: 2013-1114

Collection Date: 4/11/2013 9:07:00 AM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13041212 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	98.2	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	93.3	70-130			%
<i>Toluene-d8 (% Recovery)</i>	91.2	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	101	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	1.05	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
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	4/11/2013 7:43 PM			

Client: Special Samples

Client Sample ID: WS-002

Lab ID: 2013-1115

Collection Date: 4/11/2013 10:23:00 AM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13041212 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	97.4	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	92.7	70-130			%
<i>Toluene-d8 (% Recovery)</i>	92.5	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	101	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
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	4/11/2013 8:08 PM			

Client: Special Samples

Client Sample ID: WS-BKG-001

Lab ID: 2013-1116

Collection Date: 4/11/2013 10:53:00 AM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13041212 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	102	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	94.0	70-130			%
<i>Toluene-d8 (% Recovery)</i>	96.2	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	104	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
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	4/11/2013 10:40 PM			

Client: Special Samples

Client Sample ID: WS-005

Lab ID: 2013-1117

Collection Date: 4/11/2013 12:28:00 PM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13041212 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	99.0	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	92.2	70-130			%
<i>Toluene-d8 (% Recovery)</i>	92.4	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	97.9	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
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	4/11/2013 11:05 PM			

Client: Special Samples

Client Sample ID: WS-001

Lab ID: 2013-1118

Collection Date: 4/11/2013 1:17:00 PM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13041212 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	99.4	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	94.4	70-130			%
<i>Toluene-d8 (% Recovery)</i>	90.0	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	102	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	0.616	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	0.588	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	2.21	1.2	1.2	ug/L
o-Xylene	2.85	0.5	0.5	ug/L
Styrene	1.10	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
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	4/11/2013 11:31 PM			

Client: Special Samples

Client Sample ID: WS-004

Lab ID: 2013-1119

Collection Date: 4/11/2013 1:40:00 PM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13041212 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	104	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	97.9	70-130			%
<i>Toluene-d8 (% Recovery)</i>	95.1	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-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
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	4/11/2013 11:56 PM			

Client: Special Samples

Client Sample ID: WS-007

Lab ID: 2013-1120

Collection Date: 4/11/2013 2:17:00 PM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13041212 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	99.8	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	93.1	70-130			%
<i>Toluene-d8 (% Recovery)</i>	94.7	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	0.513	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	0.767	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
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	4/12/2013 10:42 AM			

Client: Special Samples

Client Sample ID: WS-006

Lab ID: 2013-1121

Collection Date: 4/11/2013 2:54:00 PM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13041212 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	101	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	95.0	70-130			%
<i>Toluene-d8 (% Recovery)</i>	98.1	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	112	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	1.04	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
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	4/12/2013 11:07 AM			

Client: Special Samples

Client Sample ID: WS-008

Lab ID: 2013-1122

Collection Date: 4/11/2013 3:42:00 PM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13041212 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	96.0	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	94.9	70-130			%
<i>Toluene-d8 (% Recovery)</i>	97.7	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	109	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	58.0	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	0.745	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	31.5	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	78.0	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	12.1	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	75.8	1.2	1.2	ug/L
o-Xylene	33.2	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	3.31	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	9.90	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	25.2	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	2.20	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	26.8	0.46	0.46	ug/L
sec-Butylbenzene	4.61	0.63	0.63	ug/L
p-Isopropyltoluene	1.31	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
Naphthalene	4.39	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	4/12/2013 11:33 AM			

Client: Special Samples

Client Sample ID: Trip Blank

Lab ID: 2013-1124

Collection Date: 4/10/2013 8:45:00 AM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13041212 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	101	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	93.4	70-130			%
<i>Toluene-d8 (% Recovery)</i>	87.8	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	95.8	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	1.05	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
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	4/11/2013 7:17 PM			

Analytical Quality Control Results Report

Batch: 13041211	Turbidity - water
WS-002	LIMS ID: 2013-1115

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	10.1 NTU	0.02	0.02		
Turbidity (RPD)	3.0 %				0 - 20
Dilution Factor	1				
Analyzed By	Penny Semberski				
Analysis Date/Time	4/12/2013 7:48				

Analytical Quality Control Results Report

Batch: 13041501	Semi-VOA water (Prep)
WS-002	LIMS ID: 2013-1115

Semi Volatiles - water DUP

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	4/12/2013 08:00				
2-Fluorophenol (% Recovery)	54.2 %			75 - 125	
Nitrobenzene-d5 (% Recovery)	68.6 %			75 - 125	
2-Fluorobiphenyl (% Recovery)	63.3 %			50 - 110	
2,4,6-Tribromophenol (% Recovery)	60.6 %			40 - 110	
Terphenyl-d14 (% Recovery)	59.5 %			75 - 125	
Methyl Methanesulfonate	<0.2 ug/L	0.2	0.2		
Methyl Methanesulfonate (RPD)	0 %				0 - 40
Ethyl methanesulfonate (RPD)	0 %				0 - 40
Ethyl methanesulfonate	<0.2 ug/L	0.2	0.2		
Phenol	<0.2 ug/L	0.2	0.2		
Phenol (RPD)	7.9 %				0 - 40
Aniline (RPD)	0 %				0 - 40
Aniline	<0.2 ug/L	0.2	0.2		
Bis(2-chloroethyl)ether	<0.24 ug/L	0.2	0.24		
Bis(2-chloroethyl)ether (RPD)	0 %				0 - 40
2-Chlorophenol (RPD)	0 %				0 - 40
2-Chlorophenol	<0.2 ug/L	0.2	0.2		
1,3-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
1,3-Dichlorobenzene (RPD)	0 %				0 - 40
1,4-Dichlorobenzene (RPD)	0 %				0 - 40
1,4-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
Benzyl alcohol	<0.16 ug/L	0.16	0.16		
Benzyl alcohol (RPD)	25.7 %				0 - 40
1,2-Dichlorobenzene (RPD)	0 %				0 - 40
1,2-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
2-Methylphenol	<0.1 ug/L	0.1	0.1		
2-Methylphenol (RPD)	0 %				0 - 40
Acetophenone (RPD)	0 %				0 - 40
Acetophenone	<0.1 ug/L	0.1	0.1		

