

LEGEND

○ SITE LOCATION



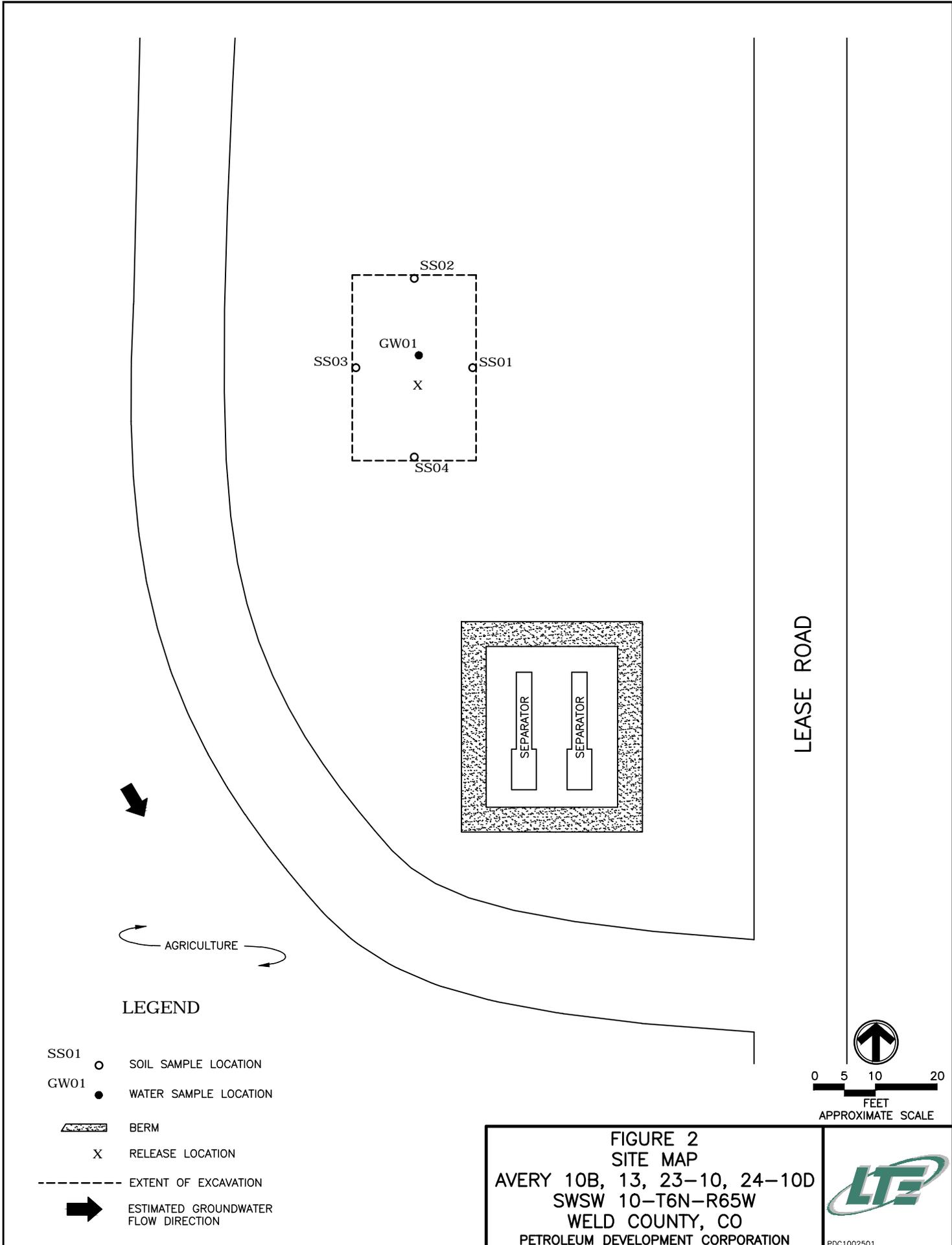
0 375 750 1500  
FEET

SOURCE: TOPOZONE.COM  
USGS 7.5" QUADRANGLE  
(NAD27)

FIGURE 1  
SITE LOCATION MAP  
AVERY 10B, 13, 23-10, 24-10D  
SWSW 10-T6N-R65W  
WELD COUNTY, CO  
PETROLEUM DEVELOPMENT CORPORATION

