

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 27, 2019

Jeremy Pike

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: Critter Creek 5-10H

Work Order # 1909259

Enclosed are the results of analyses for samples received by Summit Scientific on 09/20/19 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premier", on a light blue background.

Muri Premier For Ben Shrewsbury

Laboratory Manager



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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@0"-6"	1909259-01	Soil	09/20/19 12:01	09/20/19 16:00
SS01@18"-24"	1909259-02	Soil	09/20/19 12:04	09/20/19 16:00
SS02@0"-6"	1909259-03	Soil	09/20/19 12:07	09/20/19 16:00
SS02@18"-24"	1909259-04	Soil	09/20/19 12:14	09/20/19 16:00
SS03@0"-6"	1909259-05	Soil	09/20/19 12:10	09/20/19 16:00
SS03@18"-24"	1909259-06	Soil	09/20/19 12:13	09/20/19 16:00
SS04@0"-6"	1909259-07	Soil	09/20/19 11:30	09/20/19 16:00
SS04@18"-24"	1909259-08	Soil	09/20/19 11:34	09/20/19 16:00
SS05@0"-6"	1909259-09	Soil	09/20/19 11:33	09/20/19 16:00
SS05@18"-24"	1909259-10	Soil	09/20/19 11:41	09/20/19 16:00
SS06@0"-6"	1909259-11	Soil	09/20/19 11:48	09/20/19 16:00
SS06@18"-24"	1909259-12	Soil	09/20/19 11:53	09/20/19 16:00
SS07@0"-6"	1909259-13	Soil	09/20/19 11:12	09/20/19 16:00
SS07@18"-24"	1909259-14	Soil	09/20/19 11:15	09/20/19 16:00
SS08@0"-6"	1909259-15	Soil	09/20/19 11:00	09/20/19 16:00
SS08@18"-24"	1909259-16	Soil	09/20/19 11:23	09/20/19 16:00
SS09@0"-6"	1909259-17	Soil	09/20/19 10:03	09/20/19 16:00
SS09@18"-24"	1909259-18	Soil	09/20/19 10:05	09/20/19 16:00
SS10@0"-6"	1909259-19	Soil	09/20/19 10:40	09/20/19 16:00
SS10@18"-24"	1909259-20	Soil	09/20/19 10:50	09/20/19 16:00
SS11@0"-6"	1909259-21	Soil	09/20/19 10:15	09/20/19 16:00
SS11@18"-24"	1909259-22	Soil	09/20/19 10:32	09/20/19 16:00

Summit Scientific

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# Summit Scientific

S<sub>2</sub>

1909259.1

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 3

Client: LT Environmental, Inc.

Project Manager: Jeremy Pike

Address: 4600 West 60th Avenue

E-Mail: [jpike@ltenv.com](mailto:jpike@ltenv.com)

City/State/Zip: Arvada, Colorado 80003

Phone: 303-433-9788

Project Name: Critter Creek 5-10H

Sampler Name: *Draw Bull; hgr*

Project Number: 027318136

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions		
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	GBTEX	TPH-DRO/ORO	EC	pH	SAR						
1	SS01@0"-6"	9/20/19	12:01	2			x			x				x	x	x	x	x					
2	SS01@18"-24"	9/20/19	12:04	2			X			X				x	x	x	x	x					
3	SS02@0"-6"	9/20/19	12:07	2			X			X				x	x	x	x	x					
4	SS02@18"-24"	9/20/19	12:14	2			X			X				x	x	x	x	x					
5	SS03@0"-6"	9/20/19	12:10	2			X			X				x	x	x	x	x					
6	SS03@18"-24"	9/20/19	12:13	2			X			X				x	x	x	x	x					
7	SS04@0"-6"	9/20/19	11:30	2			X			X				x	x	x	x	x					
8	SS04@18"-24"	9/20/19	11:34	2			X			X				x	x	x	x	x					
9	SS05@0"-6"	9/20/19	11:33	2			X			X				x	x	x	x	x					
10	SS05@18"-24"	9/20/19	11:41	2			X			X				x	x	x	x	x					

Relinquished by: <i>Draw Bull</i>	Date/Time: 9/20/19 16:00	Received by: <i>[Signature]</i>	Date/Time: 9-20-19 16:00	Turn Around Time (Check) 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"/>	BG SAMPLES ON HOLD
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>4.3</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

# Summit Scientific

S<sub>2</sub>

1909259.2

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 2 of 3

Client: LT Environmental, Inc.

