AquAeTer
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resources | water, air, earth
215 Jamestown Park, Suite 100 ◦ Brentwood, TN 37027 ◦ Phone (615) 373-8532

February 9, 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 January (sixth 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 January 25, 2011 for the analysis of volatile organic compounds (VOCs) by Method SW846 8260B. The two injection wells were sampled using low-flow purging techniques. 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 January samples is attached. The AquAeTane injections were turned off on January 24, prior to the sampling on the following day. 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. The purge logs from the sampling are also attached. These logs show that the system is receiving dissolved oxygen (DO).

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

DEVIATIONS

Following the November sampling, the inoculant water supply was temporarily out of service. The water system was repaired. Due to the extreme cold weather in December, the system remained down until it could be fully winterized. Although the AquAeTane inoculant was not being added, residual dissolved oxygen was measured during the December 20 sampling. It was reduced from previous sampling events, indicating that the dissolved oxygen is being consumed.

The AquAeTane injections were re-started around January 18.

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. Acetone is being degraded the most rapidly in EV-8. 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 Figures 1 and 2, respectively.

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.

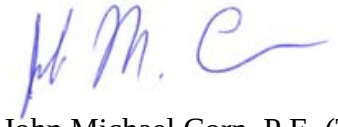
Both toluene and acetone showed dramatic decreases from the January sampling event in well EV-10. EV-10 is believed to be at or near one of the original leaks from the piping system. Although dilution may have played a part in a portion of this decrease, the changes are not uniform between the two constituents (~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 that the bacteria are consuming the acetone.

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.

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 jmcorn@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
Attachment 2 – Purge Logs
Attachment 3 – Well Water Quality

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 67-64-1 (mg/L)	TOLUENE 108-88-3 (mg/L)	BENZENE 71-43-2 (mg/L)	CIS-1,2-DICHLORO-ETHENE 156-59-2 (mg/L)	ETHYL-BENZENE 100-41-4 (mg/L)	METHYL ETHYL KETONE (MEK) 78-93-3 (mg/L)	METHYL ISOBUTYL KETONE (MIK) 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
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
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
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

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 67-64-1 (mg/L)	TOLUENE 108-88-3 (mg/L)	BENZENE 71-43-2 (mg/L)	CIS-1,2-DICHLORO-ETHENE 156-59-2 (mg/L)	ETHYL-BENZENE 100-41-4 (mg/L)	METHYL ETHYL KETONE (MEK) 78-93-3 (mg/L)	METHYL ISOBUTYL KETONE (MIK) 108-10-1 (mg/L)
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
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
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
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
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

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)
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
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
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
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
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

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)
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
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.