4-Methylphenol	<0.1 ug/L	0.1	0.1	
4-Methylphenol (RPD)	0 %			0 - 40
N-Nitrosodi-n-propylamine (RPD)	0 %			0 - 40
N-Nitrosodi-n-propylamine	<0.2 ug/L	0.2	0.2	
Hexachloroethane	<0.2 ug/L	0.2	0.2	
Hexachloroethane (RPD)	0 %			0 - 40
Nitrobenzene (RPD)	0 %			0 - 40
Nitrobenzene	<0.2 ug/L	0.2	0.2	
N-Nitrosopiperidine	<0.2 ug/L	0.2	0.2	
N-Nitrosopiperidine (RPD)	0 %			0 - 40
Isophorone (RPD)	0 %			0 - 40
Isophorone	<0.1 ug/L	0.1	0.1	
2-Nitrophenol	<0.3 ug/L	0.3	0.3	
2-Nitrophenol (RPD)	0 %			0 - 40
2,4-Dimethylphenol (RPD)	0 %			0 - 40
2,4-Dimethylphenol	<0.1 ug/L	0.1	0.1	
Bis(2-chloroethoxy)methane	<0.2 ug/L	0.2	0.2	
Bis(2-chloroethoxy)methane (RPD)	0 %			0 - 40
2,4-Dichlorophenol (RPD)	0 %			0 - 40
2,4-Dichlorophenol	<0.2 ug/L	0.2	0.2	
1,2,4-Trichlorobenzene	<0.12 ug/L	0.12	0.12	
1,2,4-Trichlorobenzene (RPD)	0 %			0 - 40
Naphthalene (RPD)	0 %			0 - 40
Naphthalene	<0.08 ug/L	0.08	0.08	
4-Chloroaniline	<0.1 ug/L	0.1	0.1	
4-Chloroaniline (RPD)	0 %			0 - 40
2,6-Dichlorophenol (RPD)	0 %			0 - 40
2,6-Dichlorophenol	<0.2 ug/L	0.2	0.2	
Hexachlorobutadiene (RPD)	0 %			0 - 40
Hexachlorobutadiene	<0.2 ug/L	0.2	0.2	
N-Nitrosodibutylamine	<0.24 ug/L	0.2	0.24	
N-Nitrosodibutylamine (RPD)	0 %			0 - 40
4-Chloro-3-methylphenol (RPD)	0 %			0 - 40
4-Chloro-3-methylphenol	<0.16 ug/L	0.16	0.16	
2-Methylnaphthalene	<0.1 ug/L	0.1	0.1	
2-Methylnaphthalene (RPD)	0 %			0 - 40
1,2,4,5-Tetrachlorobenzene	<0.1 ug/L	0.1	0.1	
1,2,4,5-Tetrachlorobenzene (RPD)	0 %			0 - 40
Hexachlorocyclopentadiene (RPD)	0 %			0 - 40
Hexachlorocyclopentadiene	<0.16 ug/L	0.16	0.16	

2,4,6-Trichlorophenol (RPD)	0 %			0 - 40
2,4,6-Trichlorophenol	<0.4 ug/L	0.2	0.4	
2,4,5-Trichlorophenol	<0.2 ug/L	0.2	0.2	
2,4,5-Trichlorophenol (RPD)	0 %			0 - 40
2-Chloronaphthalene (RPD)	0 %			0 - 40
2-Chloronaphthalene	<0.1 ug/L	0.1	0.1	
1-Chloronaphthalene	<0.1 ug/L	0.1	0.1	
1-Chloronaphthalene (RPD)	0 %			0 - 40
2-Nitroaniline (RPD)	0 %			0 - 40
2-Nitroaniline	<0.2 ug/L	0.2	0.2	
Dimethyl phthalate	<0.2 ug/L	0.2	0.2	
Dimethyl phthalate (RPD)	0 %			0 - 40
2,6-Dinitrotoluene (RPD)	0 %			0 - 40
2,6-Dinitrotoluene	<0.2 ug/L	0.2	0.2	
Acenaphthylene	<0.08 ug/L	0.08	0.08	
Acenaphthylene (RPD)	0 %			0 - 40
3-Nitroaniline (RPD)	0 %			0 - 40
3-Nitroaniline	<0.2 ug/L	0.2	0.2	
Acenaphthene	<0.1 ug/L	0.1	0.1	
Acenaphthene (RPD)	0 %			0 - 40
2,4-Dinitrophenol (RPD)	0 %			0 - 40
2,4-Dinitrophenol	<4 ug/L	4	4	
Pentachlorobenzene	<0.12 ug/L	0.12	0.12	
Pentachlorobenzene (RPD)	0 %			0 - 40
4-Nitrophenol (RPD)	0 %			0 - 40
4-Nitrophenol	<2 ug/L	2	2	
Dibenzofuran	<0.1 ug/L	0.1	0.1	
Dibenzofuran (RPD)	0 %			0 - 40
2,4-Dinitrotoluene (RPD)	0 %			0 - 40
2,4-Dinitrotoluene	<0.2 ug/L	0.2	0.2	
2,3,4,6-Tetrachlorophenol	<0.6 ug/L	0.6	0.6	
2,3,4,6-Tetrachlorophenol (RPD)	0 %			0 - 40
Diethyl phthalate (RPD)	0 %			0 - 40
Diethyl phthalate	<0.4 ug/L	0.2	0.4	
Fluorene	<0.1 ug/L	0.1	0.1	
Fluorene (RPD)	0 %			0 - 40
4-Chlorophenyl phenyl ether (RPD)	0 %			0 - 40
4-Chlorophenyl phenyl ether	<0.1 ug/L	0.1	0.1	
4-Nitroaniline	<0.3 ug/L	0.2	0.3	
4-Nitroaniline (RPD)	0 %			0 - 40

4,6-Dinitro-2-methylphenol (RPD)	0 %			0 - 40
4,6-Dinitro-2-methylphenol	<6 ug/L	6	6	
Diphenylamine	<0.1 ug/L	0.1	0.1	
Diphenylamine (RPD)	0 %			0 - 40
Azobenzene (RPD)	0 %			0 - 40
Azobenzene	<0.08 ug/L	0.08	0.08	
4-Bromophenyl phenyl ether	<0.2 ug/L	0.2	0.2	
4-Bromophenyl phenyl ether (RPD)	0 %			0 - 40
Hexachlorobenzene (RPD)	0 %			0 - 40
Hexachlorobenzene	<0.16 ug/L	0.16	0.16	
Pentachlorophenol	<1 ug/L	1	1	
Pentachlorophenol (RPD)	0 %			0 - 40
Pentachloronitrobenzene (RPD)	0 %			0 - 40
Pentachloronitrobenzene	<0.2 ug/L	0.2	0.2	
Pronamide	<0.2 ug/L	0.2	0.2	
Pronamide (RPD)	0 %			0 - 40
Phenanthrene (RPD)	0 %			0 - 40
Phenanthrene	<0.08 ug/L	0.08	0.08	
Anthracene	<0.08 ug/L	0.08	0.08	
Anthracene (RPD)	0 %			0 - 40
Carbazole (RPD)	0 %			0 - 40
Carbazole	<0.1 ug/L	0.1	0.1	
Di-n-butyl phthalate	<0.2 ug/L	0.2	0.2	
Di-n-butyl phthalate (RPD)	200 %			0 - 40
Fluoranthene (RPD)	0 %			0 - 40
Fluoranthene	<0.08 ug/L	0.08	0.08	
Pyrene	<0.08 ug/L	0.08	0.08	
Pyrene (RPD)	0 %			0 - 40
Dimethylaminoazobenzene (RPD)	0 %			0 - 40
Dimethylaminoazobenzene	<0.2 ug/L	0.2	0.2	
Butyl benzyl phthalate	<0.4 ug/L	0.4	0.4	
Butyl benzyl phthalate (RPD)	0 %			0 - 40
Benzo (a) anthracene (RPD)	0 %			0 - 40
Benzo (a) anthracene	<0.1 ug/L	0.1	0.1	
Chrysene	<0.1 ug/L	0.1	0.1	
Chrysene (RPD)	0 %			0 - 40
Bis(2-ethylhexyl)phthalate (RPD)	1.3 %			0 - 40
Bis(2-ethylhexyl)phthalate	<0.3 ug/L	0.3	0.3	
Di-n-octyl phthalate	<0.3 ug/L	0.3	0.3	
Di-n-octyl phthalate (RPD)	1.2 %			0 - 40

