



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

Client Report For: Exxon Oil Spill (Groundwater) 2013 1394-1402
Attention:
Client Address:

,

Report Date: May 09, 2013
LAB ID: AR13APR29-01
Comment:

Approved By: _____

Date: May 09, 2013

Client: Special Samples

Client Sample ID: TW-24-01

Lab ID: 2013-1394

Collection Date: 4/27/2013 11:00:00 AM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13050101 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	98.5	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	91.6	70-130			%
<i>Toluene-d8 (% Recovery)</i>	94.8	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	100	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L

Methyl isobutyl ketone	<8.1	8.1	8.10	ug/L
Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	4/30/2013 17:02			

Client: Special Samples

Client Sample ID: TW-24-02

Lab ID: 2013-1395

Collection Date: 4/27/2013 11:30:00 AM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13050101 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	96.2	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	89.1	70-130			%
<i>Toluene-d8 (% Recovery)</i>	88.7	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	98.3	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	2.63	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	0.516	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	4/29/2013 11:28 AM			

Client: Special Samples

Client Sample ID: TW-32-01

Lab ID: 2013-1396

Collection Date: 4/27/2013 12:30:00 PM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13050101 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Dibromofluoromethane (% Recovery)	100	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	92.3	70-130			%
Toluene-d8 (% Recovery)	93.2	70-130			%
4-Bromofluorobenzene (% Recovery)	104	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	0.67	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	0.512	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	1.02	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	4/29/2013 11:54 AM			

Client: Special Samples

Client Sample ID: TW-44-03

Lab ID: 2013-1397

Collection Date: 4/27/2013 1:00:00 PM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13050101 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	96.1	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	91.1	70-130			%
<i>Toluene-d8 (% Recovery)</i>	91.2	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	103	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	0.73	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	4/29/2013 12:19 PM			

Client: Special Samples

Client Sample ID: TW-44-02

Lab ID: 2013-1398

Collection Date: 4/27/2013 2:00:00 PM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13050101 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	94.0	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	91.8	70-130			%
<i>Toluene-d8 (% Recovery)</i>	89.8	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	97.6	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	16.8	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	25.8	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	0.774	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	0.571	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	1.48	1.2	1.2	ug/L
o-Xylene	0.829	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	4/29/2013 12:44 PM			

Client: Special Samples

Client Sample ID: TW-36-02

Lab ID: 2013-1399

Collection Date: 4/27/2013 2:30:00 PM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13050101 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Dibromofluoromethane (% Recovery)	96.4	70-130			%
1,2-Dichloroethane-d4 (% Recovery)	91.6	70-130			%
Toluene-d8 (% Recovery)	92.9	70-130			%
4-Bromofluorobenzene (% Recovery)	100	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	6.64	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	20.2	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	0.853	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	0.531	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	2.93	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	4/29/2013 1:09 PM			

Client: Special Samples

Client Sample ID: TW-40-01

Lab ID: 2013-1400

Collection Date: 4/27/2013 3:00:00 PM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13050101 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	94.7	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	88.1	70-130			%
<i>Toluene-d8 (% Recovery)</i>	91.1	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	95.9	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	0.626	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	4/29/2013 1:35 PM			

Client: Special Samples

Client Sample ID: TW-32-01

Lab ID: 2013-1401

Collection Date: 4/27/2013 3:45:00 PM

Matrix: Water

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13050101 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	99.9	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	92.8	70-130			%
<i>Toluene-d8 (% Recovery)</i>	93.0	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	101	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	234	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
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	1.29	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	0.634	0.57	0.57		ug/L

trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	4/29/2013 2:00 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

		<u>Limit</u>		
Methyl ethyl ketone	524	128	12.8	ug/L
Dilution Factor	10			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	4/30/2013 5:28 PM			

Client: Special Samples	Client Sample ID: Volatiles Trip Blank
Lab ID: 2013-1402	Collection Date: 4/26/2013 1:00:00 PM
Matrix: Water	

Analyses

Volatile Organics by GCMS

EPA 8260C

Batch: 13050101 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
<i>Dibromofluoromethane (% Recovery)</i>	98.1	70-130			%
<i>1,2-Dichloroethane-d4 (% Recovery)</i>	88.4	70-130			%
<i>Toluene-d8 (% Recovery)</i>	87.5	70-130			%
<i>4-Bromofluorobenzene (% Recovery)</i>	90.6	70-130			%
Dichlorodifluoromethane	<1.12	1.12	1.12		ug/L
Chloromethane	<0.58	0.58	0.58		ug/L
Vinyl chloride	<0.82	0.82	0.82		ug/L
Bromomethane	<3.9	3.9	3.90		ug/L
Chloroethane	<2.68	2.68	2.68		ug/L
Trichlorofluoromethane	<0.51	0.51	0.51		ug/L
1,1-Dichloroethene	<0.43	0.43	0.43		ug/L
Acetone	<10.5	10.5	10.5		ug/L
Methylene chloride	<2.5	2.5	2.5		ug/L
Methyl tert-butyl ether	<0.83	0.83	0.83		ug/L
trans-1,2-Dichloroethene	<0.59	0.59	0.59		ug/L
1,1-Dichloroethane	<0.42	0.42	0.42		ug/L
Methyl ethyl ketone	<12.8	12.8	12.8		ug/L
cis-1,2-Dichloroethene	<1.15	1.15	1.15		ug/L
2,2-Dichloropropane	<0.81	0.81	0.81		ug/L
Bromochloromethane	<0.66	0.66	0.66		ug/L
Chloroform	<0.27	0.27	0.27		ug/L
1,1,1-Trichloroethane	<0.46	0.46	0.46		ug/L
1,1-Dichloropropene	<0.59	0.59	0.59		ug/L
Carbon tetrachloride	<0.6	0.6	0.6		ug/L
Benzene	<0.66	0.66	0.66		ug/L
1,2-Dichloroethane	<1.15	1.15	1.15		ug/L
Trichloroethene	<0.6	0.6	0.60		ug/L
1,2-Dichloropropane	<0.98	0.98	0.98		ug/L
Dibromomethane	<1.78	1.78	1.78		ug/L
Bromodichloromethane	<0.65	0.65	0.65		ug/L
cis-1,3-Dichloropropene	<0.86	0.86	0.86		ug/L
Methyl isobutyl ketone	<8.1	8.1	8.10		ug/L

Toluene	<0.57	0.57	0.57	ug/L
trans-1,3-Dichloropropene	<0.84	0.84	0.84	ug/L
1,1,2-Trichloroethane	<0.78	0.78	0.78	ug/L
2-Hexanone	<9.5	9.5	9.5	ug/L
Tetrachloroethene	<0.96	0.96	0.96	ug/L
1,3-Dichloropropane	<0.94	0.94	0.94	ug/L
Dibromochloromethane	<1.25	1.25	1.25	ug/L
1,2-Dibromoethane (EDB)	<0.68	0.68	0.68	ug/L
Chlorobenzene	<0.62	0.62	0.62	ug/L
Ethylbenzene	<0.51	0.51	0.51	ug/L
1,1,1,2-Tetrachloroethane	<0.57	0.57	0.57	ug/L
m,p-Xylene	<1.2	1.2	1.2	ug/L
o-Xylene	<0.5	0.5	0.5	ug/L
Styrene	<0.53	0.53	0.53	ug/L
Bromoform	<1.56	1.56	1.56	ug/L
Isopropylbenzene	<0.59	0.59	0.59	ug/L
1,1,1,2-Tetrachloroethane	<0.39	0.39	0.39	ug/L
1,2,3-Trichloropropane	<1.83	1.83	1.83	ug/L
n-Propylbenzene	<0.49	0.49	0.49	ug/L
Bromobenzene	<0.5	0.5	0.5	ug/L
1,3,5-Trimethylbenzene	<0.3	0.3	0.30	ug/L
2-Chlorotoluene	<0.66	0.66	0.66	ug/L
4-Chlorotoluene	<0.8	0.8	0.80	ug/L
tert-Butylbenzene	<0.85	0.85	0.85	ug/L
1,2,4-Trimethylbenzene	<0.46	0.46	0.46	ug/L
sec-Butylbenzene	<0.63	0.63	0.63	ug/L
p-Isopropyltoluene	<0.59	0.59	0.59	ug/L
1,3-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,4-Dichlorobenzene	<0.53	0.53	0.53	ug/L
n-Butylbenzene	<0.72	0.72	0.72	ug/L
1,2-Dichlorobenzene	<0.7	0.7	0.70	ug/L
1,2-Dibromo-3-chloropropane	<0.86	0.86	0.86	ug/L
1,2,4-Trichlorobenzene	<1.14	1.14	1.14	ug/L
Naphthalene	<1.53	1.53	1.53	ug/L
1,2,3-Trichlorobenzene	<1.3	1.3	1.3	ug/L
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	4/29/2013 11:03 AM			

Client: Special Samples	Client Sample ID: TW-24-01
Lab ID: 2013-1394	Collection Date: 4/27/2013 11:00:00 AM
Matrix: Water	

Analyses

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13050701 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	27.5	40-110			%
Nitrobenzene-d5 (% Recovery)	73.3	50-110			%
2-Fluorobiphenyl (% Recovery)	67.3	50-110			%
2,4,6-Tribromophenol (% Recovery)	53.0	40-110			%
Terphenyl-d14 (% Recovery)	68.6	50-110			%
Methyl Methanesulfonate	<0.2	0.2	100		ug/L
Ethyl methanesulfonate	<0.2	0.2	100		ug/L
Phenol	<0.2	0.2	100		ug/L
Aniline	<0.2	0.2	100		ug/L
Bis(2-chloroethyl)ether	<0.2	0.2	100		ug/L
2-Chlorophenol	<0.2	0.2	100		ug/L
1,3-Dichlorobenzene	<0.12	0.12	60		ug/L
1,4-Dichlorobenzene	<0.12	0.12	60		ug/L
Benzyl alcohol	<0.16	0.16	80		ug/L
1,2-Dichlorobenzene	<0.12	0.12	60		ug/L
2-Methylphenol	<0.1	0.1	50		ug/L
Acetophenone	<0.1	0.1	50		ug/L
4-Methylphenol	<0.1	0.1	50		ug/L
N-Nitrosodi-n-propylamine	<0.2	0.2	100		ug/L
Hexachloroethane	<0.2	0.2	100		ug/L
Nitrobenzene	<0.2	0.2	100		ug/L
N-Nitrosopiperidine	<0.2	0.2	100		ug/L
Isophorone	<0.1	0.1	50		ug/L
2-Nitrophenol	<0.3	0.3	150		ug/L
2,4-Dimethylphenol	<0.1	0.1	50		ug/L
Bis(2-chloroethoxy)methane	<0.2	0.2	100		ug/L
2,4-Dichlorophenol	<0.2	0.2	100		ug/L
1,2,4-Trichlorobenzene	<0.12	0.12	60		ug/L
Naphthalene	<0.08	0.08	40		ug/L
4-Chloroaniline	<0.1	0.1	50		ug/L
2,6-Dichlorophenol	<0.2	0.2	100		ug/L
Hexachlorobutadiene	<0.2	0.2	100		ug/L