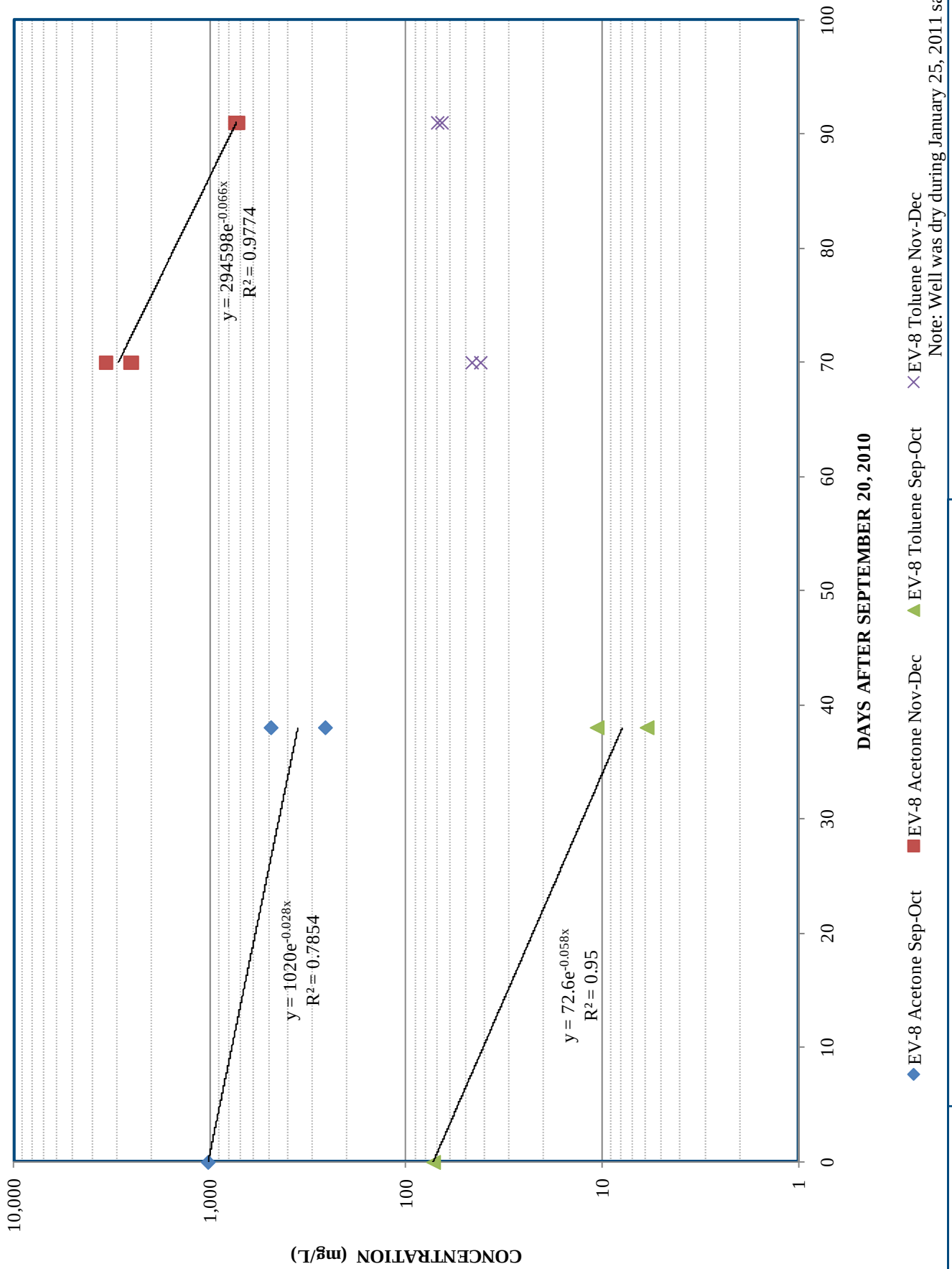


FIGURE 1

EV-8 RESULTS

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

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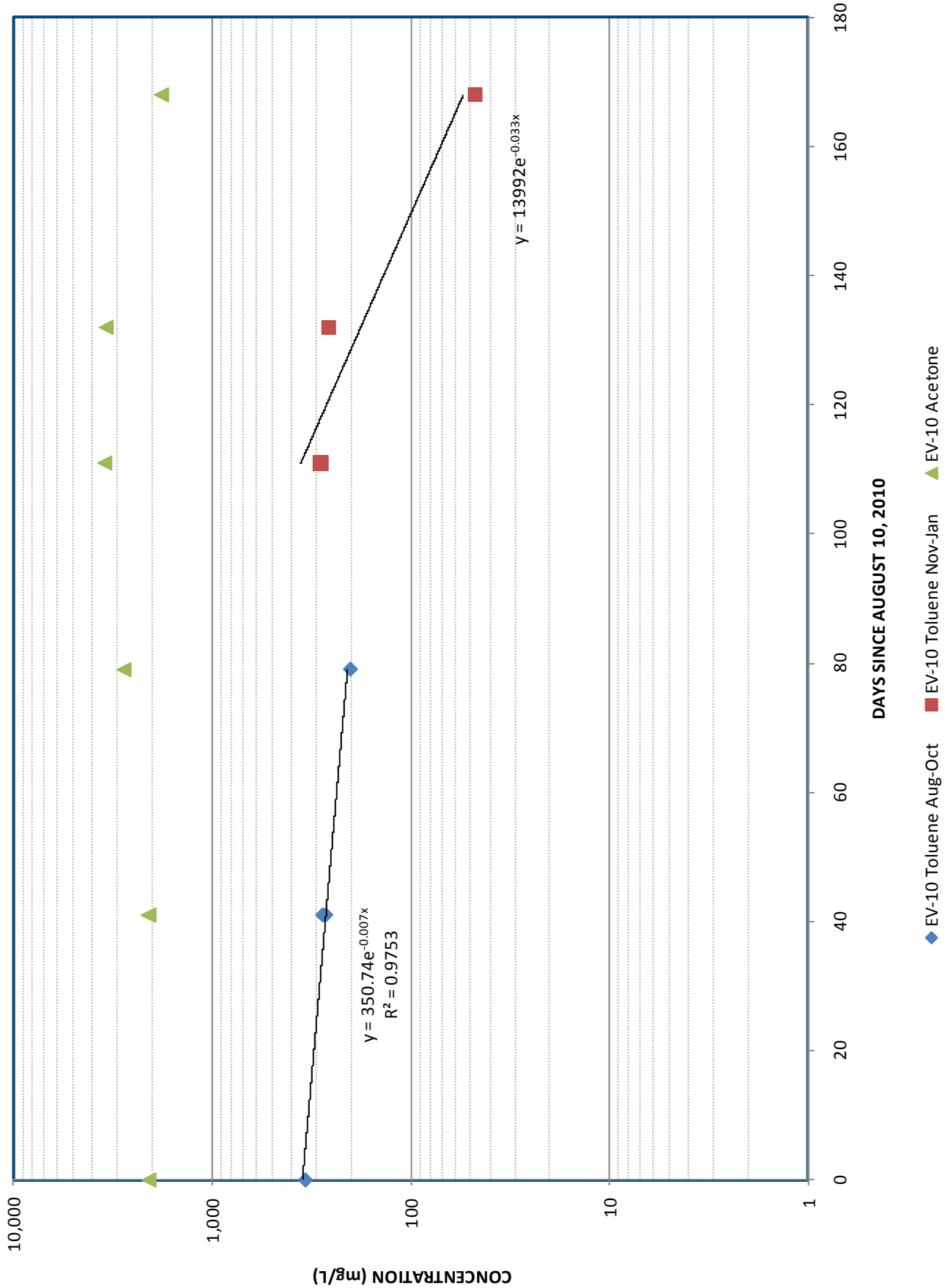

