

October 27, 2006

*Remed # 3543*

Mr. Randall Ferguson  
Colorado Oil & Gas Conservation Commission  
1120 Lincoln Street, Suite 801  
Denver, Co. 80203



RE: 3rd Quarter 2006 Monitoring Well Sampling, Closure Request, Weideman #2,  
SWSW29, 4N, 66W, Weld County

Mr. Ferguson

This report summarizes the results of the 3rd quarter monitoring as required by the Colorado Oil and Gas Conservation Commission (COGCC). Figures 1 & 2 illustrate the current groundwater quality and the groundwater depth at the former Weideman #2 site.

#### GROUNDWATER SAMPLING

A total of five groundwater samples were collected. Monitoring well MW12 had been destroyed by the property owner during property grading. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX). The COGCC has requested this quarterly sampling to provide additional information for the Closure-No Further Action request for Weideman #2 release.

On October 5, 2006, MEC Inc sampled the existing three monitoring wells (MW5, MW10, and MW11) and two remediation french drain piping systems installed in the remediation excavation pit. The french drain piping systems are identified at the Remediation Pit East side (RW-E) and Remediation Pit West side (RW-W).

MW5 is located at the east side of the former tank battery and is considered a crossgradient location. MW10, and MW11 are considered as downgradient locations from the former tank battery location.

The two remediation french drain piping systems (RW-W and RW-E) were installed within the December 2006 remediation excavation. The remediation excavation extended to within a few feet of the former Conquest's MW1 (destroyed).

Due to the length of the RW-W piping system (40 feet) and the RW-E piping system (20 feet) the samples collected from these points are considered as composite samples, representing the former plume and excavation areas. Overall the samples from these points include the locations of the former PB 1, PB2, MW4, MW6, and MW7 wells. These samples represent the current water quality conditions below the former tank battery location extending to within three feet of the former MW 1 well.

The groundwater samples laboratory results are summarized in Table 1.

No BTEX compounds were detected in the samples from MW-11, and MW-5. Low concentrations of benzene, toluene, and xylene were detected in MW10, RW-E, and RW-W. These detections are summarized in Table 1 and discussed below.

The groundwater sample from MW-10 had measurable concentrations of toluene at 1.3 micrograms per liter (ug/L), and xylene at 1.2 ug/L.

The groundwater sample from RW-E had measurable concentrations of benzene at 0.5 ug/L; toluene at 0.6 ug/L; and xylene at 129.9 ug/L.

The groundwater sample from RW-W had a measurable concentration of toluene at 1.0 ug/L.

In general, these detections are slightly above the respective detection limits as indicated on the laboratory data form. Also these detections are below the respective regulatory guideline levels for benzene 5 ug/L, 1,000 ug/L for toluene and 10,000 ug/L for xylene.

These results are consistent with the prior groundwater monitoring events, which have been documented in prior reports.

#### RECOMMENDATION:

Based on the remediation activity that has been performed associated with the release from the Merit Energy, Weideman #2 and the subsequent groundwater monitoring activity MEC Inc on behalf of Merit requests a Closure-No Further Action status for this site.

MEC Inc is pleased to provide you with these environmental services. If you have any further questions please do not hesitate to call, 970-352-2644.

