

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 28, 2020

Jeremy Pike

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: RSU Anschutz Fed 4-62-2 SWNW

Work Order #2010272

Enclosed are the results of analyses for samples received by Summit Scientific on 10/21/20 14:30. 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: RSU Anschutz Fed 4-62-2 SWNW

Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@0-6"	2010272-01	Soil	10/20/20 14:40	10/21/20 14:30
SS01@18-24"	2010272-02	Soil	10/20/20 14:45	10/21/20 14:30
SS02@0-6"	2010272-03	Soil	10/20/20 14:55	10/21/20 14:30
SS02@18-24"	2010272-04	Soil	10/20/20 15:00	10/21/20 14:30
SS03@0-6"	2010272-05	Soil	10/20/20 15:10	10/21/20 14:30
SS03@18-24"	2010272-06	Soil	10/20/20 15:17	10/21/20 14:30

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.

2010272

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: LT Environmental

Project Manager: Jeremy Pike

Address: 4600 W 60th Ave

E-Mail: J.Pike@Ltehv.com

City/State/Zip: Arvada, CO 80003

D. Butting HREBEL@Ltehv.com

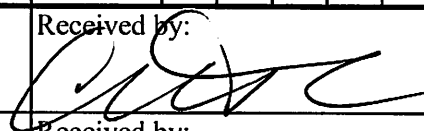
Phone: 303-433-9788

Project Name: RSU Fed AHSCHUTZ 4-62-2 SW NW

Sampler Name: Drew Bullinger

Project Number: 027320020

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions			
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	GBTEX	TPH - DRO	EC	PH	SAR					
1	SS01 @ 0-6"	10/20/20	14:40	1			X			X				X	X	X	X	X				
2	SS01 @ 18-24"	10/20/20	14:45	1			X			X				X	X	X	X	X				
3	SS02 @ 0-6"	10/20/20	14:55	1			X			X				X	X	X	X	X				
4	SS02 @ 18-24"	10/20/20	15:00	1			X			X				X	X	X	X	X				
5	SS03 @ 0-6"	10/20/20	15:16	1			X			X				X	X	X	X	X				
6	SS03 @ 18-24"	10/20/20	15:17	1			X			X				X	X	X	X	X				
7	Bg01 @ 0-6"	10/20/20	15:30	1			X			X						X	X	X				Hold
8	Bg01 @ 18-24"	10/20/20	15:33	1			X			X						X	X	X				Hold
9	Bg02 @ 0-6"	10/20/20	15:23	1			X			X						X	X	X				Hold
10	Bg02 @ 18-24"	10/20/20	15:26	1			X			X						X	X	X				Hold

Relinquished by: Drew Bullinger	Date/Time: 10/21/20 1430	Received by: 	Date/Time: 10.21.2020 1430	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 4.6° Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2010272

Client: LTE Client Project ID: RSU Fed Anschutz 4-62-255WNW

Shipped Via: (H.D./P.U./FedEx/UPS/USPS/Other) Airbill #: _____

Matrix (check all that apply): Air X Soil/Solid Water Other: _____
(Describe)

Temp (°C)	<u>4.6°</u>
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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 ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<u>✓</u>			<u>in ice</u>
Were all samples received intact ⁽¹⁾ ?	<u>✓</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>✓</u>			
If custody seals are present, are they intact ⁽¹⁾ ?			<u>✓</u>	
Are samples with holding times due within 48 hours sample due within 48 hours present?			<u>✓</u>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<u>✓</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>✓</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>✓</u>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<u>✓</u>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<u>✓</u>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			<u>✓</u>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			<u>✓</u>	
If dissolved metals are requested, were samples field filtered?			<u>✓</u>	
Additional Comments (if any): 				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

AT Custodian Printed Name or Initials [Signature] Signature of Custodian 10.21.2020 Date/Time



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

Project: RSU Anschutz Fed 4-62-2 SWNW

Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

SS01@0-6"
2010272-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/20 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BDJ0298	10/22/20	10/24/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/20 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		86.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/20 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BDJ0299	10/22/20	10/24/20	EPA 8015M	

Date Sampled: **10/20/20 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		91.1 %	30-150		"	"	"	"	

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

Date Sampled: **10/20/20 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	184	10.2	mg/kg dry	1	BDJ0320	10/23/20	10/27/20	EPA 6020B	
Magnesium	61.3	5.09	"	"	"	"	"	"	

