

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 10, 2020

Jeremy Pike

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: AEF 4-62-28 NWNW

Work Order #2008011

Enclosed are the results of analyses for samples received by Summit Scientific on 08/03/20 11:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury

President



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

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@0-6"	2008011-01	Soil	07/31/20 11:46	08/03/20 11:40
SS03@0-6"	2008011-02	Soil	07/31/20 11:45	08/03/20 11:40
SS07@0-6"	2008011-03	Soil	07/31/20 11:35	08/03/20 11:40
SS08@0-6"	2008011-04	Soil	07/31/20 11:26	08/03/20 11:40
SS08@18-24"	2008011-05	Soil	07/31/20 11:30	08/03/20 11:40
SS09@0-6"	2008011-06	Soil	07/31/20 11:16	08/03/20 11:40
SS09@18-24"	2008011-07	Soil	07/31/20 11:19	08/03/20 11:40
SS10@0-6"	2008011-08	Soil	07/31/20 10:55	08/03/20 11:40
SS10@18-24"	2008011-09	Soil	07/31/20 11:00	08/03/20 11:40
SS11@0-6"	2008011-10	Soil	07/31/20 11:09	08/03/20 11:40
SS11@18-24"	2008011-11	Soil	07/31/20 11:13	08/03/20 11:40

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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.

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S₂

2008011.1

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

Page 1 of 2

Client: LT Environmental, Inc.

Project Manager: Jeremy Pike

Address: 4600 West 60th Avenue

E-Mail: jpike@ltenv.com

City/State/Zip: Arvada, Colorado 80003

Phone: 303-433-9788

Project Name: AEF 4-62-28 NWNW

Sampler Name: Drew Bullinger

Project Number: 027319042

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEX (8260)	TPH-DRO/ORO	EC	pH	SAR		
1	SS01@0-6"	7/31/2020	11:46										x	x	x	x	x		
2	SS03@0-6"	7/31/2020	11:45										x	x					No inorganic analysis
3	SS07@0-6"	7/31/2020	11:35										x	x	x	x	x		
4	SS08@0-6"	7/31/2020	11:26										x	x	x	x	x		
5	SS08@18-24"	7/31/2020	11:30										x	x	x	x	x		
6	SS09@0-6"	7/31/2020	11:16										x	x	x	x	x		
7	SS09@18-24"	7/31/2020	11:19										x	x	x	x	x		
8	SS10@0-6"	7/31/2020	10:55										x	x	x	x	x		
9	SS10@18-24"	7/31/2020	11:00										x	x	x	x	x		
10	SS11@0-6"	7/31/2020	11:09										x	x	x	x	x		
Relinquished by: Madison Shoemaker			Date/Time: 08/03/2020 1140		Received by:			Date/Time: 08/03/2020 1140		Turn Around Time (Check) Same Day ___ 72 hours ___ 24 hours ___ Standard_x ___ 48 hours ___						Sample Integrity: Temperature Upon Receipt: 31.4 Samples Intact: <input checked="" type="radio"/> Yes No <input type="radio"/>			
Relinquished by:			Date/Time:		Received by:			Date/Time:											
Relinquished by:			Date/Time:		Received by:			Date/Time:											

Summit Scientific

S₂

2008011.2

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

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: AEF 4-62-28 NWNW
Sampler Name: Drew Bullinger	Project Number: 027319042

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEX (8260)	TPH-DRO/ORO	EC	pH	SAR			
1	SS11@18-24"	7/31/2020	11:13	1			x			x				x	x	x	x	x		
2	BG01@0-6"	7/31/2020	11:55	1			x			x										HOLD
3	BG01@18-24"	7/31/2020	12:03	1			x			x										HOLD
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: <i>Madison Shoemaker</i>	Date/Time: <i>08/03/2020 1140</i>	Received by: <i>[Signature]</i>	Date/Time: <i>08/03/2020 1140</i>	Turn Around Time (Check) Same Day ___ 72 hours ___ 24 hours ___ Standard ___ x 48 hours ___ Sample Integrity: Temperature Upon Receipt: <i>3.4</i> Samples Intact: <input checked="" type="radio"/> Yes No
Relinquished by:	Date/Time:	Received by:	Date/Time:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	

Sample Receipt Checklist

S2 Work Order 2008011

Client: Environmental Client Project ID: AEF 4-62-28 NWSNW

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

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

Temp (°C)	<u>3.4</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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? 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 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

