



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

Client Report For: Exxon Oil Spill 2013 3398-3405
Attention:
Client Address:

,

Report Date: October 16, 2013
LAB ID: AR13SEP25-09
Comment:

Approved By: _____

Date: October 16, 2013

Client: Special Samples

Client Sample ID: WS-001

Lab ID: 2013-3398

Collection Date: 9/25/2013 11:24:00 AM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13100812 Run: 1

	Result	Reporting Limit	MDL	Qual	Unit
<i>Dibromofluoromethane (% Recovery)</i>	108	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	101	70-130			%
<i>Toluene-d8 (% Recovery)</i>	101	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	105	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L

Methyl isobutyl ketone	<8.1	8.1	8.10	ug/L
Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	9/25/2013 4:36 PM			

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

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

Client: Special Samples

Client Sample ID: WS-002

Lab ID: 2013-3399

Collection Date: 9/25/2013 10:04:00 AM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13100812 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	106	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	99.3	70-130			%
<i>Toluene-d8 (% Recovery)</i>	102	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	114	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	9/25/2013 5:01 PM			

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-003

Lab ID: 2013-3400

Collection Date: 9/25/2013 9:16:00 AM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13100812 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>	102	70-130			%
<i>Toluene-d8 (% Recovery)</i>	101	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	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	9/25/2013 6:41 PM			

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

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

Client: Special Samples

Client Sample ID: WS-005

Lab ID: 2013-3401

Collection Date: 9/25/2013 11:04:00 AM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13100812 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	105	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	100	70-130			%
<i>Toluene-d8 (% Recovery)</i>	102	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	110	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	9/25/2013 5:26 PM			

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

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

Client: Special Samples

Client Sample ID: WS-006

Lab ID: 2013-3402

Collection Date: 9/25/2013 12:00:00 PM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13100812 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>	96.8	70-130			%
<i>Toluene-d8 (% Recovery)</i>	99.3	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	105	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	9/25/2013 5:51 PM			

Arkansas Department of Environmental Quality
5301 Northshore Drive
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Client: Special Samples

Client Sample ID: WS-007

Lab ID: 2013-3403

Collection Date: 9/25/2013 11:46:00 AM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13100812 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>	98.3	70-130			%
<i>Toluene-d8 (% Recovery)</i>	96.7	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	111	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	9/25/2013 6:16 PM			

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Client: Special Samples

Client Sample ID: Volatiles Trip Blank

Lab ID: 2013-3405

Collection Date: 9/24/2013 4:24:00 PM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13100812 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	105	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	98.7	70-130			%
<i>Toluene-d8 (% Recovery)</i>	99.2	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	106	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Hexachlorobutadiene	<0.96	0.96	0.96	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	9/25/2013 3:53 PM			

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Laboratory Contact: Jeff Ruehr
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Client: Special Samples

Client Sample ID: WS-001

Lab ID: 2013-3398

Collection Date: 9/25/2013 11:24:00 AM

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13092405 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	09-26-2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13092607 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	45.1	40-110			%
Nitrobenzene-d5 (% Recovery)	78.5	50-110			%
2-Fluorobiphenyl (% Recovery)	76.6	50-110			%
2,4,6-Tribromophenol (% Recovery)	80.3	40-110			%
Terphenyl-d14 (% Recovery)	81.8	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	<0.16	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

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

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Pentachloronitrobenzene	<0.2	0.2	100	ug/L
Pronamide	<0.2	0.2	100	ug/L
Phenanthrene	<0.08	0.08	40	ug/L
Anthracene	<0.08	0.08	40	ug/L
Carbazole	<0.1	0.1	50	ug/L
Di-n-butyl phthalate	<0.2	0.2	100	ug/L
Fluoranthene	<0.08	0.08	40	ug/L
Pyrene	<0.08	0.08	40	ug/L
Dimethylaminoazobenzene	<0.2	0.2	100	ug/L
Butyl benzyl phthalate	<0.3	0.3	150	ug/L
Benzo (a) anthracene	<0.1	0.1	50	ug/L
Chrysene	<0.1	0.1	50	ug/L
Bis(2-ethylhexyl)phthalate	<0.3	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	9/26/2013 12:02 PM			
Prep By	Ed Harris			
Prep Date/Time	9/26/2013 08:00			

Arkansas Department of Environmental Quality
5301 Northshore Drive
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Client: Special Samples

Client Sample ID: WS-002

Lab ID: 2013-3399

Collection Date: 9/25/2013 10:04:00 AM

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13092405 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	09-26-2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13092607 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	53.5	40-110			%
Nitrobenzene-d5 (% Recovery)	79.9	50-110			%
2-Fluorobiphenyl (% Recovery)	80.0	50-110			%
2,4,6-Tribromophenol (% Recovery)	75.9	40-110			%
Terphenyl-d14 (% Recovery)	88.6	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	0.172	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	9/26/2013 12:31 PM			
Prep By	Ed Harris			
Prep Date/Time	9/26/2013 08:00			

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Client: Special Samples

Client Sample ID: WS-003

Lab ID: 2013-3400

Collection Date: 9/25/2013 9:16:00 AM

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13092405 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	09-26-2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13092607 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	54.7	40-110			%
Nitrobenzene-d5 (% Recovery)	81.9	50-110			%
2-Fluorobiphenyl (% Recovery)	74.0	50-110			%
2,4,6-Tribromophenol (% Recovery)	72.8	40-110			%
Terphenyl-d14 (% Recovery)	82.1	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	<0.16	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

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

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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	9/26/2013 1:01 PM			
Prep By	Ed Harris			
Prep Date/Time	9/26/2013 08:00			

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Client: Special Samples

Client Sample ID: WS-005

Lab ID: 2013-3401

Collection Date: 9/25/2013 11:04:00 AM

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13092405 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	09-26-2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13092607 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	42.6	40-110			%
Nitrobenzene-d5 (% Recovery)	82.0	50-110			%
2-Fluorobiphenyl (% Recovery)	77.3	50-110			%
2,4,6-Tribromophenol (% Recovery)	78.5	40-110			%
Terphenyl-d14 (% Recovery)	86.4	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	<0.16	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L

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

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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	9/26/2013 2:57 PM			
Prep By	Ed Harris			
Prep Date/Time	9/26/2013 08:00			

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Laboratory Contact: Jeff Ruehr
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501-682-0955

Client: Special Samples

Client Sample ID: WS-006

Lab ID: 2013-3402

Collection Date: 9/25/2013 12:00:00 PM

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13092405 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	09-26-2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13092607 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	50.0	40-110			%
Nitrobenzene-d5 (% Recovery)	77.1	50-110			%
2-Fluorobiphenyl (% Recovery)	72.5	50-110			%
2,4,6-Tribromophenol (% Recovery)	85.0	40-110			%
Terphenyl-d14 (% Recovery)	86.8	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

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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	9/26/2013 15:55			
Prep By	Ed Harris			
Prep Date/Time	9/26/2013 08:00			

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Client: Special Samples

Client Sample ID: WS-007

Lab ID: 2013-3403

Collection Date: 9/25/2013 11:46:00 AM

Matrix: Water

Analyses

Oil and Grease

EPA1664

Batch: 13092405 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	09-26-2013 0800				

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13092607 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	44.2	40-110			%
Nitrobenzene-d5 (% Recovery)	68.4	50-110			%
2-Fluorobiphenyl (% Recovery)	70.5	50-110			%
2,4,6-Tribromophenol (% Recovery)	79.8	40-110			%
Terphenyl-d14 (% Recovery)	86.9	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

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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	9/26/2013 4:24 PM			
Prep By	Ed Harris			
Prep Date/Time	9/26/2013 08:00			

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Client: Special Samples

Client Sample ID: WS-001

Lab ID: 2013-3398

Collection Date: 9/25/2013 11:24:00 AM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13092603 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	1.52	0.5	0.2		ug/L
Barium	18.5	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	21.6	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	6.30	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	2.98	0.02	0.01		mg/L
Manganese	3.22	0.3	0.07		ug/L
Nickel	<0.5	0.5	0.15		ug/L
Potassium	2.89	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	8.46	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	7.64	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	28.0	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Sep 25 2013 5:41PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13092604 Run: 1