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

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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	5/6/2013 11:27 AM			
Prep By	Ed Harris			
Prep Date/Time	4/30/2013 08:00			

Client: Special Samples

Client Sample ID: TW-24-02

Lab ID: 2013-1395

Collection Date: 4/27/2013 11:30:00 AM

Matrix: Water

Analyses

Semi-Volatiles by GC/MS

EPA 3510C/EPA 8270D

Batch: 13050701 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
2-Fluorophenol (% Recovery)	12.6	40-110			%
Nitrobenzene-d5 (% Recovery)	76.8	50-110			%
2-Fluorobiphenyl (% Recovery)	68.3	50-110			%
2,4,6-Tribromophenol (% Recovery)	19.0	40-110			%
Terphenyl-d14 (% Recovery)	63.6	50-110			%
Methyl Methanesulfonate	<0.476	0.476	100		ug/L
Ethyl methanesulfonate	<0.476	0.476	100		ug/L
Phenol	<0.476	0.476	100		ug/L
Aniline	<0.476	0.476	100		ug/L
Bis(2-chloroethyl)ether	<0.476	0.476	100		ug/L
2-Chlorophenol	<0.476	0.476	100		ug/L
1,3-Dichlorobenzene	<0.286	0.286	60		ug/L
1,4-Dichlorobenzene	<0.286	0.286	60		ug/L
Benzyl alcohol	0.389	0.381	80		ug/L
1,2-Dichlorobenzene	<0.286	0.286	60		ug/L
2-Methylphenol	<0.238	0.238	50		ug/L
Acetophenone	<0.238	0.238	50		ug/L
4-Methylphenol	0.696	0.238	50		ug/L
N-Nitrosodi-n-propylamine	<0.476	0.476	100		ug/L
Hexachloroethane	<0.476	0.476	100		ug/L
Nitrobenzene	<0.476	0.476	100		ug/L
N-Nitrosopiperidine	<0.476	0.476	100		ug/L
Isophorone	<0.238	0.238	50		ug/L
2-Nitrophenol	<0.714	0.714	150		ug/L
2,4-Dimethylphenol	<0.238	0.238	50		ug/L
Bis(2-chloroethoxy)methane	<0.476	0.476	100		ug/L
2,4-Dichlorophenol	<0.476	0.476	100		ug/L
1,2,4-Trichlorobenzene	<0.286	0.286	60		ug/L
Naphthalene	<0.190	0.190	40		ug/L
4-Chloroaniline	<0.238	0.238	50		ug/L
2,6-Dichlorophenol	<0.476	0.476	100		ug/L
Hexachlorobutadiene	<0.476	0.476	100		ug/L

N-Nitrosodibutylamine	<0.476	0.476	100	ug/L
4-Chloro-3-methylphenol	<0.381	0.381	80	ug/L
2-Methylnaphthalene	<0.238	0.238	50	ug/L
1,2,4,5-Tetrachlorobenzene	<0.238	0.238	50	ug/L
Hexachlorocyclopentadiene	<0.381	0.381	80	ug/L
2,4,6-Trichlorophenol	<0.476	0.476	100	ug/L
2,4,5-Trichlorophenol	<0.476	0.476	100	ug/L
2-Chloronaphthalene	<0.238	0.238	50	ug/L
1-Chloronaphthalene	<0.238	0.238	50	ug/L
2-Nitroaniline	<0.476	0.476	100	ug/L
Dimethyl phthalate	<0.476	0.476	100	ug/L
2,6-Dinitrotoluene	<0.476	0.476	100	ug/L
Acenaphthylene	<0.190	0.190	40	ug/L
3-Nitroaniline	<0.476	0.476	100	ug/L
Acenaphthene	<0.238	0.238	50	ug/L
2,4-Dinitrophenol	<9.52	9.52	2000	ug/L
Pentachlorobenzene	<0.286	0.286	60	ug/L
4-Nitrophenol	<4.76	4.76	1000	ug/L
Dibenzofuran	<0.238	0.238	50	ug/L
2,4-Dinitrotoluene	<0.476	0.476	100	ug/L
2,3,4,6-Tetrachlorophenol	<1.43	1.43	300	ug/L
Diethyl phthalate	<0.476	0.476	100	ug/L
Fluorene	<0.238	0.238	50	ug/L
4-Chlorophenyl phenyl ether	<0.238	0.238	50	ug/L
4-Nitroaniline	<0.476	0.476	100	ug/L
4,6-Dinitro-2-methylphenol	<14.3	14.3	3000	ug/L
Diphenylamine	<0.238	0.238	50	ug/L
Azobenzene	<0.190	0.190	40	ug/L
4-Bromophenyl phenyl ether	<0.476	0.476	100	ug/L
Hexachlorobenzene	<0.381	0.381	80	ug/L
Pentachlorophenol	<2.38	2.38	500	ug/L
Pentachloronitrobenzene	<0.476	0.476	100	ug/L
Pronamide	<0.476	0.476	100	ug/L
Phenanthrene	<0.190	0.190	40	ug/L
Anthracene	<0.190	0.190	40	ug/L
Carbazole	<0.238	0.238	50	ug/L
Di-n-butyl phthalate	0.734	0.476	100	ug/L
Fluoranthene	<0.190	0.190	40	ug/L
Pyrene	<0.190	0.190	40	ug/L
Dimethylaminoazobenzene	<0.476	0.476	100	ug/L

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Butyl benzyl phthalate	<0.714	0.714	150	ug/L
Benzo (a) anthracene	<0.238	0.238	50	ug/L
Chrysene	<0.238	0.238	50	ug/L
Bis(2-ethylhexyl)phthalate	<0.714	0.714	150	ug/L
Di-n-octyl phthalate	<0.714	0.714	150	ug/L
Benzo (b) fluoranthene	<0.381	0.381	80	ug/L
7,12-Dimethylbenz (a) anthracene	<0.476	0.476	100	ug/L
Benzo (k) fluoranthene	<0.381	0.381	80	ug/L
Benzo (a) pyrene	<0.381	0.381	80	ug/L
3-Methylcholanthrene	<0.476	0.476	100	ug/L
Indeno (1,2,3-cd) pyrene	<0.476	0.476	100	ug/L
Dibenzo (a,h) anthracene	<0.381	0.381	80	ug/L
Benzo (g,h,i) perylene	<0.381	0.381	80	ug/L
Initial Volume	210			mL
Final Volume	1			mL
Dilution Factor	1			
Analyzed By	Ed Harris			
Analysis Date/Time	5/6/2013 11:56 AM			
Prep By	Ed Harris			
Prep Date/Time	4/30/2013 08:00			

Client: Special Samples

Client Sample ID: TW-24-01

Lab ID: 2013-1394

Collection Date: 4/27/2013 11:00:00 AM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13050801 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	38.2	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	21.4	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	16.1	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	8.47	0.03	0.03		mg/L
Chromium	<0.5	0.5	0.05		ug/L
Cobalt	2.02	0.5	0.05		ug/L
Copper	2.37	0.5	0.2		ug/L
Iron	123	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.42	0.02	0.01		mg/L
Manganese	282	0.3	0.07		ug/L
Nickel	1.39	0.5	0.15		ug/L
Potassium	1.50	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	5.09	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	3.41	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	<0.5	0.5	0.3		ug/L
Zinc	4.89	1	0.3		ug/L
Hardness	27.0	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 10:14AM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13050802 Run: 2

Result Reporting MDL Qual Unit

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		<u>Limit</u>		
Aluminum	6290	200	20	ug/L
Iron	7120	200	10.0	ug/L
Lead	<10	10	0.1	ug/L
Dilution Factor	10			
Analyzed By	Robert Graddy			
Analysis Date/Time	May 7 2013 8:49PM			
Prep By				
Prep Date/Time				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13050802 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Antimony	<10	10	5		ug/L
Arsenic	1.26	1	0.5		ug/L
Barium	57.1	10	2.0		ug/L
Beryllium	0.63	0.5	0.1		ug/L
Boron	<25	25	5.0		ug/L
Cadmium	<1	1	0.3		ug/L
Calcium	9.4	0.04	0.04		mg/L
Chromium	5.69	1	0.3		ug/L
Cobalt	4.94	1	0.5		ug/L
Copper	6.87	1	0.5		ug/L
Lead	7.47	1	0.1		ug/L
Magnesium	2.02	0.1	0.1		mg/L
Manganese	391	1	0.2		ug/L
Nickel	4.97	2.5	0.5		ug/L
Potassium	1.81	1	0.05		mg/L
Selenium	<2	2	0.5		ug/L
Silver	<5	5	1.0		ug/L
Sodium	3.43	0.04	0.02		mg/L
Thallium	<2.5	2.5	0.05		ug/L
Vanadium	6.47	2.5	1.0		ug/L
Zinc	19.2	3	2.0		ug/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 4:34PM				
Prep By					
Prep Date/Time					

Client: Special Samples	Client Sample ID: TW-24-02
Lab ID: 2013-1395	Collection Date: 4/27/2013 11:30:00 AM
Matrix: Water	

Analyses

<i>Dissolved Metals by EPA 200.8</i>	<i>EPA 200.8</i>	<i>Batch: 13050801 Run: 1</i>			
	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	206	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	3.16	0.5	0.2		ug/L
Barium	43.6	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	28.0	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	6.08	0.03	0.03		mg/L
Chromium	0.52	0.5	0.05		ug/L
Cobalt	20.3	0.5	0.05		ug/L
Copper	0.53	0.5	0.2		ug/L
Lead	0.47	0.3	0.02		ug/L
Magnesium	3.44	0.02	0.01		mg/L
Nickel	3.56	0.5	0.15		ug/L
Potassium	1.01	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	6.96	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	16.7	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	0.81	0.5	0.3		ug/L
Zinc	9.62	1	0.3		ug/L
Hardness	29.3	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 10:39AM				

<i>Dissolved Metals by EPA 200.8</i>	<i>EPA 200.8</i>	<i>Batch: 13050801 Run: 2</i>			
	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Iron	30800	2000	5.0		ug/L

Manganese	4150	30	0.07	ug/L
Dilution Factor	100			
Analyzed By	Robert Graddy			
Analysis Date/Time	May 7 2013 2:48PM			

Total Metals by EPA 200.8

EPA 200.8

Batch: 13050802 Run: 2

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	15400	200	20		ug/L
Iron	33400	200	10.0		ug/L
Manganese	4320	10	0.2		ug/L
Dilution Factor	10				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 9:02PM				
Prep By					
Prep Date/Time					