FIGURE 2
EV-10 RESULTS

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

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ATTACHMENT 1

LABORATORY REPORT

Southeast ACCUTEST LABORATORIES

02/08/11

Technical Report for

Aquaeter, Inc

Elmco; Franklin, TN

091878

Accutest Job Number: F79575

Sampling Date: 01/25/11

Report to:

Aquaeter, Inc

JMcorn@aquaeter.com

ATTN: John Michael Corn

Total number of pages in report: **19**

ACCREDITED IN ACCORDANCE WITH nelac

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, 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.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

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Accutest LabLink@114295 09:55 08-Feb-2011

Sample Summary

Aquaeter, Inc

Job No: F79575

Elmco; Franklin, TN
Project No: 091878

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F79575-1	01/25/11	08:15	SML	01/26/11	AQ	Ground Water	MAIN SEEP
F79575-2	01/25/11	08:26	SML	01/26/11	AQ	Ground Water	TRENCH
F79575-3	01/25/11	10:20	SML	01/26/11	AQ	Ground Water	EV 10
F79575-4	01/25/11	11:10	SML	01/26/11	AQ	Ground Water	RW 1

Southeast ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest LabLink@114295 09:55 08-Feb-2011

Report of Analysis

Client Sample ID:	MAIN SEEP		
Lab Sample ID:	F79575-1	**Date Sampled:**	01/25/11
Matrix:	AQ - Ground Water	**Date Received:**	01/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elmco; Franklin, TN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E004961.D	200	02/01/11	TD	n/a	n/a	VE186
Run #2	E004973.D	2000	02/01/11	TD	n/a	n/a	VE186

	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	2790	5000	2000	ug/l	J
107-02-8	Acrolein	ND	4000	1000	ug/l	
107-13-1	Acrylonitrile	ND	2000	600	ug/l	
71-43-2	Benzene	ND	200	40	ug/l	
108-86-1	Bromobenzene	ND	200	50	ug/l	
74-97-5	Bromochloromethane	ND	200	44	ug/l	
75-27-4	Bromodichloromethane	ND	200	40	ug/l	
75-25-2	Bromoform	ND	200	40	ug/l	
104-51-8	n-Butylbenzene	ND	200	52	ug/l	
135-98-8	sec-Butylbenzene	ND	200	44	ug/l	
98-06-6	tert-Butylbenzene	ND	200	54	ug/l	
108-90-7	Chlorobenzene	ND	200	40	ug/l	
75-00-3	Chloroethane	ND	400	100	ug/l	
67-66-3	Chloroform	ND	200	44	ug/l	
95-49-8	o-Chlorotoluene	ND	200	44	ug/l	
106-43-4	p-Chlorotoluene	ND	200	40	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	1000	240	ug/l	
75-15-0	Carbon disulfide	ND	400	100	ug/l	
56-23-5	Carbon tetrachloride	ND	200	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	200	50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	200	46	ug/l	
563-58-6	1,1-Dichloropropene	ND	200	56	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	400	100	ug/l	
106-93-4	1,2-Dibromoethane	ND	200	74	ug/l	
107-06-2	1,2-Dichloroethane	ND	200	40	ug/l	
78-87-5	1,2-Dichloropropane	ND	200	50	ug/l	
142-28-9	1,3-Dichloropropane	ND	200	40	ug/l	
594-20-7	2,2-Dichloropropane	ND	200	88	ug/l	
124-48-1	Dibromochloromethane	ND	200	40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	400	100	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	200	52	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	200	40	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@114295 09:55 08-Feb-2011