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Project: RSU Anschutz Fed 4-62-2 SWNW
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10/28/20 14:14

SS01@0-6"
2010272-01 (Soil)

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

Sodium	13.8	5.09	mg/kg dry	1	BDJ0320	10/23/20	10/27/20	EPA 6020B
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Calculated Analysis

Date Sampled: **10/20/20 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.225	0.100	units	1	BDJ0339	10/27/20	10/27/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/20 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.2		%	1	BDJ0286	10/22/20	10/22/20	Calculation	
pH	8.83		pH Units	"	BDJ0287	10/22/20	10/22/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/20/20 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.229	0.0100	mmhos/cm	1	BDJ0288	10/22/20	10/22/20	EPA 120.1	

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Project: RSU Anschutz Fed 4-62-2 SWNW
Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

SS01@18-24"
2010272-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/20 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BDJ0298	10/22/20	10/24/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.014	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.8	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/20 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		118 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/20 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	210	50	mg/kg	1	BDJ0299	10/22/20	10/24/20	EPA 8015M	

Date Sampled: **10/20/20 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		90.8 %	30-150		"	"	"	"	

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

Date Sampled: **10/20/20 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	705	10.6	mg/kg dry	1	BDJ0320	10/23/20	10/27/20	EPA 6020B	
Magnesium	122	5.28	"	"	"	"	"	"	
Sodium	21.0	5.28	"	"	"	"	"	"	

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Project: RSU Anschutz Fed 4-62-2 SWNW
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Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

SS01@18-24"
2010272-02 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **10/20/20 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.192	0.100	units	1	BDJ0339	10/27/20	10/27/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/20 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.7		%	1	BDJ0286	10/22/20	10/22/20	Calculation	
pH	8.91		pH Units	"	BDJ0287	10/22/20	10/22/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/20/20 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.310	0.0100	mmhos/cm	1	BDJ0288	10/22/20	10/22/20	EPA 120.1	

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Arvada CO, 80003

Project: RSU Anschutz Fed 4-62-2 SWNW

Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

SS02@0-6"
2010272-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/20 14:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BDJ0298	10/22/20	10/24/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/20 14:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		104 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/20 14:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BDJ0299	10/22/20	10/24/20	EPA 8015M	

Date Sampled: **10/20/20 14:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		78.1 %	30-150		"	"	"	"	

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

Date Sampled: **10/20/20 14:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	785	10.1	mg/kg dry	1	BDJ0320	10/23/20	10/27/20	EPA 6020B	
Magnesium	123	5.07	"	"	"	"	"	"	
Sodium	30.6	5.07	"	"	"	"	"	"	

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Project: RSU Anschutz Fed 4-62-2 SWNW
Project Number: 027320020
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Reported:
10/28/20 14:14

SS02@0-6"
2010272-03 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **10/20/20 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.268	0.100	units	1	BDJ0339	10/27/20	10/27/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/20 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.6		%	1	BDJ0286	10/22/20	10/22/20	Calculation	
pH	8.59		pH Units	"	BDJ0287	10/22/20	10/22/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/20/20 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.510	0.0100	mmhos/cm	1	BDJ0288	10/22/20	10/22/20	EPA 120.1	

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Arvada CO, 80003

Project: RSU Anschutz Fed 4-62-2 SWNW
Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

SS02@18-24"
2010272-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/20 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BDJ0298	10/22/20	10/24/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/20 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.9 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/20 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BDJ0299	10/22/20	10/24/20	EPA 8015M	

Date Sampled: **10/20/20 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		84.0 %	30-150		"	"	"	"	

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

Date Sampled: **10/20/20 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	103	10.3	mg/kg dry	1	BDJ0320	10/23/20	10/27/20	EPA 6020B	
Magnesium	48.2	5.13	"	"	"	"	"	"	
Sodium	17.9	5.13	"	"	"	"	"	"	

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10/28/20 14:14

SS02@18-24"
2010272-04 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **10/20/20 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.365	0.100	units	1	BDJ0339	10/27/20	10/27/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/20 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.4		%	1	BDJ0286	10/22/20	10/22/20	Calculation	
pH	8.60		pH Units	"	BDJ0287	10/22/20	10/22/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/20/20 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.297	0.0100	mmhos/cm	1	BDJ0288	10/22/20	10/22/20	EPA 120.1	

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Project: RSU Anschutz Fed 4-62-2 SWNW

Project Number: 027320020
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Reported:
10/28/20 14:14

