



April 7, 2011

091878

Ashley Holt, P.G., Manager
State Remediation Program
Division of Solid Waste Management
Tennessee Department of Environment and Conservation
5th Floor, L&C Tower
401 Church Street
Nashville, Tennessee 37243-1535

**RE: Biostimulation Activities
Egyptian Lacquer Manufacturing Company
Franklin, Tennessee**

Dear Ms. Holt,

AquAeTer, Inc. (AquAeTer) is submitting on behalf of Egyptian Lacquer Manufacturing Company (ELMCO) the analytical results from the March (eighth month) sampling for the Biostimulation Remediation Project at the ELMCO facilities in Franklin, Tennessee. Samples were collected by **AquAeTer** from injection wells, EV-10 and RW-1, from the main seep on Liberty Creek and from the recovery trench. The seep on the Harpeth River, HR-2, was unable to be sampled in January due to the water level in the Harpeth River. The injection well, EV-8, was unable to be sampled because it did not have water in it. This letter includes the analyses and a table summarizing the current analytical results.

SAMPLE DATES AND LOCATIONS SAMPLED

Samples were collected from RW1, EV-10, the Main Seep, and the recovery trench on March 15, 2011 for the analysis of volatile organic compounds (VOCs) by Method SW846 8260B. The two injection wells were sampled after purging three well volumes. All samples were shipped under chain of custody to Accutest Laboratories in Orlando, Florida. The current laboratory results are summarized in Table 1 along with the previous laboratory results. A copy of the complete report for the March samples is attached. The AquAeTane injections were turned off on March 13, prior to the sampling. Well EV-8 was dry on the day of the sampling.

The biostimulant injections of AquAeTane began in Well RW-1 on July 31, 2010 and in EV-8 and EV-10 on August 13, 2010. AquAeTane injections were halted on November 24, 2010 in order to sample groundwater rather than inoculant.

Per the study plan, after six months, **AquAeTer** will sample the wells, trench and seeps again in May. Results will be submitted to TDEC upon receipt from the laboratory.

DEVIATIONS

The inoculant additions were halted on March 23 to allow for TriAD to perform their quarterly sampling. Inoculant additions were re-started on March 25.

DISCUSSION

From the initial injections which began in July and August, steady degradation of acetone and toluene were recorded in EV-8 and EV-10. As happened in the bench-scale tests, there was selective degradation of acetone and toluene in EV-8 and EV-10. Previously, toluene was being selectively degraded in EV-10, but the latest round of sampling shows degradation of both acetone and toluene. These data are presented in Table 1 and in Figure 1. Results show that we have reduced the concentrations in the EV-8 and EV-10 well areas by about one-half of base-line concentrations.

Following the rains in November, both acetone and toluene concentrations increased in both EV-8 and EV-10. This indicates that there are pockets of constituents still in the system that may continue to contribute constituents during periods when rainfall exceeds evapotranspiration (fall, winter and spring periods). Well logs from the initial installations of these wells indicated volatile organic constituents were detected with a photoionization detector (PID) device. The PID indicated high concentrations near ground surface and at the bottom of the well. Soil samples from the bottom of the well boring were submitted for VOC analysis. Based on PID readings in the EV wells, there may continue to be a source during wet periods.

Acetone continued to show decreases from the January sampling event in well EV-10. It appears that the toluene result in EV-10 may have been an outlier. The most recent toluene sample is more in line with the previous degradation rates. EV-10 is believed to be at or near one of the original leaks from the piping system. Although dilution may have played a part in a portion of this decrease, the changes are not uniform between the two constituents (~52% decrease in acetone and a 72% decrease in toluene concentrations). Previously, EV-10 has had selective reduction of toluene. When this happened in the laboratory, the toluene was degraded, followed by acetone. However, this latest round of sampling showed that bacteria are consuming both toluene and acetone. This may mean that the toluene concentrations have been reduced enough and the bacterial population that was built up to consume the elevated toluene concentration forcing the bacteria to also consume the acetone, since their original food source, the toluene, has been reduced.

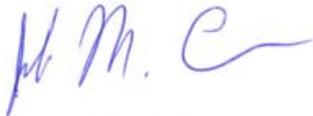
The EV wells are near the original source. RW-1 is a downgradient well that may still be receiving influence from upgradient sources (the source area around the EV wells). RW-1 has lower concentrations of toluene and acetone, but it is believed to be connected to the EV area due to dye showing up in the EV wells from the dye injection in RW-1, as mentioned in the September 7 letter. It is noted that acetone was detected at the HR-2 seep in November, following the increase in rain. As you may recall, the dye study demonstrated that RW-1 was connected to both the Harpeth River seep and the Main seep on Liberty Creek. RW-1 is also connected hydraulically to both EV-8 and EV-10. RW-1 concentrations have not decreased, but the acetone and toluene concentrations in EV-10 are still substantially higher (by a factor of more than 2 for toluene and more than 100 for acetone). Wells EV-10 and EV-8 are providing a

continuous source of constituents to the connected points downstream and although treatment is occurring throughout the system, elevated concentrations will remain in the downstream locations until the source area is further reduced.

We continue to see positive results in both acetone and toluene degradation in the original source area (EV-8 and EV-10). We are aware that there may be an area with residual product tied up in the soil matrix that is outside of the influence of our treatment system. This area has and may continue to contribute constituents to downgradient sources during or after rain events. We will continue to update the results after the next sampling event. If you should have any questions concerning this invoice, please contact us by telephone at (615) 373-8532, by FAX at (615) 373-8512, or by e-mail at jmcom@aquaeter.com. We appreciate the opportunity to assist you on this project.

Sincerely,

AquAeTer, Inc.