Result **Reporting** **MDL** **Qual** **Unit**

Arkansas Department of Environmental Quality
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		<u>Limit</u>		
Aluminum	80.8	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	2.52	1	0.5	ug/L
Barium	36.5	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	6.51	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	<1	1	0.5	ug/L
Iron	563	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	2.95	0.1	0.1	mg/L
Manganese	468	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.97	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	7.49	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	Sep 25 2013 10:02PM			
Prep By				
Prep Date/Time				

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501-682-0955

Client: Special Samples

Client Sample ID: WS-002

Lab ID: 2013-3399

Collection Date: 9/25/2013 10:04:00 AM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13092603 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	1.81	0.5	0.2		ug/L
Barium	20.8	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	21.3	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	6.76	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	3.08	0.02	0.01		mg/L
Manganese	102	0.3	0.07		ug/L
Nickel	<0.5	0.5	0.15		ug/L
Potassium	2.93	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	8.46	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	7.52	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	29.6	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Sep 25 2013 5:47PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13092604 Run: 1

Result **Reporting** **MDL** **Qual** **Unit**

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

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		<u>Limit</u>		
Aluminum	42	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	2.87	1	0.5	ug/L
Barium	48	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	6.71	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	534	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	3.09	0.1	0.1	mg/L
Manganese	675	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.92	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	7.35	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	Sep 25 2013 10:08PM			
Prep By				
Prep Date/Time				

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-003

Lab ID: 2013-3400

Collection Date: 9/25/2013 9:16:00 AM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13092603 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	2.05	0.5	0.2		ug/L
Barium	17.0	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	21.0	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	6.63	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	3.15	0.02	0.01		mg/L
Manganese	13.2	0.3	0.07		ug/L
Nickel	<0.5	0.5	0.15		ug/L
Potassium	2.84	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	8.36	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	7.46	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	29.5	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Sep 25 2013 6:06PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13092604 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	66.2	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	2.93	1	0.5	ug/L
Barium	43.3	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	6.72	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	476	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	3.13	0.1	0.1	mg/L
Manganese	479	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.89	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	7.30	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	Sep 25 2013 10:15PM			
Prep By				
Prep Date/Time				

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-005

Lab ID: 2013-3401

Collection Date: 9/25/2013 11:04:00 AM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13092603 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	1.50	0.5	0.2		ug/L
Barium	23.9	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	23.1	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	6.40	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	22.6	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	3.05	0.02	0.01		mg/L
Manganese	47.8	0.3	0.07		ug/L
Nickel	<0.5	0.5	0.15		ug/L
Potassium	2.90	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	8.20	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	7.92	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	28.5	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Sep 25 2013 6:32PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13092604 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	289	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	3.78	1	0.5	ug/L
Barium	80.0	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	7.69	0.04	0.04	mg/L
Chromium	<1	1	0.3	ug/L
Cobalt	<1	1	0.5	ug/L
Copper	1.18	1	0.5	ug/L
Iron	1730	20	10.0	ug/L
Lead	1.24	1	0.1	ug/L
Magnesium	3.27	0.1	0.1	mg/L
Manganese	1280	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	3.21	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	8.04	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	14.8	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Sep 25 2013 10:40PM			
Prep By				
Prep Date/Time				

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-006

Lab ID: 2013-3402

Collection Date: 9/25/2013 12:00:00 PM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13092603 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	1.58	0.5	0.2		ug/L
Barium	15.6	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	22.3	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	6.28	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	<0.5	0.5	0.05		ug/L
Copper	<0.5	0.5	0.2		ug/L
Iron	26.1	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	2.98	0.02	0.01		mg/L
Manganese	23.8	0.3	0.07		ug/L
Nickel	<0.5	0.5	0.15		ug/L
Potassium	2.88	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	8.25	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	7.67	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	27.9	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Sep 25 2013 6:38PM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13092604 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	76.3	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	3.25	1	0.5	ug/L
Barium	43.5	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	6.93	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	945	20	10.0	ug/L
Lead	<1	1	0.1	ug/L
Magnesium	3.00	0.1	0.1	mg/L
Manganese	596	1	0.2	ug/L
Nickel	<2.5	2.5	0.5	ug/L
Potassium	2.99	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	7.62	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	15.6	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Sep 25 2013 10:59PM			
Prep By				
Prep Date/Time				

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-007

Lab ID: 2013-3403

Collection Date: 9/25/2013 11:46:00 AM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13092603 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	85.8	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	3.51	0.5	0.2		ug/L
Barium	24.9	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	22.7	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	4.33	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	0.60	0.5	0.05		ug/L
Copper	<0.5	0.5	0.2		ug/L
Lead	0.50	0.3	0.02		ug/L
Magnesium	1.86	0.02	0.01		mg/L
Manganese	729	0.3	0.07		ug/L
Nickel	0.74	0.5	0.15		ug/L
Potassium	4.79	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	6.90	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	5.03	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	5.33	1	0.3		ug/L
Hardness	18.5	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Sep 25 2013 6:44PM				

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13092603 Run: 2

<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
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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

Iron	2710	200	5.0	ug/L
Dilution Factor	10			
Analyzed By	Robert Graddy			
Analysis Date/Time	Sep 26 2013 9:05AM			

Total Metals by EPA 200.8

EPA 200.8

Batch: 13092604 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	80.6	20	20		ug/L
Antimony	<10	10	5		ug/L
Arsenic	4.69	1	0.5		ug/L
Barium	31.1	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	4.61	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
Lead	<1	1	0.1		ug/L
Magnesium	1.88	0.1	0.1		mg/L
Manganese	896	1	0.2		ug/L
Nickel	<2.5	2.5	0.5		ug/L
Potassium	4.90	1	0.05		mg/L
Selenium	<2	2	0.5		ug/L
Silver	<5	5	1.0		ug/L
Sodium	5.04	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	13.5	3	2.0		ug/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Sep 25 2013 11:06PM				
Prep By					
Prep Date/Time					

Total Metals by EPA 200.8

EPA 200.8

Batch: 13092604 Run: 2

<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
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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

Iron	4760	200	10.0	ug/L
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Dilution Factor	10
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Analyzed By	Robert Graddy
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Analysis Date/Time	Sep 26 2013 9:12AM
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Prep By

Prep Date/Time

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: Metals Field Blank

Lab ID: 2013-3404

Collection Date: 9/25/2013 8:55:00 AM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13092603 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	Sep 25 2013 6:51PM				

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-001

Lab ID: 2013-3398

Collection Date: 9/25/2013 11:24:00 AM

Matrix: Water

Analyses

<i>Turbidity</i>		<i>EPA 180.1</i>	<i>Batch: 13100303 Run: 1</i>			
	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>	
Turbidity	13.1	0.02	0.02		NTU	
Dilution Factor	1					
Analyzed By	Angela H. Rice					
Analysis Date/Time	9/25/2013 15:00					

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-002

Lab ID: 2013-3399

Collection Date: 9/25/2013 10:04:00 AM

Matrix: Water

Analyses

<i>Turbidity</i>		<i>EPA 180.1</i>	<i>Batch: 13100303 Run: 1</i>			
	<u>Result</u>		<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity	13.0		0.02	0.02		NTU
Dilution Factor	1					
Analyzed By	Angela H. Rice					
Analysis Date/Time	9/25/2013 15:02					

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: 2013-3400

Collection Date: 9/25/2013 9:16:00 AM

Matrix: Water

Analyses

<i>Turbidity</i>		<i>EPA 180.1</i>	<i>Batch: 13100303 Run: 1</i>			
	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>	
Turbidity	12.9	0.02	0.02		NTU	
Dilution Factor	1					
Analyzed By	Angela H. Rice					
Analysis Date/Time	9/25/2013 15:03					

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-005

Lab ID: 2013-3401

Collection Date: 9/25/2013 11:04:00 AM

Matrix: Water

Analyses

<i>Turbidity</i>		<i>EPA 180.1</i>		<i>Batch: 13100303</i>		<i>Run: 1</i>	
		<u>Result</u>		<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Turbidity		4.78		0.02	0.02		NTU
Dilution Factor		1					
Analyzed By		Angela H. Rice					
Analysis Date/Time		9/25/2013 15:05					