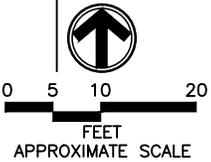


PDC1002501\_SL



**LEGEND**

- SS01 ○ SOIL SAMPLE LOCATION
- GW01 ● WATER SAMPLE LOCATION
-  BERM
- X RELEASE LOCATION
- EXTENT OF EXCAVATION
-  ESTIMATED GROUNDWATER FLOW DIRECTION



**FIGURE 2**  
**SITE MAP**  
 AVERY 10B, 13, 23-10, 24-10D  
 SWSW 10-T6N-R65W  
 WELD COUNTY, CO  
 PETROLEUM DEVELOPMENT CORPORATION



PDC1002501

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**AVERY 10B, 13 & 24-10D, 23-10 (API No. 05-123-20241)**  
**WELD COUNTY**  
**PETROLEUM DEVELOPMENT CORPORATION**

Sample ID	Depth (ft bgs)	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylenes (mg/kg)	TPH (mg/kg)
SS01	10	08/12/2010	<0.0050	<0.0050	<0.0050	<0.0050	<50.5
SS02	10	08/12/2010	<0.0050	<0.0050	<0.0050	<0.0050	<50.5
SS03	10	08/12/2010	<0.0050	<0.0050	<0.0050	<0.0050	<50.5
SS04	10	08/12/2010	<0.0050	<0.0050	<0.0050	<0.0050	<50.5
<b>Basic Standards for Soil</b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>500</b>

Notes: < - less than stated laboratory reporting limit  
 TPH - Total Petroleum Hydrocarbons (C6-C28)  
 API - American Petroleum Institute  
 Bold numbers indicate result equalled or exceeded standard.  
 Basic Standards for Soil are taken from 2 CCR 404-1, Table 910-1, effective April 1, 2009.

NA - Not Analyzed  
 mg/kg - milligrams per kilogram  
 ft bgs - feet below ground surface



**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS AND FIELD PARAMETERS**  
**AVERY 10B, 13 & 24-10D, 23-10 (API No. 123-20241)**  
**WELD COUNTY, COLORADO**  
**PETROLEUM DEVELOPMENT CORPORATION**

Sample ID	Date Sampled	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Xylenes (ug/L)	Depth to Water (ft btoc)
GW01	08/12/2010	<b>1600</b>	<b>2800</b>	110	<b>1400</b>	NM
	08/20/2010	<b>27</b>	<1.0	2.3	42	NM
<b>Basic Standards for Groundwater:</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>	

Notes: < - less than  
ft btoc - feet below top of casing  
Basic Standards for Groundwater are taken from the Colorado Department of Health and Environment - Water Quality Control Commission Regulation 41, effective 4/1/2009.  
Bold numbers indicate result equaled or exceeded standard.

ug/L - micrograms per Liter  
NM - Not measured

NA - Not Analyzed/Not Available  
API - American Petroleum Institute



# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 13, 2010

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Avery 13, 23, 24-10 & 10B

Enclosed are the results of analyses for samples received by Summit Scientific on 08/12/10 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'BS', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury

President / Laboratory Director



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

Project: PDC - Avery 13, 23, 24-10 & 10B

Project Number: PDC 08166  
Project Manager: Brian Dodek

**Reported:**  
08/13/10 08:55

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@10'	R008054-01	Soil	08/12/10 12:00	08/12/10 17:00
SS02@10'	R008054-02	Soil	08/12/10 12:05	08/12/10 17:00
SS03@10'	R008054-03	Soil	08/12/10 12:10	08/12/10 17:00
SS04@10'	R008054-04	Soil	08/12/10 12:15	08/12/10 17:00
GW01@12'	R008054-05	Water	08/12/10 12:20	08/12/10 17:00

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

Project: PDC - Avery 13, 23, 24-10 & 10B

Project Number: PDC 08166  
Project Manager: Brian Dodek

Reported:  
08/13/10 08:55

**SS01@10'**  
**R008054-01 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **08/12/10 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0081204	08/12/10	08/12/10	8015 DRO	

Date Sampled: **08/12/10 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		119 %	88.8-124		"	"	"	"	