Total Metals by EPA 200.8

EPA 200.8

Batch: 13050802 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Antimony	<10	10	5		ug/L
Arsenic	2.36	1	0.5		ug/L
Barium	105	10	2.0		ug/L
Beryllium	1.14	0.5	0.1		ug/L
Boron	39.8	25	5.0		ug/L
Cadmium	<1	1	0.3		ug/L
Calcium	7.22	0.04	0.04		mg/L
Chromium	7.73	1	0.3		ug/L
Cobalt	23.5	1	0.5		ug/L
Copper	6.30	1	0.5		ug/L
Lead	15.0	1	0.1		ug/L
Magnesium	4.35	0.1	0.1		mg/L
Nickel	8.56	2.5	0.5		ug/L
Potassium	1.42	1	0.05		mg/L
Selenium	<2	2	0.5		ug/L
Silver	<5	5	1.0		ug/L
Sodium	25.0	0.04	0.02		mg/L
Thallium	<2.5	2.5	0.05		ug/L
Vanadium	9.59	2.5	1.0		ug/L

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Zinc	27.6	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	May 7 2013 5:00PM			
Prep By				
Prep Date/Time				

Client: Special Samples	Client Sample ID: TW-32-01
Lab ID: 2013-1396	Collection Date: 4/27/2013 12:30:00 PM
Matrix: Water	

Analyses

<i>Dissolved Metals by EPA 200.8</i>	<i>EPA 200.8</i>	<i>Batch: 13050801 Run: 1</i>			
	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	3120	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.98	0.5	0.2		ug/L
Barium	154	2	0.4		ug/L
Beryllium	1.94	0.1	0.04		ug/L
Boron	109	5	2.0		ug/L
Cadmium	0.11	0.1	0.05		ug/L
Calcium	7.50	0.03	0.03		mg/L
Chromium	4.61	0.5	0.05		ug/L
Cobalt	29.9	0.5	0.05		ug/L
Copper	7.46	0.5	0.2		ug/L
Lead	21.4	0.3	0.02		ug/L
Magnesium	2.18	0.02	0.01		mg/L
Nickel	10.4	0.5	0.15		ug/L
Potassium	1.58	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	18.2	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	36.5	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	6.06	0.5	0.3		ug/L
Zinc	34.8	1	0.3		ug/L
Hardness	27.7	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 10:46AM				

<i>Dissolved Metals by EPA 200.8</i>	<i>EPA 200.8</i>	<i>Batch: 13050801 Run: 2</i>			
	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Iron	3210	200	5.0		ug/L

Manganese	2270	3	0.07	ug/L
Dilution Factor	10			
Analyzed By	Robert Graddy			
Analysis Date/Time	May 7 2013 2:54PM			

Total Metals by EPA 200.8

EPA 200.8

Batch: 13050802 Run: 2

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	19800	200	20		ug/L
Arsenic	<10	10	0.5		ug/L
Iron	18000	200	10.0		ug/L
Manganese	2490	10	0.2		ug/L
Dilution Factor	10				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 9:21PM				
Prep By					
Prep Date/Time					

Total Metals by EPA 200.8

EPA 200.8

Batch: 13050802 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Antimony	<10	10	5		ug/L
Arsenic	1.24	1	0.5		ug/L
Barium	204	10	2.0		ug/L
Beryllium	1.62	0.5	0.1		ug/L
Boron	63.8	25	5.0		ug/L
Cadmium	<1	1	0.3		ug/L
Calcium	4.64	0.04	0.04		mg/L
Chromium	19.6	1	0.3		ug/L
Cobalt	33.2	1	0.5		ug/L
Copper	10.1	1	0.5		ug/L
Lead	30.9	1	0.1		ug/L
Magnesium	2.96	0.1	0.1		mg/L
Nickel	18.8	2.5	0.5		ug/L
Potassium	1.82	1	0.05		mg/L
Selenium	<2	2	0.5		ug/L
Silver	<5	5	1.0		ug/L
Sodium	14.7	0.04	0.02		mg/L
Thallium	<2.5	2.5	0.05		ug/L

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Vanadium	17.0	2.5	1.0	ug/L
Zinc	45.5	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	May 7 2013 5:06PM			
Prep By				
Prep Date/Time				

Client: Special Samples

Client Sample ID: TW-44-03

Lab ID: 2013-1397

Collection Date: 4/27/2013 1:00:00 PM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13050801 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	1220	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	90.1	2	0.4		ug/L
Beryllium	0.55	0.1	0.04		ug/L
Boron	24.8	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	4.66	0.03	0.03		mg/L
Chromium	1.04	0.5	0.05		ug/L
Cobalt	17.8	0.5	0.05		ug/L
Copper	3.86	0.5	0.2		ug/L
Iron	432	20	5.0		ug/L
Lead	3.83	0.3	0.02		ug/L
Magnesium	2.04	0.02	0.01		mg/L
Manganese	669	0.3	0.07		ug/L
Nickel	14.9	0.5	0.15		ug/L
Potassium	0.601	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	18.9	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	23.9	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	1.62	0.5	0.3		ug/L
Zinc	36.7	1	0.3		ug/L
Hardness	20.0	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 10:52AM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13050802 Run: 2

Result Reporting MDL Qual Unit

		<u>Limit</u>		
Aluminum	12300	200	20	ug/L
Iron	10100	200	10.0	ug/L
Dilution Factor	10			
Analyzed By	Robert Graddy			
Analysis Date/Time	May 7 2013 9:27PM			
Prep By				
Prep Date/Time				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13050802 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Antimony	<10	10	5		ug/L
Arsenic	<1	1	0.5		ug/L
Barium	130	10	2.0		ug/L
Beryllium	1.12	0.5	0.1		ug/L
Boron	<25	25	5.0		ug/L
Cadmium	<1	1	0.3		ug/L
Calcium	2.78	0.04	0.04		mg/L
Chromium	11.8	1	0.3		ug/L
Cobalt	12.9	1	0.5		ug/L
Copper	6.14	1	0.5		ug/L
Lead	12.2	1	0.1		ug/L
Magnesium	2.46	0.1	0.1		mg/L
Manganese	423	1	0.2		ug/L
Nickel	19.4	2.5	0.5		ug/L
Potassium	1.07	1	0.05		mg/L
Selenium	<2	2	0.5		ug/L
Silver	<5	5	1.0		ug/L
Sodium	17.5	0.04	0.02		mg/L
Thallium	<2.5	2.5	0.05		ug/L
Vanadium	10.2	2.5	1.0		ug/L
Zinc	37.2	3	2.0		ug/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 5:13PM				
Prep By					
Prep Date/Time					

Client: Special Samples

Client Sample ID: TW-44-02

Lab ID: 2013-1398

Collection Date: 4/27/2013 2:00:00 PM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13050801 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	1170	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	55.2	2	0.4		ug/L
Beryllium	0.39	0.1	0.04		ug/L
Boron	34.5	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	2.89	0.03	0.03		mg/L
Chromium	2.25	0.5	0.05		ug/L
Cobalt	23.6	0.5	0.05		ug/L
Copper	4.44	0.5	0.2		ug/L
Iron	698	20	5.0		ug/L
Lead	3.81	0.3	0.02		ug/L
Magnesium	1.73	0.02	0.01		mg/L
Manganese	263	0.3	0.07		ug/L
Nickel	13.4	0.5	0.15		ug/L
Potassium	0.622	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	21.2	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	26.6	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	1.48	0.5	0.3		ug/L
Zinc	19.8	1	0.3		ug/L
Hardness	14.3	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 10:58AM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13050802 Run: 1

Result Reporting MDL Qual Unit

		<u>Limit</u>		
Aluminum	4690	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	82.4	10	2.0	ug/L
Beryllium	0.63	0.5	0.1	ug/L
Boron	38.7	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	2.05	0.04	0.04	mg/L
Chromium	6.11	1	0.3	ug/L
Cobalt	35.5	1	0.5	ug/L
Copper	4.30	1	0.5	ug/L
Lead	6.77	1	0.1	ug/L
Magnesium	3.14	0.1	0.1	mg/L
Manganese	369	1	0.2	ug/L
Nickel	17.3	2.5	0.5	ug/L
Potassium	1.00	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	36.2	0.04	0.02	mg/L
Thallium	<2.5	2.5	0.05	ug/L
Vanadium	5.59	2.5	1.0	ug/L
Zinc	18.2	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	May 7 2013 5:32PM			
Prep By				
Prep Date/Time				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13050802 Run: 2

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Iron	6980	200	10.0		ug/L
Dilution Factor	10				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 9:33PM				
Prep By					
Prep Date/Time					

Client: Special Samples	Client Sample ID: TW-36-02
Lab ID: 2013-1399	Collection Date: 4/27/2013 2:30:00 PM
Matrix: Water	

Analyses

<i>Dissolved Metals by EPA 200.8</i>	<i>EPA 200.8</i>	<i>Batch: 13050801 Run: 1</i>			
	<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	57.8	2	0.4		ug/L
Beryllium	<0.1	0.1	0.04		ug/L
Boron	25.3	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	6.57	0.03	0.03		mg/L
Chromium	0.63	0.5	0.05		ug/L
Cobalt	16.1	0.5	0.05		ug/L
Copper	4.82	0.5	0.2		ug/L
Iron	239	20	5.0		ug/L
Lead	<0.3	0.3	0.02		ug/L
Magnesium	1.66	0.02	0.01		mg/L
Manganese	610	0.3	0.07		ug/L
Nickel	20.4	0.5	0.15		ug/L
Potassium	1.63	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	20.5	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	18.8	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	41.4	1	0.3		ug/L
Hardness	23.2	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 11:05AM				

<i>Total Metals by EPA 200.8</i>	<i>EPA 200.8</i>	<i>Batch: 13050802 Run: 1</i>			
	<u>Result</u>	<u>Reporting</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>

		<u>Limit</u>		
Aluminum	1620	20	20	ug/L
Antimony	<10	10	5	ug/L
Arsenic	<1	1	0.5	ug/L
Barium	68.8	10	2.0	ug/L
Beryllium	<0.5	0.5	0.1	ug/L
Boron	<25	25	5.0	ug/L
Cadmium	<1	1	0.3	ug/L
Calcium	6.32	0.04	0.04	mg/L
Chromium	3.39	1	0.3	ug/L
Cobalt	17.3	1	0.5	ug/L
Copper	5.36	1	0.5	ug/L
Iron	1220	20	10.0	ug/L
Lead	1.91	1	0.1	ug/L
Magnesium	1.89	0.1	0.1	mg/L
Manganese	551	1	0.2	ug/L
Nickel	19.3	2.5	0.5	ug/L
Potassium	1.79	1	0.05	mg/L
Selenium	<2	2	0.5	ug/L
Silver	<5	5	1.0	ug/L
Sodium	15.1	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	34.8	3	2.0	ug/L
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	May 7 2013 5:38PM			
Prep By				
Prep Date/Time				