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-006

Lab ID: 2013-3402

Collection Date: 9/25/2013 12:00:00 PM

Matrix: Water

Analyses

<i>Turbidity</i>		<i>EPA 180.1</i>		<i>Batch: 13100303</i>		<i>Run: 1</i>	
	<u>Result</u>		<u>Reporting</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>	
			<u>Limit</u>				
Turbidity	21.2		0.02	0.02		NTU	
Dilution Factor	1						
Analyzed By	Angela H. Rice						
Analysis Date/Time	9/25/2013 15:06						

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-007

Lab ID: 2013-3403

Collection Date: 9/25/2013 11:46:00 AM

Matrix: Water

Analyses

<i>Turbidity</i>		<i>EPA 180.1</i>	<i>Batch: 13100303 Run: 1</i>			
	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>	
Turbidity	9.21	0.02	0.02		NTU	
Dilution Factor	1					
Analyzed By	Angela H. Rice					
Analysis Date/Time	9/25/2013 15:08					

Analytical Quality Control Results Report

Batch: 13100812	VOA - water
WS-003	LIMS ID: 2013-3400

Volatiles - water DUP

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Dibromofluoromethane (% Recovery)	102 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	94.9 %			70 - 130	
Toluene-d8 (% Recovery)	97.0 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	108 %			70 - 130	
Dichlorodifluoromethane (RPD)	0 %				0 - 20
Chloromethane (RPD)	0 %				0 - 20
Vinyl chloride (RPD)	0 %				0 - 20
Bromomethane (RPD)	0 %				0 - 20
Chloroethane (RPD)	0 %				0 - 20
Trichlorofluoromethane (RPD)	0 %				0 - 20
1,1-Dichloroethene (RPD)	0 %				0 - 20
Acetone (RPD)	0 %				0 - 20
Methylene chloride (RPD)	0 %				0 - 20
Methyl tert-butyl ether (RPD)	0 %				0 - 20
trans-1,2-Dichloroethene (RPD)	0 %				0 - 20
1,1-Dichloroethane (RPD)	0 %				0 - 20
Methyl ethyl ketone (RPD)	0 %				0 - 20
cis-1,2-Dichloroethene (RPD)	0 %				0 - 20
2,2-Dichloropropane (RPD)	0 %				0 - 20
Bromochloromethane (RPD)	0 %				0 - 20
Chloroform (RPD)	0 %				0 - 20
1,1,1-Trichloroethane (RPD)	0 %				0 - 20
1,1-Dichloropropene (RPD)	0 %				0 - 20
Carbon tetrachloride (RPD)	0 %				0 - 20
Benzene (RPD)	0 %				0 - 20
1,2-Dichloroethane (RPD)	0 %				0 - 20
Trichloroethene (RPD)	0 %				0 - 20
1,2-Dichloropropane (RPD)	0 %				0 - 20
Dibromomethane (RPD)	0 %				0 - 20
Bromodichloromethane (RPD)	0 %				0 - 20
cis-1,3-Dichloropropene (RPD)	0 %				0 - 20

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

Methyl isobutyl ketone (RPD)	0 %	0 - 20
Toluene (RPD)	0 %	0 - 20
trans-1,3-Dichloropropene (RPD)	0 %	0 - 20
1,1,2-Trichloroethane (RPD)	0 %	0 - 20
2-Hexanone (RPD)	0 %	0 - 20
Tetrachloroethene (RPD)	0 %	0 - 20
1,3-Dichloropropane (RPD)	0 %	0 - 20
Dibromochloromethane (RPD)	0 %	0 - 20
1,2-Dibromoethane (EDB) (RPD)	0 %	0 - 20
Chlorobenzene (RPD)	0 %	0 - 20
Ethylbenzene (RPD)	0 %	0 - 20
1,1,1,2-Tetrachloroethane (RPD)	0 %	0 - 20
m,p-Xylene (RPD)	0 %	0 - 20
o-Xylene (RPD)	0 %	0 - 20
Styrene (RPD)	0 %	0 - 20
Bromoform (RPD)	0 %	0 - 20
Isopropylbenzene (RPD)	0 %	0 - 20
1,1,2,2-Tetrachloroethane (RPD)	0 %	0 - 20
1,2,3-Trichloropropane (RPD)	0 %	0 - 20
n-Propylbenzene (RPD)	0 %	0 - 20
Bromobenzene (RPD)	0 %	0 - 20
1,3,5-Trimethylbenzene (RPD)	0 %	0 - 20
2-Chlorotoluene (RPD)	0 %	0 - 20
4-Chlorotoluene (RPD)	0 %	0 - 20
tert-Butylbenzene (RPD)	0 %	0 - 20
1,2,4-Trimethylbenzene (RPD)	0 %	0 - 20
sec-Butylbenzene (RPD)	0 %	0 - 20
p-Isopropyltoluene (RPD)	0 %	0 - 20
1,3-Dichlorobenzene (RPD)	0 %	0 - 20
1,4-Dichlorobenzene (RPD)	0 %	0 - 20
n-Butylbenzene (RPD)	0 %	0 - 20
1,2-Dichlorobenzene (RPD)	0 %	0 - 20
1,2-Dibromo-3-chloropropane (RPD)	0 %	0 - 20
1,2,4-Trichlorobenzene (RPD)	0 %	0 - 20
Hexachlorobutadiene (RPD)	0 %	0 - 20
Naphthalene (RPD)	0 %	0 - 20
1,2,3-Trichlorobenzene (RPD)	0 %	0 - 20
Dilution Factor	1	
Analyzed By	Jeff Ruehr	
Analysis Date/Time	9/25/2013 7:07 PM	

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WS-003	LIMS ID: 2013-3400
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Volatiles - water MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Dibromofluoromethane (% Recovery)	105 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	99.7 %			70 - 130	
Toluene-d8 (% Recovery)	102 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	113 %			70 - 130	
1,1-Dichloroethene (% Recovery)	97.1 %			70 - 130	
Benzene (% Recovery)	99.1 %			70 - 130	
Trichloroethene (% Recovery)	96.0 %			70 - 130	
Toluene (% Recovery)	96.4 %			70 - 130	
Chlorobenzene (% Recovery)	92.2 %			70 - 130	
Dilution Factor	1				
Analyzed By	Jeff Ruehr				
Analysis Date/Time	9/25/2013 7:32 PM				

WS-003	LIMS ID: 2013-3400
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Volatiles - water MSD

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Dibromofluoromethane (% Recovery)	106 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	99.1 %			70 - 130	
Toluene-d8 (% Recovery)	104 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	110 %			70 - 130	
1,1-Dichloroethene (RPD)	1.9 %				0 - 20
1,1-Dichloroethene (% Recovery)	99.0 %			70 - 130	
Benzene (RPD)	2.6 %				0 - 20
Benzene (% Recovery)	102 %			70 - 130	
Trichloroethene (% Recovery)	99.3 %			70 - 130	
Trichloroethene (RPD)	3.4 %				0 - 20
Toluene (RPD)	0 %				0 - 20
Toluene (% Recovery)	96.4 %			70 - 130	
Chlorobenzene (% Recovery)	94.5 %			70 - 130	
Chlorobenzene (RPD)	2.5 %				0 - 20
Dilution Factor	1				
Analyzed By	Jeff Ruehr				
Analysis Date/Time	9/25/2013 7:57 PM				