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

Date Sampled: **08/12/10 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0081203	08/12/10	08/12/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/12/10 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		127 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		100 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	78.4-125		"	"	"	"	

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

Project: PDC - Avery 13, 23, 24-10 & 10B

Project Number: PDC 08166  
Project Manager: Brian Dodek

Reported:  
08/13/10 08:55

**SS02@10'**  
**R008054-02 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **08/12/10 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0081204	08/12/10	08/12/10	8015 DRO	

Date Sampled: **08/12/10 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		120 %	88.8-124		"	"	"	"	

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

Date Sampled: **08/12/10 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0081203	08/12/10	08/12/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/12/10 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		125 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		100 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: PDC - Avery 13, 23, 24-10 & 10B

Project Number: PDC 08166  
Project Manager: Brian Dodek

Reported:  
08/13/10 08:55

**SS03@10'**  
**R008054-03 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **08/12/10 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0081204	08/12/10	08/12/10	8015 DRO	

Date Sampled: **08/12/10 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		107 %	88.8-124		"	"	"	"	

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

Date Sampled: **08/12/10 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0081203	08/12/10	08/12/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/12/10 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		135 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		103 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	78.4-125		"	"	"	"	

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

Project: PDC - Avery 13, 23, 24-10 & 10B

Project Number: PDC 08166  
Project Manager: Brian Dodek

Reported:  
08/13/10 08:55

**SS04@10'**  
**R008054-04 (Soil)**

**Summit Scientific**

**Total Petroleum Hydrocarbons by 8015**

Date Sampled: **08/12/10 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0081204	08/12/10	08/12/10	8015 DRO	

Date Sampled: **08/12/10 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		111 %	88.8-124		"	"	"	"	

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

Date Sampled: **08/12/10 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0081203	08/12/10	08/12/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/12/10 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		133 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		100 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	78.4-125		"	"	"	"	

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 Arvada CO, 80003

Project: PDC - Avery 13, 23, 24-10 & 10B

Project Number: PDC 08166  
 Project Manager: Brian Dodek

**Reported:**  
 08/13/10 08:55

**GW01@12'**  
**R008054-05 (Water)**

**Summit Scientific**

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

Date Sampled: **08/12/10 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>1600</b>	50	ug/l	50	0081205	08/12/10	08/12/10	EPA 8260B	
<b>Toluene</b>	<b>2800</b>	50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>110</b>	50	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>1400</b>	50	"	"	"	"	"	"	

Date Sampled: **08/12/10 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		110 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		108 %	80.8-120		"	"	"	"	

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

Project: PDC - Avery 13, 23, 24-10 & 10B

Project Number: PDC 08166  
 Project Manager: Brian Dodek

**Reported:**  
 08/13/10 08:55

**Total Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 0081204 - EPA 3550A**

**Blank (0081204-BLK1)**

Prepared: 08/12/10 Analyzed: 08/13/10

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	<i>13.8</i>		<i>"</i>	<i>12.5</i>		<i>110</i>		<i>88.8-124</i>			

**LCS (0081204-BS1)**

Prepared: 08/12/10 Analyzed: 08/13/10

C10-C28 (DRO)	604	50	mg/kg	500		121		81.4-129		9.26	
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**LCS Dup (0081204-BSD1)**

Prepared: 08/12/10 Analyzed: 08/13/10

C10-C28 (DRO)	504	50	mg/kg	500		101		81.4-129	18.1	9.26	
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: PDC - Avery 13, 23, 24-10 & 10B

Project Number: PDC 08166  
Project Manager: Brian Dodek

Reported:  
08/13/10 08:55

**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	

**Batch 0081203 - EPA 5030 Soil MS**

**Blank (0081203-BLK1)**

Prepared: 08/12/10 Analyzed: 08/13/10

Benzene	ND	0.0050	mg/kg						
Toluene	ND	0.0050	"						
Ethylbenzene	ND	0.0050	"						
Xylenes (total)	ND	0.0050	"						
Gasoline Range Hydrocarbons	ND	0.50	"						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0440</i>		<i>"</i>	<i>0.0400</i>	<i>110</i>	<i>67.4-143</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>	<i>97.4</i>	<i>77.3-114</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0415</i>		<i>"</i>	<i>0.0400</i>	<i>104</i>	<i>78.4-125</i>			