John Michael Corn, P.E. (TN)
Project Manager

Attachment 1 – Laboratory Report

cc: Kerry Mattox, Egyptian Lacquer Manufacturing Co.
Mike Corn, AquAeTer, Inc.
Dwight Hinch, TriAD Environmental Consultants, Inc.
Chris Scott, TriAD Environmental Consultants, Inc.
Bill Penny, Stites & Harbison

TABLE 1. GROUNDWATER MONITORING RESULTS FOLLOWING BIOSTIMULATION INOCULATIONS

Inoculations beginning in RW-1 on July 31, 2010 and in EV-8 and EV-10 on August 13, 2010

DATE	WELL/ SAMPLE LOCATION	ACETONE	TOLUENE	BENZENE	CIS-1,2- DICHLORO- ETHENE	ETHYL- BENZENE	METHYL ETHYL KETONE (MEK)	METHYL ISOBUTYL KETONE (MIK)
		67-64-1 (mg/L)	108-88-3 (mg/L)	71-43-2 (mg/L)	156-59-2 (mg/L)	100-41-4 (mg/L)	78-93-3 (mg/L)	108-10-1 (mg/L)
7/30/2010	RW-1	<2.5	22.9	<0.1	<0.1	0.501	<0.5	<0.5
7/30/2010	RW-1 DUP	<2.5	32.6	<0.1	<0.1	0.560	<0.5	<0.5
10/28/2010	RW-1	<1	37.7	<0.02	<0.026	0.460	<0.2	<0.2
11/29/2010	RW-1	7.77 (J)	64.1	<0.5	<0.5	0.946	<2.5	<2.5
12/20/2010	RW-1	< 10	60.7	<0.2	<0.26	1.220	2 (b)	<2 (b)
1/25/2011	RW-1	<10	52.7	<0.2	<0.26	1.590	<2	<2
3/15/2011	RW-1	<10	67	<0.2	<0.26	0.78 (J)	<2	<2
8/10/2010	EV-10	2,070	342	0.0217	<0.1	0.0662	11.8	5.11
9/20/2010	EV-10	2,090	270	<2.5	<2.5	<2.5	12.1	<13
9/20/2010	EV-10 DUP	2,070	280	<2.5	<2.5	<2.5	11.3	<13
10/28/2010	EV-10	2,770	203	<0.2	<0.26	<0.2	12.3	2.71 (J)
11/29/2010	EV-10	3,470	284	<0.5	<0.5	<0.5	25.8	8.98
12/20/2010	EV-10	3,410	258	<1	<1.3	<1	19.6 (J,b)	<10 (b)
1/25/2011	EV-10	1,790	47.6	<0.2	<0.26	<0.2	10.5	<2
3/15/2011	EV-10	943	183	<0.4	<0.52	<0.4	<4	<4
3/15/2011	EV-10 DUP	1,160	192	<0.5	<0.65	<0.5	<5	<5
9/20/2010	EV-8	1,020	72.6	<1.0	<1.0	<1.0	8.2	<5
10/28/2010	EV-8	489	10.6	<0.1	<0.13	<0.1	4.29	<1
10/28/2010	EV-8 DUP	259	5.89	<0.2	<0.26	<0.2	<2	<2
11/29/2010	EV-8	2,520	41.5	<0.5	<0.5	<0.5	25.9	<2.5
11/29/2010	EV-8 DUP	3,390	45.9	<0.5	<0.5	<0.5	33.3	<2.5
12/20/2010	EV-8	742	68.6	<0.2	<0.26	<0.2	10.6 (J,b)	<2 (b)
12/20/2010	EV-8 DUP	723	65.6	<0.2	<0.26	<0.2	<2 (b)	<2 (b)
1/25/2011	EV-8	Dry	Dry	Dry	Dry	Dry	Dry	Dry
3/15/2011	EV-8	Dry	Dry	Dry	Dry	Dry	Dry	Dry

TABLE 1. GROUNDWATER MONITORING RESULTS FOLLOWING BIOSTIMULATION INOCULATIONS

Inoculations beginning in RW-1 on July 31, 2010 and in EV-8 and EV-10 on August 13, 2010

DATE	WELL/ SAMPLE LOCATION	ACETONE	TOLUENE	BENZENE	CIS-1,2- DICHLORO- ETHENE	ETHYL- BENZENE	METHYL ETHYL KETONE (MEK)	METHYL ISOBUTYL KETONE (MIK)
		67-64-1 (mg/L)	108-88-3 (mg/L)	71-43-2 (mg/L)	156-59-2 (mg/L)	100-41-4 (mg/L)	78-93-3 (mg/L)	108-10-1 (mg/L)
9/20/2010	Trench	<63	149	<2.5	<2.5	<2.5	<13	<13
10/28/2010	Trench	2.45 (J)	132	<0.04	<0.052	0.067 (J)	<0.4	<0.4
11/29/2010	Trench	14.9	194	<0.1	<0.1	0.0919 (J)	0.264 (J)	<0.5
12/20/2010	Trench	< 20	180	<0.4	<0.52	<0.4	<4 (b)	<4 (b)
1/25/2011	Trench	8.550	231	<0.04	<0.052	0.121 (J)	<0.4	<0.4
3/15/2011	Trench	<20	151	<0.4	<0.52	<0.4	<4	<4
10/28/2010	Main Seep	<10	104	<0.2	<0.26	<0.2	<2	<2
11/29/2010	Main Seep	19.4	107	<0.1	<0.1	0.0651 (J)	0.419 (J)	<0.5
12/20/2010	Main Seep	< 1	106	<0.02	<0.026	0.046 (J)	<0.2 (b)	<0.2 (b)
1/25/2011	Main Seep	2.79 (J)	154	<0.04	<0.052	0.0853 (J)	<0.4	<0.4
3/15/2011	Main Seep	<20	101	<0.4	<0.52	<0.4	<4	<4
11/29/2010	HR-2	0.674 (J)	3.19	<0.05	<0.05	0.0423 (J)	<0.25	<0.25

Note: 1 - xylenes were analyzed as m,p-xylene and o-xylene. The results were added together to provide the total xylene concentration.

NA - Sample was not analyzed for the parameter.

a - Suspected laboratory contaminant

b - CCV outside of control limits; results may be biased low.

