

IMAGE COURTESY OF ESRI/USGS

LEGEND

○ SITE LOCATION

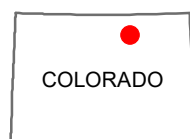
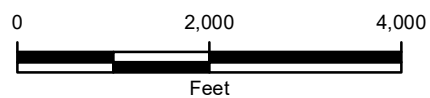


FIGURE 1
SITE LOCATION MAP
DOW 23-28
NESW SEC 28-T5N-R63W
WELD COUNTY, COLORADO
BONANZA CREEK ENERGY, INC.



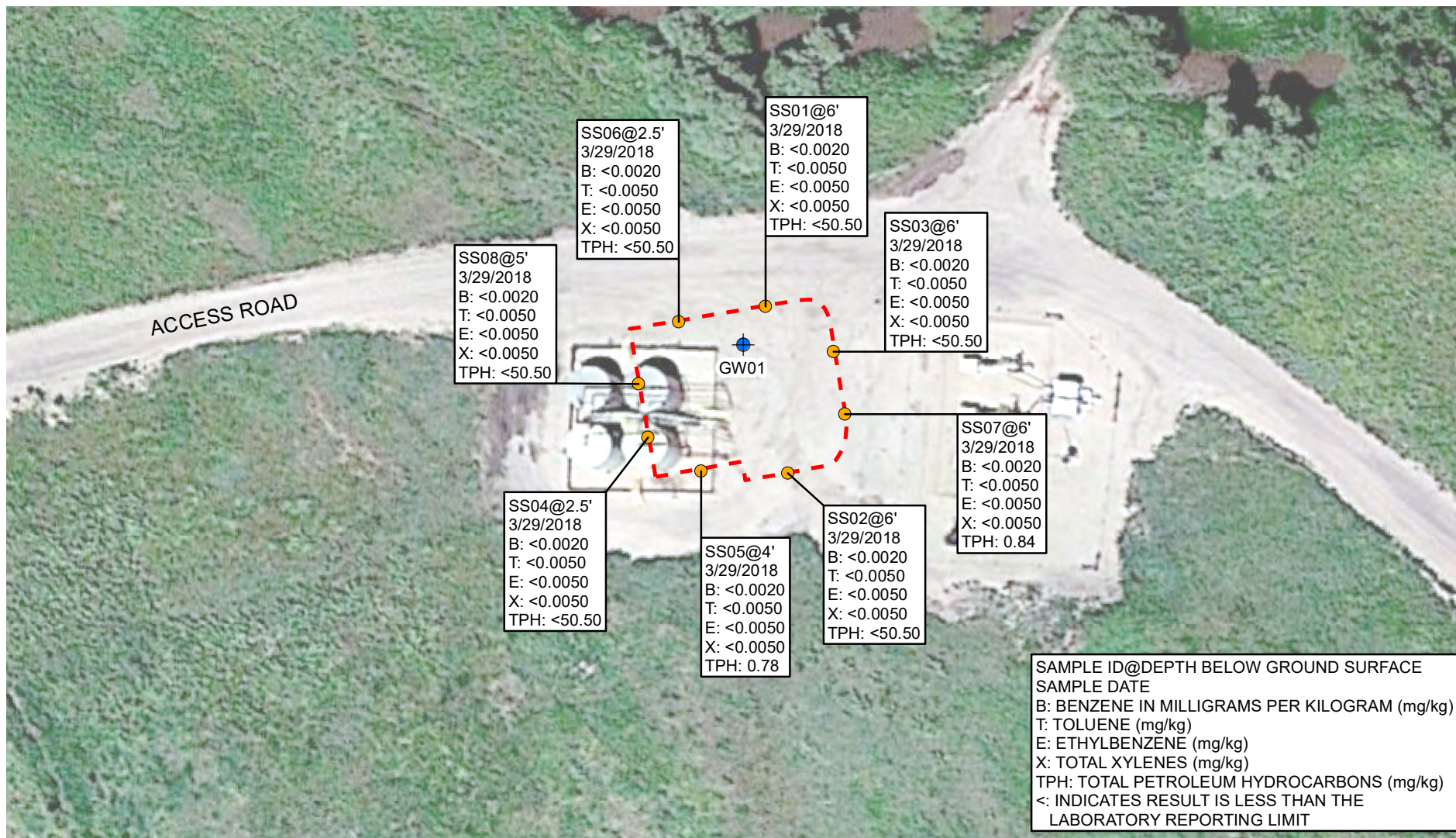


IMAGE COURTESY OF GOOGLE EARTH 2016

LEGEND

- SOIL SAMPLE
- ⊕ GROUNDWATER SAMPLE
- - - EXCAVATION EXTENT

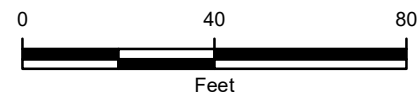


FIGURE 2
SITE MAP
DOW 23-28
NESW SEC 28-T5N-R63W
WELD COUNTY, COLORADO
BONANZA CREEK ENERGY, INC.