Project Manager: Jeremy Pike

Address: 4600 West 60th Avenue

E-Mail: jpik@ltenv.com

City/State/Zip: Arvada, Colorado 80003

Phone: 303-433-9788

Project Name: Critter Creek 5-10H

Sampler Name: Drew Bullinger

Project Number: 027318136

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions		
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	GBTEX	TPH-DRO/ORO	EC	pH	SAR					
1	SS06@0"-6"	9/20/19	11:48	2			x			x				x	x	x	x	x				
2	SS06@18"-24"	9/20/19	11:53	2			x			x				x	x	x	x	x				
3	SS07@0"-6"	9/20/19	11:12	2			x			x				x	x	x	x	x				
4	SS07@18"-24"	9/20/19	11:15	2			x			x				x	x	x	x	x				
5	SS08@0"-6"	9/20/19	11:09	2			x			x				x	x	x	x	x				
6	SS08@18"-24"	9/20/19	11:23	2			x			x				x	x	x	x	x				
7	SS09@0"-6"	9/20/19	10:03	2			x			x				x	x	x	x	x				
8	SS09@18"-24"	9/20/19	10:05	2			x			x				x	x	x	x	x				
9	SS10@0"-6"	9/20/19	10:40	2			x			x				x	x	x	x	x				
10	SS10@18"-24"	9/20/19	10:50	2			x			x				x	x	x	x	x				

Relinquished by:	Date/Time:	Received by:	Date/Time:	<b>Turn Around Time</b> (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <u>X</u> 48 hours _____ <b>Sample Integrity:</b> Temperature Upon Receipt: <u>4.3</u> Samples Intact: <u>Yes</u> No	<b>BG SAMPLES ON HOLD</b>
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		



# Summit Scientific

S<sub>2</sub>

1909259.3

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310 ♦ 303-374-5933 (f)

Page 3 of 3

Client: LT Environmental, Inc.

Project Manager: Jeremy Pike

Address: 4600 West 60th Avenue

E-Mail: [jpik@ltenv.com](mailto:jpik@ltenv.com)

City/State/Zip: Arvada, Colorado 80003

Phone: 303-433-9788

Project Name: Critter Creek 5-10H

Sampler Name: Drew Bullinger

Project Number: 027318136

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions	
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	GBTEX	TPH-DRO/ORO	EC	pH	SAR					
1	SS11@0"-6"	9/20/19	10:15	2			x			x				x	x	x	x	x				
2	SS11@18"-24"	9/20/19	10:32	2			X			X				x	x	x	x	x				
3	BG01@0"-6"	9/20/19	9:49	2			X			X												
4	BG01@18"-24"	9/20/19	9:58	2			X			X												
5	BG02@0"-6"	9/20/19	10:11	2			X			X												
6	BG02@18"-24"	9/20/19	10:19	2			X			X												
7	BG03@0"-6"	9/20/19	10:23	2			X			X												
8	BG03@18"-24"	9/20/19	10:42	2			X			X												
9																						
10																						

Relinquished by:	Date/Time:	Received by:	Date/Time:	<b>Turn Around Time</b> (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <u>X</u> 48 hours _____ <b>Sample Integrity:</b> Temperature Upon Receipt: <u>4.3</u> Samples Intact: <u>Yes</u> No	<b>BG SAMPLES ON HOLD</b>
<i>Drew Bullinger</i>	9/20/19 16:00	<i>[Signature]</i>	9-20-19 16:00		
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