TABLE 1. GROUNDWATER MONITORING RESULTS FOLLOWING BIOSTIMULATION INOCULATIONS

Inoculations beginning in RW-1 on July 31, 2010 and in EV-8 and EV-10 on August 13, 2010

DATE	WELL/ SAMPLE LOCATION	n-PROPYL- BENZENE 103-65-1 (mg/L)	TETRA- CHLORO- ETHENE (PCE) 127-18-4 (mg/L)	1,2,4- TRIMETHYL BENZENE 95-63-6 (mg/L)	1,2,3- TRIMETHYL BENZENE 526-73-8 (mg/L)	1,3,5- TRIMETHYL BENZENE 108-67-8 (mg/L)	XYLENES ¹ 1330-20-7 (mg/L)	METHYLENE CHLORIDE 75-09-2 (mg/L)
7/30/2010	RW-1	<0.1	<0.1	<0.2	NA	<0.2	2.227	<0.5
7/30/2010	RW-1 DUP	<0.1	<0.1	<0.2	NA	<0.2	2.774	<0.5
10/28/2010	RW-1	<0.02	<0.025	<0.027	NA	<0.021	3.51	<0.2
11/29/2010	RW-1	<0.5	<0.5	<1	NA	<1	8.16	<2.5
12/20/2010	RW-1	<0.2	<0.25	<0.27	NA	<0.21	6.99	<2.0
1/25/2011	RW-1	<0.2	<0.25	<0.27	NA	<0.21	7.46	<2.0
3/15/2011	RW-1	<0.2	<0.25	<0.27	NA	<0.21	4.251 (J)	3.74 (J,a)
8/10/2010	EV-10	<0.1	<0.1	<0.2	NA	<0.2	0.1107	0.409
9/20/2010	EV-10	<2.5	<2.5	<5.0	NA	<5.0	<7.5	<13
9/20/2010	EV-10 DUP	<2.5	<2.5	<5.0	NA	<5.0	<7.5	<13
10/28/2010	EV-10	<0.2	<0.25	<0.27	NA	<0.21	<0.52	<0.5
11/29/2010	EV-10	<0.5	<0.5	<1	NA	<1	<1.5	0.372 (J)
12/20/2010	EV-10	<1.0	<1.3	<1.4	NA	<1.1	<2.6	<10
1/25/2011	EV-10	<0.2	<0.25	<0.27	NA	<0.21	<0.52	<2.0
3/15/2011	EV-10	<0.4	<0.5	<0.54	NA	<0.42	<1.04	<4
3/15/2011	EV-10 DUP	<0.5	<0.63	<0.68	NA	<0.53	<1.3	8.44 (J,a)
9/20/2010	EV-8	<1.0	<1.0	<2.0	NA	<2.0	<3.0	<5
10/28/2010	EV-8	<0.1	<0.13	<0.14	NA	<0.11	<0.26	<0.25
10/28/2010	EV-8 DUP	<0.2	<0.25	<0.27	NA	<0.22	<0.52	<0.5
11/29/2010	EV-8	<0.5	<0.5	<1	NA	<1	<1.5	<2.5
11/29/2010	EV-8 DUP	<0.5	<0.5	<1	NA	<1	<1.5	<2.5
12/20/2010	EV-8	<0.2	<0.25	<0.27	NA	<0.21	<0.52	<2
12/20/2010	EV-8 DUP	<0.2	<0.25	<0.27	NA	<0.21	<0.52	<2
1/25/2011	EV-8	Dry	Dry	Dry	Dry	Dry	Dry	Dry
3/15/2011	EV-8	Dry	Dry	Dry	Dry	Dry	Dry	Dry

TABLE 1. GROUNDWATER MONITORING RESULTS FOLLOWING BIOSTIMULATION INOCULATIONS

Inoculations beginning in RW-1 on July 31, 2010 and in EV-8 and EV-10 on August 13, 2010

DATE	WELL/ SAMPLE LOCATION	n-PROPYL- BENZENE 103-65-1 (mg/L)	TETRA- CHLORO- ETHENE (PCE) 127-18-4 (mg/L)	1,2,4- TRIMETHYL BENZENE 95-63-6 (mg/L)	1,2,3- TRIMETHYL BENZENE 526-73-8 (mg/L)	1,3,5- TRIMETHYL BENZENE 108-67-8 (mg/L)	XYLENES ¹ 1330-20-7 (mg/L)	METHYLENE CHLORIDE 75-09-2 (mg/L)
9/20/2010	Trench	<2.5	<2.5	<5.0	NA	<5.0	<7.5	<13
10/28/2010	Trench	<0.04	<0.05	<0.054	NA	<0.042	0.153 (J)	<0.1
11/29/2010	Trench	<0.1	<0.1	<0.2	NA	<0.2	0.3005 (J)	<0.5
12/20/2010	Trench	<0.4	<0.5	<0.54	NA	<0.42	<1.04	<4
1/25/2011	Trench	<0.04	<0.05	<0.054	NA	<0.042	0.3075 (J)	<0.4
3/15/2011	Trench	<0.4	<0.5	<0.54	NA	<0.42	<1.04	7.68 (J,a)
10/28/2010	Main Seep	<0.2	<0.25	<0.27	NA	<0.21	<0.52	<0.5
11/29/2010	Main Seep	<0.1	<0.1	<0.2	NA	<0.2	0.2065 (J)	0.205 (a)
12/20/2010	Main Seep	<0.02	<0.025	<0.027	NA	<0.021	0.1212 (J)	<0.2
1/25/2011	Main Seep	<0.04	<0.05	<0.054	NA	<0.042	0.156	<0.4
3/15/2011	Main Seep	<0.4	<0.5	<0.54	NA	<0.42	<1.04	<6.33 (J,a)
11/29/2010	HR-2	<0.05	<0.05	<0.1	NA	<0.1	0.123 (J)	<0.25

Note: 1 - xylenes were analyzed as m,p-xylene and o-xylene. The results were added together to provide the total xylene concentration.

NA - Sample was not analyzed for the parameter.

a - Suspected laboratory contaminant

b - CCV outside of control limits; results may be biased low.

