

## GROUNDWATER MONITORING REPORT MARCH/APRIL 2009

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### EATON CATTLE CO. #1-18 (COGCC Remediation No. 4173)

In March 2009, LT Environmental, Inc. (LTE) conducted a quarterly groundwater sampling event, on behalf of Fountainhead Resources LTD (Fountainhead), at the Eaton Cattle Co. #1-18 Tank Battery. This report presents the analytical results for this sampling event. Site history and a description of excavation activities were provided in the Form 19 and Form 27 previously submitted to the Colorado Oil and Gas Conservation Commission in January 2008 and February 2008, respectively.

Groundwater samples have been collected from monitoring wells at the site in March, May, June, September, and December 2008 and March 2009, as summarized in Table 1. Monitoring wells MW01 through MW06 were installed surrounding the tank battery excavation in late March 2008 (Figure 1). Based on the analytical results from MW01 through MW06, monitoring wells MW07 through MW09 were installed and sampled in April 2008. Benzene concentrations in MW08 and MW09 resulted in the installation of MW10 through MW13 in May 2008. At the request of the landowner, MW14 was installed in July 2008 within the excavated area near the location of groundwater grab samples collected during initial site remediation activities. Monitoring wells MW01, MW03, MW05, MW07, MW09, MW11, MW12, MW13 and MW14 were included in the March 2009 sampling event. At the request of the landowner, LTE returned to the site on April 22, 2009 to collect a groundwater sample from the irrigation well (WW3) located closest to the area of the release, as well as an additional sample from MW14.

Depth to groundwater in each monitoring well was used to calculate well-specific purge volumes. At the irrigation well, pump flow rate and water quality parameters of conductivity, pH and temperature were measured to determine when sufficient water had been purged from the well. Following purging, groundwater samples were collected and preserved on ice. Samples were then submitted under strict chain of custody protocol to Summit Scientific Laboratory, Inc. of Golden, Colorado for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency Method 8260B.

Based on the collective analytical results, point of compliance (POC) wells have been established at this site (MW-11 through MW13). Additionally, it appears that the excavation has resulted in lowering the concentrations of BTEX constituents across the site to below the respective Colorado Groundwater Quality Standards (CGWQS). During the June, September, and December 2008 and March 2009 sampling events, none of the samples exhibited concentrations of BTEX above the CGWQS. Additionally, BTEX constituents were not detected at concentrations in excess of the laboratory method detection limits during the March 2009 event. Based on the March 2009 analytical results, BTEX concentrations are below the CGWQS and



POC wells are in place (MW11 through MW13). Analytical results are summarized in Table 1. The laboratory analytical report is attached as an appendix.

Based on having completed four consecutive quarters of groundwater monitoring with all BTEX constituent concentrations being below the CGWQS, LTE, on behalf of Fountainhead, requests that the site be granted “No Further Action” (NFA) status by the COGCC. No further sampling events are currently scheduled. Once the NFA notification has been received, the wells will be abandoned.