1909259

## Sample Receipt Checklist

S2 Work Order \_\_\_\_\_

Client: LT EnvironmentalClient Project ID: CritterCreek 5-10 HShipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: \_\_\_\_\_
☒ ☐ ☐ ☐ ☐
Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_  
(Describe)

Temp (°C)	13.0
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Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ? 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"/>	On Ice
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample 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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<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) <sup>(1)</sup> ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? 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):

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

MP

Custodian Printed Name or Initials

*Muri Premer*

Signature of Custodian

9/20/19

Date/Time



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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS01@0"-6"**  
**1909259-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 12:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 12:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		93.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.3 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 12:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	<b>210</b>	50	mg/kg	1	1909296	09/23/19	09/24/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 12:01**

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

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 12:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	<b>6280</b>	11.3	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS01@0"-6"**  
**1909259-01 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Magnesium	301	5.67	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
Sodium	63.7	5.67	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **09/20/19 12:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	ND	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 12:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.2		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.00		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 12:01**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.274	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS01@18"-24"**  
**1909259-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 12:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 12:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		91.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.8 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 12:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/24/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 12:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		99.3 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 12:04**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	8890	11.4	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	306	5.70	"	"	"	"	"	"	

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Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS01@18"-24"**  
**1909259-02 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	150	5.70	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 12:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.240	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 12:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.8		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.61		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 12:04**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.273	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS02@0''-6''**  
**1909259-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 12:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 12:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		90.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		89.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.4 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 12:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/24/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 12:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		99.4 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 12:07**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>2760</b>	10.7	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	<b>189</b>	5.33	"	"	"	"	"	"	

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4600 West 60th Avenue  
Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS02@0''-6''**  
**1909259-03 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	442	5.33	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	ND	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.89		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 12:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.229	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

Summit Scientific

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS02@18"-24"**  
**1909259-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 12:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 12:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		91.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.2 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 12:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/24/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 12:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		98.5 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 12:14**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	7700	11.5	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	256	5.76	"	"	"	"	"	"	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS02@18"-24"**  
**1909259-04 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	45.6	5.76	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 12:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.245	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 12:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.8		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.34		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 12:14**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.241	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS03@0"-6"**  
**1909259-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		89.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.9 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/24/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		99.9 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>10700</b>	11.3	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	<b>304</b>	5.67	"	"	"	"	"	"	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS03@0"-6"**  
**1909259-05 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	77.6	5.67	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.735	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.32		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.244	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS03@18''-24''**  
**1909259-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 12:13**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 12:13**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		89.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		90.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.2 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 12:13**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/24/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 12:13**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		99.3 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 12:13**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>5190</b>	11.0	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	<b>267</b>	5.52	"	"	"	"	"	"	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS03@18"-24"**  
**1909259-06 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	82.3	5.52	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.345	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.6		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.61		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.274	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS04@0''-6''**  
**1909259-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		89.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		90.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.5 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/24/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:30**

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

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 11:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>3600</b>	11.4	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	<b>348</b>	5.71	"	"	"	"	"	"	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS04@0"-6"**  
**1909259-07 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	363	5.71	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.192	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.37		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.354	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS04@18''-24''**  
**1909259-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		91.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.3 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/25/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		95.2 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>10800</b>	11.4	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	<b>292</b>	5.69	"	"	"	"	"	"	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS04@18"-24"**  
**1909259-08 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