TABLE 1. GROUNDWATER MONITORING RESULTS FOLLOWING BIOSTIMULATION INOCULATIONS

Inoculations beginning in RW-1 on July 31, 2010 and in EV-8 and EV-10 on August 13, 2010

DATE	WELL/ SAMPLE LOCATION	o-DICHLORO- BENZENE 95-50-1 (mg/L)	METHYL CHLORIDE 74-87-3 (mg/L)
7/30/2010	RW-1	-	
7/30/2010	RW-1 DUP	-	
10/28/2010	RW-1	<0.025	
11/29/2010	RW-1	<0.5	0.786 (J)
12/20/2010	RW-1	<0.25	<0.5
1/25/2011	RW-1	<0.25	<0.5
3/15/2011	RW-1	<0.25	<0.5
8/10/2010	EV-10		
9/20/2010	EV-10	4.4	<5
9/20/2010	EV-10 DUP	<2.5	<5
10/28/2010	EV-10	<0.25	
11/29/2010	EV-10	<0.5	<0.372 (J)
12/20/2010	EV-10	<1.3	<2.5
1/25/2011	EV-10	<0.25	<0.5
3/15/2011	EV-10	<0.5	<1
3/15/2011	EV-10 DUP	<0.63	<1.3
9/20/2010	EV-8	<1	<2
10/28/2010	EV-8	<0.13	
10/28/2010	EV-8 DUP	<0.25	
11/29/2010	EV-8	<0.5	<0.571
11/29/2010	EV-8 DUP	<0.5	<0.672
12/20/2010	EV-8	<0.25	<0.5
12/20/2010	EV-8 DUP	<0.25	<0.5
1/25/2011	EV-8	Dry	Dry
3/15/2011	EV-8	Dry	Dry

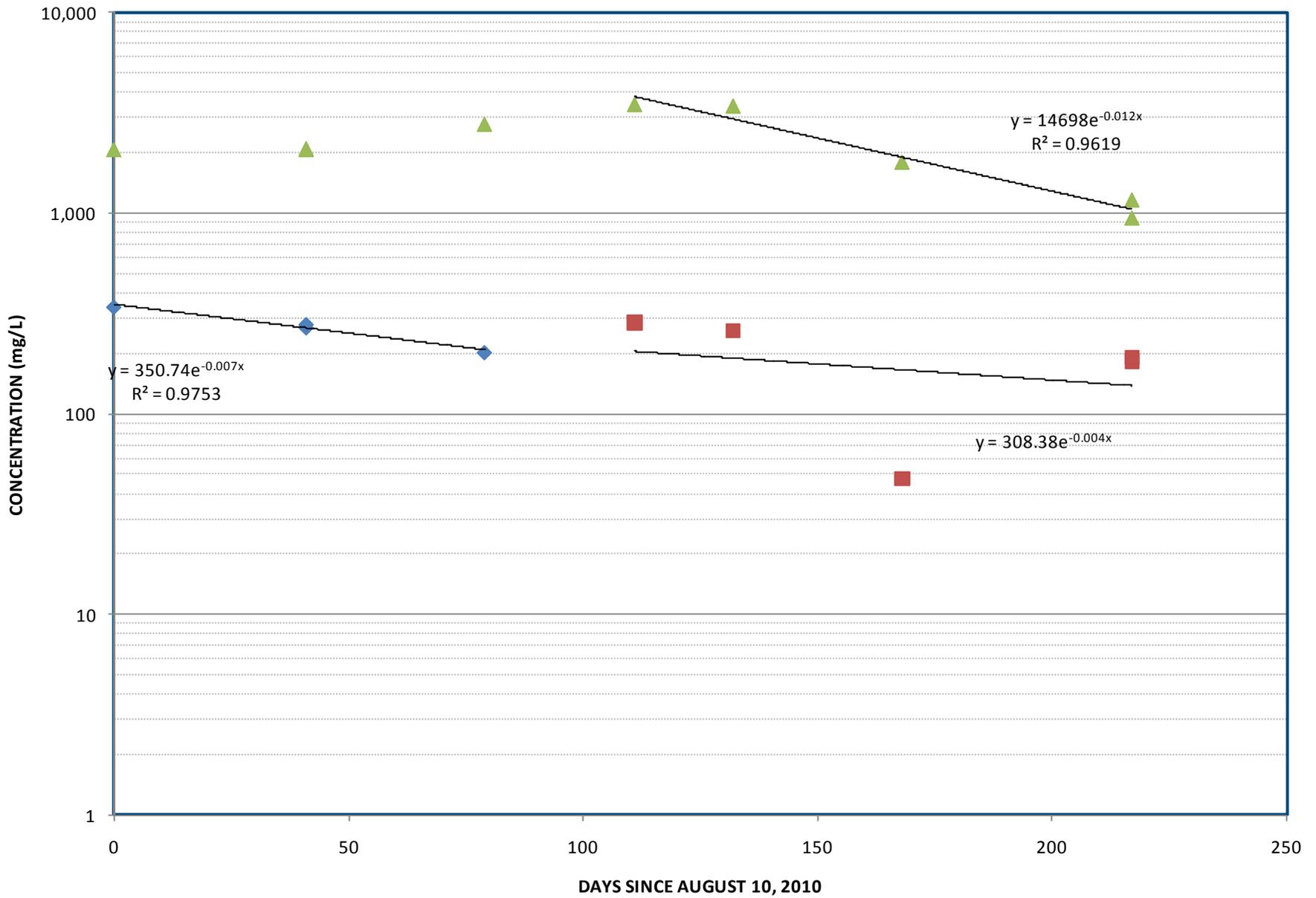
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TABLE 1. GROUNDWATER MONITORING RESULTS FOLLOWING BIOSTIMULATION INOCULATIONS

Inoculations beginning in RW-1 on July 31, 2010 and in EV-8 and EV-10 on August 13, 2010

DATE	WELL/ SAMPLE LOCATION	o-DICHLORO- BENZENE	METHYL CHLORIDE
		95-50-1 (mg/L)	74-87-3 (mg/L)
9/20/2010	Trench	<2.5	<5
10/28/2010	Trench	<0.05	
11/29/2010	Trench	<0.1	<0.2
12/20/2010	Trench	<0.5	<1
1/25/2011	Trench	<0.05	<0.1
3/15/2011	Trench	<0.5	<1
10/28/2010	Main Seep	0.25	
11/29/2010	Main Seep	<0.1	<0.2
12/20/2010	Main Seep	<0.025	<0.05
1/25/2011	Main Seep	<0.05	<0.1
3/15/2011	Main Seep	<0.5	<1
11/29/2010	HR-2	<0.05	<0.1

Note: NA - Sample was not analyzed for the parameter.
a - Suspected laboratory contaminant
b - CCV outside of control limits; results may be biased low.



◆ EV-10 Toluene Aug-Oct ■ EV-10 Toluene Nov-Mar ▲ EV-10 Acetone



CLIENT: Egyptian Lacquer Manufacturing Company
LOCATION: Franklin, Tennessee
PROJECT/FILE: 091878

optimizing resources | water, air, earth

FIGURE 1
EV-10 RESULTS

ATTACHMENT 1

LABORATORY REPORT



04/06/11

Technical Report for

Aquaeter, Inc

Elmco; Franklin, TN

091878

Accutest Job Number: F80830

Sampling Date: 03/15/11

Report to:

Aquaeter, Inc

JMcorn@aquaeter.com

ATTN: John Michael Corn

Total number of pages in report: 22



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi
Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Test results relate only to samples analyzed.