**LCS (0081203-BS1)**

Prepared: 08/12/10 Analyzed: 08/13/10

Benzene	0.0907	0.0050	mg/kg	0.100	90.7	61-139		11.1
Toluene	0.0801	0.0050	"	0.100	80.1	64-132		10.9
Ethylbenzene	0.0982	0.0050	"	0.100	98.2	68.7-135		20
m,p-Xylene	0.185	0.010	"	0.200	92.5	70.4-129		20
o-Xylene	0.0901	0.0050	"	0.100	90.1	66.9-126		20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0449</i>		<i>"</i>	<i>0.0400</i>	<i>112</i>	<i>67.4-143</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>	<i>101</i>	<i>77.3-114</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>	<i>98.2</i>	<i>78.4-125</i>		

**LCS Dup (0081203-BSD1)**

Prepared: 08/12/10 Analyzed: 08/13/10

Benzene	0.0974	0.0050	mg/kg	0.100	97.4	61-139	7.14	11.1
Toluene	0.0868	0.0050	"	0.100	86.8	64-132	8.01	10.9
Ethylbenzene	0.104	0.0050	"	0.100	104	68.7-135	6.07	20
m,p-Xylene	0.200	0.010	"	0.200	100	70.4-129	7.90	20
o-Xylene	0.0970	0.0050	"	0.100	97.0	66.9-126	7.31	20
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0454</i>		<i>"</i>	<i>0.0400</i>	<i>113</i>	<i>67.4-143</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0409</i>		<i>"</i>	<i>0.0400</i>	<i>102</i>	<i>77.3-114</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>	<i>98.8</i>	<i>78.4-125</i>		

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

Project: PDC - Avery 13, 23, 24-10 & 10B

Project Number: PDC 08166  
Project Manager: Brian Dodek

Reported:  
08/13/10 08:55

**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 0081203 - EPA 5030 Soil MS**

<b>Matrix Spike (0081203-MS1)</b>	<b>Source: R008046-01</b>			Prepared: 08/12/10		Analyzed: 08/13/10					
Benzene	0.0716	0.0050	mg/kg	0.100	ND	71.6	42.9-137	22.3	17.9		
Toluene	0.0628	0.0050	"	0.100	ND	62.8	42.6-130	22.7	11.9		
Ethylbenzene	0.0862	0.0050	"	0.100	ND	86.2	39-133	4.72	20		
m,p-Xylene	0.150	0.010	"	0.200	ND	75.1	34.7-134	7.48	20		
o-Xylene	0.0785	0.0050	"	0.100	ND	78.5	41.3-126	0.153	20		
Surrogate: 1,2-Dichloroethane-d4	0.0495		"	0.0400		124	67.4-143				
Surrogate: Toluene-d8	0.0404		"	0.0400		101	77.3-114				
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.5	78.4-125				

<b>Matrix Spike Dup (0081203-MSD1)</b>	<b>Source: R008046-01</b>			Prepared: 08/12/10		Analyzed: 08/13/10					
Benzene	0.0572	0.0050	mg/kg	0.100	ND	57.2	42.9-137	22.3	17.9		
Toluene	0.0500	0.0050	"	0.100	ND	50.0	42.6-130	22.7	11.9		
Ethylbenzene	0.0904	0.0050	"	0.100	ND	90.4	39-133	4.72	20		
m,p-Xylene	0.162	0.010	"	0.200	ND	80.9	34.7-134	7.48	20		
o-Xylene	0.0786	0.0050	"	0.100	ND	78.6	41.3-126	0.153	20		
Surrogate: 1,2-Dichloroethane-d4	0.0501		"	0.0400		125	67.4-143				
Surrogate: Toluene-d8	0.0406		"	0.0400		101	77.3-114				
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	78.4-125				

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

Project: PDC - Avery 13, 23, 24-10 & 10B

Project Number: PDC 08166  
Project Manager: Brian Dodek

**Reported:**  
08/13/10 08:55

### 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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# Summit Scientific

---

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

August 23, 2010

Brian Dodek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: PDC - Avery 13, 23, 24-10 & 10B