<b>Sodium</b>	<b>194</b>	5.69	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Sodium Adsorption Ratio</b>	<b>0.461</b>	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>% Solids</b>	<b>87.9</b>		%	1	1909350	09/26/19	09/26/19	Calculation	
<b>pH</b>	<b>8.52</b>		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>0.269</b>	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS05@0''-6''**  
**1909259-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 11:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		89.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.6 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 11:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/25/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		92.4 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 11:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>4410</b>	12.3	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	<b>265</b>	6.14	"	"	"	"	"	"	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS05@0"-6"**  
**1909259-09 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	127	6.14	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 11:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.444	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 11:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.4		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.68		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 11:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.261	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS05@18"-24"**  
**1909259-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 11:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		89.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.0 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 11:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/25/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		95.0 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 11:41**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>10400</b>	11.6	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	<b>393</b>	5.81	"	"	"	"	"	"	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS05@18"-24"**  
**1909259-10 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	207	5.81	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 11:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.257	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 11:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.1		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.71		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 11:41**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.287	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS06@0"-6"**  
**1909259-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		89.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/25/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		94.5 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 11:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>6760</b>	11.4	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	<b>240</b>	5.68	"	"	"	"	"	"	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS06@0"-6"**  
**1909259-11 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	33.7	5.68	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	ND	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.65		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 11:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.254	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS06@18"-24"**  
**1909259-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 11:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		90.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.5 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 11:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/25/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		94.0 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 11:53**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>3440</b>	10.7	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	<b>190</b>	5.36	"	"	"	"	"	"	

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Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS06@18"-24"**  
**1909259-12 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	151	5.36	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 11:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	ND	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 11:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.92		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 11:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.240	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS07@0''-6''**  
**1909259-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 11:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		88.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.8 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 11:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	<b>380</b>	50	mg/kg	1	1909296	09/23/19	09/25/19	EPA 8015M	
C28-C36 (ORO)	<b>170</b>	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		93.4 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 11:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>4130</b>	11.0	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	<b>212</b>	5.50	"	"	"	"	"	"	

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Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS07@0"-6"**  
**1909259-13 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	177	5.50	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.284</b>	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>90.9</b>		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	<b>8.60</b>		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 11:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.275</b>	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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LT Environmental, Inc.  
4600 West 60th Avenue  
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Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS07@18"-24"**  
**1909259-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		91.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		90.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.0 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/25/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:15**

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

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 11:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>5210</b>	11.2	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	<b>188</b>	5.62	"	"	"	"	"	"	

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LT Environmental, Inc.  
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Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS07@18"-24"**  
**1909259-14 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	98.3	5.62	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	ND	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.69		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.288	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS08@0"-6"**  
**1909259-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		89.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.1 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/25/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		95.1 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 11:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>1300</b>	10.5	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	<b>126</b>	5.26	"	"	"	"	"	"	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS08@0"-6"**  
**1909259-15 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	52.1	5.26	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.163	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.1		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.92		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.274	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS08@18"-24"**  
**1909259-16 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 11:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		90.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.6 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 11:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/25/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 11:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		94.6 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 11:23**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	<b>7860</b>	11.3	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	<b>285</b>	5.64	"	"	"	"	"	"	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS08@18"-24"**  
**1909259-16 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	137	5.64	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 11:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	ND	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 11:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.55		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 11:23**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.440	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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4600 West 60th Avenue  
Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS09@0"-6"**  
**1909259-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 10:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 10:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		90.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.1 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 10:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/25/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 10:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		97.7 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 10:03**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	2270	10.8	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B	
Magnesium	170	5.40	"	"	"	"	"	"	

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LT Environmental, Inc.  
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Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS09@0"-6"**  
**1909259-17 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	155	5.40	mg/kg dry	1	1909306	09/24/19	09/24/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	ND	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.6		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.72		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 10:03**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.258	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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LT Environmental, Inc.  
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Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS09@18''-24''**  
**1909259-18 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		94.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.8 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/25/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		112 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 10:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	11800	12.7	mg/kg dry	1	1909306	09/24/19	09/25/19	EPA 6020B	
Magnesium	446	6.34	"	"	"	"	"	"	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS09@18"-24"**  
**1909259-18 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	97.9	6.34	mg/kg dry	1	1909306	09/24/19	09/25/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	ND	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.8		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.61		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.370	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS10@0"-6"**  
**1909259-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		90.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.0 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/25/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		88.6 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 10:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	3960	11.1	mg/kg dry	1	1909306	09/24/19	09/25/19	EPA 6020B	
Magnesium	195	5.54	"	"	"	"	"	"	