Client: Special Samples

Client Sample ID: TW-40-01

Lab ID: 2013-1400

Collection Date: 4/27/2013 3:00:00 PM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13050801 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	620	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	0.66	0.5	0.2		ug/L
Barium	45.2	2	0.4		ug/L
Beryllium	0.13	0.1	0.04		ug/L
Boron	20.5	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	3.71	0.03	0.03		mg/L
Chromium	0.60	0.5	0.05		ug/L
Cobalt	21.8	0.5	0.05		ug/L
Copper	1.80	0.5	0.2		ug/L
Iron	1080	20	5.0		ug/L
Lead	1.03	0.3	0.02		ug/L
Magnesium	3.96	0.02	0.01		mg/L
Manganese	1470	0.3	0.07		ug/L
Nickel	18.6	0.5	0.15		ug/L
Potassium	1.04	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	12.2	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	12.6	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	0.84	0.5	0.3		ug/L
Zinc	18.4	1	0.3		ug/L
Hardness	25.6	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 11:24AM				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13050802 Run: 2

Result Reporting MDL Qual Unit

		<u>Limit</u>		
Aluminum	26700	200	20	ug/L
Iron	33200	200	10.0	ug/L
Manganese	2420	10	0.2	ug/L
Dilution Factor	10			
Analyzed By	Robert Graddy			
Analysis Date/Time	May 7 2013 9:40PM			
Prep By				
Prep Date/Time				

Total Metals by EPA 200.8

EPA 200.8

Batch: 13050802 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Antimony	<10	10	5		ug/L
Arsenic	1.27	1	0.5		ug/L
Barium	214	10	2.0		ug/L
Beryllium	2.06	0.5	0.1		ug/L
Boron	<25	25	5.0		ug/L
Cadmium	<1	1	0.3		ug/L
Calcium	3.27	0.04	0.04		mg/L
Chromium	21.0	1	0.3		ug/L
Cobalt	30.4	1	0.5		ug/L
Copper	12.2	1	0.5		ug/L
Lead	41.4	1	0.1		ug/L
Magnesium	6.18	0.1	0.1		mg/L
Nickel	27.2	2.5	0.5		ug/L
Potassium	1.86	1	0.05		mg/L
Selenium	<2	2	0.5		ug/L
Silver	<5	5	1.0		ug/L
Sodium	8.74	0.04	0.02		mg/L
Thallium	<2.5	2.5	0.05		ug/L
Vanadium	21.2	2.5	1.0		ug/L
Zinc	46.2	3	2.0		ug/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 5:45PM				
Prep By					
Prep Date/Time					

Client: Special Samples

Client Sample ID: TW-32-01

Lab ID: 2013-1401

Collection Date: 4/27/2013 3:45:00 PM

Matrix: Water

Analyses

Dissolved Metals by EPA 200.8

EPA 200.8

Batch: 13050801 Run: 1

	<u>Result</u>	<u>Reporting Limit</u>	<u>MDL</u>	<u>Qual</u>	<u>Unit</u>
Aluminum	1090	20	20		ug/L
Antimony	<5	5	1.0		ug/L
Arsenic	<0.5	0.5	0.2		ug/L
Barium	55.4	2	0.4		ug/L
Beryllium	0.23	0.1	0.04		ug/L
Boron	16.6	5	2.0		ug/L
Cadmium	<0.1	0.1	0.05		ug/L
Calcium	9.46	0.03	0.03		mg/L
Chromium	1.03	0.5	0.05		ug/L
Cobalt	16.0	0.5	0.05		ug/L
Copper	1.64	0.5	0.2		ug/L
Iron	411	20	5.0		ug/L
Lead	2.50	0.3	0.02		ug/L
Magnesium	2.26	0.02	0.01		mg/L
Manganese	658	0.3	0.07		ug/L
Nickel	10.00	0.5	0.15		ug/L
Potassium	1.23	0.02	0.01		mg/L
Selenium	<1	1	0.2		ug/L
Silicon Dioxide	19.7	0.05	0.01		mg/L
Silver	<0.5	0.5	0.02		ug/L
Sodium	14.2	0.02	0.01		mg/L
Thallium	<0.5	0.5	0.005		ug/L
Vanadium	1.48	0.5	0.3		ug/L
Zinc	14.3	1	0.3		ug/L
Hardness	33.0	1	1.0		mg/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 11:30AM				

Analytical Quality Control Results Report

Batch: 13050701	Semi-VOA water (Prep)
MB	LIMS ID: 13050701-MB-01

Semi Volatiles - water MB

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	4/30/2013 08:00				
2-Fluorophenol (% Recovery)	32.2 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	75.2 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	66.1 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	58.9 %			40 - 125	
Terphenyl-d14 (% Recovery)	76.5 %			40 - 125	
Methyl Methanesulfonate	<0.2 ug/L	0.2	0.2		
Ethyl methanesulfonate	<0.2 ug/L	0.2	0.2		
Phenol	<0.2 ug/L	0.2	0.2		
Aniline	<0.2 ug/L	0.2	0.2		
Bis(2-chloroethyl)ether	<0.2 ug/L	0.2	0.2		
2-Chlorophenol	<0.2 ug/L	0.2	0.2		
1,3-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
1,4-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
Benzyl alcohol	<0.16 ug/L	0.16	0.16		
1,2-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
2-Methylphenol	<0.1 ug/L	0.1	0.1		
Acetophenone	<0.1 ug/L	0.1	0.1		
4-Methylphenol	<0.1 ug/L	0.1	0.1		
N-Nitrosodi-n-propylamine	<0.2 ug/L	0.2	0.2		
Hexachloroethane	<0.2 ug/L	0.2	0.2		
Nitrobenzene	<0.2 ug/L	0.2	0.2		
N-Nitrosopiperidine	<0.2 ug/L	0.2	0.2		
Isophorone	<0.1 ug/L	0.1	0.1		
2-Nitrophenol	<0.3 ug/L	0.3	0.3		
2,4-Dimethylphenol	<0.1 ug/L	0.1	0.1		
Bis(2-chloroethoxy)methane	<0.2 ug/L	0.2	0.2		
2,4-Dichlorophenol	<0.2 ug/L	0.2	0.2		

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

Carbazole	<0.1 ug/L	0.1	0.1
Di-n-butyl phthalate	0.888 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	5/6/2013 10:28		

LCS	LIMS ID: 13050701-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	4/30/2013 08:00				
2-Fluorophenol (% Recovery)	30.0 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	76.3 %			50 - 125	
2-Fluorobiphenyl (% Recovery)	70.0 %			50 - 125	
2,4,6-Tribromophenol (% Recovery)	69.8 %			40 - 125	
Terphenyl-d14 (% Recovery)	78.7 %			50 - 125	
Methyl Methanesulfonate (% Recovery)	61.9 %			50 - 150	
Ethyl methanesulfonate (% Recovery)	63.8 %			50 - 150	
Phenol (% Recovery)	23.3 %			50 - 150	
Aniline (% Recovery)	43.6 %			50 - 150	
Bis(2-chloroethyl)ether (% Recovery)	77.6 %			50 - 150	

2-Chlorophenol (% Recovery)	72.3 %	50 - 150
1,3-Dichlorobenzene (% Recovery)	55.1 %	50 - 150
1,4-Dichlorobenzene (% Recovery)	53.1 %	50 - 150
Benzyl alcohol (% Recovery)	70.3 %	50 - 150
1,2-Dichlorobenzene (% Recovery)	55.7 %	50 - 150
2-Methylphenol (% Recovery)	50.5 %	50 - 150
Acetophenone (% Recovery)	82.8 %	50 - 150
4-Methylphenol (% Recovery)	43.7 %	50 - 150
N-Nitrosodi-n-propylamine (% Recovery)	80.9 %	50 - 150
Hexachloroethane (% Recovery)	48.2 %	50 - 150
Nitrobenzene (% Recovery)	78.7 %	50 - 150
N-Nitrosopiperidine (% Recovery)	80.6 %	50 - 150
Isophorone (% Recovery)	78.0 %	50 - 150
2-Nitrophenol (% Recovery)	80.3 %	50 - 150
2,4-Dimethylphenol (% Recovery)	1.8 %	50 - 150
Bis(2-chloroethoxy)methane (% Recovery)	69.0 %	50 - 150
2,4-Dichlorophenol (% Recovery)	72.5 %	50 - 150
1,2,4-Trichlorobenzene (% Recovery)	59.2 %	50 - 150
Naphthalene (% Recovery)	71.7 %	50 - 150
4-Chloroaniline (% Recovery)	60.7 %	50 - 150
2,6-Dichlorophenol (% Recovery)	74.5 %	50 - 150
Hexachlorobutadiene (% Recovery)	47.5 %	50 - 150
N-Nitrosodibutylamine (% Recovery)	78.3 %	50 - 150
4-Chloro-3-methylphenol (% Recovery)	70.4 %	50 - 150
2-Methylnaphthalene (% Recovery)	71.5 %	50 - 150
1,2,4,5-Tetrachlorobenzene (% Recovery)	64.1 %	50 - 150
Hexachlorocyclopentadiene (% Recovery)	55.9 %	50 - 150
2,4,6-Trichlorophenol (% Recovery)	77.3 %	50 - 150
2,4,5-Trichlorophenol (% Recovery)	69.2 %	50 - 150
2-Chloronaphthalene (% Recovery)	71.8 %	50 - 150
1-Chloronaphthalene (% Recovery)	71.8 %	50 - 150
2-Nitroaniline (% Recovery)	78.9 %	50 - 150
Dimethyl phthalate (% Recovery)	72.0 %	50 - 150
2,6-Dinitrotoluene (% Recovery)	85.8 %	50 - 150
Acenaphthylene (% Recovery)	77.7 %	50 - 150
3-Nitroaniline (% Recovery)	73.0 %	50 - 150
Acenaphthene (% Recovery)	73.2 %	50 - 150
2,4-Dinitrophenol (% Recovery)	72.1 %	50 - 150
Pentachlorobenzene (% Recovery)	77.3 %	50 - 150
4-Nitrophenol (% Recovery)	22.6 %	50 - 150