[Signature]
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

03/03/2000
Date/Time



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

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS01@0-6"
2008011-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/31/20 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2008031	08/05/20	08/06/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/31/20 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/31/20 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2008029	08/05/20	08/06/20	EPA 8015M	

Date Sampled: **07/31/20 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.4 %	30-150		"	"	"	"	

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

Date Sampled: **07/31/20 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	406	10.5	mg/kg dry	1	2008021	08/04/20	08/04/20	EPA 6020B	
Magnesium	218	5.23	"	"	"	"	"	"	

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4600 West 60th Avenue
Arvada CO, 80003

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS01@0-6"
2008011-01 (Soil)

Summit Scientific

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

Sodium	129	5.23	mg/kg dry	1	2008021	08/04/20	08/04/20	EPA 6020B
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Calculated Analysis

Date Sampled: **07/31/20 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.28	0.100	units	1	2008057	08/06/20	08/06/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/31/20 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	2008022	08/05/20	08/05/20	Calculation	
pH	8.88		pH Units	"	2008023	08/05/20	08/05/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **07/31/20 11:46**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.358	0.0100	mmhos/cm	1	2008024	08/05/20	08/05/20	EPA 120.1	

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4600 West 60th Avenue
Arvada CO, 80003

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS03@0-6''
2008011-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/31/20 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2008031	08/05/20	08/06/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **07/31/20 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		102 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/31/20 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2008029	08/05/20	08/06/20	EPA 8015M	

Date Sampled: **07/31/20 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		101 %		30-150		"	"	"	"	

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

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS07@0-6''
2008011-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/31/20 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2008031	08/05/20	08/06/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	14	0.50	"	"	"	"	"	"	

Date Sampled: **07/31/20 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		101 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		134 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/31/20 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	1100	50	mg/kg	1	2008029	08/05/20	08/06/20	EPA 8015M	

Date Sampled: **07/31/20 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		107 %	30-150		"	"	"	"	

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

Date Sampled: **07/31/20 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	3010	11.4	mg/kg dry	1	2008021	08/04/20	08/04/20	EPA 6020B	
Magnesium	364	5.70	"	"	"	"	"	"	
Sodium	54.6	5.70	"	"	"	"	"	"	

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4600 West 60th Avenue
Arvada CO, 80003

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS07@0-6''
2008011-03 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **07/31/20 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.250	0.100	units	1	2008057	08/06/20	08/06/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/31/20 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	2008022	08/05/20	08/05/20	Calculation	
pH	8.73		pH Units	"	2008023	08/05/20	08/05/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **07/31/20 11:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.365	0.0100	mmhos/cm	1	2008024	08/05/20	08/05/20	EPA 120.1	

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4600 West 60th Avenue
Arvada CO, 80003

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS08@0-6''
2008011-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/31/20 11:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2008031	08/05/20	08/06/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **07/31/20 11:26**

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		98.5 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/31/20 11:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2008029	08/05/20	08/06/20	EPA 8015M	

Date Sampled: **07/31/20 11:26**

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

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

Date Sampled: **07/31/20 11:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	2530	10.8		mg/kg dry	1	2008021	08/04/20	08/04/20	EPA 6020B	
Magnesium	255	5.42		"	"	"	"	"	"	
Sodium	74.9	5.42		"	"	"	"	"	"	

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Project: AEF 4-62-28 NWNW

Project Number: 027319042
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 08/10/20 12:22

SS08@0-6''
2008011-04 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **07/31/20 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.380	0.100	units	1	2008057	08/06/20	08/06/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/31/20 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.2		%	1	2008022	08/05/20	08/05/20	Calculation	
pH	8.66		pH Units	"	2008023	08/05/20	08/05/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **07/31/20 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.282	0.0100	mmhos/cm	1	2008024	08/05/20	08/05/20	EPA 120.1	

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4600 West 60th Avenue
Arvada CO, 80003

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS08@18-24"
2008011-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/31/20 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2008031	08/05/20	08/06/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/31/20 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/31/20 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2008029	08/05/20	08/06/20	EPA 8015M	

Date Sampled: **07/31/20 11:30**

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: **07/31/20 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1990	10.8	mg/kg dry	1	2008021	08/04/20	08/04/20	EPA 6020B	
Magnesium	168	5.38	"	"	"	"	"	"	
Sodium	92.9	5.38	"	"	"	"	"	"	