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4600 West 60th Avenue  
Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS10@0"-6"**  
**1909259-19 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	149	5.54	mg/kg dry	1	1909306	09/24/19	09/25/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	ND	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.3		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.61		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.263	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS10@18"-24"**  
**1909259-20 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909295	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		92.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.4 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909296	09/23/19	09/25/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		94.4 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	7480	11.2	mg/kg dry	1	1909306	09/24/19	09/25/19	EPA 6020B	
Magnesium	225	5.59	"	"	"	"	"	"	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS10@18"-24"**  
**1909259-20 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	92.3	5.59	mg/kg dry	1	1909306	09/24/19	09/25/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.574	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.4		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.76		pH Units	"	1909377	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.322	0.0100	mmhos/cm	1	1909378	09/26/19	09/26/19	EPA 120.1	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS11@0"-6"**  
**1909259-21 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 10:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909293	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 10:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		120 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		91.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 10:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909292	09/23/19	09/24/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 10:15**

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

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 10:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	2730	11.1	mg/kg dry	1	1909346	09/25/19	09/25/19	EPA 6020B	
Magnesium	397	5.53	"	"	"	"	"	"	

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS11@0"-6"**  
**1909259-21 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	22.9	5.53	mg/kg dry	1	1909346	09/25/19	09/25/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.108</b>	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>90.4</b>		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	<b>8.70</b>		pH Units	"	1909379	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.299</b>	0.0100	mmhos/cm	1	1909380	09/26/19	09/26/19	EPA 120.1	

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Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS11@18"-24"**  
**1909259-22 (Soil)**

**Summit Scientific**

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

Date Sampled: **09/20/19 10:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1909293	09/23/19	09/24/19	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/19 10:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		107 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/20/19 10:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1909292	09/23/19	09/24/19	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/20/19 10:32**

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

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/20/19 10:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	5990	11.4	mg/kg dry	1	1909346	09/25/19	09/25/19	EPA 6020B	
Magnesium	387	5.70	"	"	"	"	"	"	

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Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**SS11@18"-24"**  
**1909259-22 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Sodium	18.9	5.70	mg/kg dry	1	1909346	09/25/19	09/25/19	EPA 6020B
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**Calculated Analysis**

Date Sampled: **09/20/19 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	ND	0.100	units	1	1909400	09/27/19	09/27/19	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/20/19 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	1909350	09/26/19	09/26/19	Calculation	
pH	8.78		pH Units	"	1909379	09/26/19	09/26/19	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/20/19 10:32**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.325	0.0100	mmhos/cm	1	1909380	09/26/19	09/26/19	EPA 120.1	

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Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

## 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 1909293 - EPA 5030 Soil MS

##### Blank (1909293-BLK1)

Prepared: 09/23/19 Analyzed: 09/24/19

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0469		"	0.0400		117	23-173			
Surrogate: Toluene-d8	0.0373		"	0.0400		93.3	20-170			
Surrogate: 4-Bromofluorobenzene	0.0432		"	0.0400		108	21-167			

##### LCS (1909293-BS1)

Prepared: 09/23/19 Analyzed: 09/24/19

Benzene	0.137	0.0020	mg/kg	0.150		91.3	70-130			
Toluene	0.124	0.0050	"	0.150		82.5	70-130			
Ethylbenzene	0.131	0.0050	"	0.150		87.4	70-130			
m,p-Xylene	0.261	0.010	"	0.300		87.0	70-130			
o-Xylene	0.130	0.0050	"	0.150		86.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0386		"	0.0400		96.6	23-173			
Surrogate: Toluene-d8	0.0375		"	0.0400		93.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.4	21-167			