Dibenzofuran (% Recovery)	80.1 %	50 - 150
2,4-Dinitrotoluene (% Recovery)	91.0 %	50 - 150
2,3,4,6-Tetrachlorophenol (% Recovery)	77.1 %	50 - 150
Diethyl phthalate (% Recovery)	78.2 %	50 - 150
Fluorene (% Recovery)	74.2 %	50 - 150
4-Chlorophenyl phenyl ether (% Recovery)	75.1 %	50 - 150
4-Nitroaniline (% Recovery)	72.8 %	50 - 150
4,6-Dinitro-2-methylphenol (% Recovery)	69.8 %	50 - 150
Diphenylamine (% Recovery)	77.5 %	50 - 150
Azobenzene (% Recovery)	79.2 %	50 - 150
4-Bromophenyl phenyl ether (% Recovery)	80.0 %	50 - 150
Hexachlorobenzene (% Recovery)	72.9 %	50 - 150
Pentachlorophenol (% Recovery)	71.9 %	50 - 150
Pentachloronitrobenzene (% Recovery)	86.0 %	50 - 150
Pronamide (% Recovery)	84.6 %	50 - 150
Phenanthrene (% Recovery)	81.5 %	50 - 150
Anthracene (% Recovery)	74.1 %	50 - 150
Carbazole (% Recovery)	81.8 %	50 - 150
Di-n-butyl phthalate (% Recovery)	129 %	50 - 150
Fluoranthene (% Recovery)	79.9 %	50 - 150
Pyrene (% Recovery)	83.3 %	50 - 150
Dimethylaminoazobenzene (% Recovery)	75.7 %	50 - 150
Butyl benzyl phthalate (% Recovery)	73.5 %	50 - 150
Benzo (a) anthracene (% Recovery)	81.6 %	50 - 150
Chrysene (% Recovery)	85.1 %	50 - 150
Bis(2-ethylhexyl)phthalate (% Recovery)	78.0 %	50 - 150
Di-n-octyl phthalate (% Recovery)	72.5 %	50 - 150
Benzo (b) fluoranthene (% Recovery)	72.1 %	50 - 150
7,12-Dimethylbenz (a) anthracene (% Recovery)	65.4 %	50 - 150
Benzo (k) fluoranthene (% Recovery)	79.8 %	50 - 150
Benzo (a) pyrene (% Recovery)	80.2 %	50 - 150
3-Methylcholanthrene (% Recovery)	75.2 %	50 - 150
Indeno (1,2,3-cd) pyrene (% Recovery)	81.5 %	50 - 150
Dibenzo (a,h) anthracene (% Recovery)	83.4 %	50 - 150
Benzo (g,h,i) perylene (% Recovery)	82.5 %	50 - 150
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	5/6/2013 10:57	

Semi Volatiles - water MB

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	4/30/2013 13:00				
2-Fluorophenol (% Recovery)	31.5 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	67.0 %			40 - 125	
2-Fluorobiphenyl (% Recovery)	60.0 %			40 - 125	
2,4,6-Tribromophenol (% Recovery)	75.1 %			40 - 125	
Terphenyl-d14 (% Recovery)	80.3 %			40 - 125	
Methyl Methanesulfonate	<0.2 ug/L	0.2	0.2		
Ethyl methanesulfonate	<0.2 ug/L	0.2	0.2		
Phenol	<0.2 ug/L	0.2	0.2		
Aniline	<0.2 ug/L	0.2	0.2		
Bis(2-chloroethyl)ether	<0.2 ug/L	0.2	0.2		
2-Chlorophenol	<0.2 ug/L	0.2	0.2		
1,3-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
1,4-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
Benzyl alcohol	<0.16 ug/L	0.16	0.16		
1,2-Dichlorobenzene	<0.12 ug/L	0.12	0.12		
2-Methylphenol	<0.1 ug/L	0.1	0.1		
Acetophenone	<0.1 ug/L	0.1	0.1		
4-Methylphenol	<0.1 ug/L	0.1	0.1		
N-Nitrosodi-n-propylamine	<0.2 ug/L	0.2	0.2		
Hexachloroethane	<0.2 ug/L	0.2	0.2		
Nitrobenzene	<0.2 ug/L	0.2	0.2		
N-Nitrosopiperidine	<0.2 ug/L	0.2	0.2		
Isophorone	<0.1 ug/L	0.1	0.1		
2-Nitrophenol	<0.3 ug/L	0.3	0.3		
2,4-Dimethylphenol	<0.1 ug/L	0.1	0.1		
Bis(2-chloroethoxy)methane	<0.2 ug/L	0.2	0.2		
2,4-Dichlorophenol	<0.2 ug/L	0.2	0.2		
1,2,4-Trichlorobenzene	<0.12 ug/L	0.12	0.12		
Naphthalene	<0.08 ug/L	0.08	0.08		
4-Chloroaniline	<0.1 ug/L	0.1	0.1		
2,6-Dichlorophenol	<0.2 ug/L	0.2	0.2		
Hexachlorobutadiene	<0.2 ug/L	0.2	0.2		
N-Nitrosodibutylamine	<0.2 ug/L	0.2	0.2		
4-Chloro-3-methylphenol	<0.16 ug/L	0.16	0.16		

2-Methylnaphthalene	<0.12 ug/L	0.12	0.12
1,2,4,5-Tetrachlorobenzene	<0.1 ug/L	0.1	0.1
Hexachlorocyclopentadiene	<0.16 ug/L	0.16	0.16
2,4,6-Trichlorophenol	<0.2 ug/L	0.2	0.2
2,4,5-Trichlorophenol	<0.2 ug/L	0.2	0.2
2-Chloronaphthalene	<0.1 ug/L	0.1	0.1
1-Chloronaphthalene	<0.1 ug/L	0.1	0.1
2-Nitroaniline	<0.2 ug/L	0.2	0.2
Dimethyl phthalate	<0.2 ug/L	0.2	0.2
2,6-Dinitrotoluene	<0.2 ug/L	0.2	0.2
Acenaphthylene	<0.08 ug/L	0.08	0.08
3-Nitroaniline	<0.2 ug/L	0.2	0.2
Acenaphthene	<0.1 ug/L	0.1	0.1
2,4-Dinitrophenol	<4 ug/L	4	4
Pentachlorobenzene	<0.12 ug/L	0.12	0.12
4-Nitrophenol	<2 ug/L	2	2
Dibenzofuran	<0.1 ug/L	0.1	0.1
2,4-Dinitrotoluene	<0.2 ug/L	0.2	0.2
2,3,4,6-Tetrachlorophenol	<0.6 ug/L	0.6	0.6
Diethyl phthalate	<0.2 ug/L	0.2	0.2
Fluorene	<0.1 ug/L	0.1	0.1
4-Chlorophenyl phenyl ether	<0.1 ug/L	0.1	0.1
4-Nitroaniline	<0.2 ug/L	0.2	0.2
4,6-Dinitro-2-methylphenol	<6 ug/L	6	6
Diphenylamine	<0.1 ug/L	0.1	0.1
Azobenzene	<0.08 ug/L	0.08	0.08
4-Bromophenyl phenyl ether	<0.2 ug/L	0.2	0.2
Hexachlorobenzene	<0.16 ug/L	0.16	0.16
Pentachlorophenol	<1 ug/L	1	1
Pentachloronitrobenzene	<0.2 ug/L	0.2	0.2
Pronamide	<0.2 ug/L	0.2	0.2
Phenanthrene	<0.08 ug/L	0.08	0.08
Anthracene	<0.08 ug/L	0.08	0.08
Carbazole	<0.1 ug/L	0.1	0.1
Di-n-butyl phthalate	1.19 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	5/6/2013 18:46		

LCS	LIMS ID: 13050701-LCS-02
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Semi Volatiles - water LCS

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Initial Volume	500 mL				
Final Volume	1 mL				
Prep By	Ed Harris				
Prep Date/Time	4/30/2013 13:00				
2-Fluorophenol (% Recovery)	30.0 %			40 - 110	
Nitrobenzene-d5 (% Recovery)	77.9 %			50 - 125	
2-Fluorobiphenyl (% Recovery)	60.4 %			50 - 125	
2,4,6-Tribromophenol (% Recovery)	66.5 %			40 - 125	
Terphenyl-d14 (% Recovery)	76.1 %			50 - 125	
Methyl Methanesulfonate (% Recovery)	45.4 %			50 - 150	
Ethyl methanesulfonate (% Recovery)	61.4 %			50 - 150	
Phenol (% Recovery)	19.9 %			50 - 150	
Aniline (% Recovery)	37.5 %			50 - 150	
Bis(2-chloroethyl)ether (% Recovery)	72.8 %			50 - 150	
2-Chlorophenol (% Recovery)	63.3 %			50 - 150	
1,3-Dichlorobenzene (% Recovery)	53.4 %			50 - 150	
1,4-Dichlorobenzene (% Recovery)	51.9 %			50 - 150	
Benzyl alcohol (% Recovery)	51.6 %			50 - 150	
1,2-Dichlorobenzene (% Recovery)	52.2 %			50 - 150	
2-Methylphenol (% Recovery)	42.6 %			50 - 150	
Acetophenone (% Recovery)	78.6 %			50 - 150	

4-Methylphenol (% Recovery)	33.5 %	50 - 150
N-Nitrosodi-n-propylamine (% Recovery)	78.1 %	50 - 150
Hexachloroethane (% Recovery)	50.2 %	50 - 150
Nitrobenzene (% Recovery)	76.0 %	50 - 150
N-Nitrosopiperidine (% Recovery)	77.1 %	50 - 150
Isophorone (% Recovery)	75.5 %	50 - 150
2-Nitrophenol (% Recovery)	78.8 %	50 - 150
2,4-Dimethylphenol (% Recovery)	1.2 %	50 - 150
Bis(2-chloroethoxy)methane (% Recovery)	65.3 %	50 - 150
2,4-Dichlorophenol (% Recovery)	69.9 %	50 - 150
1,2,4-Trichlorobenzene (% Recovery)	60.3 %	50 - 150
Naphthalene (% Recovery)	66.5 %	50 - 150
4-Chloroaniline (% Recovery)	55.0 %	50 - 150
2,6-Dichlorophenol (% Recovery)	70.5 %	50 - 150
Hexachlorobutadiene (% Recovery)	50.1 %	50 - 150
N-Nitrosodibutylamine (% Recovery)	80.6 %	50 - 150
4-Chloro-3-methylphenol (% Recovery)	64.4 %	50 - 150
2-Methylnaphthalene (% Recovery)	65.3 %	50 - 150
1,2,4,5-Tetrachlorobenzene (% Recovery)	58.0 %	50 - 150
Hexachlorocyclopentadiene (% Recovery)	48.3 %	50 - 150
2,4,6-Trichlorophenol (% Recovery)	63.3 %	50 - 150
2,4,5-Trichlorophenol (% Recovery)	57.8 %	50 - 150
2-Chloronaphthalene (% Recovery)	58.2 %	50 - 150
1-Chloronaphthalene (% Recovery)	59.6 %	50 - 150
2-Nitroaniline (% Recovery)	66.2 %	50 - 150
Dimethyl phthalate (% Recovery)	64.6 %	50 - 150
2,6-Dinitrotoluene (% Recovery)	73.1 %	50 - 150
Acenaphthylene (% Recovery)	66.1 %	50 - 150
3-Nitroaniline (% Recovery)	66.3 %	50 - 150
Acenaphthene (% Recovery)	63.8 %	50 - 150
2,4-Dinitrophenol (% Recovery)	62.5 %	50 - 150
Pentachlorobenzene (% Recovery)	64.8 %	50 - 150
4-Nitrophenol (% Recovery)	20.6 %	50 - 150
Dibenzofuran (% Recovery)	66.4 %	50 - 150
2,4-Dinitrotoluene (% Recovery)	65.5 %	50 - 150
2,3,4,6-Tetrachlorophenol (% Recovery)	67.4 %	50 - 150
Diethyl phthalate (% Recovery)	69.5 %	50 - 150
Fluorene (% Recovery)	68.1 %	50 - 150
4-Chlorophenyl phenyl ether (% Recovery)	63.6 %	50 - 150
4-Nitroaniline (% Recovery)	77.8 %	50 - 150