**TABLE**



**TABLE 1**  
**GROUNDWATER SAMPLE ANALYTICAL DATA**  
**EATON CATTLE CO. 1-18**  
**FOUNTAINHEAD RESOURCES LTD**

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	XYLENES (ug/L)
MW01	3/28/2008	6.35	2.3	<1.0	<1.0	<1.0
	5/16/2008	5.62	<1.0	<1.0	<1.0	<1.0
	9/23/2008	4.49	4.7	<1.0	<1.0	6.5
	12/10/2008	6.33	<1.0	<1.0	<1.0	<1.0
	3/5/2009	6.76	<1.0	<1.0	<1.0	<1.0
MW02	3/28/2008	5.83	<1.0	<1.0	<1.0	<1.0
	5/16/2008	5.12	<1.0	<1.0	<1.0	<1.0
	9/23/2008	NM	NS	NS	NS	NS
MW03	3/28/2008	3.36	<b>66</b>	170	4.8	150
	5/16/2008	2.62	<1.0	9	<1.0	17
	6/25/2008	6.43	<1.0	<1.0	<1.0	2.7
	9/23/2008	2.5	<1.0	<1.0	<1.0	<1.0
	12/10/2008	4.1	<1.0	<1.0	<1.0	<1.0
	3/5/2009	4.55	<1.0	<1.0	<1.0	<1.0
MW04	3/28/2008	3.95	<1.0	<1.0	<1.0	6
	5/16/2008	3.23	<1.0	<1.0	<1.0	<1.0
MW05	3/28/2008	3.51	<1.0	<1.0	<1.0	<1.0
	5/16/2008	NM	NS	NS	NS	NS
	9/23/2008	1.86	<1.0	<1.0	<1.0	<1.0
	12/10/2008	3.39	<1.0	<1.0	<1.0	<1.0
	3/5/2009	3.82	<1.0	<1.0	<1.0	<1.0
MW06	3/28/2008	3.58	<1.0	<1.0	<1.0	<1.0
	5/16/2008	NM	NS	NS	NS	NS
MW07	4/22/2008	3.76	<b>5.8</b>	75	20	710
	5/16/2008	1.03	<1.0	7	<1.0	140
	9/23/2008	1.93	<1.0	<1.0	<1.0	38
	12/10/2008	3.59	<1.0	<1.0	<1.0	<1.0
	3/5/2009	3.99	<1.0	<1.0	<1.0	<1.0
MW08	4/22/2008	4.24	<b>17</b>	4	<1.0	7
	5/16/2008	1.15	<1.0	<1.0	<1.0	<1.0
	6/25/2008	4.07	<1.0	<1.0	<1.0	<1.0



**TABLE 1**  
**GROUNDWATER SAMPLE ANALYTICAL DATA**  
**EATON CATTLE CO. 1-18**  
**FOUNTAINHEAD RESOURCES LTD**

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYLBENZENE (ug/L)	XYLENES (ug/L)
MW09	4/22/2008	5.36	<b>29</b>	<1.0	<1.0	<1.0
	5/16/2008	4.54	<b>6.8</b>	<1.0	<1.0	<1.0
	6/25/2008	7.26	<1.0	<1.0	<1.0	<1.0
	9/23/2008	3.52	<1.0	<1.0	<1.0	<1.0
	12/10/2008	5.3	<1.0	<1.0	<1.0	<1.0
	3/5/2009	5.73	<1.0	<1.0	<1.0	<1.0
MW10	5/16/2008	NM	2.1	49	3.8	140
MW11	5/16/2008	NM	2.1	<1.0	<1.0	<1.0
	9/23/2008	3.09	<1.0	<1.0	<1.0	<1.0
	12/10/2008	4.96	<1.0	<1.0	<1.0	<1.0
	3/5/2009	5.37	<1.0	<1.0	<1.0	<1.0
MW12	5/16/2008	NM	<b>13</b>	<1.0	<1.0	<1.0
	6/25/2008	7.73	<1.0	<1.0	<1.0	<1.0
	9/23/2008	3.62	<1.0	<1.0	<1.0	<1.0
	12/10/2008	5.56	<1.0	<1.0	<1.0	<1.0
	3/5/2009	5.98	<1.0	<1.0	<1.0	<1.0
MW13	5/16/2008	NM	<b>28</b>	<1.0	<1.0	<1.0
	6/25/2008	7.49	<1.0	<1.0	<1.0	3.8
	9/23/2008	4.02	<1.0	<1.0	<1.0	<1.0
	12/10/2008	5.87	<1.0	<1.0	<1.0	<1.0
	3/5/2009	6.31	<1.0	<1.0	<1.0	<1.0
MW14	8/21/2008	NM	<1.0	<1.0	<1.0	<1.0
	9/23/2008	2.87	<1.0	<1.0	<1.0	<1.0
	12/10/2008	4.43	<1.0	<1.0	<1.0	<1.0
	3/5/2009	4.86	<1.0	<1.0	<1.0	<1.0
	4/22/2009	3.47	<1.0	<1.0	<1.0	<1.0
WW3	3/14/2008	NM	1.9	<1.0	<1.0	1.2
	4/22/2009	NM	<1.0	<1.0	<1.0	<1.0