Enclosed are the results of analyses for samples received by Summit Scientific on 08/20/10 17:00. 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  
President / Laboratory Director





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

Project: PDC - Avery 13, 23, 24-10 & 10B

Project Number: PDC 10025.05  
 Project Manager: Brian Dodek

**Reported:**  
 08/23/10 07:57

**GW01**  
**R008117-01 (Water)**

**Summit Scientific**

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

Date Sampled: **08/20/10 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>27</b>	1.0	ug/l	1	0082008	08/20/10	08/21/10	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>2.3</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>42</b>	1.0	"	"	"	"	"	"	

Date Sampled: **08/20/10 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		126 %	57.9-139		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		95.3 %	83.1-115		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.4 %	80.8-120		"	"	"	"	

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**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 0082008 - EPA 5030 Water MS**

**Blank (0082008-BLK1)**

Prepared & Analyzed: 08/20/10

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	1.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>96.2</i>	<i>57.9-139</i>				
<i>Surrogate: Toluene-d8</i>	<i>12.3</i>		<i>"</i>	<i>13.3</i>		<i>92.3</i>	<i>83.1-115</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.3</i>		<i>"</i>	<i>13.3</i>		<i>92.4</i>	<i>80.8-120</i>				

**LCS (0082008-BS1)**

Prepared & Analyzed: 08/20/10

Benzene	26.1	1.0	ug/l	33.3		78.2	60.1-131			10.9	
Toluene	25.9	1.0	"	33.3		77.7	65.9-127			11.3	
Ethylbenzene	34.0	1.0	"	33.3		102	65.1-129			20	
m,p-Xylene	68.4	2.0	"	66.7		103	66.8-127			20	
o-Xylene	31.2	1.0	"	33.3		93.5	61.2-120			20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.2</i>		<i>"</i>	<i>13.3</i>		<i>107</i>	<i>57.9-139</i>				
<i>Surrogate: Toluene-d8</i>	<i>12.6</i>		<i>"</i>	<i>13.3</i>		<i>94.2</i>	<i>83.1-115</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.5</i>		<i>"</i>	<i>13.3</i>		<i>93.8</i>	<i>80.8-120</i>				

**LCS (0082008-BS2)**

Prepared & Analyzed: 08/20/10

Benzene	27.1	1.0	ug/l	33.3		81.4	60.1-131			10.9	
Toluene	27.0	1.0	"	33.3		81.2	65.9-127			11.3	
Ethylbenzene	34.1	1.0	"	33.3		102	65.1-129			20	
m,p-Xylene	67.7	2.0	"	66.7		102	66.8-127			20	
o-Xylene	31.0	1.0	"	33.3		92.9	61.2-120			20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.8</i>		<i>"</i>	<i>13.3</i>		<i>111</i>	<i>57.9-139</i>				
<i>Surrogate: Toluene-d8</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>		<i>98.3</i>	<i>83.1-115</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.5</i>		<i>"</i>	<i>13.3</i>		<i>93.8</i>	<i>80.8-120</i>				

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

**Batch 0082008 - EPA 5030 Water MS**

**LCS Dup (0082008-BSD1)**

Prepared & Analyzed: 08/20/10

Benzene	24.6	1.0	ug/l	33.3		73.9	60.1-131	5.60	10.9	
Toluene	24.6	1.0	"	33.3		73.7	65.9-127	5.23	11.3	
Ethylbenzene	31.7	1.0	"	33.3		95.0	65.1-129	7.01	20	
m,p-Xylene	62.8	2.0	"	66.7		94.3	66.8-127	8.52	20	
o-Xylene	29.6	1.0	"	33.3		88.9	61.2-120	5.07	20	
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.3		98.3	57.9-139			
Surrogate: Toluene-d8	12.6		"	13.3		94.3	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.7	80.8-120			

**LCS Dup (0082008-BSD2)**

Prepared & Analyzed: 08/20/10

Benzene	25.3	1.0	ug/l	33.3		76.0	60.1-131	6.90	10.9	
Toluene	25.4	1.0	"	33.3		76.1	65.9-127	6.45	11.3	
Ethylbenzene	32.4	1.0	"	33.3		97.4	65.1-129	5.08	20	
m,p-Xylene	64.0	2.0	"	66.7		96.0	66.8-127	5.65	20	
o-Xylene	29.5	1.0	"	33.3		88.4	61.2-120	4.90	20	
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	57.9-139			
Surrogate: Toluene-d8	12.5		"	13.3		93.8	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		93.7	80.8-120			