Benzo (b) fluoranthene (RPD)	0 %			0 - 40
Benzo (b) fluoranthene	<0.16 ug/L	0.16	0.16	
7,12-Dimethylbenz (a) anthracene	<0.2 ug/L	0.2	0.2	
7,12-Dimethylbenz (a) anthracene (RPD)	0 %			0 - 40
Benzo (k) fluoranthene (RPD)	0 %			0 - 40
Benzo (k) fluoranthene	<0.16 ug/L	0.16	0.16	
Benzo (a) pyrene	<0.16 ug/L	0.16	0.16	
Benzo (a) pyrene (RPD)	0 %			0 - 40
3-Methylcholanthrene (RPD)	0 %			0 - 40
3-Methylcholanthrene	<0.2 ug/L	0.2	0.2	
Indeno (1,2,3-cd) pyrene	<0.2 ug/L	0.2	0.2	
Indeno (1,2,3-cd) pyrene (RPD)	0 %			0 - 40
Dibenzo (a,h) anthracene (RPD)	0 %			0 - 40
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	
Benzo (g,h,i) perylene (RPD)	0 %			0 - 40
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	4/12/2013 2:15 PM			

WS-002	LIMS ID: 2013-1115
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Semi Volatiles - water MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	4/12/2013 08:00				
2-Fluorophenol (% Recovery)	52.9 %			50 - 125	
Nitrobenzene-d5 (% Recovery)	64.9 %			50 - 125	
2-Fluorobiphenyl (% Recovery)	63.0 %			50 - 125	
2,4,6-Tribromophenol (% Recovery)	64.6 %			40 - 125	
Terphenyl-d14 (% Recovery)	63.6 %			50 - 125	
Phenol (% Recovery)	27.4 %			25 - 125	
2-Chlorophenol (% Recovery)	43.0 %			25 - 125	
1,4-Dichlorobenzene (% Recovery)	64.3 %			25 - 125	
N-Nitrosodi-n-propylamine (% Recovery)	67.4 %			25 - 125	
1,2,4-Trichlorobenzene (% Recovery)	59.3 %			25 - 125	
4-Chloro-3-methylphenol (% Recovery)	44.1 %			25 - 125	
Acenaphthene (% Recovery)	63.5 %			25 - 125	

4-Nitrophenol (% Recovery)	44.2 %	25 - 125
2,4-Dinitrotoluene (% Recovery)	64.1 %	25 - 125
Pentachlorophenol (% Recovery)	63.8 %	25 - 125
Pyrene (% Recovery)	60.8 %	25 - 125
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	4/12/2013 2:44 PM	

WS-002	LIMS ID: 2013-1115
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Semi Volatiles - water MSD

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	4/12/2013 08:00				
2-Fluorophenol (% Recovery)	53.2 %			50 - 125	
Nitrobenzene-d5 (% Recovery)	67.9 %			50 - 125	
2-Fluorobiphenyl (% Recovery)	64.6 %			50 - 125	
2,4,6-Tribromophenol (% Recovery)	67.3 %			40 - 125	
Terphenyl-d14 (% Recovery)	62.8 %			50 - 125	
Phenol (% Recovery)	29.2 %			25 - 125	
Phenol (RPD)	6.3 %				0 - 40
2-Chlorophenol (% Recovery)	42.1 %			25 - 125	
2-Chlorophenol (RPD)	2.2 %				0 - 40
1,4-Dichlorobenzene (RPD)	9.2 %				0 - 40
1,4-Dichlorobenzene (% Recovery)	58.7 %			25 - 125	
N-Nitrosodi-n-propylamine (% Recovery)	72.8 %			25 - 125	
N-Nitrosodi-n-propylamine (RPD)	7.7 %				0 - 40
1,2,4-Trichlorobenzene (RPD)	8.5 %				0 - 40
1,2,4-Trichlorobenzene (% Recovery)	64.6 %			25 - 125	
4-Chloro-3-methylphenol (% Recovery)	46.6 %			25 - 125	
4-Chloro-3-methylphenol (RPD)	5.6 %				0 - 40
Acenaphthene (% Recovery)	72.3 %			25 - 125	
Acenaphthene (RPD)	12.9 %				0 - 40
4-Nitrophenol (% Recovery)	51.1 %			25 - 125	
4-Nitrophenol (RPD)	14.6 %				0 - 40
2,4-Dinitrotoluene (% Recovery)	72.7 %			25 - 125	
2,4-Dinitrotoluene (RPD)	12.5 %				0 - 40
Pentachlorophenol (% Recovery)	70.0 %			25 - 125	

Pentachlorophenol (RPD)	9.3 %	0 - 40
Pyrene (% Recovery)	61.8 %	25 - 125
Pyrene (RPD)	1.6 %	0 - 40
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	4/12/2013 3:13 PM	

MB	LIMS ID: 13041501-MB-01
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Semi Volatiles - water MB

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	4/12/2013 08:00				
2-Fluorophenol (% Recovery)	53.3 %			75 - 125	
Nitrobenzene-d5 (% Recovery)	72.8 %			75 - 125	
2-Fluorobiphenyl (% Recovery)	63.5 %			75 - 125	
2,4,6-Tribromophenol (% Recovery)	36.1 %			75 - 125	
Terphenyl-d14 (% Recovery)	58.7 %			75 - 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	0.549 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	4/12/2013 12:48		

LCS **LIMS ID: 13041501-LCS-01**

Semi Volatiles - water LCS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	4/12/2013 08:00				
2-Fluorophenol (% Recovery)	59.9 %			50 - 125	
Nitrobenzene-d5 (% Recovery)	68.1 %			50 - 125	
2-Fluorobiphenyl (% Recovery)	63.4 %			50 - 125	
2,4,6-Tribromophenol (% Recovery)	64.2 %			40 - 125	
Terphenyl-d14 (% Recovery)	61.4 %			50 - 125	
Methyl Methanesulfonate (% Recovery)	43.3 %			50 - 150	
Ethyl methanesulfonate (% Recovery)	78.9 %			50 - 150	
Phenol (% Recovery)	50.4 %			50 - 150	