Report of Analysis

Client Sample ID:	MAIN SEEP		
Lab Sample ID:	F79575-1	**Date Sampled:**	01/25/11
Matrix:	AQ - Ground Water	**Date Received:**	01/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elmco; Franklin, TN		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	200	40	ug/l	
95-50-1	o-Dichlorobenzene	ND	200	50	ug/l	
106-46-7	p-Dichlorobenzene	ND	200	46	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	200	70	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	200	40	ug/l	
100-41-4	Ethylbenzene	85.3	200	40	ug/l	J
591-78-6	2-Hexanone	ND	2000	800	ug/l	
87-68-3	Hexachlorobutadiene	ND	400	160	ug/l	
98-82-8	Isopropylbenzene	ND	200	40	ug/l	
99-87-6	p-Isopropyltoluene	ND	200	42	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	1000	400	ug/l	
74-83-9	Methyl bromide	ND	400	100	ug/l	
74-87-3	Methyl chloride	ND	400	100	ug/l	
74-95-3	Methylene bromide	ND	400	50	ug/l	
75-09-2	Methylene chloride	ND	1000	400	ug/l	
78-93-3	Methyl ethyl ketone	ND	1000	400	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	200	68	ug/l	
91-20-3	Naphthalene	ND	1000	200	ug/l	
103-65-1	n-Propylbenzene	ND	200	40	ug/l	
100-42-5	Styrene	ND	200	40	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	200	40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	40	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	200	44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	200	100	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	400	60	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	200	100	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	400	54	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	400	42	ug/l	
127-18-4	Tetrachloroethylene	ND	200	50	ug/l	
108-88-3	Toluene	154000 [a]	2000	400	ug/l	
79-01-6	Trichloroethylene	ND	200	52	ug/l	
75-69-4	Trichlorofluoromethane	ND	400	100	ug/l	
75-01-4	Vinyl chloride	ND	200	44	ug/l	
108-05-4	Vinyl Acetate	ND	2000	400	ug/l	
	m,p-Xylene	156	400	64	ug/l	J
95-47-6	o-Xylene	ND	200	40	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@114295 09:55 08-Feb-2011

Report of Analysis

Client Sample ID:	MAIN SEEP		
Lab Sample ID:	F79575-1	**Date Sampled:**	01/25/11
Matrix:	AQ - Ground Water	**Date Received:**	01/26/11
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	99%	98%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	97%	76-127%
2037-26-5	Toluene-D8	100%	102%	86-112%
460-00-4	4-Bromofluorobenzene	98%	97%	84-120%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	TRENCH		
Lab Sample ID:	F79575-2	**Date Sampled:**	01/25/11
Matrix:	AQ - Ground Water	**Date Received:**	01/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elmco; Franklin, TN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E004962.D	200	02/01/11	TD	n/a	n/a	VE186
Run #2	E004997.D	2500	02/02/11	TD	n/a	n/a	VE187