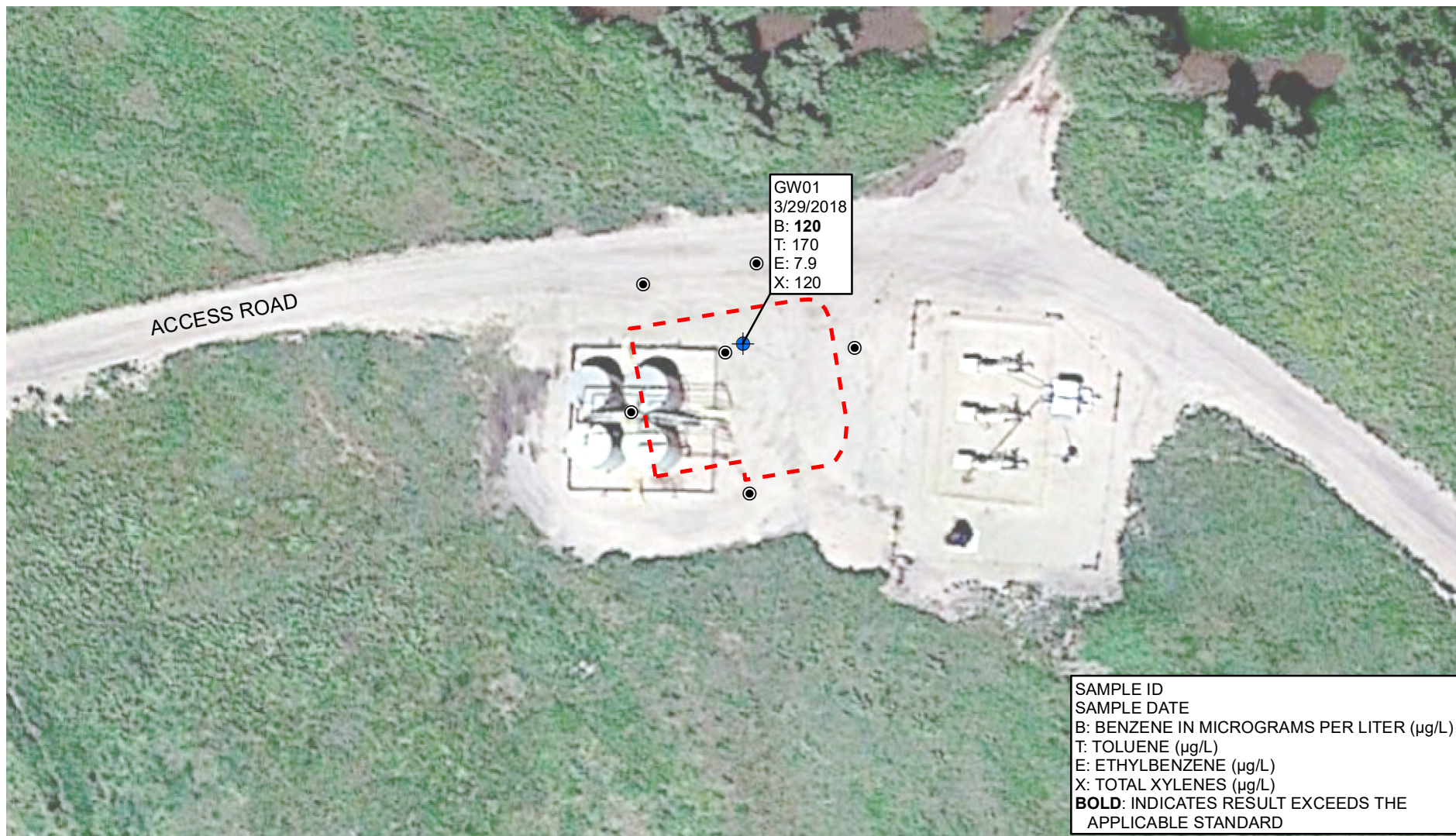


IMAGE COURTESY OF GOOGLE EARTH 2016

LEGEND

- PROPOSED MONITORING WELL
- ⊕ GROUNDWATER SAMPLE
- - - EXCAVATION EXTENT

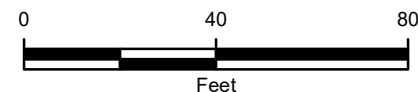


FIGURE 3
PROPOSED MONITORING WELL LOCATIONS
DOW 23-28
NESW SEC 28-T5N-R63W
WELD COUNTY, COLORADO
BONANZA CREEK ENERGY, INC.



TABLE 1
EXCAVATION SOIL ANALYTICAL RESULTS

DOW 23-28
WELD COUNTY, COLORADO
BONANZA CREEK ENERGY OPERATING COMPANY, INC.

Sample ID	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)
SS01@6'	3/29/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50.50
SS02@6'	3/29/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50.50
SS03@6'	3/29/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50.50
SS04@2.5'	3/29/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50.50
SS05@4'	3/29/2018	<0.0020	<0.0050	<0.0050	<0.0050	0.78	<50	0.78
SS06@2.5'	3/29/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50.50
SS07@6'	3/29/2018	<0.0020	<0.0050	<0.0050	<0.0050	0.84	<50	0.84
SS08@5'	3/29/2018	<0.0020	<0.0050	<0.0050	<0.0050	<0.50	<50	<50.50
South Soil Pile	3/30/2018	<0.0020	<0.0050	<0.0050	<0.0050	3.3	<50	3.3
COGCC Table 910-1 Concentration Level		0.17	85	100	175	--	--	500

Notes:

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics, analyzed by EPA Method 8015

GRO - gasoline range organics, analyzed by EPA Method 8260B

mg/kg - milligrams per kilogram

TPH - total petroleum hydrocarbons, sum of DRO and GRO