Aniline (% Recovery)	25.7 %	50 - 150
Bis(2-chloroethyl)ether (% Recovery)	87.0 %	50 - 150
2-Chlorophenol (% Recovery)	79.8 %	50 - 150
1,3-Dichlorobenzene (% Recovery)	78.3 %	50 - 150
1,4-Dichlorobenzene (% Recovery)	63.8 %	50 - 150
Benzyl alcohol (% Recovery)	70.3 %	50 - 150
1,2-Dichlorobenzene (% Recovery)	66.1 %	50 - 150
2-Methylphenol (% Recovery)	69.0 %	50 - 150
Acetophenone (% Recovery)	91.1 %	50 - 150
4-Methylphenol (% Recovery)	64.7 %	50 - 150
N-Nitrosodi-n-propylamine (% Recovery)	85.8 %	50 - 150
Hexachloroethane (% Recovery)	57.5 %	50 - 150
Nitrobenzene (% Recovery)	84.4 %	50 - 150
N-Nitrosopiperidine (% Recovery)	86.7 %	50 - 150
Isophorone (% Recovery)	86.0 %	50 - 150
2-Nitrophenol (% Recovery)	89.4 %	50 - 150
2,4-Dimethylphenol (% Recovery)	3.2 %	50 - 150
Bis(2-chloroethoxy)methane (% Recovery)	87.1 %	50 - 150
2,4-Dichlorophenol (% Recovery)	80.0 %	50 - 150
1,2,4-Trichlorobenzene (% Recovery)	68.6 %	50 - 150
Naphthalene (% Recovery)	76.9 %	50 - 150
4-Chloroaniline (% Recovery)	18.0 %	50 - 150
2,6-Dichlorophenol (% Recovery)	90.3 %	50 - 150
Hexachlorobutadiene (% Recovery)	54.3 %	50 - 150
N-Nitrosodibutylamine (% Recovery)	85.1 %	50 - 150
4-Chloro-3-methylphenol (% Recovery)	83.3 %	50 - 150
2-Methylnaphthalene (% Recovery)	76.7 %	50 - 150
1,2,4,5-Tetrachlorobenzene (% Recovery)	75.9 %	50 - 150
Hexachlorocyclopentadiene (% Recovery)	86.9 %	50 - 150
2,4,6-Trichlorophenol (% Recovery)	76.8 %	50 - 150
2,4,5-Trichlorophenol (% Recovery)	85.2 %	50 - 150
2-Chloronaphthalene (% Recovery)	80.7 %	50 - 150
1-Chloronaphthalene (% Recovery)	77.2 %	50 - 150
2-Nitroaniline (% Recovery)	103 %	50 - 150
Dimethyl phthalate (% Recovery)	89.6 %	50 - 150
2,6-Dinitrotoluene (% Recovery)	92.1 %	50 - 150
Acenaphthylene (% Recovery)	85.3 %	50 - 150
3-Nitroaniline (% Recovery)	48.0 %	50 - 150
Acenaphthene (% Recovery)	83.6 %	50 - 150
2,4-Dinitrophenol (% Recovery)	128 %	50 - 150

Pentachlorobenzene (% Recovery)	79.1 %	50 - 150
4-Nitrophenol (% Recovery)	93.8 %	50 - 150
Dibenzofuran (% Recovery)	91.0 %	50 - 150
2,4-Dinitrotoluene (% Recovery)	92.4 %	50 - 150
2,3,4,6-Tetrachlorophenol (% Recovery)	93.7 %	50 - 150
Diethyl phthalate (% Recovery)	97.4 %	50 - 150
Fluorene (% Recovery)	92.6 %	50 - 150
4-Chlorophenyl phenyl ether (% Recovery)	92.5 %	50 - 150
4-Nitroaniline (% Recovery)	79.3 %	50 - 150
4,6-Dinitro-2-methylphenol (% Recovery)	97.5 %	50 - 150
Diphenylamine (% Recovery)	79.4 %	50 - 150
Azobenzene (% Recovery)	76.7 %	50 - 150
4-Bromophenyl phenyl ether (% Recovery)	82.0 %	50 - 150
Hexachlorobenzene (% Recovery)	70.5 %	50 - 150
Pentachlorophenol (% Recovery)	96.3 %	50 - 150
Pentachloronitrobenzene (% Recovery)	81.5 %	50 - 150
Pronamide (% Recovery)	82.6 %	50 - 150
Phenanthrene (% Recovery)	79.7 %	50 - 150
Anthracene (% Recovery)	76.3 %	50 - 150
Carbazole (% Recovery)	96.3 %	50 - 150
Di-n-butyl phthalate (% Recovery)	113 %	50 - 150
Fluoranthene (% Recovery)	79.5 %	50 - 150
Pyrene (% Recovery)	73.1 %	50 - 150
Dimethylaminoazobenzene (% Recovery)	77.5 %	50 - 150
Butyl benzyl phthalate (% Recovery)	84.0 %	50 - 150
Benzo (a) anthracene (% Recovery)	79.3 %	50 - 150
Chrysene (% Recovery)	84.6 %	50 - 150
Bis(2-ethylhexyl)phthalate (% Recovery)	88.4 %	50 - 150
Di-n-octyl phthalate (% Recovery)	92.5 %	50 - 150
Benzo (b) fluoranthene (% Recovery)	90.1 %	50 - 150
7,12-Dimethylbenz (a) anthracene (% Recovery)	74.8 %	50 - 150
Benzo (k) fluoranthene (% Recovery)	83.9 %	50 - 150
Benzo (a) pyrene (% Recovery)	85.9 %	50 - 150
3-Methylcholanthrene (% Recovery)	86.5 %	50 - 150
Indeno (1,2,3-cd) pyrene (% Recovery)	93.1 %	50 - 150
Dibenzo (a,h) anthracene (% Recovery)	92.7 %	50 - 150
Benzo (g,h,i) perylene (% Recovery)	88.3 %	50 - 150
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	4/12/2013 13:17	

Arkansas Department of Environmental Quality
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Laboratory Contact: Jeff Ruehr
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501-682-0955

Analytical Quality Control Results Report

Batch: 13041213	Oil and Grease - water
WS-002	LIMS ID: 2013-1115

Oil and Grease - water DUP

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Oil and Grease (RPD)	0 %				0 - 20
Oil and Grease	<2.5 mg/L	2.5	2.5		
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	4/12/2013 07:30				

WS-002	LIMS ID: 2013-1115
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Oil and Grease - water MS

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Oil and Grease (% Recovery)	102 %			70 - 130	
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	4/12/2013 07:30				

WS-002	LIMS ID: 2013-1115
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Oil and Grease - water MSD

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Oil and Grease (% Recovery)	103 %			70 - 130	
Oil and Grease (RPD)	0.7 %				0 - 20
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	4/12/2013 07:30				

MB	LIMS ID: 13041213-MB-01
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Oil and Grease - water MB

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Oil and Grease	<2.5 mg/L	2.5	2.5		
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	4/12/2013 07:30				

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LCS **LIMS ID: 13041213-LCS-01**

Oil and Grease - water LCS

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Oil and Grease (% Recovery)	95.3 %			70 - 130	
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	4/12/2013 07:30				

Analytical Quality Control Results Report

Batch: 13041215	ICP Metals - water (total)
WS-002	LIMS ID: 2013-1115

ICP Metals - water (Total) DUP

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum	294 ug/L	20	20		
Aluminum (RPD)	8.3 %				0 - 20
Antimony (RPD)	122 %				0 - 20
Antimony	<10 ug/L	5	10		
Arsenic	<1 ug/L	0.5	1		
Arsenic (RPD)	6.0 %				0 - 20
Barium (RPD)	0.2 %				0 - 20
Barium	15.9 ug/L	2	10		
Beryllium	<0.5 ug/L	0.1	0.5		
Beryllium (RPD)	18.2 %				0 - 20
Boron (RPD)	1.0 %				0 - 20
Boron	<25 ug/L	5	25		
Cadmium (RPD)	0 %				0 - 20
Cadmium	<1 ug/L	0.3	1		
Calcium	5.01 mg/L	0.04	0.04		
Calcium (RPD)	12.3 %				0 - 20
Chromium (RPD)	46.5 %				0 - 20
Chromium	<1 ug/L	0.3	1		
Cobalt	<1 ug/L	0.5	1		
Cobalt (RPD)	2.8 %				0 - 20
Copper (RPD)	3.5 %				0 - 20
Copper	<1 ug/L	0.5	1		
Iron	691 ug/L	10	20		
Iron (RPD)	0.2 %				0 - 20
Lead (RPD)	0.2 %				0 - 20
Lead	<1 ug/L	0.1	1		
Magnesium	1.31 mg/L	0.1	0.1		
Magnesium (RPD)	1.6 %				0 - 20
Manganese	110 ug/L	0.2	1		
Manganese (RPD)	2.8 %				0 - 20
Nickel (RPD)	1.3 %				0 - 20
Nickel	<2.5 ug/L	0.5	2.5		
Potassium	1.42 mg/L	0.05	1		