	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	8550	5000	2000	ug/l	
107-02-8	Acrolein	ND	4000	1000	ug/l	
107-13-1	Acrylonitrile	ND	2000	600	ug/l	
71-43-2	Benzene	ND	200	40	ug/l	
108-86-1	Bromobenzene	ND	200	50	ug/l	
74-97-5	Bromochloromethane	ND	200	44	ug/l	
75-27-4	Bromodichloromethane	ND	200	40	ug/l	
75-25-2	Bromoform	ND	200	40	ug/l	
104-51-8	n-Butylbenzene	ND	200	52	ug/l	
135-98-8	sec-Butylbenzene	ND	200	44	ug/l	
98-06-6	tert-Butylbenzene	ND	200	54	ug/l	
108-90-7	Chlorobenzene	ND	200	40	ug/l	
75-00-3	Chloroethane	ND	400	100	ug/l	
67-66-3	Chloroform	ND	200	44	ug/l	
95-49-8	o-Chlorotoluene	ND	200	44	ug/l	
106-43-4	p-Chlorotoluene	ND	200	40	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	1000	240	ug/l	
75-15-0	Carbon disulfide	ND	400	100	ug/l	
56-23-5	Carbon tetrachloride	ND	200	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	200	50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	200	46	ug/l	
563-58-6	1,1-Dichloropropene	ND	200	56	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	400	100	ug/l	
106-93-4	1,2-Dibromoethane	ND	200	74	ug/l	
107-06-2	1,2-Dichloroethane	ND	200	40	ug/l	
78-87-5	1,2-Dichloropropane	ND	200	50	ug/l	
142-28-9	1,3-Dichloropropane	ND	200	40	ug/l	
594-20-7	2,2-Dichloropropane	ND	200	88	ug/l	
124-48-1	Dibromochloromethane	ND	200	40	ug/l	
75-71-8	Dichlorodifluoromethane	ND	400	100	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	200	52	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	200	40	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	TRENCH		
Lab Sample ID:	F79575-2	**Date Sampled:**	01/25/11
Matrix:	AQ - Ground Water	**Date Received:**	01/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elmco; Franklin, TN		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND	200	40	ug/l	
95-50-1	o-Dichlorobenzene	ND	200	50	ug/l	
106-46-7	p-Dichlorobenzene	ND	200	46	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	200	70	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	200	40	ug/l	
100-41-4	Ethylbenzene	121	200	40	ug/l	J
591-78-6	2-Hexanone	ND	2000	800	ug/l	
87-68-3	Hexachlorobutadiene	ND	400	160	ug/l	
98-82-8	Isopropylbenzene	ND	200	40	ug/l	
99-87-6	p-Isopropyltoluene	ND	200	42	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	1000	400	ug/l	
74-83-9	Methyl bromide	ND	400	100	ug/l	
74-87-3	Methyl chloride	ND	400	100	ug/l	
74-95-3	Methylene bromide	ND	400	50	ug/l	
75-09-2	Methylene chloride	ND	1000	400	ug/l	
78-93-3	Methyl ethyl ketone	ND	1000	400	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	200	68	ug/l	
91-20-3	Naphthalene	ND	1000	200	ug/l	
103-65-1	n-Propylbenzene	ND	200	40	ug/l	
100-42-5	Styrene	ND	200	40	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	200	40	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	40	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	200	44	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	200	100	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	400	60	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	200	100	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	400	54	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	400	42	ug/l	
127-18-4	Tetrachloroethylene	ND	200	50	ug/l	
108-88-3	Toluene	231000 [a]	2500	500	ug/l	
79-01-6	Trichloroethylene	ND	200	52	ug/l	
75-69-4	Trichlorofluoromethane	ND	400	100	ug/l	
75-01-4	Vinyl chloride	ND	200	44	ug/l	
108-05-4	Vinyl Acetate	ND	2000	400	ug/l	
	m,p-Xylene	254	400	64	ug/l	J
95-47-6	o-Xylene	53.5	200	40	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRENCH		
Lab Sample ID:	F79575-2	**Date Sampled:**	01/25/11
Matrix:	AQ - Ground Water	**Date Received:**	01/26/11
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	97%	96%	87-116%
17060-07-0	1,2-Dichloroethane-D4	96%	95%	76-127%
2037-26-5	Toluene-D8	100%	100%	86-112%
460-00-4	4-Bromofluorobenzene	97%	101%	84-120%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	EV 10		
Lab Sample ID:	F79575-3	**Date Sampled:**	01/25/11
Matrix:	AQ - Ground Water	**Date Received:**	01/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elmco; Franklin, TN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E004963.D	1000	02/01/11	TD	n/a	n/a	VE186
Run #2	E004975.D	5000	02/01/11	TD	n/a	n/a	VE186

	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	1790000 [a]	130000	50000	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
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	EV 10		
Lab Sample ID:	F79575-3	**Date Sampled:**	01/25/11
Matrix:	AQ - Ground Water	**Date Received:**	01/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
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	ND	1000	200	ug/l	
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	ND	5000	2000	ug/l	
78-93-3	Methyl ethyl ketone	10500	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	47600	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	ND	2000	320	ug/l	
95-47-6	o-Xylene	ND	1000	200	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EV 10		
Lab Sample ID:	F79575-3	**Date Sampled:**	01/25/11
Matrix:	AQ - Ground Water	**Date Received:**	01/26/11
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	96%	97%	87-116%
17060-07-0	1,2-Dichloroethane-D4	95%	98%	76-127%
2037-26-5	Toluene-D8	99%	101%	86-112%
460-00-4	4-Bromofluorobenzene	99%	97%	84-120%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RW 1		
Lab Sample ID:	F79575-4	**Date Sampled:**	01/25/11
Matrix:	AQ - Ground Water	**Date Received:**	01/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Elmco; Franklin, TN		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	E004964.D	1000	02/01/11	TD	n/a	n/a	VE186
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