Notes:

ug/L - micrograms per liter

bgs - below ground surface

< - less than stated laboratory detection limit

MW - monitoring well

**Bold** indicates the value exceeds the Colorado Groundwater Quality Standard

NS - not sampled

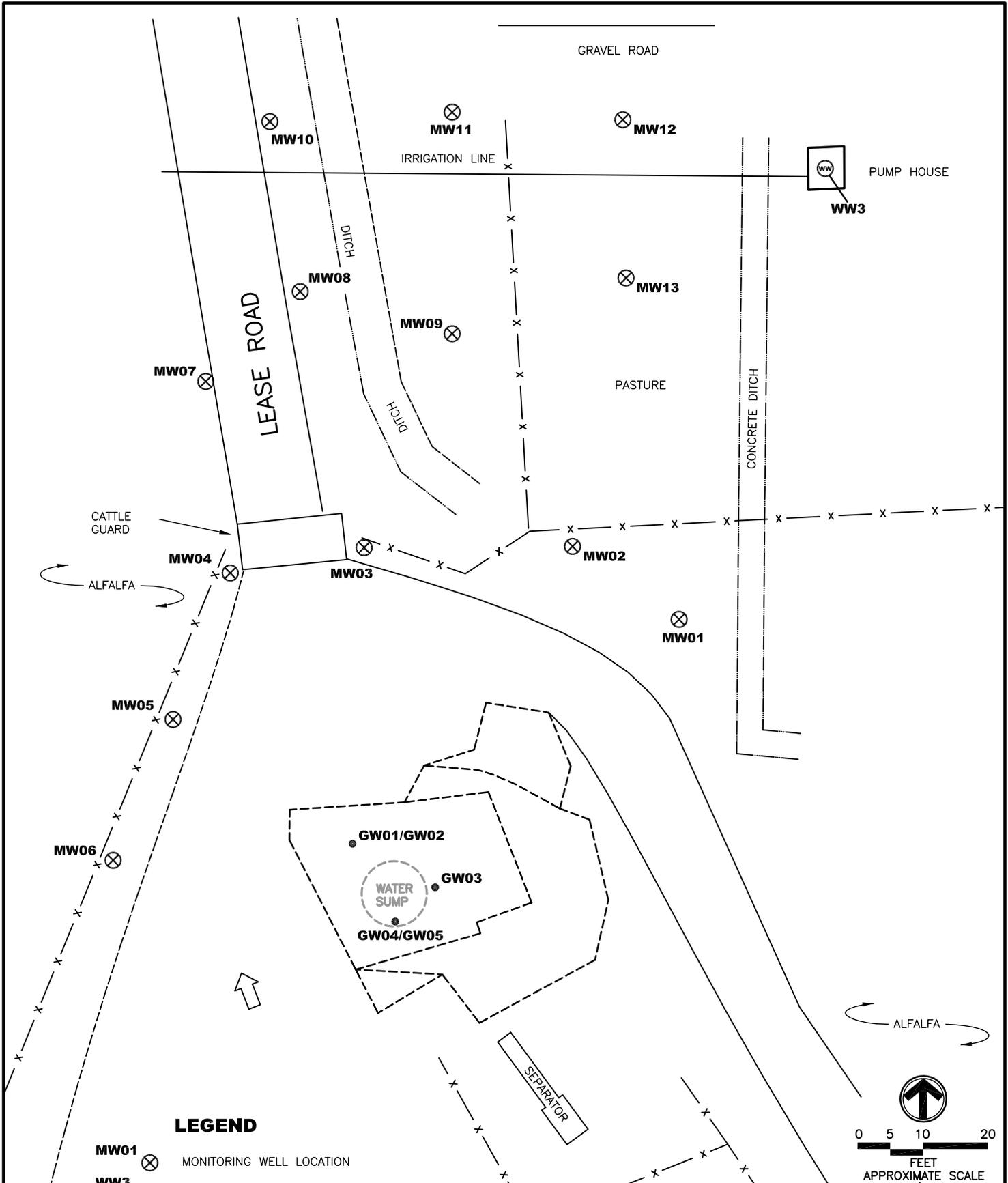
NM - not measured

WW - irrigation well



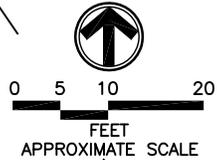
**FIGURE**





**LEGEND**

- MW01 ⊗ MONITORING WELL LOCATION
- WW3 ⊕ IRRIGATION WELL LOCATION
- GW04 ● WATER SAMPLE LOCATION
- EXTENT OF EXCAVATION
- x - FENCE
- ➔ ESTIMATED GROUNDWATER FLOW DIRECTION



**FIGURE 1**  
**SITE MAP**  
 EATON CATTLE CO. 1-18  
 NESE 18-T4N-R66W  
 WELD COUNTY, CO  
 FOUNTAINHEAD RESOURCES LTD



**APPENDIX**  
**ANALYTICAL REPORT**



# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

March 11, 2009

Steve Compton  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003

RE: MS - Eaton Cattle Co 1-18

Enclosed are the results of analyses for samples received by Summit Scientific on 03/05/09 16:33. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'LS' with a long horizontal flourish extending to the right.

Logan Shrewsbury For Ben Shrewsbury  
Vice President / Laboratory Director



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
Project Manager: Steve Compton

**Reported:**  
03/11/09 16:53

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	R903030-01	Water	03/04/09 12:15	03/05/09 16:33
MW03	R903030-02	Water	03/04/09 11:50	03/05/09 16:33
MW05	R903030-03	Water	03/04/09 11:35	03/05/09 16:33
MW07	R903030-04	Water	03/04/09 12:35	03/05/09 16:33
MW09	R903030-05	Water	03/04/09 12:55	03/05/09 16:33
MW11	R903030-06	Water	03/04/09 13:00	03/05/09 16:33
MW12	R903030-07	Water	03/04/09 13:20	03/05/09 16:33
MW13	R903030-08	Water	03/04/09 13:40	03/05/09 16:33
MW14	R903030-09	Water	03/04/09 11:15	03/05/09 16:33

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
 Project Manager: Steve Compton

Reported:  
 03/11/09 16:53

**MW01**  
**R903030-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/04/09 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9031001	03/10/09	03/10/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/04/09 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>105 %</i>	<i>77.3-121</i>		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>99.2 %</i>	<i>91.4-107</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>97.7 %</i>	<i>85.3-109</i>		"	"	"	"	

Summit Scientific