-- - not applicable

< - indicates result is less than the stated laboratory method reporting limit

BOLD - indicates result exceeds the applicable COGCC standard

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B



TABLE 2
EXCAVATION GROUNDWATER ANALYTICAL RESULTS

DOW 23-28
WELD COUNTY, COLORADO
BONANZA CREEK ENERGY OPERATING COMPANY, INC.

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
GW01	3/29/2018	120	170	7.9	120
COGCC Table 910-1 Concentration Levels		5	560	700	1,400

NOTES:

btc - below top of casing

COGCC - Colorado Oil and Gas Conservation Commission

µg/L - micrograms per liter

< - indicates result is less than the stated laboratory reporting limit

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 05, 2018

Chris Roy
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: DOW 23-28 RTB

Enclosed are the results of analyses for samples received by Summit Scientific on 03/30/18 15:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 14:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@6'	1803404-01	Soil	03/29/18 15:05	03/30/18 15:35
SS02@6'	1803404-02	Soil	03/29/18 15:20	03/30/18 15:35
SS03@6'	1803404-03	Soil	03/29/18 15:10	03/30/18 15:35
SS04@2.5'	1803404-04	Soil	03/29/18 15:30	03/30/18 15:35
SS05@4'	1803404-05	Soil	03/29/18 15:50	03/30/18 15:35
SS06@2.5'	1803404-06	Soil	03/29/18 15:55	03/30/18 15:35
SS07@6'	1803404-07	Soil	03/29/18 16:20	03/30/18 15:35
SS08@5'	1803404-08	Soil	03/29/18 16:45	03/30/18 15:35