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4,6-Dinitro-2-methylphenol (% Recovery)	56.7 %	50 - 150
Diphenylamine (% Recovery)	70.0 %	50 - 150
Azobenzene (% Recovery)	65.6 %	50 - 150
4-Bromophenyl phenyl ether (% Recovery)	72.1 %	50 - 150
Hexachlorobenzene (% Recovery)	68.2 %	50 - 150
Pentachlorophenol (% Recovery)	60.7 %	50 - 150
Pentachloronitrobenzene (% Recovery)	78.4 %	50 - 150
Pronamide (% Recovery)	71.9 %	50 - 150
Phenanthrene (% Recovery)	66.9 %	50 - 150
Anthracene (% Recovery)	67.2 %	50 - 150
Carbazole (% Recovery)	70.0 %	50 - 150
Di-n-butyl phthalate (% Recovery)	115 %	50 - 150
Fluoranthene (% Recovery)	66.7 %	50 - 150
Pyrene (% Recovery)	73.8 %	50 - 150
Dimethylaminoazobenzene (% Recovery)	73.5 %	50 - 150
Butyl benzyl phthalate (% Recovery)	71.6 %	50 - 150
Benzo (a) anthracene (% Recovery)	64.5 %	50 - 150
Chrysene (% Recovery)	69.1 %	50 - 150
Bis(2-ethylhexyl)phthalate (% Recovery)	71.8 %	50 - 150
Di-n-octyl phthalate (% Recovery)	65.5 %	50 - 150
Benzo (b) fluoranthene (% Recovery)	70.9 %	50 - 150
7,12-Dimethylbenz (a) anthracene (% Recovery)	52.6 %	50 - 150
Benzo (k) fluoranthene (% Recovery)	65.7 %	50 - 150
Benzo (a) pyrene (% Recovery)	66.5 %	50 - 150
3-Methylcholanthrene (% Recovery)	61.2 %	50 - 150
Indeno (1,2,3-cd) pyrene (% Recovery)	66.4 %	50 - 150
Dibenzo (a,h) anthracene (% Recovery)	65.2 %	50 - 150
Benzo (g,h,i) perylene (% Recovery)	63.5 %	50 - 150
Dilution Factor	1	
Analyzed By	Ed Harris	
Analysis Date/Time	5/6/2013 19:16	

Analytical Quality Control Results Report

Batch: 13050101	VOA - water
TW-24-01	LIMS ID: 2013-1394

Volatiles - water DUP

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Dibromofluoromethane (% Recovery)	101 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	93.4 %			70 - 130	
Toluene-d8 (% Recovery)	97.3 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	107 %			70 - 130	
Dichlorodifluoromethane	<1.12 ug/L	1.12	1.12		
Dichlorodifluoromethane (RPD)	0 %				0 - 20
Chloromethane (RPD)	0 %				0 - 20
Chloromethane	<0.58 ug/L	0.58	0.58		
Vinyl chloride	<0.82 ug/L	0.82	0.82		
Vinyl chloride (RPD)	0 %				0 - 20
Bromomethane (RPD)	0 %				0 - 20
Bromomethane	<3.9 ug/L	3.9	3.9		
Chloroethane	<2.68 ug/L	2.68	2.68		
Chloroethane (RPD)	0 %				0 - 20
Trichlorofluoromethane (RPD)	0 %				0 - 20
Trichlorofluoromethane	<0.51 ug/L	0.51	0.51		
1,1-Dichloroethene (RPD)	0 %				0 - 20
1,1-Dichloroethene	<0.43 ug/L	0.43	0.43		
Acetone	<10.5 ug/L	10.5	10.5		
Acetone (RPD)	2.6 %				0 - 20
Methylene chloride (RPD)	74.5 %				0 - 20
Methylene chloride	<2.5 ug/L	2.5	2.5		
Methyl tert-butyl ether	<0.83 ug/L	0.83	0.83		
Methyl tert-butyl ether (RPD)	0 %				0 - 20
trans-1,2-Dichloroethene (RPD)	0 %				0 - 20
trans-1,2-Dichloroethene	<0.59 ug/L	0.59	0.59		
1,1-Dichloroethane	<0.42 ug/L	0.42	0.42		
1,1-Dichloroethane (RPD)	0 %				0 - 20
Methyl ethyl ketone (RPD)	0 %				0 - 20
Methyl ethyl ketone	<12.8 ug/L	12.8	12.8		
cis-1,2-Dichloroethene	<1.15 ug/L	1.15	1.15		
cis-1,2-Dichloroethene (RPD)	0 %				0 - 20
2,2-Dichloropropane (RPD)	0 %				0 - 20

2,2-Dichloropropane	<0.81 ug/L	0.81	0.81	
Bromochloromethane	<0.66 ug/L	0.66	0.66	
Bromochloromethane (RPD)	0 %			0 - 20
Chloroform (RPD)	0 %			0 - 20
Chloroform	<0.27 ug/L	0.27	0.27	
1,1,1-Trichloroethane	<0.46 ug/L	0.46	0.46	
1,1,1-Trichloroethane (RPD)	0 %			0 - 20
1,1-Dichloropropene (RPD)	0 %			0 - 20
1,1-Dichloropropene	<0.59 ug/L	0.59	0.59	
Carbon tetrachloride	<0.6 ug/L	0.6	0.6	
Carbon tetrachloride (RPD)	0 %			0 - 20
Benzene (RPD)	0 %			0 - 20
Benzene	<0.66 ug/L	0.66	0.66	
1,2-Dichloroethane	<1.15 ug/L	1.15	1.15	
1,2-Dichloroethane (RPD)	0 %			0 - 20
Trichloroethene (RPD)	0 %			0 - 20
Trichloroethene	<0.6 ug/L	0.6	0.6	
1,2-Dichloropropane	<0.98 ug/L	0.98	0.98	
1,2-Dichloropropane (RPD)	0 %			0 - 20
Dibromomethane (RPD)	0 %			0 - 20
Dibromomethane	<1.78 ug/L	1.78	1.78	
Bromodichloromethane	<0.65 ug/L	0.65	0.65	
Bromodichloromethane (RPD)	0 %			0 - 20
cis-1,3-Dichloropropene (RPD)	0 %			0 - 20
cis-1,3-Dichloropropene	<0.86 ug/L	0.86	0.86	
Methyl isobutyl ketone	<8.1 ug/L	8.1	8.1	
Methyl isobutyl ketone (RPD)	0 %			0 - 20
Toluene (RPD)	5.2 %			0 - 20
Toluene	0.595 ug/L	0.57	0.57	
trans-1,3-Dichloropropene	<0.84 ug/L	0.84	0.84	
trans-1,3-Dichloropropene (RPD)	0 %			0 - 20
1,1,2-Trichloroethane (RPD)	0 %			0 - 20
1,1,2-Trichloroethane	<0.78 ug/L	0.78	0.78	
2-Hexanone	<9.5 ug/L	9.5	9.5	
2-Hexanone (RPD)	0 %			0 - 20
Tetrachloroethene (RPD)	0 %			0 - 20
Tetrachloroethene	<0.96 ug/L	0.96	0.96	
1,3-Dichloropropane	<0.94 ug/L	0.94	0.94	
1,3-Dichloropropane (RPD)	0 %			0 - 20
Dibromochloromethane (RPD)	0 %			0 - 20

Dibromochloromethane	<1.25 ug/L	1.25	1.25	
1,2-Dibromoethane (EDB)	<0.68 ug/L	0.68	0.68	
1,2-Dibromoethane (EDB) (RPD)	0 %			0 - 20
Chlorobenzene (RPD)	0 %			0 - 20
Chlorobenzene	<0.62 ug/L	0.62	0.62	
Ethylbenzene	<0.51 ug/L	0.51	0.51	
Ethylbenzene (RPD)	0 %			0 - 20
1,1,1,2-Tetrachloroethane (RPD)	0 %			0 - 20
1,1,1,2-Tetrachloroethane	<0.57 ug/L	0.57	0.57	
m,p-Xylene	<1.2 ug/L	1.2	1.2	
m,p-Xylene (RPD)	200 %			0 - 20
o-Xylene (RPD)	200 %			0 - 20
o-Xylene	<0.5 ug/L	0.5	0.5	
Styrene	<0.53 ug/L	0.53	0.53	
Styrene (RPD)	0 %			0 - 20
Bromoform (RPD)	0 %			0 - 20
Bromoform	<1.56 ug/L	1.56	1.56	
Isopropylbenzene	<0.59 ug/L	0.59	0.59	
Isopropylbenzene (RPD)	0 %			0 - 20
1,1,1,2-Tetrachloroethane (RPD)	0 %			0 - 20
1,1,1,2-Tetrachloroethane	<0.39 ug/L	0.39	0.39	
1,2,3-Trichloropropane	<1.83 ug/L	1.83	1.83	
1,2,3-Trichloropropane (RPD)	0 %			0 - 20
n-Propylbenzene (RPD)	0 %			0 - 20
n-Propylbenzene	<0.49 ug/L	0.49	0.49	
Bromobenzene	<0.5 ug/L	0.5	0.5	
Bromobenzene (RPD)	0 %			0 - 20
1,3,5-Trimethylbenzene (RPD)	0 %			0 - 20
1,3,5-Trimethylbenzene	<0.3 ug/L	0.3	0.3	
2-Chlorotoluene	<0.66 ug/L	0.66	0.66	
2-Chlorotoluene (RPD)	0 %			0 - 20
4-Chlorotoluene (RPD)	0 %			0 - 20
4-Chlorotoluene	<0.8 ug/L	0.8	0.8	
tert-Butylbenzene	<0.85 ug/L	0.85	0.85	
tert-Butylbenzene (RPD)	0 %			0 - 20
1,2,4-Trimethylbenzene (RPD)	0 %			0 - 20
1,2,4-Trimethylbenzene	<0.46 ug/L	0.46	0.46	
sec-Butylbenzene	<0.63 ug/L	0.63	0.63	
sec-Butylbenzene (RPD)	0 %			0 - 20
p-Isopropyltoluene (RPD)	0 %			0 - 20

p-Isopropyltoluene	<0.59 ug/L	0.59	0.59	
1,3-Dichlorobenzene	<0.7 ug/L	0.7	0.7	
1,3-Dichlorobenzene (RPD)	0 %			0 - 20
1,4-Dichlorobenzene (RPD)	0 %			0 - 20
1,4-Dichlorobenzene	<0.53 ug/L	0.53	0.53	
n-Butylbenzene	<0.72 ug/L	0.72	0.72	
n-Butylbenzene (RPD)	0 %			0 - 20
1,2-Dichlorobenzene (RPD)	0 %			0 - 20
1,2-Dichlorobenzene	<0.7 ug/L	0.7	0.7	
1,2-Dibromo-3-chloropropane	<0.86 ug/L	0.86	0.86	
1,2-Dibromo-3-chloropropane (RPD)	0 %			0 - 20
1,2,4-Trichlorobenzene (RPD)	0 %			0 - 20
1,2,4-Trichlorobenzene	<1.14 ug/L	1.14	1.14	
Naphthalene	<1.53 ug/L	1.53	1.53	
Naphthalene (RPD)	0 %			0 - 20
1,2,3-Trichlorobenzene (RPD)	0 %			0 - 20
1,2,3-Trichlorobenzene	<1.3 ug/L	1.3	1.3	
Dilution Factor	1			
Analyzed By	Jeff Ruehr			
Analysis Date/Time	4/29/2013 2:51 PM			