Summit Scientific

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

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS08@18-24"
2008011-05 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **07/31/20 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.537	0.100	units	1	2008057	08/06/20	08/06/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/31/20 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0		%	1	2008022	08/05/20	08/05/20	Calculation	
pH	8.70		pH Units	"	2008023	08/05/20	08/05/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **07/31/20 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.326	0.0100	mmhos/cm	1	2008024	08/05/20	08/05/20	EPA 120.1	

Summit Scientific

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

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS09@0-6''
2008011-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/31/20 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2008031	08/05/20	08/06/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/31/20 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		98.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/31/20 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2008029	08/05/20	08/06/20	EPA 8015M	

Date Sampled: **07/31/20 11:16**

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

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

Date Sampled: **07/31/20 11:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1790	11.2	mg/kg dry	1	2008021	08/04/20	08/04/20	EPA 6020B	
Magnesium	187	5.61	"	"	"	"	"	"	
Sodium	65.1	5.61	"	"	"	"	"	"	

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

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS09@0-6''
2008011-06 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **07/31/20 11:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.391	0.100	units	1	2008057	08/06/20	08/06/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/31/20 11:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.1		%	1	2008022	08/05/20	08/05/20	Calculation	
pH	8.72		pH Units	"	2008023	08/05/20	08/05/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **07/31/20 11:16**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.678	0.0100	mmhos/cm	1	2008024	08/05/20	08/05/20	EPA 120.1	

Summit Scientific

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

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS09@18-24"
2008011-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/31/20 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2008031	08/05/20	08/06/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/31/20 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/31/20 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2008029	08/05/20	08/06/20	EPA 8015M	

Date Sampled: **07/31/20 11:19**

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: **07/31/20 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	624	10.7	mg/kg dry	1	2008021	08/04/20	08/04/20	EPA 6020B	
Magnesium	142	5.34	"	"	"	"	"	"	
Sodium	47.0	5.34	"	"	"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
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Project: AEF 4-62-28 NWNW

Project Number: 027319042
 Project Manager: Jeremy Pike

Reported:
 08/10/20 12:22

SS09@18-24"
2008011-07 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **07/31/20 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.442	0.100	units	1	2008057	08/06/20	08/06/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/31/20 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.7		%	1	2008022	08/05/20	08/05/20	Calculation	
pH	8.13		pH Units	"	2008023	08/05/20	08/05/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **07/31/20 11:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.576	0.0100	mmhos/cm	1	2008024	08/05/20	08/05/20	EPA 120.1	

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

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS10@0-6''
2008011-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/31/20 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2008031	08/05/20	08/06/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/31/20 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/31/20 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2008029	08/05/20	08/06/20	EPA 8015M	

Date Sampled: **07/31/20 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.7 %	30-150		"	"	"	"	

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

Date Sampled: **07/31/20 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	656	10.3	mg/kg dry	1	2008021	08/04/20	08/04/20	EPA 6020B	
Magnesium	132	5.15	"	"	"	"	"	"	
Sodium	99.3	5.15	"	"	"	"	"	"	

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Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS10@0-6''
2008011-08 (Soil)

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

Calculated Analysis

Date Sampled: **07/31/20 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.925	0.100	units	1	2008057	08/06/20	08/06/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/31/20 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.0		%	1	2008022	08/05/20	08/05/20	Calculation	
pH	8.39		pH Units	"	2008023	08/05/20	08/05/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **07/31/20 10:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.28	0.0100	mmhos/cm	1	2008024	08/05/20	08/05/20	EPA 120.1	

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

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS10@18-24"
2008011-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/31/20 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	2008031	08/05/20	08/06/20	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **07/31/20 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/31/20 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	2008029	08/05/20	08/06/20	EPA 8015M	

Date Sampled: **07/31/20 11:00**

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: **07/31/20 11:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	268	10.4		mg/kg dry	1	2008021	08/04/20	08/04/20	EPA 6020B	
Magnesium	89.2	5.22		"	"	"	"	"	"	
Sodium	54.9	5.22		"	"	"	"	"	"	

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 4600 West 60th Avenue
 Arvada CO, 80003