SS03@0-6"
2010272-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BDJ0298	10/22/20	10/24/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		108 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BDJ0299	10/22/20	10/24/20	EPA 8015M	

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		89.7 %	30-150		"	"	"	"	

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

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	485	10.3	mg/kg dry	1	BDJ0320	10/23/20	10/27/20	EPA 6020B	
Magnesium	115	5.14	"	"	"	"	"	"	
Sodium	86.3	5.14	"	"	"	"	"	"	

Summit Scientific

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

Project: RSU Anschutz Fed 4-62-2 SWNW

Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

SS03@0-6"
2010272-05 (Soil)

Summit Scientific

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

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.915	0.100	units	1	BDJ0339	10/27/20	10/27/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.4		%	1	BDJ0286	10/22/20	10/22/20	Calculation	
pH	8.44		pH Units	"	BDJ0287	10/22/20	10/22/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.892	0.0100	mmhos/cm	1	BDJ0288	10/22/20	10/22/20	EPA 120.1	

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Project: RSU Anschutz Fed 4-62-2 SWNW
Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

SS03@18-24"
2010272-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/20 15:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BDJ0298	10/22/20	10/24/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/20 15:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/20 15:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BDJ0299	10/22/20	10/24/20	EPA 8015M	

Date Sampled: **10/20/20 15:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.0 %	30-150		"	"	"	"	

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

Date Sampled: **10/20/20 15:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	124	10.3	mg/kg dry	1	BDJ0320	10/23/20	10/27/20	EPA 6020B	
Magnesium	52.5	5.15	"	"	"	"	"	"	
Sodium	20.2	5.15	"	"	"	"	"	"	

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Project: RSU Anschutz Fed 4-62-2 SWNW

Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

SS03@18-24"
2010272-06 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **10/20/20 15:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.383	0.100	units	1	BDJ0339	10/27/20	10/27/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/20 15:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.1		%	1	BDJ0286	10/22/20	10/22/20	Calculation	
pH	8.11		pH Units	"	BDJ0287	10/22/20	10/22/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **10/20/20 15:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.188	0.0100	mmhos/cm	1	BDJ0288	10/22/20	10/22/20	EPA 120.1	

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Project: RSU Anschutz Fed 4-62-2 SWNW
Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

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 BDJ0298 - EPA 5030 Soil MS

Blank (BDJ0298-BLK1)

Prepared: 10/22/20 Analyzed: 10/24/20

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	0.0367		"	0.0400		91.6	23-173			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		95.9	21-167			

LCS (BDJ0298-BS1)

Prepared: 10/22/20 Analyzed: 10/24/20

Benzene	0.0661	0.0020	mg/kg	0.0750		88.1	70-130			
Toluene	0.0666	0.0050	"	0.0750		88.8	70-130			
Ethylbenzene	0.0826	0.0050	"	0.0750		110	70-130			
m,p-Xylene	0.154	0.010	"	0.150		103	70-130			
o-Xylene	0.0785	0.0050	"	0.0750		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0279		"	0.0400		69.8	23-173			
Surrogate: Toluene-d8	0.0380		"	0.0400		95.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.2	21-167			

Matrix Spike (BDJ0298-MS1)

Source: 2010271-01

Prepared: 10/22/20 Analyzed: 10/24/20

Benzene	0.0673	0.0020	mg/kg	0.0750	ND	89.7	70-130			
Toluene	0.0662	0.0050	"	0.0750	ND	88.3	70-130			
Ethylbenzene	0.0811	0.0050	"	0.0750	ND	108	70-130			
m,p-Xylene	0.151	0.010	"	0.150	ND	101	70-130			
o-Xylene	0.0787	0.0050	"	0.0750	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0310		"	0.0400		77.6	23-173			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		95.9	21-167			

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4600 West 60th Avenue
Arvada CO, 80003

Project: RSU Anschutz Fed 4-62-2 SWNW

Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BDJ0298 - EPA 5030 Soil MS

Matrix Spike Dup (BDJ0298-MSD1)	Source: 2010271-01			Prepared: 10/22/20 Analyzed: 10/24/20						
Benzene	0.0721	0.0020	mg/kg	0.0750	ND	96.2	70-130	6.97	30	
Toluene	0.0706	0.0050	"	0.0750	ND	94.2	70-130	6.45	30	
Ethylbenzene	0.0883	0.0050	"	0.0750	ND	118	70-130	8.50	30	
m,p-Xylene	0.164	0.010	"	0.150	ND	109	70-130	8.06	30	
o-Xylene	0.0847	0.0050	"	0.0750	ND	113	70-130	7.38	30	
Surrogate: 1,2-Dichloroethane-d4	0.0312		"	0.0400		77.9	23-173			
Surrogate: Toluene-d8	0.0384		"	0.0400		96.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0374		"	0.0400		93.4	21-167			