TW-24-01 **LIMS ID: 2013-1394**

Volatiles - water MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Dibromofluoromethane (% Recovery)	98.3 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	93.8 %			70 - 130	
Toluene-d8 (% Recovery)	89.8 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	102 %			70 - 130	
1,1-Dichloroethene (% Recovery)	96.6 %			70 - 130	
Benzene (% Recovery)	99.0 %			70 - 130	
Trichloroethene (% Recovery)	93.3 %			70 - 130	
Toluene (% Recovery)	84.9 %			70 - 130	
Chlorobenzene (% Recovery)	90.4 %			70 - 130	
Dilution Factor	1				
Analyzed By	Jeff Ruehr				
Analysis Date/Time	4/29/2013 15:16				

LCS **LIMS ID: 13050101-LCS-01**

Volatiles - water LCS

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Dibromofluoromethane (% Recovery)	96.8 %			70 - 130	
1,2-Dichloroethane-d4 (% Recovery)	98.3 %			70 - 130	
Toluene-d8 (% Recovery)	95.8 %			70 - 130	
4-Bromofluorobenzene (% Recovery)	99.7 %			70 - 130	
Dichlorodifluoromethane (% Recovery)	83.8 %			60 - 130	
Chloromethane (% Recovery)	83.2 %			60 - 130	
Vinyl chloride (% Recovery)	90.2 %			60 - 130	
Bromomethane (% Recovery)	73.9 %			60 - 130	
Chloroethane (% Recovery)	99.6 %			60 - 130	
Trichlorofluoromethane (% Recovery)	95.7 %			60 - 130	
1,1-Dichloroethene (% Recovery)	97.4 %			60 - 130	
Acetone (% Recovery)	100 %			60 - 130	
Methylene chloride (% Recovery)	98.8 %			60 - 130	
Methyl tert-butyl ether (% Recovery)	96.2 %			60 - 130	
trans-1,2-Dichloroethene (% Recovery)	97.6 %			60 - 130	
1,1-Dichloroethane (% Recovery)	98.6 %			60 - 130	
Methyl ethyl ketone (% Recovery)	98.0 %			60 - 130	
cis-1,2-Dichloroethene (% Recovery)	98.2 %			60 - 130	
2,2-Dichloropropane (% Recovery)	97.7 %			60 - 130	
Bromochloromethane (% Recovery)	96.5 %			60 - 130	
Chloroform (% Recovery)	96.2 %			60 - 130	
1,1,1-Trichloroethane (% Recovery)	96.7 %			60 - 130	
1,1-Dichloropropene (% Recovery)	96.9 %			60 - 130	
Carbon tetrachloride (% Recovery)	96.3 %			60 - 130	
Benzene (% Recovery)	98.5 %			60 - 130	
1,2-Dichloroethane (% Recovery)	95.7 %			60 - 130	
Trichloroethene (% Recovery)	97.6 %			60 - 130	
1,2-Dichloropropane (% Recovery)	91.5 %			60 - 130	
Dibromomethane (% Recovery)	91.8 %			60 - 130	
Bromodichloromethane (% Recovery)	94.8 %			60 - 130	
cis-1,3-Dichloropropene (% Recovery)	92.5 %			60 - 130	
Methyl isobutyl ketone (% Recovery)	91.1 %			60 - 130	
Toluene (% Recovery)	94.1 %			60 - 130	
trans-1,3-Dichloropropene (% Recovery)	92.3 %			60 - 130	
1,1,2-Trichloroethane (% Recovery)	90.7 %			60 - 130	
2-Hexanone (% Recovery)	95.3 %			60 - 130	
Tetrachloroethene (% Recovery)	98.7 %			60 - 130	
1,3-Dichloropropane (% Recovery)	91.3 %			60 - 130	
Dibromochloromethane (% Recovery)	92.2 %			60 - 130	

1,2-Dibromoethane (EDB) (% Recovery)	92.1 %	60 - 130
Chlorobenzene (% Recovery)	93.3 %	60 - 130
Ethylbenzene (% Recovery)	91.7 %	60 - 130
1,1,1,2-Tetrachloroethane (% Recovery)	94.4 %	60 - 130
m,p-Xylene (% Recovery)	96.1 %	60 - 130
o-Xylene (% Recovery)	94.5 %	60 - 130
Styrene (% Recovery)	91.3 %	60 - 130
Bromoform (% Recovery)	89.3 %	60 - 130
Isopropylbenzene (% Recovery)	95.6 %	60 - 130
1,1,1,2,2-Tetrachloroethane (% Recovery)	90.3 %	60 - 130
1,2,3-Trichloropropane (% Recovery)	92.6 %	60 - 130
n-Propylbenzene (% Recovery)	94.1 %	60 - 130
Bromobenzene (% Recovery)	98.7 %	60 - 130
1,3,5-Trimethylbenzene (% Recovery)	99.7 %	60 - 130
2-Chlorotoluene (% Recovery)	100 %	60 - 130
4-Chlorotoluene (% Recovery)	96.4 %	60 - 130
tert-Butylbenzene (% Recovery)	99.0 %	60 - 130
1,2,4-Trimethylbenzene (% Recovery)	97.0 %	60 - 130
sec-Butylbenzene (% Recovery)	100 %	60 - 130
p-Isopropyltoluene (% Recovery)	96.3 %	60 - 130
1,3-Dichlorobenzene (% Recovery)	94.9 %	60 - 130
1,4-Dichlorobenzene (% Recovery)	95.3 %	60 - 130
n-Butylbenzene (% Recovery)	97.4 %	60 - 130
1,2-Dichlorobenzene (% Recovery)	94.5 %	60 - 130
1,2-Dibromo-3-chloropropane (% Recovery)	88.4 %	60 - 130
1,2,4-Trichlorobenzene (% Recovery)	97.3 %	60 - 130
Naphthalene (% Recovery)	92.8 %	60 - 130
1,2,3-Trichlorobenzene (% Recovery)	95.0 %	60 - 130
Dilution Factor	1	
Analyzed By	Jeff Ruehr	
Analysis Date/Time	4/29/2013 9:10	

Analytical Quality Control Results Report

Batch: 13050801	ICP Metals - water (Diss.)
<i>TW-24-01</i>	<i>LIMS ID: 2013-1394</i>

ICP Metals - water (Dissolved) DUP

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Aluminum	39.3 ug/L	20	20		
Aluminum (RPD)	2.8 %				0 - 20
Antimony (RPD)	0 %				0 - 20
Antimony	<5 ug/L	1	5		
Arsenic	<0.5 ug/L	0.2	0.5		
Arsenic (RPD)	1.4 %				0 - 20
Barium (RPD)	0.7 %				0 - 20
Barium	21.3 ug/L	0.4	2		
Beryllium	<0.1 ug/L	0.04	0.1		
Beryllium (RPD)	11.3 %				0 - 20
Boron (RPD)	4.3 %				0 - 20
Boron	15.4 ug/L	2	5		
Cadmium	<0.1 ug/L	0.05	0.1		
Cadmium (RPD)	0 %				0 - 20
Calcium (RPD)	1.1 %				0 - 20
Calcium	8.37 mg/L	0.03	0.03		
Chromium	<0.5 ug/L	0.05	0.5		
Chromium (RPD)	1.3 %				0 - 20
Cobalt (RPD)	1.4 %				0 - 20
Cobalt	2.00 ug/L	0.05	0.5		
Copper	2.26 ug/L	0.2	0.5		
Copper (RPD)	4.5 %				0 - 20
Iron (RPD)	14.7 %				0 - 20
Iron	142 ug/L	5	20		
Lead	<0.3 ug/L	0.02	0.3		
Lead (RPD)	14.9 %				0 - 20
Magnesium (RPD)	0.1 %				0 - 20
Magnesium	1.42 mg/L	0.01	0.02		
Manganese	280 ug/L	0.07	0.3		
Manganese (RPD)	0.9 %				0 - 20
Nickel (RPD)	0.8 %				0 - 20
Nickel	1.4 ug/L	0.15	0.5		
Potassium	1.47 mg/L	0.01	0.02		

Potassium (RPD)	1.9 %			0 - 20
Selenium (RPD)	7.7 %			0 - 20
Selenium	<1 ug/L	0.2	1	
Silicon Dioxide	4.99 mg/L	0.01	0.05	
Silicon Dioxide (RPD)	1.9 %			0 - 20
Silver	<0.5 ug/L	0.02	0.5	
Silver (RPD)	200 %			0 - 20
Sodium	3.35 mg/L	0.01	0.02	
Sodium (RPD)	1.8 %			0 - 20
Thallium (RPD)	40.0 %			0 - 20
Thallium	<0.5 ug/L	0	0.5	
Vanadium (RPD)	21.3 %			0 - 20
Vanadium	<0.5 ug/L	0.3	0.5	
Zinc	4.71 ug/L	0.3	1	
Zinc (RPD)	3.8 %			0 - 20
Hardness	27 mg/L	1	1	
Hardness (RPD)	0 %			0 - 20
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	May 7 2013 10:20AM			

TW-24-01 **LIMS ID: 2013-1394**

ICP Metals - water (Dissolved) MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	96.5 %			70 - 130	
Antimony (% Recovery)	99.2 %			70 - 130	
Arsenic (% Recovery)	102 %			70 - 130	
Barium (% Recovery)	96.6 %			70 - 130	
Beryllium (% Recovery)	104 %			70 - 130	
Boron (% Recovery)	102 %			70 - 130	
Cadmium (% Recovery)	102 %			70 - 130	
Calcium (% Recovery)	94.8 %			70 - 130	
Chromium (% Recovery)	96.8 %			70 - 130	
Cobalt (% Recovery)	96.1 %			70 - 130	
Copper (% Recovery)	97.1 %			70 - 130	
Iron (% Recovery)	93.0 %			70 - 130	
Lead (% Recovery)	97.5 %			70 - 130	
Magnesium (% Recovery)	88.1 %			70 - 130	
Manganese (% Recovery)	51 %			70 - 130	