##### Matrix Spike (1909293-MS1)

Source: 1909258-01

Prepared: 09/23/19 Analyzed: 09/24/19

Benzene	0.143	0.0020	mg/kg	0.150	ND	95.6	70-130			
Toluene	0.142	0.0050	"	0.150	ND	94.5	70-130			
Ethylbenzene	0.123	0.0050	"	0.150	ND	82.2	70-130			
m,p-Xylene	0.246	0.010	"	0.300	ND	81.9	70-130			
o-Xylene	0.122	0.0050	"	0.150	ND	81.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0400		99.8	23-173			
Surrogate: Toluene-d8	0.0424		"	0.0400		106	20-170			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	21-167			

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4600 West 60th Avenue  
Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**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 1909293 - EPA 5030 Soil MS**

**Matrix Spike Dup (1909293-MSD1)**

**Source: 1909258-01**

Prepared: 09/23/19 Analyzed: 09/24/19

Benzene	0.142	0.0020	mg/kg	0.150	ND	94.3	70-130	1.31	30	
Toluene	0.110	0.0050	"	0.150	ND	73.2	70-130	25.4	30	
Ethylbenzene	0.117	0.0050	"	0.150	ND	77.9	70-130	5.32	30	
m,p-Xylene	0.227	0.010	"	0.300	ND	75.7	70-130	7.85	30	
o-Xylene	0.115	0.0050	"	0.150	ND	76.7	70-130	5.90	30	
Surrogate: 1,2-Dichloroethane-d4	0.0433		"	0.0400		108	23-173			
Surrogate: Toluene-d8	0.0343		"	0.0400		85.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		93.9	21-167			

**Batch 1909295 - EPA 5030 Soil MS**

**Blank (1909295-BLK1)**

Prepared: 09/23/19 Analyzed: 09/24/19

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0354		"	0.0400		88.5	23-173			
Surrogate: Toluene-d8	0.0362		"	0.0400		90.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0350		"	0.0400		87.5	21-167			

**LCS (1909295-BS1)**

Prepared: 09/23/19 Analyzed: 09/24/19

Benzene	0.0742	0.0020	mg/kg	0.100		74.2	70-130			
Toluene	0.0999	0.0050	"	0.100		99.9	70-130			
Ethylbenzene	0.0901	0.0050	"	0.100		90.1	70-130			
m,p-Xylene	0.170	0.010	"	0.200		84.9	70-130			
o-Xylene	0.0864	0.0050	"	0.100		86.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0361		"	0.0400		90.2	23-173			
Surrogate: Toluene-d8	0.0457		"	0.0400		114	20-170			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	21-167			

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**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 1909295 - EPA 5030 Soil MS**

Matrix Spike (1909295-MS1)		Source: 1909259-01			Prepared: 09/23/19 Analyzed: 09/24/19					
Benzene	0.0789	0.0020	mg/kg	0.100	ND	78.9	70-130			
Toluene	0.102	0.0050	"	0.100	ND	102	70-130			
Ethylbenzene	0.0931	0.0050	"	0.100	ND	93.1	70-130			
m,p-Xylene	0.175	0.010	"	0.200	ND	87.6	70-130			
o-Xylene	0.0884	0.0050	"	0.100	ND	88.4	70-130			
Surrogate: 1,2-Dichloroethane-d4		0.0348	"	0.0400		86.9	23-173			
Surrogate: Toluene-d8		0.0450	"	0.0400		112	20-170			
Surrogate: 4-Bromofluorobenzene		0.0398	"	0.0400		99.4	21-167			
Matrix Spike Dup (1909295-MSD1)		Source: 1909259-01			Prepared: 09/23/19 Analyzed: 09/24/19					
Benzene	0.0743	0.0020	mg/kg	0.100	ND	74.3	70-130	5.99	30	
Toluene	0.0991	0.0050	"	0.100	ND	99.1	70-130	2.51	30	
Ethylbenzene	0.0894	0.0050	"	0.100	ND	89.4	70-130	4.05	30	
m,p-Xylene	0.169	0.010	"	0.200	ND	84.6	70-130	3.47	30	
o-Xylene	0.0871	0.0050	"	0.100	ND	87.1	70-130	1.47	30	
Surrogate: 1,2-Dichloroethane-d4		0.0348	"	0.0400		87.1	23-173			
Surrogate: Toluene-d8		0.0469	"	0.0400		117	20-170			
Surrogate: 4-Bromofluorobenzene		0.0398	"	0.0400		99.4	21-167			