Potassium (RPD)	0.6 %			0 - 20
Selenium (RPD)	3.6 %			0 - 20
Selenium	<2 ug/L	0.5	2	
Silver	<5 ug/L	1	5	
Silver (RPD)	100 %			0 - 20
Sodium (RPD)	1.5 %			0 - 20
Sodium	4.06 mg/L	0.02	0.04	
Thallium	<2.5 ug/L	0.05	2.5	
Thallium (RPD)	0 %			0 - 20
Vanadium (RPD)	7.6 %			0 - 20
Vanadium	<2.5 ug/L	1	2.5	
Zinc	<3 ug/L	2	3	
Zinc (RPD)	3.1 %			0 - 20
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 12 2013 12:50PM			

WS-002	LIMS ID: 2013-1115
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ICP Metals - water (Total) MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	72.3 %			70 - 130	
Antimony (% Recovery)	82.6 %			70 - 130	
Arsenic (% Recovery)	92.0 %			70 - 130	
Barium (% Recovery)	88.3 %			70 - 130	
Beryllium (% Recovery)	93.7 %			70 - 130	
Boron (% Recovery)	76.1 %			70 - 130	
Cadmium (% Recovery)	91.6 %			70 - 130	
Calcium (% Recovery)	67.6 %			70 - 130	
Chromium (% Recovery)	86.4 %			70 - 130	
Cobalt (% Recovery)	88.6 %			70 - 130	
Copper (% Recovery)	89.7 %			70 - 130	
Iron (% Recovery)	67.5 %			70 - 130	
Lead (% Recovery)	89.7 %			70 - 130	
Magnesium (% Recovery)	89.2 %			70 - 130	
Manganese (% Recovery)	80 %			70 - 130	
Nickel (% Recovery)	88 %			70 - 130	
Potassium (% Recovery)	87.2 %			70 - 130	
Selenium (% Recovery)	96.4 %			70 - 130	
Silver (% Recovery)	83.2 %			70 - 130	

Sodium (% Recovery)	90.7 %	70 - 130
Thallium (% Recovery)	89.2 %	70 - 130
Vanadium (% Recovery)	88.7 %	70 - 130
Zinc (% Recovery)	96.5 %	70 - 130
Dilution Factor	1	
Analyzed By	Robert Graddy	
Analysis Date/Time	Apr 12 2013 12:57PM	

WS-002 **LIMS ID: 2013-1115**

ICP Metals - water (Total) MSD

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	73.4 %			70 - 130	
Aluminum (RPD)	0.7 %				0 - 20
Antimony (% Recovery)	83.1 %			70 - 130	
Antimony (RPD)	0.6 %				0 - 20
Arsenic (% Recovery)	92.2 %			70 - 130	
Arsenic (RPD)	0.3 %				0 - 20
Barium (% Recovery)	87.8 %			70 - 130	
Barium (RPD)	0.6 %				0 - 20
Beryllium (% Recovery)	93.2 %			70 - 130	
Beryllium (RPD)	0.6 %				0 - 20
Boron (% Recovery)	76.0 %			70 - 130	
Boron (RPD)	0.1 %				0 - 20
Cadmium (% Recovery)	91.1 %			70 - 130	
Cadmium (RPD)	0.5 %				0 - 20
Calcium (% Recovery)	66.5 %			70 - 130	
Calcium (RPD)	1.0 %				0 - 20
Chromium (% Recovery)	87.2 %			70 - 130	
Chromium (RPD)	0.8 %				0 - 20
Cobalt (% Recovery)	88.6 %			70 - 130	
Cobalt (RPD)	0 %				0 - 20
Copper (% Recovery)	90.5 %			70 - 130	
Copper (RPD)	0.9 %				0 - 20
Iron (% Recovery)	75.6 %			70 - 130	
Iron (RPD)	1.9 %				0 - 20
Lead (% Recovery)	89.5 %			70 - 130	
Lead (RPD)	0.2 %				0 - 20
Magnesium (% Recovery)	89.8 %			70 - 130	
Magnesium (RPD)	0.6 %				0 - 20

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Manganese (% Recovery)	82 %	70 - 130	
Manganese (RPD)	0.3 %		0 - 20
Nickel (% Recovery)	89 %	70 - 130	
Nickel (RPD)	0.4 %		0 - 20
Potassium (% Recovery)	86.9 %	70 - 130	
Potassium (RPD)	0.3 %		0 - 20
Selenium (% Recovery)	98.6 %	70 - 130	
Selenium (RPD)	2.2 %		0 - 20
Silver (% Recovery)	83.7 %	70 - 130	
Silver (RPD)	0.5 %		0 - 20
Sodium (% Recovery)	90.9 %	70 - 130	
Sodium (RPD)	0.2 %		0 - 20
Thallium (% Recovery)	89.4 %	70 - 130	
Thallium (RPD)	0.2 %		0 - 20
Vanadium (% Recovery)	89.9 %	70 - 130	
Vanadium (RPD)	1.3 %		0 - 20
Zinc (% Recovery)	97.1 %	70 - 130	
Zinc (RPD)	0.6 %		0 - 20
Dilution Factor	1		
Analysis Date/Time	Apr 12 2013 1:03PM		
Analyzed By	Robert Graddy		

Analytical Quality Control Results Report

Batch: 13041214	ICP Metals - water (Diss.)
WS-002	LIMS ID: 2013-1115

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	42.6 ug/L	20	20		
Aluminum (RPD)	0.5 %				0 - 20
Antimony (RPD)	0 %				0 - 20
Antimony	<5 ug/L	1	5		
Arsenic	<0.5 ug/L	0.2	0.5		
Arsenic (RPD)	4.4 %				0 - 20
Barium (RPD)	0.2 %				0 - 20
Barium	12.0 ug/L	0.4	2		
Beryllium	<0.1 ug/L	0.04	0.1		
Beryllium (RPD)	0 %				0 - 20
Boron (RPD)	0.7 %				0 - 20
Boron	9.69 ug/L	2	5		
Cadmium (RPD)	40.0 %				0 - 20
Cadmium	<0.1 ug/L	0.05	0.1		
Calcium	3.70 mg/L	0.03	0.03		
Calcium (RPD)	13.6 %				0 - 20
Chromium (RPD)	0 %				0 - 20
Chromium	<0.5 ug/L	0.05	0.5		
Cobalt	<0.5 ug/L	0.05	0.5		
Cobalt (RPD)	16.1 %				0 - 20
Copper (RPD)	1.5 %				0 - 20
Copper	<0.5 ug/L	0.2	0.5		
Iron	174 ug/L	5	20		
Iron (RPD)	4.8 %				0 - 20
Lead (RPD)	12.2 %				0 - 20
Lead	<0.3 ug/L	0.02	0.3		
Magnesium	1.24 mg/L	0.01	0.02		
Magnesium (RPD)	1.8 %				0 - 20
Manganese (RPD)	1.3 %				0 - 20
Manganese	45 ug/L	0.07	0.3		
Nickel	0.62 ug/L	0.15	0.5		
Nickel (RPD)	1.8 %				0 - 20
Potassium (RPD)	0.4 %				0 - 20