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Project: RSU Anschutz Fed 4-62-2 SWNW

Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BDJ0299 - EPA 3550A

Blank (BDJ0299-BLK1)

Prepared: 10/22/20 Analyzed: 10/24/20

C10-C28 (DRO) ND 50 mg/kg

LCS (BDJ0299-BS1)

Prepared: 10/22/20 Analyzed: 10/24/20

C10-C28 (DRO) 581 50 mg/kg 500 116 70-130

Matrix Spike (BDJ0299-MS1)

Source: 2010271-01

Prepared: 10/22/20 Analyzed: 10/24/20

C10-C28 (DRO) 585 50 mg/kg 500 32.5 110 70-130

Matrix Spike Dup (BDJ0299-MSD1)

Source: 2010271-01

Prepared: 10/22/20 Analyzed: 10/24/20

C10-C28 (DRO) 541 50 mg/kg 500 32.5 102 70-130 7.72 20

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Project: RSU Anschutz Fed 4-62-2 SWNW

Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

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 BDJ0320 - General Preparation

Blank (BDJ0320-BLK1)

Prepared: 10/23/20 Analyzed: 10/27/20

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

LCS (BDJ0320-BS1)

Prepared: 10/23/20 Analyzed: 10/27/20

Calcium	523	10.0	mg/kg wet	500	105	70-130
Magnesium	507	5.00	"	500	101	70-130
Sodium	492	5.00	"	500	98.3	70-130

Duplicate (BDJ0320-DUP1)

Source: 2010271-01

Prepared: 10/23/20 Analyzed: 10/27/20

Calcium	820	10.3	mg/kg dry	779	5.14	20
Magnesium	201	5.16	"	217	7.43	20
Sodium	55.7	5.16	"	65.1	15.6	20

Matrix Spike (BDJ0320-MS1)

Source: 2010271-01

Prepared: 10/23/20 Analyzed: 10/27/20

Calcium	1390	10.3	mg/kg dry	516	779	119	70-130
Magnesium	736	5.16	"	516	217	101	70-130
Sodium	563	5.16	"	516	65.1	96.5	70-130

Matrix Spike Dup (BDJ0320-MSD1)

Source: 2010271-01

Prepared: 10/23/20 Analyzed: 10/27/20

Calcium	1320	10.3	mg/kg dry	516	779	105	70-130	5.01	25
Magnesium	689	5.16	"	516	217	91.4	70-130	6.70	25
Sodium	544	5.16	"	516	65.1	92.8	70-130	3.38	25

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Project: RSU Anschutz Fed 4-62-2 SWNW

Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

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 BDJ0286 - General Preparation

Duplicate (BDJ0286-DUP1)

Source: 2010259-01

Prepared & Analyzed: 10/22/20

% Solids	95.4		%		95.3			0.105	20	
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Batch BDJ0287 - General Preparation

LCS (BDJ0287-BS1)

Prepared & Analyzed: 10/22/20

pH	9.50		pH Units	9.21	103	95-105				
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Duplicate (BDJ0287-DUP1)

Source: 2010259-01

Prepared & Analyzed: 10/22/20

pH	8.02		pH Units		8.01			0.125	20	
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: RSU Anschutz Fed 4-62-2 SWNW
Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

Specific Conductance by EPA Method 120.1 - Quality Control
Summit Scientific

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

Batch BDJ0288 - General Preparation

Blank (BDJ0288-BLK1)

Prepared & Analyzed: 10/22/20

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BDJ0288-BS1)

Prepared & Analyzed: 10/22/20

Specific Conductance (EC) 0.801 0.0100 mmhos/cm 0.750 107 90-110

Duplicate (BDJ0288-DUP1)

Source: 2010259-01

Prepared & Analyzed: 10/22/20

Specific Conductance (EC) 5.37 0.0100 mmhos/cm 5.38 0.186 20

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Project: RSU Anschutz Fed 4-62-2 SWNW

Project Number: 027320020
Project Manager: Jeremy Pike

Reported:
10/28/20 14:14

Notes and Definitions

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