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Accutest LabLink@116669 14:32 06-Apr-2011

Sample Summary

Aquaeter, Inc

Job No: F80830

Elmco; Franklin, TN

Project No: 091878

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
F80830-1	03/15/11	12:15 AT	03/17/11	AQ	Ground Water	EV-10
F80830-2	03/15/11	00:00 AT	03/17/11	AQ	Ground Water	DUP
F80830-3	03/15/11	13:50 AT	03/17/11	AQ	Ground Water	RW1
F80830-4	03/15/11	14:40 AT	03/17/11	AQ	Ground Water	TRENCH
F80830-5	03/15/11	15:00 AT	03/17/11	AQ	Ground Water	MAIN SEEP



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: EV-10	
Lab Sample ID: F80830-1	Date Sampled: 03/15/11
Matrix: AQ - Ground Water	Date Received: 03/17/11
Method: SW846 8260B	Percent Solids: n/a
Project: Elmco; Franklin, TN	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N0049893.D	2000	03/29/11	LD	n/a	n/a	VN2024
Run #2 ^a	N0049924.D	5000	03/30/11	LD	n/a	n/a	VN2026

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	943000 ^b	130000	50000	ug/l	
107-02-8	Acrolein	ND	40000	10000	ug/l	
107-13-1	Acrylonitrile	ND	20000	6000	ug/l	
71-43-2	Benzene	ND	2000	400	ug/l	
108-86-1	Bromobenzene	ND	2000	500	ug/l	
74-97-5	Bromochloromethane	ND	2000	440	ug/l	
75-27-4	Bromodichloromethane	ND	2000	400	ug/l	
75-25-2	Bromoform	ND	2000	400	ug/l	
104-51-8	n-Butylbenzene	ND	2000	520	ug/l	
135-98-8	sec-Butylbenzene	ND	2000	440	ug/l	
98-06-6	tert-Butylbenzene	ND	2000	540	ug/l	
108-90-7	Chlorobenzene	ND	2000	400	ug/l	
75-00-3	Chloroethane	ND	4000	1000	ug/l	
67-66-3	Chloroform	ND	2000	440	ug/l	
95-49-8	o-Chlorotoluene	ND	2000	440	ug/l	
106-43-4	p-Chlorotoluene	ND	2000	400	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	10000	2400	ug/l	
75-15-0	Carbon disulfide	ND	4000	1000	ug/l	
56-23-5	Carbon tetrachloride	ND	2000	500	ug/l	
75-34-3	1,1-Dichloroethane	ND	2000	500	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2000	460	ug/l	
563-58-6	1,1-Dichloropropene	ND	2000	560	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	4000	1000	ug/l	
106-93-4	1,2-Dibromoethane	ND	2000	740	ug/l	
107-06-2	1,2-Dichloroethane	ND	2000	400	ug/l	
78-87-5	1,2-Dichloropropane	ND	2000	500	ug/l	
142-28-9	1,3-Dichloropropane	ND	2000	400	ug/l	
594-20-7	2,2-Dichloropropane	ND	2000	880	ug/l	
124-48-1	Dibromochloromethane	ND	2000	400	ug/l	
75-71-8	Dichlorodifluoromethane	ND	4000	1000	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2000	520	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2000	400	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EV-10	Date Sampled:	03/15/11
Lab Sample ID:	F80830-1	Date Received:	03/17/11
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Elmco; Franklin, TN		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	2000	400	ug/l	
95-50-1	o-Dichlorobenzene	ND	2000	500	ug/l	
106-46-7	p-Dichlorobenzene	ND	2000	460	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2000	700	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2000	400	ug/l	
100-41-4	Ethylbenzene	ND	2000	400	ug/l	
591-78-6	2-Hexanone	ND	20000	8000	ug/l	
87-68-3	Hexachlorobutadiene	ND	4000	1600	ug/l	
98-82-8	Isopropylbenzene	ND	2000	400	ug/l	
99-87-6	p-Isopropyltoluene	ND	2000	420	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10000	4000	ug/l	
74-83-9	Methyl bromide	ND	4000	1000	ug/l	
74-87-3	Methyl chloride	ND	4000	1000	ug/l	
74-95-3	Methylene bromide	ND	4000	500	ug/l	
75-09-2	Methylene chloride	ND	10000	4000	ug/l	
78-93-3	Methyl ethyl ketone	ND	10000	4000	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2000	680	ug/l	
91-20-3	Naphthalene	ND	10000	2000	ug/l	
103-65-1	n-Propylbenzene	ND	2000	400	ug/l	
100-42-5	Styrene	ND	2000	400	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2000	400	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2000	400	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2000	460	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2000	440	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2000	1000	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	4000	600	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2000	1000	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	4000	540	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	4000	420	ug/l	
127-18-4	Tetrachloroethylene	ND	2000	500	ug/l	
108-88-3	Toluene	183000	2000	400	ug/l	
79-01-6	Trichloroethylene	ND	2000	520	ug/l	
75-69-4	Trichlorofluoromethane	ND	4000	1000	ug/l	
75-01-4	Vinyl chloride	ND	2000	440	ug/l	
108-05-4	Vinyl Acetate	ND	20000	4000	ug/l	
	m,p-Xylene	ND	4000	640	ug/l	
95-47-6	o-Xylene	ND	2000	400	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: EV-10	
Lab Sample ID: F80830-1	Date Sampled: 03/15/11
Matrix: AQ - Ground Water	Date Received: 03/17/11
Method: SW846 8260B	Percent Solids: n/a
Project: Elmco; Franklin, TN	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	102%	87-116%
17060-07-0	1,2-Dichloroethane-D4	106%	105%	76-127%
2037-26-5	Toluene-D8	103%	101%	86-112%
460-00-4	4-Bromofluorobenzene	102%	100%	84-120%

- (a) Sample re-analyzed beyond hold time; reported results are considered minimum values.
- (b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP	
Lab Sample ID: F80830-2	Date Sampled: 03/15/11
Matrix: AQ - Ground Water	Date Received: 03/17/11
Method: SW846 8260B	Percent Solids: n/a
Project: Elmco; Franklin, TN	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	N0049881.D	2500	03/28/11	LD	n/a	n/a	VN2023