Potassium	1.31 mg/L	0.01	0.02	
Selenium	<1 ug/L	0.2	1	
Selenium (RPD)	14.8 %			0 - 20
Silicon Dioxide	2.43 mg/L	0.01	0.05	
Silicon Dioxide (RPD)	0.4 %			0 - 20
Silver (RPD)	0 %			0 - 20
Silver	<0.5 ug/L	0.02	0.5	
Sodium	3.97 mg/L	0.01	0.02	
Sodium (RPD)	0.2 %			0 - 20
Thallium (RPD)	0 %			0 - 20
Thallium	<0.5 ug/L	0	0.5	
Vanadium	<0.5 ug/L	0.3	0.5	
Vanadium (RPD)	11.0 %			0 - 20
Zinc (RPD)	7.7 %			0 - 20
Zinc	2.56 ug/L	0.3	1	
Hardness	14 mg/L	1	1	
Hardness (RPD)	10 %			0 - 20
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Apr 12 2013 2:13PM			

WS-002	LIMS ID: 2013-1115
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ICP Metals - water (Dissolved) MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	91.0 %			70 - 130	
Antimony (% Recovery)	91.5 %			70 - 130	
Arsenic (% Recovery)	96.9 %			70 - 130	
Barium (% Recovery)	90.8 %			70 - 130	
Beryllium (% Recovery)	96.1 %			70 - 130	
Boron (% Recovery)	81.3 %			70 - 130	
Cadmium (% Recovery)	94.8 %			70 - 130	
Calcium (% Recovery)	70.0 %			70 - 130	
Chromium (% Recovery)	91.1 %			70 - 130	
Cobalt (% Recovery)	91.1 %			70 - 130	
Copper (% Recovery)	94.4 %			70 - 130	
Iron (% Recovery)	90.7 %			70 - 130	
Lead (% Recovery)	91.3 %			70 - 130	
Magnesium (% Recovery)	93.1 %			70 - 130	
Manganese (% Recovery)	87 %			70 - 130	

Nickel (% Recovery)	91 %	70 - 130
Potassium (% Recovery)	90.3 %	70 - 130
Selenium (% Recovery)	103 %	70 - 130
Silver (% Recovery)	84.1 %	70 - 130
Sodium (% Recovery)	96.1 %	70 - 130
Thallium (% Recovery)	91.3 %	70 - 130
Vanadium (% Recovery)	92.1 %	70 - 130
Zinc (% Recovery)	99.0 %	70 - 130
Dilution Factor	1	
Analyzed By	Robert Graddy	
Analysis Date/Time	Apr 12 2013 9:47AM	

WS-002	LIMS ID: 2013-1115
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ICP Metals - water (Dissolved) MSD

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	91.0 %			70 - 130	
Aluminum (RPD)	0 %				0 - 20
Antimony (% Recovery)	92.6 %			70 - 130	
Antimony (RPD)	1.2 %				0 - 20
Arsenic (% Recovery)	98.1 %			70 - 130	
Arsenic (RPD)	1.2 %				0 - 20
Barium (% Recovery)	91.3 %			70 - 130	
Barium (RPD)	0.6 %				0 - 20
Beryllium (% Recovery)	96.1 %			70 - 130	
Beryllium (RPD)	0 %				0 - 20
Boron (% Recovery)	81.8 %			70 - 130	
Boron (RPD)	0.6 %				0 - 20
Cadmium (% Recovery)	94.2 %			70 - 130	
Cadmium (RPD)	0.7 %				0 - 20
Calcium (% Recovery)	70.4 %			70 - 130	
Calcium (RPD)	0.4 %				0 - 20
Chromium (% Recovery)	92.2 %			70 - 130	
Chromium (RPD)	1.2 %				0 - 20
Cobalt (% Recovery)	91.2 %			70 - 130	
Cobalt (RPD)	0.1 %				0 - 20
Copper (% Recovery)	94.2 %			70 - 130	
Copper (RPD)	0.2 %				0 - 20
Iron (% Recovery)	89.9 %			70 - 130	
Iron (RPD)	0.4 %				0 - 20

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Lead (% Recovery)	91.2 %	70 - 130	
Lead (RPD)	0.1 %		0 - 20
Magnesium (% Recovery)	92.9 %	70 - 130	
Magnesium (RPD)	0.2 %		0 - 20
Manganese (% Recovery)	86 %	70 - 130	
Manganese (RPD)	0.4 %		0 - 20
Nickel (% Recovery)	91 %	70 - 130	
Nickel (RPD)	0 %		0 - 20
Potassium (% Recovery)	91.1 %	70 - 130	
Potassium (RPD)	0.8 %		0 - 20
Selenium (% Recovery)	104 %	70 - 130	
Selenium (RPD)	0.7 %		0 - 20
Silver (% Recovery)	84.8 %	70 - 130	
Silver (RPD)	0.8 %		0 - 20
Sodium (% Recovery)	96.1 %	70 - 130	
Sodium (RPD)	0 %		0 - 20
Thallium (% Recovery)	91.3 %	70 - 130	
Thallium (RPD)	0.1 %		0 - 20
Vanadium (% Recovery)	92.0 %	70 - 130	
Vanadium (RPD)	0.2 %		0 - 20
Zinc (% Recovery)	98.5 %	70 - 130	
Zinc (RPD)	0.5 %		0 - 20
Dilution Factor	1		
Analyzed By	Robert Graddy		
Analysis Date/Time	Apr 12 2013 9:53AM		