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 4600 West 60th Avenue  
 Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
 Project Manager: Steve Compton

**Reported:**  
 03/11/09 16:53

**MW03**  
**R903030-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/04/09 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9031001	03/10/09	03/10/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/04/09 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	77.3-121		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.2 %	91.4-107		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.2 %	85.3-109		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
 Project Manager: Steve Compton

**Reported:**  
 03/11/09 16:53

**MW05**  
**R903030-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/04/09 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9031001	03/10/09	03/10/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/04/09 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	77.3-121		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.2 %	91.4-107		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.2 %	85.3-109		"	"	"	"	

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LT Environmental, Inc.  
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 Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
 Project Manager: Steve Compton

**Reported:**  
 03/11/09 16:53

**MW07**

**R903030-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/04/09 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9031001	03/10/09	03/10/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/04/09 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>105 %</i>	<i>77.3-121</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>101 %</i>	<i>91.4-107</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>97.0 %</i>	<i>85.3-109</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
 Project Manager: Steve Compton

**Reported:**  
 03/11/09 16:53

**MW09**  
**R903030-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/04/09 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9031001	03/10/09	03/10/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/04/09 12:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>103 %</i>	<i>77.3-121</i>		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>101 %</i>	<i>91.4-107</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>100 %</i>	<i>85.3-109</i>		"	"	"	"	