Summit Scientific

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

Project: DOW 23-28 RTB

Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 14:35

Summit Scientific

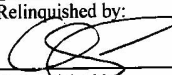
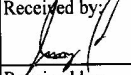
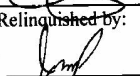
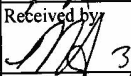
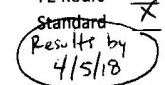
S₂

741 Corporate Circle, Suite J ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: LT Environmental Project Manager: Chris Roy
Address: 4600 W 60th E-Mail: C.Roy@LTENV.COM
City/State/Zip: Arvada CO 80003
Phone: 303-433-9788 Fax: Project Name: DOW 23-28 RTB
Sampler Name: Glenn Thompson Project Number: 034518002.0004

ID	Sample Description	Date Sampled	Time Sampled	No. of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX	620	D20		
1	SS-1 0.6'	3/29/18	1505	1			X		X				X	X	X		
2	SS-2 0.6'	3/29/18	1520	1			X		X				X	X	X		
3	SS-3 0.6'	3/29/18	1510	1			X		X				X	X	X		
4	SS-4 0.2.5'	3/29/18	1530	1			X		X				X	X	X		
5	SS-5 0.4'	3/29/18	1550	1			X		X				X	X	X		
6	SS-6 0.2.5'	3/29/18	1555	1			X		X				X	X	X		
7	SS-7 0.6'	3/29/18	1620	1			X		X				X	X	X		
8	SS-8 0.2.5'	3/29/18	1645	1			X		X				X	X	X		
9																	
10																	

Relinquished by: 	Date/Time: 3/29/18 1700	Received by: 	Date/Time: 3/29/18 1700	Turn Around Time (Check) Same Day <input type="checkbox"/> 24 hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 72 hours <input checked="" type="checkbox"/>	Notes: on icp
Relinquished by: 	Date/Time: 3/30/18 1535	Received by: 	Date/Time: 3/30/18 1535	Sample Integrity:  Results by 4/5/18	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temperature Upon Receipt: 3.7°C Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

www.s2scientific.com

Summit Scientific

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

Project: DOW 23-28 RTB

Project Number: 034518002.0004

Project Manager: Chris Roy

Reported:
04/05/18 14:35

Sample Receipt Checklist

S2 Work Order: 1803404
Client: LTE Client Project ID: DOW 23-28 RTB
Shipped Via: P/U Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Temp (°C) 3.7

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are short holding time analytes or samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCL, H2SO4, NaOH, HNO3, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Nakita
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

3/30/18 1610
Date/Time



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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 14:35

SS01@6'
1803404-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804003	04/02/18	04/04/18	8015M	

Date Sampled: **03/29/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.4 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804002	04/02/18	04/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/18 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		82.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.1 %	21-167		"	"	"	"	

Summit Scientific

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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 14:35

SS02@6'
1803404-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804003	04/02/18	04/04/18	8015M	

Date Sampled: **03/29/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		100 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804002	04/02/18	04/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/18 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		83.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.1 %	21-167		"	"	"	"	

Summit Scientific

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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 14:35

SS03@6'
1803404-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804003	04/02/18	04/04/18	8015M	

Date Sampled: **03/29/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.9 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804002	04/02/18	04/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/18 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		80.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.6 %	21-167		"	"	"	"	

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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 14:35

SS04@2.5'
1803404-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804003	04/02/18	04/04/18	8015M	

Date Sampled: **03/29/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804002	04/02/18	04/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/18 15:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		80.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.3 %	21-167		"	"	"	"	

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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 14:35

SS05@4'
1803404-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804003	04/02/18	04/04/18	8015M	

Date Sampled: **03/29/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804002	04/02/18	04/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.78	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/18 15:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		83.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.2 %	21-167		"	"	"	"	

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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 14:35

SS06@2.5'
1803404-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804003	04/02/18	04/04/18	8015M	