Analytical Quality Control Results Report

Batch: 13041212	VOA - water
WS-002	LIMS ID: 2013-1115

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)	102 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	95.1 %			70 - 130	
Toluene-d8 (% Recovery)	91.0 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	101 %			70 - 130	
Dichlorodifluoromethane	<1.12 ug/L	1.12	1.12		
Dichlorodifluoromethane (RPD)	0 %				0 - 20
Chloromethane (RPD)	0 %				0 - 20
Chloromethane	<0.58 ug/L	0.58	0.58		
Vinyl chloride	<0.82 ug/L	0.82	0.82		
Vinyl chloride (RPD)	0 %				0 - 20
Bromomethane (RPD)	0 %				0 - 20
Bromomethane	<3.9 ug/L	3.9	3.9		
Chloroethane	<2.68 ug/L	2.68	2.68		
Chloroethane (RPD)	0 %				0 - 20
Trichlorofluoromethane	<0.51 ug/L	0.51	0.51		
Trichlorofluoromethane (RPD)	0 %				0 - 20
1,1-Dichloroethene	<0.43 ug/L	0.43	0.43		
1,1-Dichloroethene (RPD)	0 %				0 - 20
Acetone	<10.5 ug/L	10.5	10.5		
Acetone (RPD)	0 %				0 - 20
Methylene chloride (RPD)	2.3 %				0 - 20
Methylene chloride	<2.5 ug/L	2.5	2.5		
Methyl tert-butyl ether	<0.83 ug/L	0.83	0.83		
Methyl tert-butyl ether (RPD)	0 %				0 - 20
trans-1,2-Dichloroethene (RPD)	0 %				0 - 20
trans-1,2-Dichloroethene	<0.59 ug/L	0.59	0.59		
1,1-Dichloroethane (RPD)	0 %				0 - 20
1,1-Dichloroethane	<0.42 ug/L	0.42	0.42		
Methyl ethyl ketone (RPD)	0 %				0 - 20
Methyl ethyl ketone	<12.8 ug/L	12.8	12.8		
cis-1,2-Dichloroethene	<1.15 ug/L	1.15	1.15		
cis-1,2-Dichloroethene (RPD)	0 %				0 - 20
2,2-Dichloropropane (RPD)	0 %				0 - 20

2,2-Dichloropropane	<0.81 ug/L	0.81	0.81	
Bromochloromethane	<0.66 ug/L	0.66	0.66	
Bromochloromethane (RPD)	0 %			0 - 20
Chloroform (RPD)	0 %			0 - 20
Chloroform	<0.27 ug/L	0.27	0.27	
1,1,1-Trichloroethane	<0.46 ug/L	0.46	0.46	
1,1,1-Trichloroethane (RPD)	0 %			0 - 20
1,1-Dichloropropene	<0.59 ug/L	0.59	0.59	
1,1-Dichloropropene (RPD)	0 %			0 - 20
Carbon tetrachloride	<0.6 ug/L	0.6	0.6	
Carbon tetrachloride (RPD)	0 %			0 - 20
Benzene (RPD)	0 %			0 - 20
Benzene	<0.66 ug/L	0.66	0.66	
1,2-Dichloroethane	<1.15 ug/L	1.15	1.15	
1,2-Dichloroethane (RPD)	0 %			0 - 20
Trichloroethene	<0.6 ug/L	0.6	0.6	
Trichloroethene (RPD)	0 %			0 - 20
1,2-Dichloropropane (RPD)	0 %			0 - 20
1,2-Dichloropropane	<0.98 ug/L	0.98	0.98	
Dibromomethane	<1.78 ug/L	1.78	1.78	
Dibromomethane (RPD)	0 %			0 - 20
Bromodichloromethane (RPD)	0 %			0 - 20
Bromodichloromethane	<0.65 ug/L	0.65	0.65	
cis-1,3-Dichloropropene	<0.86 ug/L	0.86	0.86	
cis-1,3-Dichloropropene (RPD)	0 %			0 - 20
Methyl isobutyl ketone (RPD)	0 %			0 - 20
Methyl isobutyl ketone	<8.1 ug/L	8.1	8.1	
Toluene	<0.57 ug/L	0.57	0.57	
Toluene (RPD)	0 %			0 - 20
trans-1,3-Dichloropropene (RPD)	0 %			0 - 20
trans-1,3-Dichloropropene	<0.84 ug/L	0.84	0.84	
1,1,2-Trichloroethane	<0.78 ug/L	0.78	0.78	
1,1,2-Trichloroethane (RPD)	0 %			0 - 20
2-Hexanone (RPD)	0 %			0 - 20
2-Hexanone	<9.5 ug/L	9.5	9.5	
Tetrachloroethene	<0.96 ug/L	0.96	0.96	
Tetrachloroethene (RPD)	0 %			0 - 20
1,3-Dichloropropane (RPD)	0 %			0 - 20
1,3-Dichloropropane	<0.94 ug/L	0.94	0.94	
Dibromochloromethane	<1.25 ug/L	1.25	1.25	

Dibromochloromethane (RPD)	0 %			0 - 20
1,2-Dibromoethane (EDB) (RPD)	0 %			0 - 20
1,2-Dibromoethane (EDB)	<0.68 ug/L	0.68	0.68	
Chlorobenzene	<0.62 ug/L	0.62	0.62	
Chlorobenzene (RPD)	0 %			0 - 20
Ethylbenzene (RPD)	0 %			0 - 20
Ethylbenzene	<0.51 ug/L	0.51	0.51	
1,1,1,2-Tetrachloroethane (RPD)	0 %			0 - 20
1,1,1,2-Tetrachloroethane	<0.57 ug/L	0.57	0.57	
m,p-Xylene (RPD)	0 %			0 - 20
m,p-Xylene	<1.2 ug/L	1.2	1.2	
o-Xylene	<0.5 ug/L	0.5	0.5	
o-Xylene (RPD)	0 %			0 - 20
Styrene (RPD)	200 %			0 - 20
Styrene	1.04 ug/L	0.53	0.53	
Bromoform (RPD)	0 %			0 - 20
Bromoform	<1.56 ug/L	1.56	1.56	
Isopropylbenzene	<0.59 ug/L	0.59	0.59	
Isopropylbenzene (RPD)	0 %			0 - 20
1,1,1,2-Tetrachloroethane (RPD)	0 %			0 - 20
1,1,1,2-Tetrachloroethane	<0.39 ug/L	0.39	0.39	
1,2,3-Trichloropropane (RPD)	0 %			0 - 20
1,2,3-Trichloropropane	<1.83 ug/L	1.83	1.83	
n-Propylbenzene (RPD)	0 %			0 - 20
n-Propylbenzene	<0.49 ug/L	0.49	0.49	
Bromobenzene	<0.5 ug/L	0.5	0.5	
Bromobenzene (RPD)	0 %			0 - 20
1,3,5-Trimethylbenzene	<0.3 ug/L	0.3	0.3	
1,3,5-Trimethylbenzene (RPD)	0 %			0 - 20
2-Chlorotoluene (RPD)	0 %			0 - 20
2-Chlorotoluene	<0.66 ug/L	0.66	0.66	
4-Chlorotoluene (RPD)	0 %			0 - 20
4-Chlorotoluene	<0.8 ug/L	0.8	0.8	
tert-Butylbenzene	<0.85 ug/L	0.85	0.85	
tert-Butylbenzene (RPD)	0 %			0 - 20
1,2,4-Trimethylbenzene (RPD)	0 %			0 - 20
1,2,4-Trimethylbenzene	<0.46 ug/L	0.46	0.46	
sec-Butylbenzene	<0.63 ug/L	0.63	0.63	
sec-Butylbenzene (RPD)	0 %			0 - 20
p-Isopropyltoluene (RPD)	0 %			0 - 20

p-Isopropyltoluene	<0.59 ug/L	0.59	0.59	
1,3-Dichlorobenzene (RPD)	0 %			0 - 20
1,3-Dichlorobenzene	<0.7 ug/L	0.7	0.7	
1,4-Dichlorobenzene	<0.53 ug/L	0.53	0.53	
1,4-Dichlorobenzene (RPD)	0 %			0 - 20
n-Butylbenzene	<0.72 ug/L	0.72	0.72	
n-Butylbenzene (RPD)	0 %			0 - 20
1,2-Dichlorobenzene (RPD)	0 %			0 - 20
1,2-Dichlorobenzene	<0.7 ug/L	0.7	0.7	
1,2-Dibromo-3-chloropropane	<0.86 ug/L	0.86	0.86	
1,2-Dibromo-3-chloropropane (RPD)	0 %			0 - 20
1,2,4-Trichlorobenzene (RPD)	0 %			0 - 20
1,2,4-Trichlorobenzene	<1.14 ug/L	1.14	1.14	
Naphthalene	<1.53 ug/L	1.53	1.53	
Naphthalene (RPD)	0 %			0 - 20
1,2,3-Trichlorobenzene	<1.3 ug/L	1.3	1.3	
1,2,3-Trichlorobenzene (RPD)	0 %			0 - 20
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	4/11/2013 8:34 PM			