LCS	LIMS ID: 13100812-LCS-01
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Volatiles - water LCS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Dibromofluoromethane (% Recovery)	97.6 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	101 %			70 - 130	
Toluene-d8 (% Recovery)	102 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	106 %			70 - 130	
Dichlorodifluoromethane (% Recovery)	115 %			60 - 130	
Chloromethane (% Recovery)	110 %			60 - 130	
Vinyl chloride (% Recovery)	105 %			60 - 130	
Bromomethane (% Recovery)	102 %			60 - 130	
Chloroethane (% Recovery)	656 %			60 - 130	
Trichlorofluoromethane (% Recovery)	90.9 %			60 - 130	
1,1-Dichloroethene (% Recovery)	97.7 %			60 - 130	
Acetone (% Recovery)	88.7 %			60 - 130	
Methylene chloride (% Recovery)	99.5 %			60 - 130	
Methyl tert-butyl ether (% Recovery)	96.6 %			60 - 130	
trans-1,2-Dichloroethene (% Recovery)	99.1 %			60 - 130	
1,1-Dichloroethane (% Recovery)	98.9 %			60 - 130	
Methyl ethyl ketone (% Recovery)	89.8 %			60 - 130	
cis-1,2-Dichloroethene (% Recovery)	99.3 %			60 - 130	
2,2-Dichloropropane (% Recovery)	99.7 %			60 - 130	
Bromochloromethane (% Recovery)	95.1 %			60 - 130	
Chloroform (% Recovery)	97.5 %			60 - 130	
1,1,1-Trichloroethane (% Recovery)	96.4 %			60 - 130	
1,1-Dichloropropene (% Recovery)	96.3 %			60 - 130	
Carbon tetrachloride (% Recovery)	96.9 %			60 - 130	
Benzene (% Recovery)	96.3 %			60 - 130	
1,2-Dichloroethane (% Recovery)	98.3 %			60 - 130	
Trichloroethene (% Recovery)	96.6 %			60 - 130	
1,2-Dichloropropane (% Recovery)	98.3 %			60 - 130	
Dibromomethane (% Recovery)	97.6 %			60 - 130	
Bromodichloromethane (% Recovery)	96.7 %			60 - 130	
cis-1,3-Dichloropropene (% Recovery)	97.9 %			60 - 130	
Methyl isobutyl ketone (% Recovery)	101 %			60 - 130	
Toluene (% Recovery)	98.8 %			60 - 130	
trans-1,3-Dichloropropene (% Recovery)	97.9 %			60 - 130	
1,1,2-Trichloroethane (% Recovery)	98.3 %			60 - 130	
2-Hexanone (% Recovery)	109 %			60 - 130	

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Tetrachloroethene (% Recovery)	99.1 %	60 - 130
1,3-Dichloropropane (% Recovery)	99.5 %	60 - 130
Dibromochloromethane (% Recovery)	96.0 %	60 - 130
1,2-Dibromoethane (EDB) (% Recovery)	96.4 %	60 - 130
Chlorobenzene (% Recovery)	97.5 %	60 - 130
Ethylbenzene (% Recovery)	97.6 %	60 - 130
1,1,1,2-Tetrachloroethane (% Recovery)	96.4 %	60 - 130
m,p-Xylene (% Recovery)	98.1 %	60 - 130
o-Xylene (% Recovery)	96.7 %	60 - 130
Styrene (% Recovery)	94.6 %	60 - 130
Bromoform (% Recovery)	97.9 %	60 - 130
Isopropylbenzene (% Recovery)	102 %	60 - 130
1,1,2,2-Tetrachloroethane (% Recovery)	100 %	60 - 130
1,2,3-Trichloropropane (% Recovery)	102 %	60 - 130
n-Propylbenzene (% Recovery)	96.2 %	60 - 130
Bromobenzene (% Recovery)	97.6 %	60 - 130
1,3,5-Trimethylbenzene (% Recovery)	101 %	60 - 130
2-Chlorotoluene (% Recovery)	98.8 %	60 - 130
4-Chlorotoluene (% Recovery)	100 %	60 - 130
tert-Butylbenzene (% Recovery)	97.4 %	60 - 130
1,2,4-Trimethylbenzene (% Recovery)	101 %	60 - 130
sec-Butylbenzene (% Recovery)	101 %	60 - 130
p-Isopropyltoluene (% Recovery)	103 %	60 - 130
1,3-Dichlorobenzene (% Recovery)	99.9 %	60 - 130
1,4-Dichlorobenzene (% Recovery)	97.8 %	60 - 130
n-Butylbenzene (% Recovery)	98.9 %	60 - 130
1,2-Dichlorobenzene (% Recovery)	100 %	60 - 130
1,2-Dibromo-3-chloropropane (% Recovery)	97.8 %	60 - 130
1,2,4-Trichlorobenzene (% Recovery)	99.3 %	60 - 130
Hexachlorobutadiene (% Recovery)	100 %	60 - 130
Naphthalene (% Recovery)	99.8 %	60 - 130
1,2,3-Trichlorobenzene (% Recovery)	97.9 %	60 - 130
Dilution Factor	1	
Analyzed By	Jeff Ruehr	
Analysis Date/Time	9/25/2013 14:03	

Analytical Quality Control Results Report

Batch: 13092607	Semi-VOA water (Prep)
WS-003	LIMS ID: 2013-3400

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	9/26/2013 08:00				
2-Fluorophenol (% Recovery)	57.7 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	84.1 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	88.1 %			40 - 110	
2,4,6-Tribromophenol (% Recovery)	81.2 %			40 - 110	
Terphenyl-d14 (% Recovery)	89.7 %			40 - 125	
Methyl Methanesulfonate (RPD)	0 %				0 - 40
Ethyl methanesulfonate (RPD)	0 %				0 - 40
Phenol (RPD)	11.2 %				0 - 40
Aniline (RPD)	6.0 %				0 - 40
Bis(2-chloroethyl)ether (RPD)	0 %				0 - 40
2-Chlorophenol (RPD)	12.4 %				0 - 40
1,3-Dichlorobenzene (RPD)	0 %				0 - 40
1,4-Dichlorobenzene (RPD)	0 %				0 - 40
Benzyl alcohol (RPD)	10.4 %				0 - 40
1,2-Dichlorobenzene (RPD)	0 %				0 - 40
2-Methylphenol (RPD)	0 %				0 - 40
Acetophenone (RPD)	2.1 %				0 - 40
4-Methylphenol (RPD)	0 %				0 - 40
N-Nitrosodi-n-propylamine (RPD)	0 %				0 - 40
Hexachloroethane (RPD)	0 %				0 - 40
Nitrobenzene (RPD)	0 %				0 - 40
N-Nitrosopiperidine (RPD)	0 %				0 - 40
Isophorone (RPD)	0 %				0 - 40
2-Nitrophenol (RPD)	0 %				0 - 40
2,4-Dimethylphenol (RPD)	0 %				0 - 40
Bis(2-chloroethoxy)methane (RPD)	0 %				0 - 40
2,4-Dichlorophenol (RPD)	0 %				0 - 40
1,2,4-Trichlorobenzene (RPD)	0 %				0 - 40
Naphthalene (RPD)	0 %				0 - 40

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4-Chloroaniline (RPD)	0 %	0 - 40
2,6-Dichlorophenol (RPD)	0 %	0 - 40
Hexachlorobutadiene (RPD)	0 %	0 - 40
N-Nitrosodibutylamine (RPD)	200 %	0 - 40
4-Chloro-3-methylphenol (RPD)	0 %	0 - 40
2-Methylnaphthalene (RPD)	4.4 %	0 - 40
1,2,4,5-Tetrachlorobenzene (RPD)	0 %	0 - 40
Hexachlorocyclopentadiene (RPD)	0 %	0 - 40
2,4,6-Trichlorophenol (RPD)	0 %	0 - 40
2,4,5-Trichlorophenol (RPD)	0 %	0 - 40
2-Chloronaphthalene (RPD)	0 %	0 - 40
1-Chloronaphthalene (RPD)	0 %	0 - 40
2-Nitroaniline (RPD)	0 %	0 - 40
Dimethyl phthalate (RPD)	0 %	0 - 40
2,6-Dinitrotoluene (RPD)	0 %	0 - 40
Acenaphthylene (RPD)	0 %	0 - 40
3-Nitroaniline (RPD)	0 %	0 - 40
Acenaphthene (RPD)	0 %	0 - 40
2,4-Dinitrophenol (RPD)	0 %	0 - 40
Pentachlorobenzene (RPD)	0 %	0 - 40
4-Nitrophenol (RPD)	7.7 %	0 - 40
Dibenzofuran (RPD)	0 %	0 - 40
2,4-Dinitrotoluene (RPD)	0 %	0 - 40
2,3,4,6-Tetrachlorophenol (RPD)	0 %	0 - 40
Diethyl phthalate (RPD)	34.5 %	0 - 40
Fluorene (RPD)	0 %	0 - 40
4-Chlorophenyl phenyl ether (RPD)	0 %	0 - 40
4-Nitroaniline (RPD)	0 %	0 - 40
4,6-Dinitro-2-methylphenol (RPD)	0 %	0 - 40
Diphenylamine (RPD)	0 %	0 - 40
Azobenzene (RPD)	0 %	0 - 40
4-Bromophenyl phenyl ether (RPD)	0 %	0 - 40
Hexachlorobenzene (RPD)	0 %	0 - 40
Pentachlorophenol (RPD)	200 %	0 - 40
Pentachloronitrobenzene (RPD)	0 %	0 - 40
Pronamide (RPD)	0 %	0 - 40
Phenanthrene (RPD)	0 %	0 - 40
Anthracene (RPD)	0 %	0 - 40
Carbazole (RPD)	0 %	0 - 40
Di-n-butyl phthalate (RPD)	57.9 %	0 - 40