Project: AEF 4-62-28 NWNW

Project Number: 027319042
 Project Manager: Jeremy Pike

Reported:
 08/10/20 12:22

SS10@18-24"
2008011-09 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **07/31/20 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.742	0.100	units	1	2008057	08/06/20	08/06/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/31/20 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.7		%	1	2008022	08/05/20	08/05/20	Calculation	
pH	7.43		pH Units	"	2008023	08/05/20	08/05/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **07/31/20 11:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.10	0.0100	mmhos/cm	1	2008024	08/05/20	08/05/20	EPA 120.1	

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

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS11@0-6"
2008011-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/31/20 11:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2008031	08/05/20	08/06/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/31/20 11:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.7 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/31/20 11:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2008029	08/05/20	08/06/20	EPA 8015M	

Date Sampled: **07/31/20 11:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

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

Date Sampled: **07/31/20 11:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1300	10.6	mg/kg dry	1	2008021	08/04/20	08/04/20	EPA 6020B	
Magnesium	216	5.28	"	"	"	"	"	"	
Sodium	69.3	5.28	"	"	"	"	"	"	

Summit Scientific

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4600 West 60th Avenue
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Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS11@0-6"
2008011-10 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **07/31/20 11:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.469	0.100	units	1	2008057	08/06/20	08/06/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/31/20 11:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.7		%	1	2008022	08/05/20	08/05/20	Calculation	
pH	8.89		pH Units	"	2008023	08/05/20	08/05/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **07/31/20 11:09**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.302	0.0100	mmhos/cm	1	2008024	08/05/20	08/05/20	EPA 120.1	

Summit Scientific

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

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS11@18-24"
2008011-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/31/20 11:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2008031	08/05/20	08/06/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/31/20 11:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		114 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		105 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/31/20 11:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2008029	08/05/20	08/06/20	EPA 8015M	

Date Sampled: **07/31/20 11:13**

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

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

Date Sampled: **07/31/20 11:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	2250	11.0	mg/kg dry	1	2008021	08/04/20	08/04/20	EPA 6020B	
Magnesium	236	5.51	"	"	"	"	"	"	
Sodium	43.6	5.51	"	"	"	"	"	"	

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

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

SS11@18-24"
2008011-11 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **07/31/20 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.234	0.100	units	1	2008057	08/06/20	08/06/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/31/20 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.7		%	1	2008022	08/05/20	08/05/20	Calculation	
pH	8.75		pH Units	"	2008023	08/05/20	08/05/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **07/31/20 11:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.391	0.0100	mmhos/cm	1	2008024	08/05/20	08/05/20	EPA 120.1	

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

Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

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 2008031 - EPA 5030 Soil MS

Blank (2008031-BLK1)

Prepared & Analyzed: 08/05/20

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	0.0402		"	0.0400		100	23-173			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	21-167			

LCS (2008031-BS1)

Prepared & Analyzed: 08/05/20

Benzene	0.144	0.0020	mg/kg	0.150		96.0	70-130			
Toluene	0.133	0.0050	"	0.150		88.8	70-130			
Ethylbenzene	0.154	0.0050	"	0.150		103	70-130			
m,p-Xylene	0.264	0.010	"	0.300		88.2	70-130			
o-Xylene	0.130	0.0050	"	0.150		86.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0405		"	0.0400		101	23-173			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		102	21-167			

Matrix Spike (2008031-MS1)

Source: 2007292-03

Prepared & Analyzed: 08/05/20

Benzene	0.124	0.0020	mg/kg	0.150	ND	82.5	70-130			
Toluene	0.113	0.0050	"	0.150	ND	75.3	70-130			
Ethylbenzene	0.126	0.0050	"	0.150	ND	84.1	70-130			
m,p-Xylene	0.214	0.010	"	0.300	ND	71.2	70-130			
o-Xylene	0.106	0.0050	"	0.150	ND	70.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0411		"	0.0400		103	23-173			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	21-167			

Summit Scientific

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 Arvada CO, 80003

Project: AEF 4-62-28 NWNW

Project Number: 027319042
 Project Manager: Jeremy Pike

Reported:
 08/10/20 12:22

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

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

Batch 2008031 - EPA 5030 Soil MS

Matrix Spike Dup (2008031-MSD1)	Source: 2007292-03			Prepared & Analyzed: 08/05/20						
Benzene	0.119	0.0020	mg/kg	0.150	ND	79.6	70-130	3.55	30	
Toluene	0.109	0.0050	"	0.150	ND	72.5	70-130	3.82	30	
Ethylbenzene	0.121	0.0050	"	0.150	ND	80.9	70-130	3.83	30	
m,p-Xylene	0.267	0.010	"	0.300	ND	89.2	70-130	22.3	30	
o-Xylene	0.132	0.0050	"	0.150	ND	87.8	70-130	21.7	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0416</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>21-167</i>			