Run #1	Purge Volume
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	1160000	63000	25000	ug/l	
107-02-8	Acrolein	ND	50000	13000	ug/l	
107-13-1	Acrylonitrile	ND	25000	7500	ug/l	
71-43-2	Benzene	ND	2500	500	ug/l	
108-86-1	Bromobenzene	ND	2500	630	ug/l	
74-97-5	Bromochloromethane	ND	2500	550	ug/l	
75-27-4	Bromodichloromethane	ND	2500	500	ug/l	
75-25-2	Bromoform	ND	2500	500	ug/l	
104-51-8	n-Butylbenzene	ND	2500	650	ug/l	
135-98-8	sec-Butylbenzene	ND	2500	550	ug/l	
98-06-6	tert-Butylbenzene	ND	2500	680	ug/l	
108-90-7	Chlorobenzene	ND	2500	500	ug/l	
75-00-3	Chloroethane	ND	5000	1300	ug/l	
67-66-3	Chloroform	ND	2500	550	ug/l	
95-49-8	o-Chlorotoluene	ND	2500	550	ug/l	
106-43-4	p-Chlorotoluene	ND	2500	500	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	13000	3000	ug/l	
75-15-0	Carbon disulfide	ND	5000	1300	ug/l	
56-23-5	Carbon tetrachloride	ND	2500	630	ug/l	
75-34-3	1,1-Dichloroethane	ND	2500	630	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2500	580	ug/l	
563-58-6	1,1-Dichloropropene	ND	2500	700	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5000	1300	ug/l	
106-93-4	1,2-Dibromoethane	ND	2500	930	ug/l	
107-06-2	1,2-Dichloroethane	ND	2500	500	ug/l	
78-87-5	1,2-Dichloropropane	ND	2500	630	ug/l	
142-28-9	1,3-Dichloropropane	ND	2500	500	ug/l	
594-20-7	2,2-Dichloropropane	ND	2500	1100	ug/l	
124-48-1	Dibromochloromethane	ND	2500	500	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5000	1300	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2500	650	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2500	500	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP	Date Sampled:	03/15/11
Lab Sample ID:	F80830-2	Date Received:	03/17/11
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Elmco; Franklin, TN		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	2500	500	ug/l	
95-50-1	o-Dichlorobenzene	ND	2500	630	ug/l	
106-46-7	p-Dichlorobenzene	ND	2500	580	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2500	880	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2500	500	ug/l	
100-41-4	Ethylbenzene	ND	2500	500	ug/l	
591-78-6	2-Hexanone	ND	25000	10000	ug/l	
87-68-3	Hexachlorobutadiene	ND	5000	2000	ug/l	
98-82-8	Isopropylbenzene	ND	2500	500	ug/l	
99-87-6	p-Isopropyltoluene	ND	2500	530	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	13000	5000	ug/l	
74-83-9	Methyl bromide	ND	5000	1300	ug/l	
74-87-3	Methyl chloride	ND	5000	1300	ug/l	
74-95-3	Methylene bromide	ND	5000	630	ug/l	
75-09-2	Methylene chloride ^a	8440	13000	5000	ug/l	J
78-93-3	Methyl ethyl ketone	ND	13000	5000	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2500	850	ug/l	
91-20-3	Naphthalene	ND	13000	2500	ug/l	
103-65-1	n-Propylbenzene	ND	2500	500	ug/l	
100-42-5	Styrene	ND	2500	500	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2500	500	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2500	500	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2500	580	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2500	550	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2500	1300	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5000	750	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2500	1300	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5000	680	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5000	530	ug/l	
127-18-4	Tetrachloroethylene	ND	2500	630	ug/l	
108-88-3	Toluene	192000	2500	500	ug/l	
79-01-6	Trichloroethylene	ND	2500	650	ug/l	
75-69-4	Trichlorofluoromethane	ND	5000	1300	ug/l	
75-01-4	Vinyl chloride	ND	2500	550	ug/l	
108-05-4	Vinyl Acetate	ND	25000	5000	ug/l	
	m,p-Xylene	ND	5000	800	ug/l	
95-47-6	o-Xylene	ND	2500	500	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: DUP	
Lab Sample ID: F80830-2	Date Sampled: 03/15/11
Matrix: AQ - Ground Water	Date Received: 03/17/11
Method: SW846 8260B	Percent Solids: n/a
Project: Elmco; Franklin, TN	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	111%		76-127%
2037-26-5	Toluene-D8	103%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

(a) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RW1		
Lab Sample ID: F80830-3		Date Sampled: 03/15/11
Matrix: AQ - Ground Water		Date Received: 03/17/11
Method: SW846 8260B		Percent Solids: n/a
Project: Elmco; Franklin, TN		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	N0049882.D	1000	03/28/11	LD	n/a	n/a	VN2023