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Project Number: MS 0808  
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**Reported:**  
 03/11/09 16:53

**MW11**  
**R903030-06 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/04/09 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9031001	03/10/09	03/10/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/04/09 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	77.3-121		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.2 %	91.4-107		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.0 %	85.3-109		"	"	"	"	

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Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
 Project Manager: Steve Compton

Reported:  
 03/11/09 16:53

**MW12**  
**R903030-07 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/04/09 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9031001	03/10/09	03/10/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/04/09 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	77.3-121		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		101 %	91.4-107		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.5 %	85.3-109		"	"	"	"	

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
 Project Manager: Steve Compton

Reported:  
 03/11/09 16:53

**MW13**  
**R903030-08 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/04/09 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9031001	03/10/09	03/10/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/04/09 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		101 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	85.3-109		"	"	"	"	

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
 Project Manager: Steve Compton

**Reported:**  
 03/11/09 16:53

**MW14**  
**R903030-09 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **03/04/09 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9031001	03/10/09	03/10/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **03/04/09 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	77.3-121		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		102 %	91.4-107		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.5 %	85.3-109		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
Project Manager: Steve Compton

Reported:  
03/11/09 16:53

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

Analyte	Reporting			Spike Level	Source		%REC		RPD		Notes
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch 9031001 - EPA 5030 Water MS**

**Blank (9031001-BLK1)**

Prepared & Analyzed: 03/10/09

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3	105	77.3-121					
Surrogate: Toluene-d8	13.4		"	13.3	101	91.4-107					
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3	101	85.3-109					

**LCS (9031001-BS1)**

Prepared & Analyzed: 03/10/09

Benzene	26.7	1.0	ug/l	33.3	80.2	70-114					
Toluene	28.6	1.0	"	33.3	85.9	72.7-116					
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3	105	77.3-121					
Surrogate: Toluene-d8	13.4		"	13.3	101	91.4-107					
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3	100	85.3-109					

**LCS Dup (9031001-BSD1)**

Prepared & Analyzed: 03/10/09

Benzene	26.3	1.0	ug/l	33.3	79.0	70-114	1.51	8.14			
Toluene	27.8	1.0	"	33.3	83.5	72.7-116	2.84	7.88			
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3	104	77.3-121					
Surrogate: Toluene-d8	13.3		"	13.3	100	91.4-107					
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3	100	85.3-109					

**Matrix Spike (9031001-MS1)**

Source: R903030-01

Prepared & Analyzed: 03/10/09

Benzene	27.1	1.0	ug/l	33.3	ND	81.4	66.8-117				
Toluene	28.5	1.0	"	33.3	ND	85.6	71.5-117				
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3		106	77.3-121				
Surrogate: Toluene-d8	13.2		"	13.3		99.2	91.4-107				
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.2	85.3-109				

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
 Project Manager: Steve Compton

Reported:  
 03/11/09 16:53

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch 9031001 - EPA 5030 Water MS**

<b>Matrix Spike Dup (9031001-MSD1)</b>	<b>Source: R903030-01</b>			<b>Prepared &amp; Analyzed: 03/10/09</b>						
Benzene	27.3	1.0	ug/l	33.3	ND	82.0	66.8-117	0.735	17.8	
Toluene	29.0	1.0	"	33.3	ND	87.1	71.5-117	1.74	14.4	
Surrogate: 1,2-Dichloroethane-d4	15.4		"	13.3		116	77.3-121			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	91.4-107			
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		103	85.3-109			

Summit Scientific

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
Project Manager: Steve Compton

**Reported:**  
03/11/09 16:53

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

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Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 24, 2009

Steve Compton  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: MS - Eaton Cattle Co 1-18

Enclosed are the results of analyses for samples received by Summit Scientific on 04/22/09 11:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'PS', with a long horizontal flourish extending to the right.