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
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	RW 1		
Lab Sample ID:	F79575-4	**Date Sampled:**	01/25/11
Matrix:	AQ - Ground Water	**Date Received:**	01/26/11
Method:	SW846 8260B	**Percent Solids:**	n/a
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	1590	1000	200	ug/l	
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	ND	5000	2000	ug/l	
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	52700	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	5920	2000	320	ug/l	
95-47-6	o-Xylene	1540	1000	200	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@114295 09:55 08-Feb-2011

Report of Analysis

Client Sample ID:	RW 1		
Lab Sample ID:	F79575-4	**Date Sampled:**	01/25/11
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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	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	96%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	98%		84-120%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Southeast ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

36668

Accutest JOB # PAGE 1 OF 1

Accutest Quote # SKIFF#

Client / Reporting Information

Company Name: AquAeTer, Inc
Address: 215 Jamestown Park RD Ste 100
City: Brentwood State: TN Zip: 37027
Project Contact: JM Corn E-mail: jmcorn@aquaeter.com
Phone#: 615-373-8532
Sampler(s) Name(s) (Printed): M Sielhack R Meadors J Lewis

Project Information

Project Name: Elmco
Street: 100
City: Franklin State: TN
Project #: 091878
Fax #: 615-373-8512
Client Purchase Order #: 091878

Analytical Information

F79575

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MEOH	VOCs 8260B									LAB USE ONLY
1	Main Seep	1/25/11	815	MAT	GW	3			X							X									
2	Trench	1/25/11	826	MAT	GW	3			X							X									
3	EV 10	1/25/11	1020	MAT	GW	3			X							X									
4	RW 1	1/25/11	1110	MAT	GW	3			X							X									

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [x] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 [signature]	1/25/10 1400	2 Fx	3 Fx	1-26-11	4 J. Corn (ALSE) 09:50
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 2.8

3.1 3

F79575: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F79575 CLIENT: AQUATER PROJECT: ELMEO

DATE/TIME RECEIVED: 1-26-11 09:00 {MM/DD/YY 24:00} NIMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8729 3807 3060

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
- [x] TRIP BLANK NOT PROVIDED
- [x] 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: 3.0
- [ ] CORRECTED TEMPS: 2.8

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

{APPICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

SUMMARY OF COMMENTS: Samp #1 vial time 8:26 coc 8:15, Samp #2 vial time 8:15 coc 8:26

TECHNICIAN SIGNATURE/DATE VC 1-26-11 REVIEWER SIGNATURE/DATE ET 01-26-11

NF 12/10 receipt confirmation 122910.xls

F79575: Chain of Custody
Page 2 of 2

ATTACHMENT 2

PURGE LOGS

Groundwater Sampling Data Sheet

ite Name: Elmco Project: 091878

Well No. EV 10 Date: 1/25/11

Field Personnel: MBS ROM JCL

Weather Conditions: Raining, 40°F

Well Depth (h_{TD}) 30.51 ft (w.r.t. TOC) Well Diameter 2 in

Static Water Level (h_s) 27.71 ft (w.r.t. TOC) @ 930 am/pm Well Type M

Length of Water Column _____ ft

TOC Elevation unk ft GW Elevation unk ft

(TOC Elevation - Static Water Level)

Standing Well Volume _____ gal

$V = 0.041\ d^2(h_{TD}-h_S)$

(V = volume of water in gallons, h_{TD} = total depth measurement in feet, h_S = depth to groundwater measurement in feet, d = diameter of well in inches)

Began Purging @ 1002 am/pm Ended Purging @ 1020 am/pm

Volume Purged _____ ~~gal~~ 400 mL Water Level After Purging 27.74 ft

Indicate if the well was purged dry: (No) / Yes Calculated Yield _____ gal/min

↳ little water in well

Well Purging Method: Bailed (HDPE/Teflon) or Pumped (Submersible, (Bladder), Peristaltic)

WELL PURGING

Date	Time	~~Turbidity~~ DO (ntu)	Conductivity (µs/cm)	pH	Temp (°C)	Total Gallons Removed	Cumulative Well Volumes Removed	Comments
1/25/11	1008	12.04	0.022	7.13	10.80			
↓	1011	11.48	0.005	7.29	11.22			
	1014	11.03	0.011	7.44	11.52			
	1017	10.68	0.011	7.55	11.95			
↓	1020	10.49	0.016	7.58	12.13			