Nickel (% Recovery)	96 %	70 - 130
Potassium (% Recovery)	101 %	70 - 130
Selenium (% Recovery)	110 %	70 - 130
Silver (% Recovery)	83.1 %	70 - 130
Sodium (% Recovery)	89.4 %	70 - 130
Thallium (% Recovery)	97.7 %	70 - 130
Vanadium (% Recovery)	95.6 %	70 - 130
Zinc (% Recovery)	105 %	70 - 130
Dilution Factor	1	
Analyzed By	Robert Graddy	
Analysis Date/Time	May 7 2013 10:27AM	

TW-24-01	LIMS ID: 2013-1394
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ICP Metals - water (Dissolved) MSD

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	97.4 %			70 - 130	
Aluminum (RPD)	0.8 %				0 - 20
Antimony (% Recovery)	100 %			70 - 130	
Antimony (RPD)	1.3 %				0 - 20
Arsenic (% Recovery)	104 %			70 - 130	
Arsenic (RPD)	2.3 %				0 - 20
Barium (% Recovery)	97.6 %			70 - 130	
Barium (RPD)	1.0 %				0 - 20
Beryllium (% Recovery)	103 %			70 - 130	
Beryllium (RPD)	1.0 %				0 - 20
Boron (% Recovery)	102 %			70 - 130	
Boron (RPD)	0.1 %				0 - 20
Cadmium (% Recovery)	102 %			70 - 130	
Cadmium (RPD)	0 %				0 - 20
Calcium (% Recovery)	97.1 %			70 - 130	
Calcium (RPD)	1.3 %				0 - 20
Chromium (% Recovery)	98.3 %			70 - 130	
Chromium (RPD)	1.5 %				0 - 20
Cobalt (% Recovery)	98.1 %			70 - 130	
Cobalt (RPD)	2.0 %				0 - 20
Copper (% Recovery)	99.3 %			70 - 130	
Copper (RPD)	2.2 %				0 - 20
Iron (% Recovery)	95.8 %			70 - 130	
Iron (RPD)	1.8 %				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

Lead (% Recovery)	98.2 %	70 - 130	
Lead (RPD)	0.8 %		0 - 20
Magnesium (% Recovery)	99.1 %	70 - 130	
Magnesium (RPD)	10.2 %		0 - 20
Manganese (% Recovery)	78 %	70 - 130	
Manganese (RPD)	2.8 %		0 - 20
Nickel (% Recovery)	98 %	70 - 130	
Nickel (RPD)	2.1 %		0 - 20
Potassium (% Recovery)	103 %	70 - 130	
Potassium (RPD)	1.3 %		0 - 20
Selenium (% Recovery)	110 %	70 - 130	
Selenium (RPD)	0.4 %		0 - 20
Silver (% Recovery)	84.1 %	70 - 130	
Silver (RPD)	1.2 %		0 - 20
Sodium (% Recovery)	91.9 %	70 - 130	
Sodium (RPD)	2.0 %		0 - 20
Thallium (% Recovery)	98.6 %	70 - 130	
Thallium (RPD)	1.0 %		0 - 20
Vanadium (% Recovery)	97.8 %	70 - 130	
Vanadium (RPD)	2.3 %		0 - 20
Zinc (% Recovery)	106 %	70 - 130	
Zinc (RPD)	0.8 %		0 - 20
Dilution Factor	1		
Analyzed By	Robert Graddy		
Analysis Date/Time	May 7 2013 10:33AM		

Analytical Quality Control Results Report

Batch: 13050802	ICP Metals - water (total)
<i>TW-24-01</i>	<i>LIMS ID: 2013-1394</i>

ICP Metals - water (Total) DUP

Run: 1

<i>Parameter</i>	<i>Result</i>	<i>DL</i>	<i>RL</i>	<i>Accuracy Control</i>	<i>Precision Control</i>
Antimony	<10 ug/L	5	10		
Antimony (RPD)	93.8 %				0 - 20
Arsenic (RPD)	13.9 %				0 - 20
Arsenic	1.44 ug/L	0.5	1		
Barium	78.1 ug/L	2	10		
Barium (RPD)	30.9 %				0 - 20
Beryllium (RPD)	80.6 %				0 - 20
Beryllium	1.48 ug/L	0.1	0.5		
Boron	<25 ug/L	5	25		
Boron (RPD)	15.1 %				0 - 20
Cadmium (RPD)	17.0 %				0 - 20
Cadmium	<1 ug/L	0.3	1		
Calcium	11.7 mg/L	0.04	0.04		
Calcium (RPD)	22.0 %				0 - 20
Chromium (RPD)	33.8 %				0 - 20
Chromium	8.01 ug/L	0.3	1		
Cobalt	5.99 ug/L	0.5	1		
Cobalt (RPD)	19.3 %				0 - 20
Copper (RPD)	16.6 %				0 - 20
Copper	8.12 ug/L	0.5	1		
Lead	13.4 ug/L	0.1	1		
Lead (RPD)	56.8 %				0 - 20
Magnesium (RPD)	30.2 %				0 - 20
Magnesium	2.74 mg/L	0.1	0.1		
Manganese	450 ug/L	0.2	1		
Manganese (RPD)	14 %				0 - 20
Nickel (RPD)	24 %				0 - 20
Nickel	6.3 ug/L	0.5	2.5		
Potassium	2.20 mg/L	0.05	1		
Potassium (RPD)	19.9 %				0 - 20
Selenium (RPD)	37.8 %				0 - 20
Selenium	<2 ug/L	0.5	2		
Silver	<5 ug/L	1	5		

Silver (RPD)	17.1 %			0 - 20
Sodium	3.44 mg/L	0.02	0.04	
Sodium (RPD)	0.2 %			0 - 20
Thallium (RPD)	46.6 %			0 - 20
Thallium	<2.5 ug/L	0.05	2.5	
Vanadium (RPD)	29.3 %			0 - 20
Vanadium	8.69 ug/L	1	2.5	
Zinc	28.6 ug/L	2	3	
Zinc (RPD)	39.0 %			0 - 20
Dilution Factor	1			
Analyzed By	Robert Graddy			
Analysis Date/Time	May 7 2013 4:41PM			

TW-24-01	LIMS ID: 2013-1394
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ICP Metals - water (Total) MS

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	560 %			70 - 130	
Antimony (% Recovery)	23.3 %			70 - 130	
Arsenic (% Recovery)	21.5 %			70 - 130	
Barium (% Recovery)	102 %			70 - 130	
Beryllium (% Recovery)	109 %			70 - 130	
Boron (% Recovery)	107 %			70 - 130	
Cadmium (% Recovery)	104 %			70 - 130	
Calcium (% Recovery)	92.5 %			70 - 130	
Chromium (% Recovery)	86.2 %			70 - 130	
Cobalt (% Recovery)	93.0 %			70 - 130	
Copper (% Recovery)	88.2 %			70 - 130	
Iron (% Recovery)	0 %			70 - 130	
Lead (% Recovery)	106 %			70 - 130	
Magnesium (% Recovery)	108 %			70 - 130	
Manganese (% Recovery)	140 %			70 - 130	
Nickel (% Recovery)	92 %			70 - 130	
Potassium (% Recovery)	92.3 %			70 - 130	
Selenium (% Recovery)	25.7 %			70 - 130	
Silver (% Recovery)	81.1 %			70 - 130	
Sodium (% Recovery)	98.6 %			70 - 130	
Thallium (% Recovery)	102 %			70 - 130	
Vanadium (% Recovery)	85.7 %			70 - 130	
Zinc (% Recovery)	110 %			70 - 130	

Dilution Factor	1
Analyzed By	Robert Graddy
Analysis Date/Time	May 7 2013 4:47PM

TW-24-01	LIMS ID: 2013-1394
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ICP Metals - water (Total) MSD

Run: 1

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	547 %			70 - 130	
Aluminum (RPD)	0.7 %				0 - 20
Antimony (% Recovery)	23.4 %			70 - 130	
Antimony (RPD)	0.6 %				0 - 20
Arsenic (% Recovery)	21.4 %			70 - 130	
Arsenic (RPD)	0.5 %				0 - 20
Barium (% Recovery)	103 %			70 - 130	
Barium (RPD)	0.5 %				0 - 20
Beryllium (% Recovery)	108 %			70 - 130	
Beryllium (RPD)	0.9 %				0 - 20
Boron (% Recovery)	107 %			70 - 130	
Boron (RPD)	0.3 %				0 - 20
Cadmium (% Recovery)	105 %			70 - 130	
Cadmium (RPD)	0.4 %				0 - 20
Calcium (% Recovery)	89.7 %			70 - 130	
Calcium (RPD)	1.5 %				0 - 20
Chromium (% Recovery)	87.5 %			70 - 130	
Chromium (RPD)	1.1 %				0 - 20
Cobalt (% Recovery)	94.0 %			70 - 130	
Cobalt (RPD)	1.0 %				0 - 20
Copper (% Recovery)	89.2 %			70 - 130	
Copper (RPD)	1.0 %				0 - 20
Iron (% Recovery)	0 %			70 - 130	
Iron (RPD)	0.4 %				0 - 20
Lead (% Recovery)	106 %			70 - 130	
Lead (RPD)	0.2 %				0 - 20
Magnesium (% Recovery)	109 %			70 - 130	
Magnesium (RPD)	1.4 %				0 - 20
Manganese (% Recovery)	150 %			70 - 130	
Manganese (RPD)	0.8 %				0 - 20
Nickel (% Recovery)	93 %			70 - 130	
Nickel (RPD)	1.0 %				0 - 20

Potassium (% Recovery)	91.3 %	70 - 130	
Potassium (RPD)	0.9 %		0 - 20
Selenium (% Recovery)	26.0 %	70 - 130	
Selenium (RPD)	1.0 %		0 - 20
Silver (% Recovery)	81.1 %	70 - 130	
Silver (RPD)	0.1 %		0 - 20
Sodium (% Recovery)	102 %	70 - 130	
Sodium (RPD)	2.2 %		0 - 20
Thallium (% Recovery)	102 %	70 - 130	
Thallium (RPD)	0 %		0 - 20
Vanadium (% Recovery)	86.6 %	70 - 130	
Vanadium (RPD)	1.0 %		0 - 20
Zinc (% Recovery)	113 %	70 - 130	
Zinc (RPD)	1.8 %		0 - 20
Dilution Factor	1		
Analysis Date/Time	May 7 2013 4:54PM		
Analyzed By	Robert Graddy		

TW-24-01	LIMS ID: 2013-1394
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ICP Metals - water (Total) DUP

Run: 2

Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum	13000 ug/L	200	200		
Aluminum (RPD)	69.3 %				0 - 20
Iron (RPD)	40.4 %				0 - 20
Iron	10700 ug/L	100	200		
Dilution Factor	10				
Analyzed By	Robert Graddy				
Analysis Date/Time	May 7 2013 8:55PM				