Date Sampled: **03/29/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.8 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804002	04/02/18	04/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/18 15:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		81.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	21-167		"	"	"	"	

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: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 14:35

SS07@6'
1803404-07 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804003	04/02/18	04/04/18	8015M	

Date Sampled: **03/29/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804002	04/02/18	04/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.84	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/18 16:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		81.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.6 %	21-167		"	"	"	"	

Summit Scientific

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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 14:35

SS08@5'
1803404-08 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/18 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804003	04/02/18	04/04/18	8015M	

Date Sampled: **03/29/18 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		106 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/18 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804002	04/02/18	04/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/18 16:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		85.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.6 %	21-167		"	"	"	"	

Summit Scientific

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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 14:35

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1804003 - EPA 3550A

Blank (1804003-BLK1)

Prepared: 04/02/18 Analyzed: 04/03/18

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.7 " 12.5 101 30-150

LCS (1804003-BS1)

Prepared: 04/02/18 Analyzed: 04/03/18

C10-C28 (DRO) 452 50 mg/kg 499 90.6 73-134

Surrogate: o-Terphenyl 15.2 " 12.5 122 30-150

Matrix Spike (1804003-MS1)

Source: 1803363-01

Prepared: 04/02/18 Analyzed: 04/03/18

C10-C28 (DRO) 2050 50 mg/kg 499 1190 172 50-148 QM-07

Surrogate: o-Terphenyl 12.1 " 12.5 96.7 30-150

Matrix Spike Dup (1804003-MSD1)

Source: 1803363-01

Prepared: 04/02/18 Analyzed: 04/03/18

C10-C28 (DRO) 2880 50 mg/kg 499 1190 338 50-148 33.7 20 QM-07

Surrogate: o-Terphenyl 11.4 " 12.5 91.1 30-150

Summit Scientific

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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 14:35

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

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

Batch 1804002 - EPA 5030 Soil MS

Blank (1804002-BLK1)

Prepared & Analyzed: 04/02/18

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0340		"	0.0400		84.9	23-173			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0335		"	0.0400		83.8	21-167			

LCS (1804002-BS1)

Prepared & Analyzed: 04/02/18

Benzene	0.0897	0.0020	mg/kg	0.150		59.8	58-130			
Toluene	0.0939	0.0050	"	0.150		62.6	61-134			
Ethylbenzene	0.103	0.0050	"	0.150		68.4	74-139			
m,p-Xylene	0.200	0.010	"	0.300		66.6	73-137			
o-Xylene	0.0984	0.0050	"	0.150		65.6	73-141			
Xylenes (total)	0.298	0.0050	"				30-150			
Gasoline Range Hydrocarbons	2.16	0.50	"				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0332		"	0.0400		83.1	23-173			
Surrogate: Toluene-d8	0.0422		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0326		"	0.0400		81.6	21-167			

Matrix Spike (1804002-MS1)

Source: 1803395-01

Prepared & Analyzed: 04/02/18

Benzene	0.0824	0.0020	mg/kg	0.150	ND	55.0	30-131			
Toluene	0.0852	0.0050	"	0.150	ND	56.8	30-134			
Ethylbenzene	0.0907	0.0050	"	0.150	ND	60.4	22-153			
m,p-Xylene	0.176	0.010	"	0.300	ND	58.8	10-159			
o-Xylene	0.0874	0.0050	"	0.150	ND	58.3	31-151			
Xylenes (total)	0.264	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	1.88	0.50	"		ND		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0339		"	0.0400		84.8	23-173			
Surrogate: Toluene-d8	0.0429		"	0.0400		107	20-170			
Surrogate: 4-Bromofluorobenzene	0.0327		"	0.0400		81.7	21-167			

Summit Scientific

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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 14:35