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Fluoranthene (RPD)	0 %	0 - 40
Pyrene (RPD)	0 %	0 - 40
Dimethylaminoazobenzene (RPD)	0 %	0 - 40
Butyl benzyl phthalate (RPD)	0 %	0 - 40
Benzo (a) anthracene (RPD)	0 %	0 - 40
Chrysene (RPD)	0 %	0 - 40
Bis(2-ethylhexyl)phthalate (RPD)	6.2 %	0 - 40
Di-n-octyl phthalate (RPD)	2.7 %	0 - 40
Benzo (b) fluoranthene (RPD)	0 %	0 - 40
7,12-Dimethylbenz (a) anthracene (RPD)	0 %	0 - 40
Benzo (k) fluoranthene (RPD)	0 %	0 - 40
Benzo (a) pyrene (RPD)	0 %	0 - 40
3-Methylcholanthrene (RPD)	0 %	0 - 40
Indeno (1,2,3-cd) pyrene (RPD)	0 %	0 - 40
Dibenzo (a,h) anthracene (RPD)	0 %	0 - 40
Benzo (g,h,i) perylene (RPD)	0 %	0 - 40
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	9/26/2013 1:30 PM	

WS-003	LIMS ID: 2013-3400
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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	9/26/2013 08:00				
2-Fluorophenol (% Recovery)	53.1 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	80.1 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	73.9 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	72.0 %			40 - 125	
Terphenyl-d14 (% Recovery)	89.4 %			40 - 125	
Phenol (% Recovery)	34.8 %			25 - 125	
2-Chlorophenol (% Recovery)	66.7 %			25 - 125	
1,4-Dichlorobenzene (% Recovery)	87.5 %			25 - 125	
N-Nitrosodi-n-propylamine (% Recovery)	83.0 %			25 - 125	
1,2,4-Trichlorobenzene (% Recovery)	76.6 %			25 - 125	
4-Chloro-3-methylphenol (% Recovery)	69.1 %			25 - 125	
Acenaphthene (% Recovery)	83.4 %			25 - 125	

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4-Nitrophenol (% Recovery)	38.3 %	25 - 125
2,4-Dinitrotoluene (% Recovery)	82.5 %	25 - 125
Pentachlorophenol (% Recovery)	98.1 %	25 - 125
Pyrene (% Recovery)	88.4 %	25 - 125
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	9/26/2013 1:59 PM	

WS-003	LIMS ID: 2013-3400
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Semi Volatiles - water MSD

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	9/26/2013 08:00				
2-Fluorophenol (% Recovery)	40.9 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	85.4 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	82.8 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	65.4 %			40 - 125	
Terphenyl-d14 (% Recovery)	80.6 %			40 - 125	
Phenol (% Recovery)	32.1 %			25 - 125	
Phenol (RPD)	8.2 %				0 - 40
2-Chlorophenol (% Recovery)	71.4 %			25 - 125	
2-Chlorophenol (RPD)	6.7 %				0 - 40
1,4-Dichlorobenzene (RPD)	6.7 %				0 - 40
1,4-Dichlorobenzene (% Recovery)	81.8 %			25 - 125	
N-Nitrosodi-n-propylamine (% Recovery)	88.8 %			25 - 125	
N-Nitrosodi-n-propylamine (RPD)	6.8 %				0 - 40
1,2,4-Trichlorobenzene (RPD)	13.6 %				0 - 40
1,2,4-Trichlorobenzene (% Recovery)	87.7 %			25 - 125	
4-Chloro-3-methylphenol (% Recovery)	69.4 %			25 - 125	
4-Chloro-3-methylphenol (RPD)	0.3 %				0 - 40
Acenaphthene (% Recovery)	91.1 %			25 - 125	
Acenaphthene (RPD)	8.8 %				0 - 40
4-Nitrophenol (% Recovery)	40.5 %			25 - 125	
4-Nitrophenol (RPD)	5.4 %				0 - 40
2,4-Dinitrotoluene (% Recovery)	92.4 %			25 - 125	
2,4-Dinitrotoluene (RPD)	11.4 %				0 - 40
Pentachlorophenol (% Recovery)	99.8 %			25 - 125	

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Pentachlorophenol (RPD)	1.7 %	0 - 40
Pyrene (% Recovery)	82.2 %	25 - 125
Pyrene (RPD)	7.3 %	0 - 40
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	9/26/2013 2:28 PM	

MB	LIMS ID: 13092607-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	9/26/2013 08:00				
2-Fluorophenol (% Recovery)	53.6 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	87.4 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	79.6 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	79.1 %			40 - 125	
Terphenyl-d14 (% Recovery)	84.2 %			40 - 125	
Methyl Methanesulfonate	<0.2 ug/L	0.2	0.2		
Ethyl methanesulfonate	<0.2 ug/L	0.2	0.2		
Phenol	<0.2 ug/L	0.2	0.2		
Aniline	<0.2 ug/L	0.2	0.2		
Bis(2-chloroethyl)ether	<0.2 ug/L	0.2	0.2		
2-Chlorophenol	<0.2 ug/L	0.2	0.2		
1,3-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
1,4-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
Benzyl alcohol	<0.16 ug/L	0.16	0.16		
1,2-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
2-Methylphenol	<0.1 ug/L	0.1	0.1		
Acetophenone	<0.1 ug/L	0.1	0.1		
4-Methylphenol	<0.1 ug/L	0.1	0.1		
N-Nitrosodi-n-propylamine	<0.2 ug/L	0.2	0.2		
Hexachloroethane	<0.2 ug/L	0.2	0.2		
Nitrobenzene	<0.2 ug/L	0.2	0.2		
N-Nitrosopiperidine	<0.2 ug/L	0.2	0.2		
Isophorone	<0.1 ug/L	0.1	0.1		
2-Nitrophenol	<0.3 ug/L	0.3	0.3		
2,4-Dimethylphenol	<0.1 ug/L	0.1	0.1		

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

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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	0.856 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	9/26/2013 11:04		

LCS	LIMS ID: 13092607-LCS-01
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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	9/26/2013 08:00				
2-Fluorophenol (% Recovery)	53.2 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	88.8 %			50 - 125	
2-Fluorobiphenyl (% Recovery)	85.2 %			50 - 125	
2,4,6-Tribromophenol (% Recovery)	85.8 %			40 - 125	
Terphenyl-d14 (% Recovery)	92.7 %			50 - 125	
Methyl Methanesulfonate	437 ug/L				
Methyl Methanesulfonate (% Recovery)	72.9 %			50 - 150	
Ethyl methanesulfonate (% Recovery)	96.8 %			50 - 150	