Groundwater Sampling Data Sheet

ite Name: Elmco Project: 091878

Well No. RW1 Date: 1/25/11

Field Personnel: MBS, JGL, ROM

Weather Conditions: 40° Rain

Well Depth (h_{TD}) 50.49 ft (w.r.t. TOC) Well Diameter 2 in

Static Water Level (h_s) 39.00 ft (w.r.t. TOC) @ ____ am/pm Well Type m

Length of Water Column ____ ft

TOC Elevation ____ ft GW Elevation ____ ft

(TOC Elevation - Static Water Level)

Standing Well Volume ____ gal

$V = 0.041\ d^2(h_{TD}-h_S)$

(V = volume of water in gallons, h_{TD} = total depth measurement in feet,

h_S = depth to groundwater measurement in feet, d = diameter of well in inches)

Began Purging @ 1044 am/pm Ended Purging @ 1109 am/pm

Volume Purged 1.0 gal Water Level After Purging 39.14 ft

Indicate if the well was purged dry: No / Yes Calculated Yield ____ gal/min

Well Purging Method: Bailed (HDPE/Teflon) or Pumped (Submersible, Bladder, Peristaltic)

DO

WELL PURGING

Date	Time	~~Turbidity~~ (ntu)	Conductivity (µs/cm)	pH	Temp (°C)	Total Gallons Removed	Cumulative Well Volumes Removed	Comments
1/25/11	1051	7.78	0.459	6.69	9.36			
	1054	1.17	0.745	6.52	13.09			
	1057	0.56	0.762	6.51	13.58			
	1103	0.44	0.764	6.51	13.72			
	1106	0.44	0.755	6.50	13.61			
	1109	0.43	0.752	6.50	13.32	1 gal		

Groundwater Sampling Data Sheet (Cont)

Well No: EV 10
Date: _____

Instruments used in measuring groundwater quality parameters:
Quanta

Calibration: yes
Checked: yes

Note any observations relevant to the site, monitoring well, or groundwater quality that may be useful in analyzing the groundwater sampling data: —

Began collecting groundwater samples @ 1020 am/pm

Completed collecting groundwater samples @ 1032 am/pm

General Groundwater Sampling Information				
Analytes	**EPA Method**	**Number of Containers**	**Size of Containers**	**Preservatives**
Total Acidity as $CaCo_3$	305.1 (pH < 8.3)	1	500 mL	None
Total Alkalinity as $CaCo_3$	2320B (pH > 4.5)	1	250 mL	None
Sulfate ion	375.4	1	125 mL	None
Iron and Aluminum	200.7 Rev 4.4	1	250 mL	Nitric Acid

Groundwater Sampling Log			
Sample ID	**Time**	**Sampler**	**Analysis Requested**
EV 10	1020	ROM	VOCs
	~~1020~~		
	~~10~~		

Groundwater Sampling Data Sheet

ite Name: Elmco Project: 091878

Well No. EV 6 Date: 1/25/11

Field Personnel: MBS, JGL, ROM

Weather Conditions: 45° Rain

Well Depth (h_{TD}) 26.45 ft (w.r.t. TOC) Well Diameter 2 in

Static Water Level (h_s) 22.34 ft (w.r.t. TOC) @ _____ am/pm Well Type M

Length of Water Column 4.11 ft

TOC Elevation unk ft GW Elevation unk ft

(TOC Elevation - Static Water Level)

Standing Well Volume _____ gal

$V = 0.041\ d^2(h_{TD}-h_S)$

(V = volume of water in gallons, h_{TD} = total depth measurement in feet, h_S = depth to groundwater measurement in feet, d = diameter of well in inches)

Began Purging @ 1124 am/pm Ended Purging @ 1132 am/pm

Volume Purged 0.5 gal Water Level After Purging _____ ft

Indicate if the well was purged dry: No / Yes Calculated Yield _____ gal/min

Well Purging Method: Bailed (HDPE/Teflon) or Pumped (Submersible, Bladder, Peristaltic)

DO

WELL PURGING

Date	Time	~~Turbidity~~ (ntu)	Conductivity (µs/cm)	pH	Temp (°C)	Total Gallons Removed	Cumulative Well Volumes Removed	Comments
1/25/11	1126	7.83	0.851	6.85	13.24			
↓	1128	7.10	1.380	6.85	15.76			
↓	1130	7.05	1.130	6.87	16.49		Sp6 jumping	
↓	1132	7.12	0.870	6.88	16.67		around &	
							not stable	

Groundwater Sampling Data Sheet (Cont'd)

Well No: RW1
Date: 1/25/11

Instruments used in measuring groundwater quality parameters:
Quanta

Calibration: yes
Checked: ✓

Note any observations relevant to the site, monitoring well, or groundwater quality that may be useful in analyzing the groundwater sampling data: —