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

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

Batch 1804002 - EPA 5030 Soil MS

Matrix Spike Dup (1804002-MSD1)		Source: 1803395-01			Prepared & Analyzed: 04/02/18					
Benzene	0.0866	0.0020	mg/kg	0.150	ND	57.8	30-131	4.97	34	
Toluene	0.0906	0.0050	"	0.150	ND	60.4	30-134	6.15	30	
Ethylbenzene	0.0957	0.0050	"	0.150	ND	63.8	22-153	5.44	24	
m,p-Xylene	0.186	0.010	"	0.300	ND	62.0	10-159	5.26	68	
o-Xylene	0.0930	0.0050	"	0.150	ND	62.0	31-151	6.15	38	
Xylenes (total)	0.279	0.0050	"		ND		30-150	5.56	20	
Gasoline Range Hydrocarbons	2.05	0.50	"		ND		30-150	8.79	20	
Surrogate: 1,2-Dichloroethane-d4	0.0337		"	0.0400		84.2	23-173			
Surrogate: Toluene-d8	0.0422		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0324		"	0.0400		81.1	21-167			

Summit Scientific

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

Project: DOW 23-28 RTB

Project Number: 034518002.0004

Project Manager: Chris Roy

Reported:
04/05/18 14:35

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 05, 2018

Chris Roy
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: DOW 23-28

Enclosed are the results of analyses for samples received by Summit Scientific on 03/30/18 15:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



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

Project: DOW 23-28

Project Number: 034518002
Project Manager: Chris Roy

Reported:
04/05/18 14:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
South Soil Pile	1803403-01	Soil	03/30/18 10:30	03/30/18 15:35

Summit Scientific

A handwritten signature in black ink, appearing to be 'MSM'.

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

Project: DOW 23-28

Project Number: 034518002
Project Manager: Chris Roy

Reported:
04/05/18 14:33

Sample Receipt Checklist

S2 Work Order: 180 3403
Client: LTE Client Project ID: DOW 23-28
Shipped Via: P/U Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Temp (°C) 3-7

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are short holding time analytes or samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCL, H2SO4, NaOH, HNO3, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

NH
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

3/30/18 KCO
Date/Time



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

Project: DOW 23-28
Project Number: 034518002
Project Manager: Chris Roy

Reported:
04/05/18 14:33

**South Soil Pile
1803403-01 (Soil)**

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/30/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1804003	04/02/18	04/04/18	8015M	

Date Sampled: **03/30/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.7 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/30/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1804002	04/02/18	04/03/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.3	0.50	"	"	"	"	"	"	

Date Sampled: **03/30/18 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		82.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.1 %	21-167		"	"	"	"	

Summit Scientific

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

Project: DOW 23-28

Project Number: 034518002
Project Manager: Chris Roy

Reported:
04/05/18 14:33

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1804003 - EPA 3550A

Blank (1804003-BLK1)

Prepared: 04/02/18 Analyzed: 04/03/18

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.7 " 12.5 101 30-150

LCS (1804003-BS1)

Prepared: 04/02/18 Analyzed: 04/03/18

C10-C28 (DRO) 452 50 mg/kg 499 90.6 73-134

Surrogate: o-Terphenyl 15.2 " 12.5 122 30-150

Matrix Spike (1804003-MS1)

Source: 1803363-01

Prepared: 04/02/18 Analyzed: 04/03/18

C10-C28 (DRO) 2050 50 mg/kg 499 1190 172 50-148 QM-07

Surrogate: o-Terphenyl 12.1 " 12.5 96.7 30-150

Matrix Spike Dup (1804003-MSD1)

Source: 1803363-01

Prepared: 04/02/18 Analyzed: 04/03/18

C10-C28 (DRO) 2880 50 mg/kg 499 1190 338 50-148 33.7 20 QM-07

Surrogate: o-Terphenyl 11.4 " 12.5 91.1 30-150

Summit Scientific

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

Project: DOW 23-28
Project Number: 034518002
Project Manager: Chris Roy

Reported:
04/05/18 14:33

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

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

Batch 1804002 - EPA 5030 Soil MS

Blank (1804002-BLK1)

Prepared & Analyzed: 04/02/18

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0340		"	0.0400		84.9	23-173			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0335		"	0.0400		83.8	21-167			

LCS (1804002-BS1)