Thank you

John Mahoney

Cc: Mr. Frank Holubec, Merit Energy

Mr. Chris Gathman, Weld County Planning Department

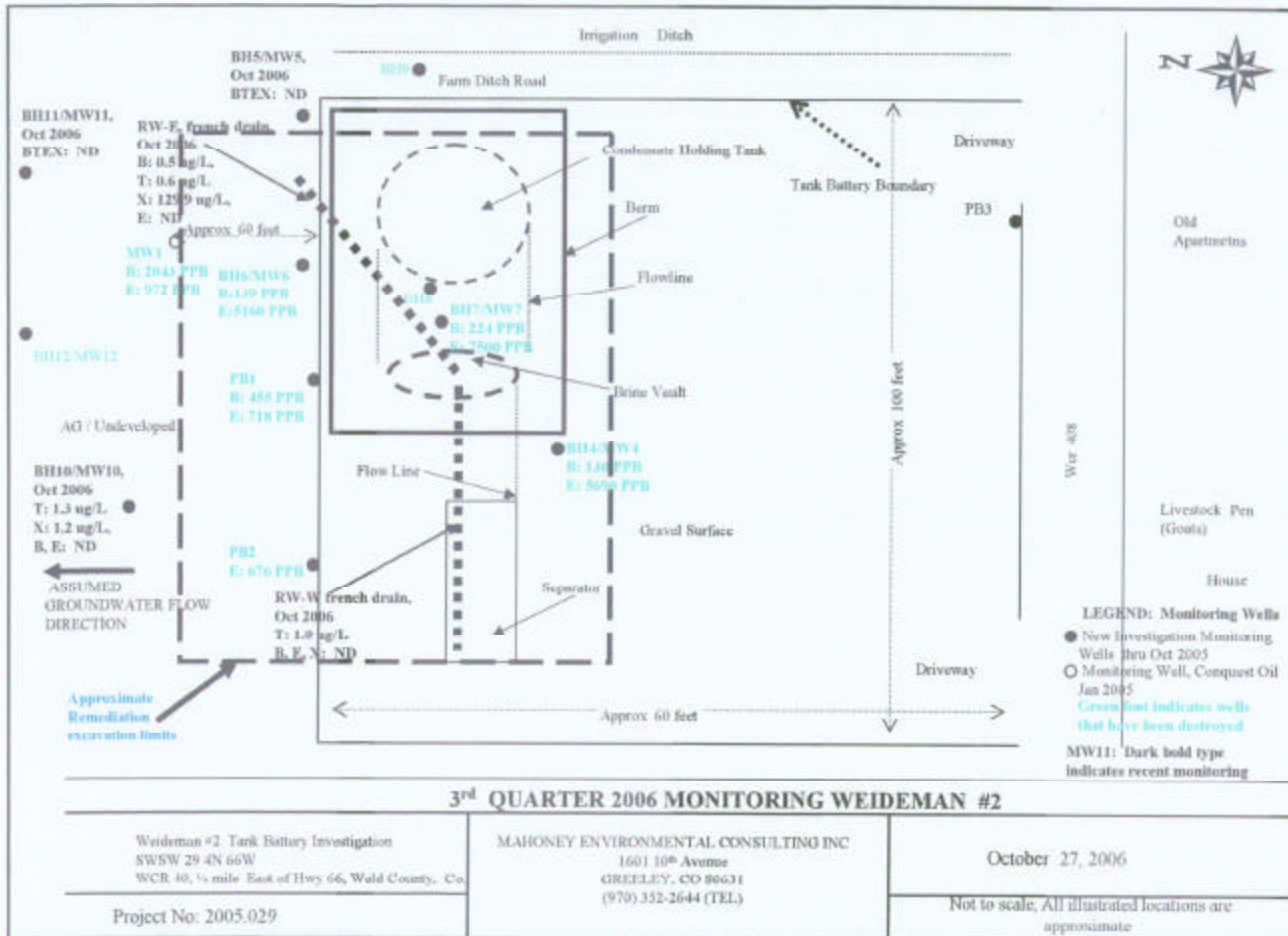
Mr. Troy E. Swain, Weld County Department of Public Health and Environment