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Ethyl methanesulfonate	581 ug/L	
Phenol	267 ug/L	
Phenol (% Recovery)	44.5 %	50 - 150
Aniline (% Recovery)	68.3 %	50 - 150
Aniline	410 ug/L	
Bis(2-chloroethyl)ether (% Recovery)	84.9 %	50 - 150
Bis(2-chloroethyl)ether	509 ug/L	
2-Chlorophenol (% Recovery)	73.2 %	50 - 150
2-Chlorophenol	439 ug/L	
1,3-Dichlorobenzene	411 ug/L	
1,3-Dichlorobenzene (% Recovery)	68.5 %	50 - 150
1,4-Dichlorobenzene (% Recovery)	73.5 %	50 - 150
1,4-Dichlorobenzene	441 ug/L	
Benzyl alcohol	524 ug/L	
Benzyl alcohol (% Recovery)	87.4 %	50 - 150
1,2-Dichlorobenzene (% Recovery)	73.3 %	50 - 150
1,2-Dichlorobenzene	440 ug/L	
2-Methylphenol	480 ug/L	
2-Methylphenol (% Recovery)	80.1 %	50 - 150
Acetophenone (% Recovery)	94.8 %	50 - 150
Acetophenone	569 ug/L	
4-Methylphenol	441 ug/L	
4-Methylphenol (% Recovery)	73.4 %	50 - 150
N-Nitrosodi-n-propylamine	524 ug/L	
N-Nitrosodi-n-propylamine (% Recovery)	87.4 %	50 - 150
Hexachloroethane (% Recovery)	58.6 %	50 - 150
Hexachloroethane	351 ug/L	
Nitrobenzene	516 ug/L	
Nitrobenzene (% Recovery)	86.1 %	50 - 150
N-Nitrosopiperidine (% Recovery)	90.7 %	50 - 150
N-Nitrosopiperidine	544 ug/L	
Isophorone	544 ug/L	
Isophorone (% Recovery)	90.7 %	50 - 150
2-Nitrophenol (% Recovery)	88.6 %	50 - 150
2-Nitrophenol	1060 ug/L	
2,4-Dimethylphenol	465 ug/L	
2,4-Dimethylphenol (% Recovery)	7.7 %	50 - 150
Bis(2-chloroethoxy)methane (% Recovery)	82.5 %	50 - 150
Bis(2-chloroethoxy)methane	495 ug/L	
2,4-Dichlorophenol	480 ug/L	

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2,4-Dichlorophenol (% Recovery)	80.0 %	50 - 150
1,2,4-Trichlorobenzene (% Recovery)	71.8 %	50 - 150
1,2,4-Trichlorobenzene	431 ug/L	
Naphthalene (% Recovery)	82.5 %	50 - 150
Naphthalene	495 ug/L	
4-Chloroaniline (% Recovery)	81.5 %	50 - 150
4-Chloroaniline	489 ug/L	
2,6-Dichlorophenol	537 ug/L	
2,6-Dichlorophenol (% Recovery)	89.5 %	50 - 150
Hexachlorobutadiene (% Recovery)	56.1 %	50 - 150
Hexachlorobutadiene	337 ug/L	
N-Nitrosodibutylamine (% Recovery)	87.3 %	50 - 150
N-Nitrosodibutylamine	524 ug/L	
4-Chloro-3-methylphenol (% Recovery)	83.0 %	50 - 150
4-Chloro-3-methylphenol	498 ug/L	
2-Methylnaphthalene	466 ug/L	
2-Methylnaphthalene (% Recovery)	77.7 %	50 - 150
1,2,4,5-Tetrachlorobenzene (% Recovery)	70.8 %	50 - 150
1,2,4,5-Tetrachlorobenzene	425 ug/L	
Hexachlorocyclopentadiene (% Recovery)	63.8 %	50 - 150
Hexachlorocyclopentadiene	383 ug/L	
2,4,6-Trichlorophenol (% Recovery)	83.5 %	50 - 150
2,4,6-Trichlorophenol	501 ug/L	
2,4,5-Trichlorophenol	481 ug/L	
2,4,5-Trichlorophenol (% Recovery)	80.2 %	50 - 150
2-Chloronaphthalene (% Recovery)	78.2 %	50 - 150
2-Chloronaphthalene	469 ug/L	
1-Chloronaphthalene	438 ug/L	
1-Chloronaphthalene (% Recovery)	73.0 %	50 - 150
2-Nitroaniline (% Recovery)	85.8 %	50 - 150
2-Nitroaniline	514 ug/L	
Dimethyl phthalate	517 ug/L	
Dimethyl phthalate (% Recovery)	86.2 %	50 - 150
2,6-Dinitrotoluene (% Recovery)	90.7 %	50 - 150
2,6-Dinitrotoluene	544 ug/L	
Acenaphthylene	506 ug/L	
Acenaphthylene (% Recovery)	84.4 %	50 - 150
3-Nitroaniline (% Recovery)	82.0 %	50 - 150
3-Nitroaniline	492 ug/L	
Acenaphthene	479 ug/L	

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Acenaphthene (% Recovery)	79.8 %	50 - 150
2,4-Dinitrophenol (% Recovery)	77.6 %	50 - 150
2,4-Dinitrophenol	4650 ug/L	
Pentachlorobenzene	445 ug/L	
Pentachlorobenzene (% Recovery)	74.2 %	50 - 150
4-Nitrophenol (% Recovery)	32.3 %	50 - 150
4-Nitrophenol	969 ug/L	
Dibenzofuran (% Recovery)	82.2 %	50 - 150
Dibenzofuran	493 ug/L	
2,4-Dinitrotoluene (% Recovery)	88.1 %	50 - 150
2,4-Dinitrotoluene	529 ug/L	
2,3,4,6-Tetrachlorophenol	1030 ug/L	
2,3,4,6-Tetrachlorophenol (% Recovery)	85.7 %	50 - 150
Diethyl phthalate (% Recovery)	93.2 %	50 - 150
Diethyl phthalate	559 ug/L	
Fluorene	489 ug/L	
Fluorene (% Recovery)	81.5 %	50 - 150
4-Chlorophenyl phenyl ether (% Recovery)	80.2 %	50 - 150
4-Chlorophenyl phenyl ether	481 ug/L	
4-Nitroaniline	516 ug/L	
4-Nitroaniline (% Recovery)	86.0 %	50 - 150
4,6-Dinitro-2-methylphenol (% Recovery)	86.3 %	50 - 150
4,6-Dinitro-2-methylphenol	5180 ug/L	
Diphenylamine (% Recovery)	88.2 %	50 - 150
Diphenylamine	529 ug/L	
Azobenzene (% Recovery)	88.8 %	50 - 150
Azobenzene	533 ug/L	
4-Bromophenyl phenyl ether	544 ug/L	
4-Bromophenyl phenyl ether (% Recovery)	90.7 %	50 - 150
Hexachlorobenzene	513 ug/L	
Hexachlorobenzene (% Recovery)	85.5 %	50 - 150
Pentachlorophenol (% Recovery)	92.9 %	50 - 150
Pentachlorophenol	2790 ug/L	
Pentachloronitrobenzene	531 ug/L	
Pentachloronitrobenzene (% Recovery)	88.5 %	50 - 150
Pronamide (% Recovery)	93.3 %	50 - 150
Pronamide	560 ug/L	
Phenanthrene	554 ug/L	
Phenanthrene (% Recovery)	92.4 %	50 - 150
Anthracene (% Recovery)	89.3 %	50 - 150

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Anthracene	536 ug/L	
Carbazole	553 ug/L	
Carbazole (% Recovery)	92.2 %	50 - 150
Di-n-butyl phthalate (% Recovery)	127 %	50 - 150
Di-n-butyl phthalate	763 ug/L	
Fluoranthene	570 ug/L	
Fluoranthene (% Recovery)	95.0 %	50 - 150
Pyrene (% Recovery)	85.2 %	50 - 150
Pyrene	511 ug/L	
Dimethylaminoazobenzene	527 ug/L	
Dimethylaminoazobenzene (% Recovery)	87.9 %	50 - 150
Butyl benzyl phthalate (% Recovery)	91.9 %	50 - 150
Butyl benzyl phthalate	551 ug/L	
Benzo (a) anthracene (% Recovery)	93.6 %	50 - 150
Benzo (a) anthracene	561 ug/L	
Chrysene	551 ug/L	
Chrysene (% Recovery)	91.8 %	50 - 150
Bis(2-ethylhexyl)phthalate (% Recovery)	94.2 %	50 - 150
Bis(2-ethylhexyl)phthalate	565 ug/L	
Di-n-octyl phthalate	538 ug/L	
Di-n-octyl phthalate (% Recovery)	89.7 %	50 - 150
Benzo (b) fluoranthene (% Recovery)	77.9 %	50 - 150
Benzo (b) fluoranthene	467 ug/L	
7,12-Dimethylbenz (a) anthracene	506 ug/L	
7,12-Dimethylbenz (a) anthracene (% Recovery)	84.4 %	50 - 150
Benzo (k) fluoranthene (% Recovery)	83.4 %	50 - 150
Benzo (k) fluoranthene	501 ug/L	
Benzo (a) pyrene (% Recovery)	86.2 %	50 - 150
Benzo (a) pyrene	517 ug/L	
3-Methylcholanthrene	495 ug/L	
3-Methylcholanthrene (% Recovery)	82.5 %	50 - 150
Indeno (1,2,3-cd) pyrene (% Recovery)	84.1 %	50 - 150
Indeno (1,2,3-cd) pyrene	504 ug/L	
Dibenzo (a,h) anthracene	504 ug/L	
Dibenzo (a,h) anthracene (% Recovery)	84.0 %	50 - 150
Benzo (g,h,i) perylene (% Recovery)	86.3 %	50 - 150
Benzo (g,h,i) perylene	518 ug/L	
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	9/26/2013 11:33	