Began collecting groundwater samples @ 1110 am/pm

Completed collecting groundwater samples @ 11:15 am/pm

General Groundwater Sampling Information				
Analytes	**EPA Method**	**Number of Containers**	**Size of Containers**	**Preservatives**
Total Acidity as $CaCo_3$	305.1 (pH < 8.3)	1	500 mL	None
Total Alkalinity as $CaCo_3$	2320B (pH > 4.5)	1	250 mL	None
Sulfate ion	375.4	1	125 mL	None
Iron and Aluminum	200.7 Rev 4.4	1	250 mL	Nitric Acid

Groundwater Sampling Log			
Sample ID	**Time**	**Sampler**	**Analysis Requested**
16 RW1	1116	RoM	VOCs

ATTACHMENT 3

WELL WATER QUALITY

WATER QUALITY MEASUREMENTS: EV-8

DATE (mm.dd.yy)	TIME (military)	SITE	STATIC WATER LEVEL (ft)	DO (mg/L)	TEMP (°C)	CONDUCTIVITY (mmhos/cm)	pH (s.u.)	INSTRUMENT	COMMENTS
9/20/10	11:51	ELMCO	23.84	22.59	27.78	0.042	6.05	QUANTA	
10/28/10	9:25	ELMCO	23.63	13.29	17.94	0.299	6.57	QUANTA	
11/29/10	13:39	ELMCO	24.19	34.93	18.18	0.336	6.37	QUANTA	Duplicate Sample
12/20/10	11:18	ELMCO	23.97	4.37	16.82	0.336	6.53	QUANTA	
1/25/11		ELMCO	29.45					QUANTA	Well is dry

WATER QUALITY MEASUREMENTS: EV-10

DATE (mm.dd.yy)	TIME (military)	SITE	STATIC WATER LEVEL (ft)	DO (mg/L)	TEMP (°C)	CONDUCTIVITY (mmhos/cm)	pH (s.u.)	INSTRUMENT	COMMENTS
9/20/10	10:54	ELMCO	27.86	3.14	23.75	0.885	6.02	QUANTA	
10/28/10	8:42	ELMCO	27.85	14.15	17.22	0.435	6.26	QUANTA	SpCond not stable
11/29/10	13:07	ELMCO	27.76	7.93	17.53	0.901	6.41	QUANTA	
12/20/10	10:34	ELMCO	27.85	6.47	16.58	0.815	6.72	QUANTA	
1/25/11	10:20	ELMCO	27.71	10.49	12.13	0.016	7.58	QUANTA	

WATER QUALITY MEASUREMENTS: RW-1

DATE (mm.dd.yy)	TIME (military)	SITE	STATIC WATER LEVEL (ft)	DO (mg/L)	TEMP (°C)	CONDUCTIVITY (mmhos/cm)	pH (s.u.)	INSTRUMENT	COMMENTS
10/28/10	10:07	ELMCO	39.02	17.62	16.42	0.557	6.32	QUANTA	0.25 gallons removed
11/29/10	14:23	ELMCO	38.97	2.53	16.33	0.969	6.18	QUANTA	
12/20/10	11:50	ELMCO	39.08	0.29	15.25	0.758	6.48	QUANTA	pinkish color, SpCond not Stable
1/25/11	11:09	ELMCO	39.00	0.43	13.32	0.752	6.5	QUANTA	

WATER QUALITY MEASUREMENTS: EV-6

DATE (mm.dd.yy)	TIME (military)	SITE	STATIC WATER LEVEL (ft)	DO (mg/L)	TEMP (°C)	CONDUCTIVITY (mmhos/cm)	pH (s.u.)	INSTRUMENT	COMMENTS
11/29/10	14:50	ELMCO	22.29	6.50	18.20	1.389	6.54	QUANTA	
12/20/10	12:11	ELMCO	22.47	0.42	17.29	1.295	6.50	QUANTA	
1/25/11	11:32	ELMCO	22.34	7.12	16.67	0.870	6.88	QUANTA	SpC not stable

WATER QUALITY MEASUREMENTS: EV-9

DATE (mm.dd.yy)	TIME (military)	SITE	STATIC WATER LEVEL (ft)	DO (mg/L)	TEMP (°C)	CONDUCTIVITY (mmhos/cm)	pH (s.u.)	INSTRUMENT	COMMENTS
11/29/10	15:16	ELMCO	24.28	2.13	17.51	0.940	6.08	QUANTA	SpCond not stable
12/20/10	12:19	ELMCO	24.70	N/A	N/A	N/A	N/A	QUANTA	Well Dry
1/26/11		ELMCO	24.70						Well Dry