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Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**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 1909292 - EPA 3550A**

**Blank (1909292-BLK1)**

Prepared & Analyzed: 09/23/19

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (1909292-BS1)**

Prepared & Analyzed: 09/23/19

C10-C28 (DRO)	525	50	mg/kg	500	105	81.4-129
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**Matrix Spike (1909292-MS1)**

Source: 1909258-01

Prepared & Analyzed: 09/23/19

C10-C28 (DRO)	493	50	mg/kg	500	91.4	80.4	77.8-133
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**Matrix Spike Dup (1909292-MSD1)**

Source: 1909258-01

Prepared & Analyzed: 09/23/19

C10-C28 (DRO)	516	50	mg/kg	500	91.4	84.8	77.8-133	4.39	8.48
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**Batch 1909296 - EPA 3550A**

**Blank (1909296-BLK1)**

Prepared: 09/23/19 Analyzed: 09/24/19

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

**LCS (1909296-BS1)**

Prepared: 09/23/19 Analyzed: 09/24/19

C10-C28 (DRO)	547	50	mg/kg	500	109	81.4-129
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**Matrix Spike (1909296-MS1)**

Source: 1909259-02

Prepared: 09/23/19 Analyzed: 09/24/19

C10-C28 (DRO)	533	50	mg/kg	500	ND	107	77.8-133
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**Matrix Spike Dup (1909296-MSD1)**

Source: 1909259-02

Prepared: 09/23/19 Analyzed: 09/24/19

C10-C28 (DRO)	526	50	mg/kg	500	ND	105	77.8-133	1.29	8.48
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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control**

**Summit Scientific**

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

**Batch 1909306 - General Preparation**

**Blank (1909306-BLK1)**

Prepared & Analyzed: 09/24/19

Calcium	ND	10.0	mg/kg wet
Magnesium	ND	5.00	"
Sodium	ND	5.00	"

**LCS (1909306-BS1)**

Prepared & Analyzed: 09/24/19

Calcium	516	10.0	mg/kg wet	500	103	70-130
Magnesium	513	5.00	"	500	103	70-130
Sodium	518	5.00	"	500	104	70-130

**Duplicate (1909306-DUP1)**

Source: 1909259-01

Prepared & Analyzed: 09/24/19

Calcium	6410	11.3	mg/kg dry	6280	2.00	20
Magnesium	310	5.67	"	301	3.15	20
Sodium	66.3	5.67	"	63.7	4.13	20

**Matrix Spike (1909306-MS1)**

Source: 1909259-01

Prepared & Analyzed: 09/24/19

Calcium	6940	11.3	mg/kg dry	567	6280	115	70-130
Magnesium	819	5.67	"	567	301	91.5	70-130
Sodium	591	5.67	"	567	63.7	93.0	70-130

**Matrix Spike Dup (1909306-MSD1)**

Source: 1909259-01

Prepared & Analyzed: 09/24/19

Calcium	6890	11.3	mg/kg dry	567	6280	107	70-130	0.664	25
Magnesium	840	5.67	"	567	301	95.1	70-130	2.48	25
Sodium	594	5.67	"	567	63.7	93.6	70-130	0.598	25

**Batch 1909346 - General Preparation**

**Blank (1909346-BLK1)**

Prepared & Analyzed: 09/25/19

Calcium	ND	10.0	mg/kg wet
Magnesium	ND	5.00	"
Sodium	ND	5.00	"