Mr. Keith Crouch, Legal Counsel

*APPENDIX A*

FIGURES





## APPENDIX B

### TABLES

• TABLE 1 –GROUNDWATER LABORATORY RESULTS,  
• 2<sup>ND</sup> QUARTER 2006

Sample ID	Date	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L	Temperature	pH	Conductivity	Dissolved Oxygen
PB1	5/27/2005	<b>455</b>	24	<b>718</b>	3801				
	* Removed								
PB2	5/27/2005	4.4	2.6	<b>676</b>	2900				
	Removed								
PB3	5/27/2005	ND	ND	ND	ND				
MW4	10/4/2005	<b>130</b>	21.6	<b>5690</b>	3597				
	Removed								
<b>MW5</b>	10/4/2005	<b>16.1</b>	13.8	<b>716</b>	2659.5				
	4/1/2006	ND	ND	ND	ND				
	6/20/2006	ND	ND	ND	ND	17.7	7.84	891	0.62
	10/5/2006	ND	ND	ND	ND	17.6	7.8	885	0.78
MW6	10/4/2005	<b>139</b>	13.7	<b>5160</b>	2557				
	Removed								
MW7	10/11/2005	<b>224</b>	101	<b>7500</b>	5090				
	Removed								
<b>MW10</b>	10/20/2005	ND	ND	ND	ND				
	4/1/2006	ND	ND	ND	ND				
	6/20/2006	ND	ND	ND	ND	15.6	6.98	877	2.23
	10/5/2006	ND	1.3	ND	1.2	17.7	7.1	827	2.1
<b>MW11</b>	11/1/2005	ND	ND	ND	ND				
	4/1/2006	ND	ND	ND	ND				
	6/20/2006	ND	ND	ND	ND	17.7	7.47	1056	1.87
	10/5/2006	ND	ND	ND	ND	17.3	7.4	1073	2.2
<b>MW12</b>	11/1/2005	ND	ND	ND	ND				
	4/1/2006	ND	ND	ND	ND				
	6/20/2006	ND	ND	ND	ND	16.3	7.73	896	2.54
	Well destroyed								
<b>RW-W</b>	6/20/2006	ND	ND	ND	ND	15.4	7.1	636	0.67
	10/5/2006	ND	1	ND	ND	16.1	6.8	615	0.85
<b>RW-E</b>	6/20/2006	ND	ND	ND	ND	17.3	6.56	907	0.79
	10/5/2006	0.5	0.6	ND	129.9	17.3	7.1	921	0.61
X	Indicates recent sampling								
Water RBSLs		5 ug/L	1000 ug/L	680 ug/L	10000 ug/L				

Identify any sample results which exceed Colorado Groundwater Standards (MCLs) by presenting those results in bold typeface.

ND = Less than the stated laboratory detection limit; NA = Not Analyzed;

Analysis Units: Water: BTEX: micrograms per liter (ug/L)

APPENDIX C

LABORATORY ANALYTICAL RESULTS

Merit  
Wiedeman #2

October 25, 2006

Mahoney Environmental Consulting  
1601 10th Ave.  
Greeley, CO 80631

Project: Merit Wiedeman #2

Laboratory No.: E6278-3

Method EPA 602/SW8020 A and EPA 624/SW8015

Sample ID	Date Sampled	Date Analyzed	Benzene	Toluene	Ethyl-benzene	o,p-Xylene	m-Xylene	MTBE	TVPH	Sum of Recoveries
			ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	
MW-10	10/05/06	10/16/06	U	1.3	U	1.2	U	-	-	
MW-11	10/05/06	10/16/06	U	U	U	U	U	-	-	
RW-IE	10/05/06	10/16/06	0.5	0.6	U	125	4.9	-	-	
RW-W	10/05/06	10/16/06	U	1.0	U	U	U	-	-	
MW-5	10/05/06	10/16/06	U	U	U	U	U	-	-	

Reporting Limit:

0.4

0.4

0.4

0.4

0.4

0.01

0.1

QC Limits

U=Compound analyzed for but not detected

J=Compound detected at a level below reporting limit.

WELD LABORATORIES, INC.

1529 First Avenue • Greeley, Colorado 80631  
Phone: (970) 353-8176 • Fax: (970) 353-1671  
www.weldlabs.com

Project Manager

Date

10/25/06

Sampling procedures can affect the value of analytical results - customers are advised to use appropriate sampling protocol to insure samples are truly representative of the bulk sample.



Company Name Mattonet Environmental

Address 1601 10<sup>th</sup> AV.

Contact John Mattonet

# Chain of Custody Record

Weld Laboratories, Inc.

1527 1st Ave. Established 1978

Greeley, CO 80631

Phone: (970)353-8118 Fax: (970)353-1671

Phone No. 970-352-2646

Fax No. 888-219-5357

Sampler: Print Name John Mattonet

Signature John Mattonet

Analysis

Project No.: WEIDEMAN #2

Sample ID	Sample Location	Composite	Grab	Date	Time	Sample Type				No. of Containers	Analysis										Remarks
						Water	Liquid	Oil	Solid												
MW10				10/5/06		2				1	2										
MW11				10/5/06		2				1	2										
BW-E				10/5/06		2				1	2										
RW-W				10/5/06		2				1	2										
MW-5				10/5/06		2				1	2										

Comments:

Relinquished by: (Signature) <u>John Mattonet</u>	Date <u>10/5/06</u>	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature) <u>John Mattonet</u>	Date <u>10/5/06</u>	Time <u>4:30pm</u>
Method of shipment:					