Prepared & Analyzed: 04/02/18

Benzene	0.0897	0.0020	mg/kg	0.150		59.8	58-130			
Toluene	0.0939	0.0050	"	0.150		62.6	61-134			
Ethylbenzene	0.103	0.0050	"	0.150		68.4	74-139			
m,p-Xylene	0.200	0.010	"	0.300		66.6	73-137			
o-Xylene	0.0984	0.0050	"	0.150		65.6	73-141			
Xylenes (total)	0.298	0.0050	"				30-150			
Gasoline Range Hydrocarbons	2.16	0.50	"				30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0332		"	0.0400		83.1	23-173			
Surrogate: Toluene-d8	0.0422		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0326		"	0.0400		81.6	21-167			

Matrix Spike (1804002-MS1)

Source: 1803395-01

Prepared & Analyzed: 04/02/18

Benzene	0.0824	0.0020	mg/kg	0.150	ND	55.0	30-131			
Toluene	0.0852	0.0050	"	0.150	ND	56.8	30-134			
Ethylbenzene	0.0907	0.0050	"	0.150	ND	60.4	22-153			
m,p-Xylene	0.176	0.010	"	0.300	ND	58.8	10-159			
o-Xylene	0.0874	0.0050	"	0.150	ND	58.3	31-151			
Xylenes (total)	0.264	0.0050	"		ND		30-150			
Gasoline Range Hydrocarbons	1.88	0.50	"		ND		30-150			
Surrogate: 1,2-Dichloroethane-d4	0.0339		"	0.0400		84.8	23-173			
Surrogate: Toluene-d8	0.0429		"	0.0400		107	20-170			
Surrogate: 4-Bromofluorobenzene	0.0327		"	0.0400		81.7	21-167			

Summit Scientific

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

Project: DOW 23-28

Project Number: 034518002
Project Manager: Chris Roy

Reported:
04/05/18 14:33

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

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

Batch 1804002 - EPA 5030 Soil MS

Matrix Spike Dup (1804002-MSD1)		Source: 1803395-01			Prepared & Analyzed: 04/02/18					
Benzene	0.0866	0.0020	mg/kg	0.150	ND	57.8	30-131	4.97	34	
Toluene	0.0906	0.0050	"	0.150	ND	60.4	30-134	6.15	30	
Ethylbenzene	0.0957	0.0050	"	0.150	ND	63.8	22-153	5.44	24	
m,p-Xylene	0.186	0.010	"	0.300	ND	62.0	10-159	5.26	68	
o-Xylene	0.0930	0.0050	"	0.150	ND	62.0	31-151	6.15	38	
Xylenes (total)	0.279	0.0050	"		ND		30-150	5.56	20	
Gasoline Range Hydrocarbons	2.05	0.50	"		ND		30-150	8.79	20	
Surrogate: 1,2-Dichloroethane-d4	0.0337		"	0.0400		84.2	23-173			
Surrogate: Toluene-d8	0.0422		"	0.0400		105	20-170			
Surrogate: 4-Bromofluorobenzene	0.0324		"	0.0400		81.1	21-167			

Summit Scientific

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

Project: DOW 23-28

Project Number: 034518002
Project Manager: Chris Roy

Reported:
04/05/18 14:33

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 05, 2018

Chris Roy
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: DOW 23-28 RTB

Enclosed are the results of analyses for samples received by Summit Scientific on 03/30/18 15:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 16:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	1803406-01	Water	03/29/18 17:06	03/30/18 15:35

Summit Scientific

A handwritten signature in black ink, appearing to be 'MSM'.

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: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 16:29

Summit Scientific

1803406

S₂

741 Corporate Circle, Suite J ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: LT Environmental Project Manager: Chris Roy
Address: 4600 W 60th AVE E-Mail: CRoy@LTENV.COM
City/State/Zip: Arvada, CO 80003
Phone: 303-433-9788 Fax: Project Name: DOW 23-28 RTB
Sampler Name: Glenn Thompson Project Number: 034518002.0004