Paul Shrewsbury For Ben Shrewsbury  
Vice President / Laboratory Director



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
Project Manager: Steve Compton

**Reported:**  
04/24/09 16:14

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WW3	R904104-01	Water	04/22/09 09:28	04/22/09 11:30
MW14	R904104-02	Water	04/22/09 10:04	04/22/09 11:30

Summit Scientific

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
 Project Manager: Steve Compton

**Reported:**  
 04/24/09 16:14

**WW3**  
**R904104-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/22/09 09:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9042301	04/23/09	04/24/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/22/09 09:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.2 %	77.3-121		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	91.4-107		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	85.3-109		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
 Project Manager: Steve Compton

**Reported:**  
 04/24/09 16:14

**MW14**  
**R904104-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/22/09 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	9042301	04/23/09	04/24/09	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/22/09 10:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>109 %</i>	<i>77.3-121</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: Toluene-d8</i>		<i>100 %</i>	<i>91.4-107</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>105 %</i>	<i>85.3-109</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	

Summit Scientific

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
Project Manager: Steve Compton

Reported:  
04/24/09 16:14

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

Analyte	Reporting			Spike Level	Source		%REC		RPD		Notes
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit		

**Batch 9042301 - EPA 5030 Water MS**

**Blank (9042301-BLK1)**

Prepared & Analyzed: 04/23/09

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3	108	77.3-121					
Surrogate: Toluene-d8	12.9		"	13.3	97.0	91.4-107					
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3	104	85.3-109					

**LCS (9042301-BS1)**

Prepared & Analyzed: 04/23/09

Benzene	28.1	1.0	ug/l	33.3	84.4	70-114					
Toluene	31.8	1.0	"	33.3	95.5	72.7-116					
Surrogate: 1,2-Dichloroethane-d4	15.2		"	13.3	114	77.3-121					
Surrogate: Toluene-d8	14.1		"	13.3	106	91.4-107					
Surrogate: 4-Bromofluorobenzene	13.9		"	13.3	105	85.3-109					

**LCS Dup (9042301-BSD1)**

Prepared & Analyzed: 04/23/09

Benzene	27.5	1.0	ug/l	33.3	82.6	70-114	2.16	8.14			
Toluene	31.2	1.0	"	33.3	93.7	72.7-116	1.90	7.88			
Surrogate: 1,2-Dichloroethane-d4	15.7		"	13.3	118	77.3-121					
Surrogate: Toluene-d8	13.5		"	13.3	102	91.4-107					
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3	103	85.3-109					

**Matrix Spike (9042301-MS1)**

Source: R904101-01

Prepared & Analyzed: 04/23/09

Benzene	29.2	1.0	ug/l	33.3	2.3	80.8	66.8-117				
Toluene	29.8	1.0	"	33.3	ND	89.5	71.5-117				
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3		108	77.3-121				
Surrogate: Toluene-d8	13.3		"	13.3		100	91.4-107				
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		104	85.3-109				

Summit Scientific

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LT Environmental, Inc.  
 4600 West 60th Avenue  
 Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
 Project Manager: Steve Compton

**Reported:**  
 04/24/09 16:14

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch 9042301 - EPA 5030 Water MS**

<b>Matrix Spike Dup (9042301-MSD1)</b>	<b>Source: R904101-01</b>			<b>Prepared &amp; Analyzed: 04/23/09</b>						
Benzene	26.7	1.0	ug/l	33.3	2.3	73.3	66.8-117	8.94	17.8	
Toluene	28.7	1.0	"	33.3	ND	86.2	71.5-117	3.76	14.4	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.9</i>		<i>"</i>	<i>13.3</i>		<i>112</i>	<i>77.3-121</i>			
<i>Surrogate: Toluene-d8</i>	<i>13.3</i>		<i>"</i>	<i>13.3</i>		<i>100</i>	<i>91.4-107</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.7</i>		<i>"</i>	<i>13.3</i>		<i>103</i>	<i>85.3-109</i>			

Summit Scientific

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: MS - Eaton Cattle Co 1-18

Project Number: MS 0808  
Project Manager: Steve Compton

**Reported:**  
04/24/09 16:14

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

---

Summit Scientific

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