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Project: AEF 4-62-28 NWNW

Project Number: 027319042
 Project Manager: Jeremy Pike

Reported:
 08/10/20 12:22

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 2008029 - EPA 3550A

Blank (2008029-BLK1)

Prepared & Analyzed: 08/05/20

C10-C28 (DRO) ND 50 mg/kg

LCS (2008029-BS1)

Prepared & Analyzed: 08/05/20

C10-C28 (DRO) 477 50 mg/kg 500 95.4 70-130

Matrix Spike (2008029-MS1)

Source: 2008011-01

Prepared: 08/05/20 Analyzed: 08/06/20

C10-C28 (DRO) 467 50 mg/kg 500 33.3 86.8 70-130

Matrix Spike Dup (2008029-MSD1)

Source: 2008011-01

Prepared: 08/05/20 Analyzed: 08/06/20

C10-C28 (DRO) 465 50 mg/kg 500 33.3 86.4 70-130 0.409 20

Summit Scientific

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LT Environmental, Inc.
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Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

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

Summit Scientific

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

Batch 2008021 - General Preparation

Blank (2008021-BLK1)

Prepared & Analyzed: 08/04/20

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

LCS (2008021-BS1)

Prepared & Analyzed: 08/04/20

Calcium	562	10.0	mg/kg wet	500		112	70-130			
Magnesium	620	5.00	"	500		124	70-130			
Sodium	586	5.00	"	500		117	70-130			

Duplicate (2008021-DUP1)

Source: 2007322-01

Prepared & Analyzed: 08/04/20

Calcium	3570	11.7	mg/kg dry		3160			12.3	20	
Magnesium	798	5.85	"		738			7.74	20	
Sodium	140	5.85	"		153			9.18	20	

Matrix Spike (2008021-MS1)

Source: 2007322-01

Prepared & Analyzed: 08/04/20

Calcium	3870	11.7	mg/kg dry	585	3160	121	70-130			
Magnesium	1200	5.85	"	585	738	79.6	70-130			
Sodium	684	5.85	"	585	153	90.7	70-130			

Matrix Spike Dup (2008021-MSD1)

Source: 2007322-01

Prepared & Analyzed: 08/04/20

Calcium	3870	11.7	mg/kg dry	585	3160	122	70-130	0.166	25	
Magnesium	1280	5.85	"	585	738	93.4	70-130	6.50	25	
Sodium	714	5.85	"	585	153	95.9	70-130	4.37	25	

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
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Project: AEF 4-62-28 NWNW

Project Number: 027319042
 Project Manager: Jeremy Pike

Reported:
 08/10/20 12:22

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch 2008022 - General Preparation

Duplicate (2008022-DUP1)		Source: 2007322-01			Prepared & Analyzed: 08/05/20					
% Solids	85.3		%		85.5			0.230	20	

Batch 2008023 - General Preparation

LCS (2008023-BS1)		Prepared & Analyzed: 08/05/20								
pH	9.20		pH Units	9.18		100	95-105			
Duplicate (2008023-DUP1)		Source: 2007323-01			Prepared & Analyzed: 08/05/20					
pH	8.08		pH Units	8.11			0.371	20		

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

Project: AEF 4-62-28 NWNW

Project Number: 027319042
 Project Manager: Jeremy Pike

Reported:
 08/10/20 12:22

Specific Conductance by EPA Method 120.1 - Quality Control
Summit Scientific

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

Batch 2008024 - General Preparation

Blank (2008024-BLK1)

Prepared & Analyzed: 08/05/20

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (2008024-BS1)

Prepared & Analyzed: 08/05/20

Specific Conductance (EC) 0.784 0.0100 mmhos/cm 0.750 105 90-110

Duplicate (2008024-DUP1)

Source: 2007323-01

Prepared & Analyzed: 08/05/20

Specific Conductance (EC) 1.29 0.0100 mmhos/cm 1.29 0.310 20

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LT Environmental, Inc.
4600 West 60th Avenue
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Project: AEF 4-62-28 NWNW

Project Number: 027319042
Project Manager: Jeremy Pike

Reported:
08/10/20 12:22

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