Run #1	Purge Volume
Run #2	5.0 ml

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25000	10000	ug/l	
107-02-8	Acrolein	ND	20000	5000	ug/l	
107-13-1	Acrylonitrile	ND	10000	3000	ug/l	
71-43-2	Benzene	ND	1000	200	ug/l	
108-86-1	Bromobenzene	ND	1000	250	ug/l	
74-97-5	Bromochloromethane	ND	1000	220	ug/l	
75-27-4	Bromodichloromethane	ND	1000	200	ug/l	
75-25-2	Bromoform	ND	1000	200	ug/l	
104-51-8	n-Butylbenzene	ND	1000	260	ug/l	
135-98-8	sec-Butylbenzene	ND	1000	220	ug/l	
98-06-6	tert-Butylbenzene	ND	1000	270	ug/l	
108-90-7	Chlorobenzene	ND	1000	200	ug/l	
75-00-3	Chloroethane	ND	2000	500	ug/l	
67-66-3	Chloroform	ND	1000	220	ug/l	
95-49-8	o-Chlorotoluene	ND	1000	220	ug/l	
106-43-4	p-Chlorotoluene	ND	1000	200	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5000	1200	ug/l	
75-15-0	Carbon disulfide	ND	2000	500	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	250	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	250	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1000	230	ug/l	
563-58-6	1,1-Dichloropropene	ND	1000	280	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2000	500	ug/l	
106-93-4	1,2-Dibromoethane	ND	1000	370	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	200	ug/l	
78-87-5	1,2-Dichloropropane	ND	1000	250	ug/l	
142-28-9	1,3-Dichloropropane	ND	1000	200	ug/l	
594-20-7	2,2-Dichloropropane	ND	1000	440	ug/l	
124-48-1	Dibromochloromethane	ND	1000	200	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2000	500	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1000	260	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1000	200	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW1	Date Sampled:	03/15/11
Lab Sample ID:	F80830-3	Date Received:	03/17/11
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Elmco; Franklin, TN		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	1000	200	ug/l	
95-50-1	o-Dichlorobenzene	ND	1000	250	ug/l	
106-46-7	p-Dichlorobenzene	ND	1000	230	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1000	350	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1000	200	ug/l	
100-41-4	Ethylbenzene	780	1000	200	ug/l	J
591-78-6	2-Hexanone	ND	10000	4000	ug/l	
87-68-3	Hexachlorobutadiene	ND	2000	800	ug/l	
98-82-8	Isopropylbenzene	ND	1000	200	ug/l	
99-87-6	p-Isopropyltoluene	ND	1000	210	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5000	2000	ug/l	
74-83-9	Methyl bromide	ND	2000	500	ug/l	
74-87-3	Methyl chloride	ND	2000	500	ug/l	
74-95-3	Methylene bromide	ND	2000	250	ug/l	
75-09-2	Methylene chloride ^a	3740	5000	2000	ug/l	J
78-93-3	Methyl ethyl ketone	ND	5000	2000	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	340	ug/l	
91-20-3	Naphthalene	ND	5000	1000	ug/l	
103-65-1	n-Propylbenzene	ND	1000	200	ug/l	
100-42-5	Styrene	ND	1000	200	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1000	200	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	200	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1000	230	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	220	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1000	500	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2000	300	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1000	500	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2000	270	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2000	210	ug/l	
127-18-4	Tetrachloroethylene	ND	1000	250	ug/l	
108-88-3	Toluene	67000	1000	200	ug/l	
79-01-6	Trichloroethylene	ND	1000	260	ug/l	
75-69-4	Trichlorofluoromethane	ND	2000	500	ug/l	
75-01-4	Vinyl chloride	ND	1000	220	ug/l	
108-05-4	Vinyl Acetate	ND	10000	2000	ug/l	
	m,p-Xylene	3480	2000	320	ug/l	
95-47-6	o-Xylene	771	1000	200	ug/l	J

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RW1		
Lab Sample ID: F80830-3		Date Sampled: 03/15/11
Matrix: AQ - Ground Water		Date Received: 03/17/11
Method: SW846 8260B		Percent Solids: n/a
Project: Elmco; Franklin, TN		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	111%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

(a) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRENCH	Date Sampled:	03/15/11
Lab Sample ID:	F80830-4	Date Received:	03/17/11
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Elmco; Franklin, TN		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	2000	400	ug/l	
95-50-1	o-Dichlorobenzene	ND	2000	500	ug/l	
106-46-7	p-Dichlorobenzene	ND	2000	460	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2000	700	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2000	400	ug/l	
100-41-4	Ethylbenzene	ND	2000	400	ug/l	
591-78-6	2-Hexanone	ND	20000	8000	ug/l	
87-68-3	Hexachlorobutadiene	ND	4000	1600	ug/l	
98-82-8	Isopropylbenzene	ND	2000	400	ug/l	
99-87-6	p-Isopropyltoluene	ND	2000	420	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10000	4000	ug/l	
74-83-9	Methyl bromide	ND	4000	1000	ug/l	
74-87-3	Methyl chloride	ND	4000	1000	ug/l	
74-95-3	Methylene bromide	ND	4000	500	ug/l	
75-09-2	Methylene chloride ^a	7680	10000	4000	ug/l	J
78-93-3	Methyl ethyl ketone	ND	10000	4000	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2000	680	ug/l	
91-20-3	Naphthalene	ND	10000	2000	ug/l	
103-65-1	n-Propylbenzene	ND	2000	400	ug/l	
100-42-5	Styrene	ND	2000	400	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2000	400	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2000	400	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2000	460	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2000	440	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2000	1000	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	4000	600	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2000	1000	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	4000	540	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	4000	420	ug/l	
127-18-4	Tetrachloroethylene	ND	2000	500	ug/l	
108-88-3	Toluene	151000	2000	400	ug/l	
79-01-6	Trichloroethylene	ND	2000	520	ug/l	
75-69-4	Trichlorofluoromethane	ND	4000	1000	ug/l	
75-01-4	Vinyl chloride	ND	2000	440	ug/l	
108-05-4	Vinyl Acetate	ND	20000	4000	ug/l	
	m,p-Xylene	ND	4000	640	ug/l	
95-47-6	o-Xylene	ND	2000	400	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRENCH	
Lab Sample ID: F80830-4	Date Sampled: 03/15/11
Matrix: AQ - Ground Water	Date Received: 03/17/11
Method: SW846 8260B	Percent Solids: n/a
Project: Elmco; Franklin, TN	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		87-116%
17060-07-0	1,2-Dichloroethane-D4	111%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