WS-002 **LIMS ID: 2013-1115**

Volatiles - water MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Dibromofluoromethane (% Recovery)	96.1 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	96.4 %			70 - 130	
Toluene-d8 (% Recovery)	91.8 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	101 %			70 - 130	
1,1-Dichloroethene (% Recovery)	102 %			70 - 130	
Benzene (% Recovery)	102 %			70 - 130	
Trichloroethene (% Recovery)	99.2 %			70 - 130	
Toluene (% Recovery)	91.9 %			70 - 130	
Chlorobenzene (% Recovery)	96.2 %			70 - 130	
Dilution Factor	1				
Analyzed By	Jeff Ruehr				
Analysis Date/Time	4/11/2013 8:59 PM				

WS-002 **LIMS ID: 2013-1115**

Volatiles - water MSD

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Dibromofluoromethane (% Recovery)	95.3 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	92.6 %			70 - 130	
Toluene-d8 (% Recovery)	91.5 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	103 %			70 - 130	
1,1-Dichloroethene (% Recovery)	110 %			70 - 130	
1,1-Dichloroethene (RPD)	6.9 %				0 - 20
Benzene (RPD)	4.5 %				0 - 20
Benzene (% Recovery)	106 %			70 - 130	
Trichloroethene (% Recovery)	103 %			70 - 130	
Trichloroethene (RPD)	3.5 %				0 - 20
Toluene (% Recovery)	96.7 %			70 - 130	
Toluene (RPD)	5.1 %				0 - 20
Chlorobenzene (% Recovery)	101 %			70 - 130	
Chlorobenzene (RPD)	4.8 %				0 - 20
Dilution Factor	1				
Analyzed By	Jeff Ruehr				
Analysis Date/Time	4/11/2013 9:24 PM				

LCS	LIMS ID: 13041212-LCS-01
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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)	106 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	107 %			70 - 130	
Toluene-d8 (% Recovery)	101 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	109 %			70 - 130	
Dichlorodifluoromethane (% Recovery)	86.6 %			60 - 130	
Chloromethane (% Recovery)	93.1 %			60 - 130	
Vinyl chloride (% Recovery)	99.2 %			60 - 130	
Bromomethane (% Recovery)	106 %			60 - 130	
Chloroethane (% Recovery)	116 %			60 - 130	
Trichlorofluoromethane (% Recovery)	101 %			60 - 130	
1,1-Dichloroethene (% Recovery)	102 %			60 - 130	
Acetone (% Recovery)	109 %			60 - 130	
Methylene chloride (% Recovery)	106 %			60 - 130	
Methyl tert-butyl ether (% Recovery)	106 %			60 - 130	
trans-1,2-Dichloroethene (% Recovery)	103 %			60 - 130	
1,1-Dichloroethane (% Recovery)	106 %			60 - 130	

Methyl ethyl ketone (% Recovery)	106 %	60 - 130
cis-1,2-Dichloroethene (% Recovery)	105 %	60 - 130
2,2-Dichloropropane (% Recovery)	103 %	60 - 130
Bromochloromethane (% Recovery)	107 %	60 - 130
Chloroform (% Recovery)	104 %	60 - 130
1,1,1-Trichloroethane (% Recovery)	104 %	60 - 130
1,1-Dichloropropene (% Recovery)	101 %	60 - 130
Carbon tetrachloride (% Recovery)	104 %	60 - 130
Benzene (% Recovery)	105 %	60 - 130
1,2-Dichloroethane (% Recovery)	105 %	60 - 130
Trichloroethene (% Recovery)	102 %	60 - 130
1,2-Dichloropropane (% Recovery)	101 %	60 - 130
Dibromomethane (% Recovery)	103 %	60 - 130
Bromodichloromethane (% Recovery)	103 %	60 - 130
cis-1,3-Dichloropropene (% Recovery)	101 %	60 - 130
Methyl isobutyl ketone (% Recovery)	103 %	60 - 130
Toluene (% Recovery)	101 %	60 - 130
trans-1,3-Dichloropropene (% Recovery)	102 %	60 - 130
1,1,2-Trichloroethane (% Recovery)	104 %	60 - 130
2-Hexanone (% Recovery)	103 %	60 - 130
Tetrachloroethene (% Recovery)	101 %	60 - 130
1,3-Dichloropropane (% Recovery)	104 %	60 - 130
Dibromochloromethane (% Recovery)	103 %	60 - 130
1,2-Dibromoethane (EDB) (% Recovery)	104 %	60 - 130
Chlorobenzene (% Recovery)	104 %	60 - 130
Ethylbenzene (% Recovery)	98.1 %	60 - 130
1,1,1,2-Tetrachloroethane (% Recovery)	101 %	60 - 130
m,p-Xylene (% Recovery)	101 %	60 - 130
o-Xylene (% Recovery)	103 %	60 - 130
Styrene (% Recovery)	97.7 %	60 - 130
Bromoform (% Recovery)	99.1 %	60 - 130
Isopropylbenzene (% Recovery)	103 %	60 - 130
1,1,2,2-Tetrachloroethane (% Recovery)	105 %	60 - 130
1,2,3-Trichloropropane (% Recovery)	105 %	60 - 130
n-Propylbenzene (% Recovery)	99.0 %	60 - 130
Bromobenzene (% Recovery)	104 %	60 - 130
1,3,5-Trimethylbenzene (% Recovery)	106 %	60 - 130
2-Chlorotoluene (% Recovery)	110 %	60 - 130
4-Chlorotoluene (% Recovery)	107 %	60 - 130
tert-Butylbenzene (% Recovery)	104 %	60 - 130

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1,2,4-Trimethylbenzene (% Recovery)	107 %	60 - 130
sec-Butylbenzene (% Recovery)	106 %	60 - 130
p-Isopropyltoluene (% Recovery)	102 %	60 - 130
1,3-Dichlorobenzene (% Recovery)	103 %	60 - 130
1,4-Dichlorobenzene (% Recovery)	101 %	60 - 130
n-Butylbenzene (% Recovery)	103 %	60 - 130
1,2-Dichlorobenzene (% Recovery)	104 %	60 - 130
1,2-Dibromo-3-chloropropane (% Recovery)	104 %	60 - 130
1,2,4-Trichlorobenzene (% Recovery)	105 %	60 - 130
Naphthalene (% Recovery)	105 %	60 - 130
1,2,3-Trichlorobenzene (% Recovery)	106 %	60 - 130
Dilution Factor	1	
Analyzed By	Jeff Ruehr	
Analysis Date/Time	4/12/2013 9:01	