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Analytical Quality Control Results Report

Batch: 13092604	ICP Metals - water (total)
WS-003	LIMS ID: 2013-3400

ICP Metals - water (Total) DUP

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum	50.3 ug/L	20	20		
Aluminum (RPD)	27.2 %				0 - 20
Antimony (RPD)	0 %				0 - 20
Antimony	<10 ug/L	5	10		
Arsenic	2.78 ug/L	0.5	1		
Arsenic (RPD)	5.0 %				0 - 20
Barium (RPD)	1.2 %				0 - 20
Barium	42.8 ug/L	2	10		
Beryllium	<0.5 ug/L	0.1	0.5		
Beryllium (RPD)	200 %				0 - 20
Boron (RPD)	2.0 %				0 - 20
Boron	<25 ug/L	5	25		
Cadmium	<1 ug/L	0.3	1		
Cadmium (RPD)	0 %				0 - 20
Calcium (RPD)	0.7 %				0 - 20
Calcium	6.67 mg/L	0.04	0.04		
Chromium	<1 ug/L	0.3	1		
Chromium (RPD)	39.0 %				0 - 20
Cobalt (RPD)	2.9 %				0 - 20
Cobalt	<1 ug/L	0.5	1		
Copper	<1 ug/L	0.5	1		
Copper (RPD)	27.5 %				0 - 20
Iron (RPD)	5.8 %				0 - 20
Iron	449 ug/L	10	20		
Lead	<1 ug/L	0.1	1		
Lead (RPD)	9.1 %				0 - 20
Magnesium (RPD)	0.6 %				0 - 20
Magnesium	3.15 mg/L	0.1	0.1		
Manganese	530 ug/L	0.2	1		
Manganese (RPD)	9.5 %				0 - 20
Nickel (RPD)	3.7 %				0 - 20
Nickel	<2.5 ug/L	0.5	2.5		
Potassium	2.88 mg/L	0.05	1		

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Potassium (RPD)	0.6 %			0 - 20
Selenium (RPD)	8.0 %			0 - 20
Selenium	<2 ug/L	0.5	2	
Silver	<5 ug/L	1	5	
Silver (RPD)	0 %			0 - 20
Sodium	7.26 mg/L	0.02	0.04	
Sodium (RPD)	0.5 %			0 - 20
Thallium (RPD)	0 %			0 - 20
Thallium	<2.5 ug/L	0.05	2.5	
Vanadium (RPD)	27.4 %			0 - 20
Vanadium	<2.5 ug/L	1	2.5	
Zinc	<3 ug/L	2	3	
Zinc (RPD)	32.0 %			0 - 20
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Sep 25 2013 10:21PM			

WS-003	LIMS ID: 2013-3400
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ICP Metals - water (Total) MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	96.9 %			70 - 130	
Antimony (% Recovery)	102 %			70 - 130	
Arsenic (% Recovery)	103 %			70 - 130	
Barium (% Recovery)	97.7 %			70 - 130	
Beryllium (% Recovery)	102 %			70 - 130	
Boron (% Recovery)	105 %			70 - 130	
Cadmium (% Recovery)	103 %			70 - 130	
Calcium (% Recovery)	91.6 %			70 - 130	
Chromium (% Recovery)	95.5 %			70 - 130	
Cobalt (% Recovery)	97.0 %			70 - 130	
Copper (% Recovery)	98.6 %			70 - 130	
Iron (% Recovery)	107 %			70 - 130	
Lead (% Recovery)	96.8 %			70 - 130	
Magnesium (% Recovery)	98.5 %			70 - 130	
Manganese (% Recovery)	290 %			70 - 130	
Nickel (% Recovery)	97 %			70 - 130	
Potassium (% Recovery)	93.6 %			70 - 130	
Selenium (% Recovery)	109 %			70 - 130	
Silver (% Recovery)	74.9 %			70 - 130	

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Sodium (% Recovery)	100 %	70 - 130
Thallium (% Recovery)	96.8 %	70 - 130
Vanadium (% Recovery)	96.5 %	70 - 130
Zinc (% Recovery)	105 %	70 - 130
Dilution Factor	1	
Analyzed By	Robert Graddy	
Analysis Date/Time	Sep 25 2013 10:27PM	

WS-003	LIMS ID: 2013-3400
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ICP Metals - water (Total) MSD

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	98.6 %			70 - 130	
Aluminum (RPD)	1.5 %				0 - 20
Antimony (% Recovery)	102 %			70 - 130	
Antimony (RPD)	0 %				0 - 20
Arsenic (% Recovery)	104 %			70 - 130	
Arsenic (RPD)	0.2 %				0 - 20
Barium (% Recovery)	98.5 %			70 - 130	
Barium (RPD)	0.8 %				0 - 20
Beryllium (% Recovery)	102 %			70 - 130	
Beryllium (RPD)	0 %				0 - 20
Boron (% Recovery)	105 %			70 - 130	
Boron (RPD)	0.3 %				0 - 20
Cadmium (% Recovery)	102 %			70 - 130	
Cadmium (RPD)	0.7 %				0 - 20
Calcium (% Recovery)	92.1 %			70 - 130	
Calcium (RPD)	0.3 %				0 - 20
Chromium (% Recovery)	96.7 %			70 - 130	
Chromium (RPD)	1.3 %				0 - 20
Cobalt (% Recovery)	97.5 %			70 - 130	
Cobalt (RPD)	0.5 %				0 - 20
Copper (% Recovery)	98.9 %			70 - 130	
Copper (RPD)	0.3 %				0 - 20
Iron (% Recovery)	112 %			70 - 130	
Iron (RPD)	1.5 %				0 - 20
Lead (% Recovery)	96.4 %			70 - 130	
Lead (RPD)	0.4 %				0 - 20
Magnesium (% Recovery)	99.5 %			70 - 130	
Magnesium (RPD)	0.8 %				0 - 20

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Manganese (% Recovery)	300 %	70 - 130
Manganese (RPD)	0.4 %	0 - 20
Nickel (% Recovery)	97 %	70 - 130
Nickel (RPD)	0.1 %	0 - 20
Potassium (% Recovery)	93.9 %	70 - 130
Potassium (RPD)	0.2 %	0 - 20
Selenium (% Recovery)	109 %	70 - 130
Selenium (RPD)	0.5 %	0 - 20
Silver (% Recovery)	75.3 %	70 - 130
Silver (RPD)	0.5 %	0 - 20
Sodium (% Recovery)	101 %	70 - 130
Sodium (RPD)	0.7 %	0 - 20
Thallium (% Recovery)	96.4 %	70 - 130
Thallium (RPD)	0.4 %	0 - 20
Vanadium (% Recovery)	96.8 %	70 - 130
Vanadium (RPD)	0.3 %	0 - 20
Zinc (% Recovery)	105 %	70 - 130
Zinc (RPD)	0.3 %	0 - 20
Dilution Factor	1	
Analysis Date/Time	Sep 25 2013 10:34PM	
Analyzed By	Robert Graddy	

Analytical Quality Control Results Report

Batch: 13092405	Oil and Grease - water
WS-003	LIMS ID: 2013-3400

Oil and Grease - water DUP

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease	<2.5 mg/L	2.5	2.5		
Oil and Grease (RPD)	0 %				0 - 20
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	09-26-2013 0800				

WS-003	LIMS ID: 2013-3400
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Oil and Grease - water MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease (% Recovery)	95.0 %			70 - 130	
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	09-26-2013 0800				

WS-003	LIMS ID: 2013-3400
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Oil and Grease - water MSD

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease (% Recovery)	94.5 %			70 - 130	
Oil and Grease (RPD)	0.5 %				0 - 20
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	09-26-2013 0800				