**Matrix Spike (0082008-MS1)**

Source: R008082-01

Prepared: 08/20/10 Analyzed: 08/21/10

Benzene	24.9	1.0	ug/l	33.3	ND	74.7	52.7-130		19.3	
Toluene	25.0	1.0	"	33.3	ND	74.9	57-127		18.7	
Ethylbenzene	32.7	1.0	"	33.3	ND	98.1	59.2-127		20	
m,p-Xylene	62.2	2.0	"	66.7	ND	93.3	53.2-132		20	
o-Xylene	29.9	1.0	"	33.3	ND	89.8	56.3-117		20	
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3		108	57.9-139			
Surrogate: Toluene-d8	12.7		"	13.3		95.5	83.1-115			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		97.1	80.8-120			

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
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Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

**Batch 0082008 - EPA 5030 Water MS**

<b>Matrix Spike (0082008-MS2)</b>	<b>Source: R008082-02</b>			Prepared: 08/20/10		Analyzed: 08/21/10				
Benzene	25.4	1.0	ug/l	33.3	15.0	31.2	52.7-130	3.35	19.3	
Toluene	24.9	1.0	"	33.3	ND	74.8	57-127	2.97	18.7	
Ethylbenzene	32.6	1.0	"	33.3	ND	97.9	59.2-127	0.953	20	
m,p-Xylene	63.9	2.0	"	66.7	ND	95.8	53.2-132	3.57	20	
o-Xylene	29.5	1.0	"	33.3	ND	88.5	56.3-117	1.10	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.5</i>		<i>"</i>	<i>13.3</i>		<i>109</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.8</i>		<i>"</i>	<i>13.3</i>		<i>96.0</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.7</i>		<i>"</i>	<i>13.3</i>		<i>95.4</i>	<i>80.8-120</i>			

<b>Matrix Spike Dup (0082008-MSD1)</b>	<b>Source: R008082-01</b>			Prepared: 08/20/10		Analyzed: 08/21/10				
Benzene	24.1	1.0	ug/l	33.3	ND	72.2	52.7-130	3.35	19.3	
Toluene	24.2	1.0	"	33.3	ND	72.7	57-127	2.97	18.7	
Ethylbenzene	32.4	1.0	"	33.3	ND	97.2	59.2-127	0.953	20	
m,p-Xylene	64.4	2.0	"	66.7	ND	96.7	53.2-132	3.57	20	
o-Xylene	30.3	1.0	"	33.3	ND	90.8	56.3-117	1.10	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.8</i>		<i>"</i>	<i>13.3</i>		<i>104</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.7</i>		<i>"</i>	<i>13.3</i>		<i>87.8</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.7</i>		<i>"</i>	<i>13.3</i>		<i>95.4</i>	<i>80.8-120</i>			

<b>Matrix Spike Dup (0082008-MSD2)</b>	<b>Source: R008082-02</b>			Prepared: 08/20/10		Analyzed: 08/21/10				
Benzene	24.9	1.0	ug/l	33.3	15.0	29.6	52.7-130	2.11	19.3	
Toluene	24.6	1.0	"	33.3	ND	73.7	57-127	1.50	18.7	
Ethylbenzene	32.9	1.0	"	33.3	ND	98.7	59.2-127	0.854	20	
m,p-Xylene	62.8	2.0	"	66.7	ND	94.3	53.2-132	1.64	20	
o-Xylene	30.3	1.0	"	33.3	ND	91.0	56.3-117	2.81	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>14.0</i>		<i>"</i>	<i>13.3</i>		<i>105</i>	<i>57.9-139</i>			
<i>Surrogate: Toluene-d8</i>	<i>12.4</i>		<i>"</i>	<i>13.3</i>		<i>92.9</i>	<i>83.1-115</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>13.0</i>		<i>"</i>	<i>13.3</i>		<i>97.3</i>	<i>80.8-120</i>			

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### 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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