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4600 West 60th Avenue  
Arvada CO, 80003

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control**

**Summit Scientific**

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

**Batch 1909346 - General Preparation**

**LCS (1909346-BS1)**

Prepared & Analyzed: 09/25/19

Calcium	532	10.0	mg/kg wet	500		106	70-130
Magnesium	564	5.00	"	500		113	70-130
Sodium	505	5.00	"	500		101	70-130

**Duplicate (1909346-DUP1)**

Source: 1909255-40

Prepared & Analyzed: 09/25/19

Calcium	2290	10.9	mg/kg dry	2070		10.3	20
Magnesium	343	5.46	"	347		1.22	20
Sodium	94.6	5.46	"	96.0		1.52	20

**Matrix Spike (1909346-MS1)**

Source: 1909255-40

Prepared & Analyzed: 09/25/19

Calcium	2720	10.9	mg/kg dry	546	2070	118	70-130
Magnesium	853	5.46	"	546	347	92.7	70-130
Sodium	619	5.46	"	546	96.0	95.8	70-130

**Matrix Spike Dup (1909346-MSD1)**

Source: 1909255-40

Prepared & Analyzed: 09/25/19

Calcium	2740	10.9	mg/kg dry	546	2070	122	70-130	0.811	25
Magnesium	844	5.46	"	546	347	91.1	70-130	1.04	25
Sodium	607	5.46	"	546	96.0	93.6	70-130	1.97	25

Summit Scientific

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

Project: Critter Creek 5-10H

Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

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

**Batch 1909350 - General Preparation**

<b>Duplicate (1909350-DUP1)</b>			<b>Source: 1909257-01</b>			Prepared & Analyzed: 09/26/19				
% Solids	92.2		%		92.7			0.540	20	

**Batch 1909377 - General Preparation**

<b>LCS (1909377-BS1)</b>			Prepared & Analyzed: 09/26/19							
pH	9.38		pH Units	9.18		102	95-105			
<b>Duplicate (1909377-DUP1)</b>			<b>Source: 1909259-01</b>			Prepared & Analyzed: 09/26/19				
pH	8.09		pH Units		8.00			1.12	20	

**Batch 1909379 - General Preparation**

<b>LCS (1909379-BS1)</b>			Prepared & Analyzed: 09/26/19							
pH	9.38		pH Units	9.18		102	95-105			
<b>Duplicate (1909379-DUP1)</b>			<b>Source: 1909259-21</b>			Prepared & Analyzed: 09/26/19				
pH	8.72		pH Units		8.70			0.230	20	

Summit Scientific

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**Specific Conductance by EPA Method 120.1 - Quality Control**  
**Summit Scientific**

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

**Batch 1909378 - General Preparation**

**Blank (1909378-BLK1)**

Prepared & Analyzed: 09/26/19

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (1909378-BS1)**

Prepared & Analyzed: 09/26/19

Specific Conductance (EC) 0.738 0.0100 mmhos/cm 0.750 98.4 90-110

**Duplicate (1909378-DUP1)**

**Source: 1909259-01**

Prepared & Analyzed: 09/26/19

Specific Conductance (EC) 0.278 0.0100 mmhos/cm 0.274 1.58 20

**Batch 1909380 - General Preparation**

**Blank (1909380-BLK1)**

Prepared & Analyzed: 09/26/19

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (1909380-BS1)**

Prepared & Analyzed: 09/26/19

Specific Conductance (EC) 0.708 0.0100 mmhos/cm 0.750 94.4 90-110

**Duplicate (1909380-DUP1)**

**Source: 1909259-21**

Prepared & Analyzed: 09/26/19

Specific Conductance (EC) 0.301 0.0100 mmhos/cm 0.299 0.634 20

Summit Scientific

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Project Number: 027318136  
Project Manager: Jeremy Pike

**Reported:**  
09/27/19 13:54

### 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