MB	LIMS ID: 13092405-MB-01
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Oil and Grease - water MB

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Oil and Grease	<2.5 mg/L	2.5	2.5		
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	09-26-2013 0800				

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LCS	LIMS ID: 13092405-LCS-01
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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)	96.5 %			70 - 130	
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	09-26-2013 0800				

Analytical Quality Control Results Report

Batch: 13092603	ICP Metals - water (Diss.)
WS-003	LIMS ID: 2013-3400

ICP Metals - water (Dissolved) DUP

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum	<20 ug/L	20	20		
Aluminum (RPD)	11.4 %				0 - 20
Antimony (RPD)	147 %				0 - 20
Antimony	<5 ug/L	1	5		
Arsenic	1.96 ug/L	0.2	0.5		
Arsenic (RPD)	4.3 %				0 - 20
Barium (RPD)	0.4 %				0 - 20
Barium	17.0 ug/L	0.4	2		
Beryllium	<0.1 ug/L	0.04	0.1		
Beryllium (RPD)	0 %				0 - 20
Boron (RPD)	1.8 %				0 - 20
Boron	21.4 ug/L	2	5		
Cadmium	<0.1 ug/L	0.05	0.1		
Cadmium (RPD)	0 %				0 - 20
Calcium (RPD)	0.3 %				0 - 20
Calcium	6.61 mg/L	0.03	0.03		
Chromium	<0.5 ug/L	0.05	0.5		
Chromium (RPD)	90.9 %				0 - 20
Cobalt (RPD)	11.8 %				0 - 20
Cobalt	<0.5 ug/L	0.05	0.5		
Copper	<0.5 ug/L	0.2	0.5		
Copper (RPD)	530 %				0 - 20
Iron (RPD)	5.9 %				0 - 20
Iron	<20 ug/L	5	20		
Lead	<0.3 ug/L	0.02	0.3		
Lead (RPD)	0 %				0 - 20
Magnesium (RPD)	0.5 %				0 - 20
Magnesium	3.13 mg/L	0.01	0.02		
Manganese	17 ug/L	0.07	0.3		
Manganese (RPD)	25 %				0 - 20
Nickel (RPD)	19 %				0 - 20
Nickel	<0.5 ug/L	0.15	0.5		
Potassium	2.84 mg/L	0.01	0.02		

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Potassium (RPD)	0 %			0 - 20
Selenium (RPD)	13.5 %			0 - 20
Selenium	<1 ug/L	0.2	1	
Silicon Dioxide	8.39 mg/L	0.01	0.05	
Silicon Dioxide (RPD)	0.4 %			0 - 20
Silver	<0.5 ug/L	0.02	0.5	
Silver (RPD)	0 %			0 - 20
Sodium	7.46 mg/L	0.01	0.02	
Sodium (RPD)	0 %			0 - 20
Thallium (RPD)	0 %			0 - 20
Thallium	<0.5 ug/L	0	0.5	
Vanadium (RPD)	28.6 %			0 - 20
Vanadium	<0.5 ug/L	0.3	0.5	
Zinc	<1 ug/L	0.3	1	
Zinc (RPD)	0 %			0 - 20
Hardness	29 mg/L	1	1	
Hardness (RPD)	0 %			0 - 20
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	Sep 25 2013 6:13PM			

WS-003	LIMS ID: 2013-3400
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ICP Metals - water (Dissolved) MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	93.6 %			70 - 130	
Antimony (% Recovery)	94.0 %			70 - 130	
Arsenic (% Recovery)	93.9 %			70 - 130	
Barium (% Recovery)	89.9 %			70 - 130	
Beryllium (% Recovery)	93.4 %			70 - 130	
Boron (% Recovery)	96.1 %			70 - 130	
Cadmium (% Recovery)	93.5 %			70 - 130	
Calcium (% Recovery)	86.0 %			70 - 130	
Chromium (% Recovery)	87.9 %			70 - 130	
Cobalt (% Recovery)	88.0 %			70 - 130	
Copper (% Recovery)	89.2 %			70 - 130	
Iron (% Recovery)	87.8 %			70 - 130	
Lead (% Recovery)	89.0 %			70 - 130	
Magnesium (% Recovery)	91.7 %			70 - 130	
Manganese (% Recovery)	87 %			70 - 130	

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Nickel (% Recovery)	88 %	70 - 130
Potassium (% Recovery)	87.9 %	70 - 130
Selenium (% Recovery)	100 %	70 - 130
Silver (% Recovery)	81.6 %	70 - 130
Sodium (% Recovery)	93.4 %	70 - 130
Thallium (% Recovery)	88.1 %	70 - 130
Vanadium (% Recovery)	87.8 %	70 - 130
Zinc (% Recovery)	96.2 %	70 - 130
Dilution Factor	1	
Analyzed By	Robert Graddy	
Analysis Date/Time	Sep 25 2013 6:19PM	

WS-003	LIMS ID: 2013-3400
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ICP Metals - water (Dissolved) MSD

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	93.2 %			70 - 130	
Aluminum (RPD)	0.5 %				0 - 20
Antimony (% Recovery)	94.3 %			70 - 130	
Antimony (RPD)	0.4 %				0 - 20
Arsenic (% Recovery)	96.4 %			70 - 130	
Arsenic (RPD)	2.3 %				0 - 20
Barium (% Recovery)	90.0 %			70 - 130	
Barium (RPD)	0.2 %				0 - 20
Beryllium (% Recovery)	92.6 %			70 - 130	
Beryllium (RPD)	0.8 %				0 - 20
Boron (% Recovery)	96.7 %			70 - 130	
Boron (RPD)	0.5 %				0 - 20
Cadmium (% Recovery)	93.5 %			70 - 130	
Cadmium (RPD)	0.1 %				0 - 20
Calcium (% Recovery)	85.1 %			70 - 130	
Calcium (RPD)	0.6 %				0 - 20
Chromium (% Recovery)	88.4 %			70 - 130	
Chromium (RPD)	0.6 %				0 - 20
Cobalt (% Recovery)	89.2 %			70 - 130	
Cobalt (RPD)	1.4 %				0 - 20
Copper (% Recovery)	89.8 %			70 - 130	
Copper (RPD)	0.7 %				0 - 20
Iron (% Recovery)	87.5 %			70 - 130	
Iron (RPD)	0.3 %				0 - 20

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Lead (% Recovery)	89.2 %	70 - 130	
Lead (RPD)	0.2 %		0 - 20
Magnesium (% Recovery)	92.7 %	70 - 130	
Magnesium (RPD)	0.8 %		0 - 20
Manganese (% Recovery)	88 %	70 - 130	
Manganese (RPD)	0.8 %		0 - 20
Nickel (% Recovery)	89 %	70 - 130	
Nickel (RPD)	1.2 %		0 - 20
Potassium (% Recovery)	87.3 %	70 - 130	
Potassium (RPD)	0.5 %		0 - 20
Selenium (% Recovery)	103 %	70 - 130	
Selenium (RPD)	2.1 %		0 - 20
Silver (% Recovery)	81.8 %	70 - 130	
Silver (RPD)	0.3 %		0 - 20
Sodium (% Recovery)	94.9 %	70 - 130	
Sodium (RPD)	0.9 %		0 - 20
Thallium (% Recovery)	88.2 %	70 - 130	
Thallium (RPD)	0.2 %		0 - 20
Vanadium (% Recovery)	88.2 %	70 - 130	
Vanadium (RPD)	0.4 %		0 - 20
Zinc (% Recovery)	97.0 %	70 - 130	
Zinc (RPD)	0.8 %		0 - 20
Dilution Factor	1		
Analyzed By	Robert Graddy		
Analysis Date/Time	Sep 25 2013 6:25PM		

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Analytical Quality Control Results Report

Batch: 13100303			Turbidity - water		
WS-003			LIMS ID: 2013-3400		
Turbidity - water DUP			Run: 1		
Parameter	Result	DL	RL	Accuracy Control	Precision Control
Turbidity	12.9 NTU	0.02	0.02		
Turbidity (RPD)	0.2 %				0 - 20
Dilution Factor	1				
Analyzed By	Angela H. Rice				
Analysis Date/Time	9/25/2013 15:04				