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions	
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX									
1	GWD1	3/29/18	1706	3	X				X				X									
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by:	Date/Time: 3/29/18 1700	Received by:	Date/Time: 3/29/18 1700	Turn Around Time (Check)	Notes: ON ICP
Relinquished by:	Date/Time: 3/30/18 1535	Received by:	Date/Time: 3/30/18 1535	Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Results by 4/5/18	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: <input checked="" type="checkbox"/> Temperature Upon Receipt: 3.7°C Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

www.s2scientific.com

Summit Scientific

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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 16:29

Sample Receipt Checklist

S2 Work Order: 1803406
Client: LTE Client Project ID: DOW 23-28 RTB
Shipped Via: P/U Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Matrix (check all that apply): Air Soil/Solid ✓ Water Other: _____
(Describe)

Temp (°C) 3.7

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	✓			
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.				
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			✓	
Are short holding time analytes or samples due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water — is there headspace present? If yes, contact client and note in narrative.		✓	✓	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	✓			HCl
Note the type of preservative in the Comments column — HCL, H2SO4, NaOH, HNO3, etc.				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			✓	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			✓	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Nakitz
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

3/30/18 1610
Date/Time



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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 16:29

GW01
1803406-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/18 17:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	120	1.0	ug/l	1	1804006	04/05/18	04/05/18	EPA 8260B	
Toluene	170	1.0	"	"	"	"	"	"	
Ethylbenzene	7.9	1.0	"	"	"	"	"	"	
Xylenes (total)	120	2.0	"	"	"	"	"	"	

Date Sampled: **03/29/18 17:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	45-146		"	"	"	"	

Summit Scientific

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

Project: DOW 23-28 RTB
Project Number: 034518002.0004
Project Manager: Chris Roy

Reported:
04/05/18 16:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1804006 - EPA 5030 Water MS

Blank (1804006-BLK1)

Prepared & Analyzed: 04/05/18

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.3		"	13.3		99.5	37-154			
Surrogate: Toluene-d8	12.5		"	13.3		93.5	45-149			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	45-146			

LCS (1804006-BS1)

Prepared & Analyzed: 04/05/18

Benzene	25.9	1.0	ug/l	33.3		77.6	51-132			
Toluene	28.7	1.0	"	33.3		86.1	51-138			
Ethylbenzene	34.0	1.0	"	33.1		103	58-146			
m,p-Xylene	66.7	2.0	"	66.5		100	57-144			
o-Xylene	33.0	1.0	"	32.7		101	53-146			
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	37-154			
Surrogate: Toluene-d8	12.8		"	13.3		96.2	45-149			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	45-146			

Matrix Spike (1804006-MS1)

Source: 1803391-04

Prepared & Analyzed: 04/05/18

Benzene	43.2	1.0	ug/l	33.3	ND	130	34-141			
Toluene	66.2	1.0	"	33.3	ND	199	27-151			QM-07
Ethylbenzene	35.0	1.0	"	33.1	ND	106	29-160			
m,p-Xylene	92.0	2.0	"	66.5	5.07	131	20-166			
o-Xylene	51.8	1.0	"	32.7	ND	159	33-159			
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.3		110	37-154			
Surrogate: Toluene-d8	12.9		"	13.3		97.1	45-149			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.9	45-146			

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Project: DOW 23-28 RTB
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Project Manager: Chris Roy

Reported:
04/05/18 16:29

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

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

Batch 1804006 - EPA 5030 Water MS

Matrix Spike Dup (1804006-MSD1)		Source: 1803391-04			Prepared & Analyzed: 04/05/18					
Benzene	40.0	1.0	ug/l	33.3	ND	120	34-141	7.67	32	QM-07
Toluene	58.4	1.0	"	33.3	ND	175	27-151	12.6	25	
Ethylbenzene	35.1	1.0	"	33.1	ND	106	29-160	0.371	50	
m,p-Xylene	87.6	2.0	"	66.5	5.07	124	20-166	4.89	36	
o-Xylene	48.1	1.0	"	32.7	ND	147	33-159	7.51	26	
Surrogate: 1,2-Dichloroethane-d4	15.8		"	13.3		119	37-154			
Surrogate: Toluene-d8	12.6		"	13.3		94.4	45-149			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		101	45-146			

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