(a) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MAIN SEEP	Date Sampled:	03/15/11
Lab Sample ID:	F80830-5	Date Received:	03/17/11
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Elmco; Franklin, TN		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	2000	400	ug/l	
95-50-1	o-Dichlorobenzene	ND	2000	500	ug/l	
106-46-7	p-Dichlorobenzene	ND	2000	460	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2000	700	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2000	400	ug/l	
100-41-4	Ethylbenzene	ND	2000	400	ug/l	
591-78-6	2-Hexanone	ND	20000	8000	ug/l	
87-68-3	Hexachlorobutadiene	ND	4000	1600	ug/l	
98-82-8	Isopropylbenzene	ND	2000	400	ug/l	
99-87-6	p-Isopropyltoluene	ND	2000	420	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10000	4000	ug/l	
74-83-9	Methyl bromide	ND	4000	1000	ug/l	
74-87-3	Methyl chloride	ND	4000	1000	ug/l	
74-95-3	Methylene bromide	ND	4000	500	ug/l	
75-09-2	Methylene chloride ^a	6330	10000	4000	ug/l	J
78-93-3	Methyl ethyl ketone	ND	10000	4000	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2000	680	ug/l	
91-20-3	Naphthalene	ND	10000	2000	ug/l	
103-65-1	n-Propylbenzene	ND	2000	400	ug/l	
100-42-5	Styrene	ND	2000	400	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2000	400	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2000	400	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2000	460	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2000	440	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2000	1000	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	4000	600	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2000	1000	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	4000	540	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	4000	420	ug/l	
127-18-4	Tetrachloroethylene	ND	2000	500	ug/l	
108-88-3	Toluene	101000	2000	400	ug/l	
79-01-6	Trichloroethylene	ND	2000	520	ug/l	
75-69-4	Trichlorofluoromethane	ND	4000	1000	ug/l	
75-01-4	Vinyl chloride	ND	2000	440	ug/l	
108-05-4	Vinyl Acetate	ND	20000	4000	ug/l	
	m,p-Xylene	ND	4000	640	ug/l	
95-47-6	o-Xylene	ND	2000	400	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MAIN SEEP	
Lab Sample ID: F80830-5	Date Sampled: 03/15/11
Matrix: AQ - Ground Water	Date Received: 03/17/11
Method: SW846 8260B	Percent Solids: n/a
Project: Elmco; Franklin, TN	

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		87-116%
17060-07-0	1,2-Dichloroethane-D4	110%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

(a) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Client / Reporting Information		Project Information		Analytical Information												Matrix Codes	
Company Name: <u>Aquatic Services, Inc</u>		Project Name: <u>ELWCO</u>														DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe	
Address: <u>215 Towneview Park Rd Ste 100</u>		Street: <u>ELWCO</u>															
City: <u>Franklin</u> State: <u>TN</u> Zip: <u>37027</u>		City: <u>Franklin</u> State: <u>TN</u>															
Project Contact: <u>JM GUN</u> E-mail: <u>munson@aquaticservices.com</u>		Project #: <u>091878</u>															
Phone: <u>615-373-8532</u>		Fax #: <u>615-373-8512</u>															
Sampler(s) Name(s) (Printed): <u>MIRIAM SIEBELK</u>		Client Purchase Order #: <u>091878</u>															
Accutest Sample #	Field ID / Point of Collection	COLLECTION			CONTAINER INFORMATION												LAB USE ONLY
		DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	PHONE	PC	REDON	INCS	HSC04	NON-HAZ	D WATER	ALPHA		
1	EV-10	3/15/11	1215	AAT	GW	3			X							X	
2	DUP	3/15/11	--	AAT	GW	3			X							X	
3	RWI	3/15/11	1350	AAT	GW	3			X							X	
4	Trench	3/15/11	1440	AAT	GW	3			X							X	
5	Main Seep	3/15/11	1500	AAT	GW	3			X							X	
TURNAROUND TIME (Business Days)		Approved By: / Rush Code		Data Deliverable Information												Comments / Remarks	
<input checked="" type="checkbox"/> 10 Days Standard <input type="checkbox"/> 7 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input type="checkbox"/> OTHER		<input type="checkbox"/> COMMERCIAL "A" (RESULTS ONLY) <input checked="" type="checkbox"/> COMMERCIAL "B" (RESULTS PLUS QC) <input type="checkbox"/> FREDT1 (EPA LEVEL 3) <input type="checkbox"/> FULT1 (EPA LEVEL 4) <input type="checkbox"/> EDD'S															
Relinquished by Sampler: <u>MRS GUN</u>		Date Time: <u>3/16/11 0947</u>	Received By: <u>FX</u>	Relinquished by: <u>FX</u>		Date Time: <u>3-17-11</u>	Received By: <u>4 WRAP (AK SR) 09:00</u>										
Relinquished by: <u>5</u>		Date Time:	Received By:	Relinquished by:		Date Time:	Received By:										
Relinquished by: <u>6</u>		Date Time:	Received By:	Relinquished by:		Date Time:	Received By:										
Relinquished by: <u>7</u>		Date Time:	Received By:	Relinquished by:		Date Time:	Received By:										
Relinquished by: <u>8</u>		Date Time:	Received By:	Relinquished by:		Date Time:	Received By:										
Lab Use Only: Custody Seal in Place: Y N		Temp Blank Provided: Y N		Preserved where Applicable: Y N		Total # of Coolers: <u>1</u>		Cooler Temperature (s) Celsius: <u>3.2</u>									

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F80830: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F80830 CLIENT: AQUAETER, INC PROJECT: ELNCO
DATE/TIME RECEIVED: 3-17-11 09:00 (MM/DD/YY 24:00) NUMBER OF COOLERS RECEIVED: 1
METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
AIRBILL NUMBERS: 8117 8705 0868

COOLER INFORMATION

- CUSTODY SEAL NOT PRESENT OR NOT INTACT
CHAIN OF CUSTODY NOT RECEIVED (COC)
ANALYSIS REQUESTED IS UNCLEAR OR MISSING
SAMPLE DATES OR TIMES UNCLEAR OR MISSING
TEMPERATURE CRITERIA NOT MET
WET ICE PRESENT

TRIP BLANK INFORMATION

- TRIP BLANK PROVIDED
TRIP BLANK NOT PROVIDED
TRIP BLANK NOT ON COC
TRIP BLANK INTACT
TRIP BLANK NOT INTACT
RECEIVED WATER TRIP BLANK
RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM
NUMBER OF 5035 FIELD KITS ?
NUMBER OF LAB FILTERED METALS ?

TEMPERATURE INFORMATION

- IR THERM ID 1 CORR. FACTOR -0.2
OBSERVED TEMPS: 3.6
CORRECTED TEMPS: 3.2

SAMPLE INFORMATION

- SAMPLE LABELS PRESENT ON ALL BOTTLES
INCORRECT NUMBER OF CONTAINERS USED
SAMPLE RECEIVED IMPROPERLY PRESERVED
INSUFFICIENT VOLUME FOR ANALYSIS
DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
ID'S ON COC DO NOT MATCH LABEL
VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
SAMPLE CONTAINER(S) RECEIVED BROKEN
% SOLIDS JAR NOT RECEIVED
5035 FIELD KIT FROZEN WITHIN 48 HOUR'S
RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [Signature] 3-17-11 REVIEWER SIGNATURE/DATE [Signature] 03-17-11

NF 12/10

receipt confirmation 122910.xls