

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 19, 2020

Jeremy Pike

LT Environmental, Inc.

4600 West 60th Avenue

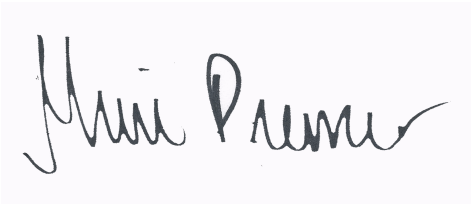
Arvada, CO 80003

RE: Colorado Energy Federal

Work Order #2006035

Enclosed are the results of analyses for samples received by Summit Scientific on 06/03/20 10:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury
President



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

Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@3'	2006035-01	Soil	06/02/20 14:07	06/03/20 10:30
SS02@6'	2006035-02	Soil	06/02/20 14:19	06/03/20 10:30
SS03@2'	2006035-03	Soil	06/02/20 14:32	06/03/20 10:30
SS04@3'	2006035-04	Soil	06/02/20 14:38	06/03/20 10:30
SS05@4'	2006035-05	Soil	06/02/20 14:58	06/03/20 10:30
SS06@7'	2006035-06	Soil	06/02/20 14:48	06/03/20 10:30
PB01@0-18"	2006035-07	Soil	06/02/20 12:45	06/03/20 10:30
PB02@0-18"	2006035-08	Soil	06/02/20 12:51	06/03/20 10:30
PB03@0-18"	2006035-09	Soil	06/02/20 13:01	06/03/20 10:30
PB04@0-18"	2006035-10	Soil	06/02/20 13:08	06/03/20 10:30
PB05@0-18"	2006035-11	Soil	06/02/20 13:16	06/03/20 10:30
PB06@0-18"	2006035-12	Soil	06/02/20 13:24	06/03/20 10:30
BG01	2006035-13	Soil	06/02/20 12:37	06/03/20 10:30
BG02	2006035-14	Soil	06/02/20 12:21	06/03/20 10:30
BG03	2006035-15	Soil	06/02/20 12:28	06/03/20 10:30

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S₂

2006035.1

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

Page 1 of 2

Client: LT Environmental

Project Manager: jeremy pike

Address: 4600 W 60th Ave

E-Mail: jpike@ltenv.com

City/State/Zip: Arvada, CO 80003

Phone: 303-433-9788

Project Name: colorado energy federal

Sampler Name: drew bullinger

Project Number: 027320009

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	TPH-DRO	EC	pH	SAR			
1	SS01 @ 3'	6/2/20	14:07	1			X			X				X	X					
2	SS02 @ 6'	6/2/20	14:19	1			X			X				X	X	X	X	X		
3	SS03 @ 2'	6/2/20	14:32	1			X			X				X	X					
4	SS04 @ 3'	6/2/20	14:38	1			X			X				X	X	X	X			
5	SS05 @ 4'	6/2/20	14:58	1			X			X				X	X					
6	SS06 @ 7'	6/2/20	14:48	1			X			X				X	X	X	X			
7																				
8																				
9																				
10																				

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes:
<i>Drew Bullinger</i>	6/3/20 10:30	<i>Michael A. S.</i>	6/3/20 10:30	Same Day	72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours	Standard	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours	X	
				Sample Integrity:		
				Temperature Upon Receipt:	12.9	
				Samples Intact:	Yes No	

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2006035.2

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

Page 2 of 2

Client: LT Environmental

Project Manager: jeremy pike

Address: 4600 W 60th Ave

E-Mail: jpika@ltenv.com

City/State/Zip: Arvada, CO 80003

Phone: 303-433-9788

Project Name: colorado energy federal

Sampler Name: drew bullinger

Project Number: 027320009

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEX	TPH-DRO	EC	pH	SAR				
1	PB 01 @ 0-18"	6/2/20	12:45	1			X			X					X	X	X				
2	PB 02 @ 0-18"	6/2/20	12:51	1			X			X					X	X	X				
3	PB 03 @ 0-18"	6/2/20	13:01	1			X			X					X	X	X				
4	PB 04 @ 0-18"	6/2/20	13:08	1			X			X					X	X	X				
5	PB 05 @ 0-18"	6/2/20	13:16	1			X			X					X	X	X				
6	PB 06 @ 0-18"	6/2/20	13:24	1			X			X					X	X	X				
7	Bg 01	6/2/20	12:37	1			X			X					X	X	X				Hold
8	Bg 02	6/2/20	12:21	1			X			X					X	X	X				Hold
9	Bg 03	6/2/20	12:28	1			X			X					X	X	X				Hold
10																					

Relinquished by: <i>Drew Bullinger</i>	Date/Time: 6/3/20 10:30	Received by: <i>[Signature]</i>	Date/Time: 6/3/20 10:30	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: <u>12.9</u> 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 **2006035**Client: Lt Environmental Client Project ID: Colorado EnergyShipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____Matrix (check all that apply): Air X Soil/Solid ~~B~~ Water Other: _____
(Describe)

Temp (°C)	12.9
-----------	------

Thermometer ID: 61857155-K

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

mc
Custodian Printed Name or Initialsmc
Signature of Custodian6/3/20
Date/Time



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

Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

SS01@3'
2006035-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/20 14:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	2006085	06/05/20	06/08/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/20 14:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		99.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/20 14:07**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	2006084	06/05/20	06/05/20	EPA 8015M	

Date Sampled: **06/02/20 14:07**

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

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

Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

SS02@6'
2006035-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/20 14:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006085	06/05/20	06/08/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/20 14:19**

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		97.6 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/20 14:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006084	06/05/20	06/05/20	EPA 8015M	

Date Sampled: **06/02/20 14:19**

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

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

Date Sampled: **06/02/20 14:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3450	13.4	mg/kg dry	1	2006097	06/05/20	06/05/20	EPA 6020B	
Magnesium	487	6.69	"	"	"	"	"	"	
Sodium	1590	6.69	"	"	"	"	"	"	

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Reported:
06/19/20 09:40

SS02@6'
2006035-02 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **06/02/20 14:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.71	0.100	units	1	2006111	06/08/20	06/08/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/20 14:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	74.8		%	1	2006062	06/04/20	06/04/20	Calculation	
pH	9.02		pH Units	"	2006063	06/04/20	06/04/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **06/02/20 14:19**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.08	0.0100	mmhos/cm	1	2006064	06/04/20	06/04/20	EPA 120.1	

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

Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

SS03@2'
2006035-03 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/20 14:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	2006085	06/05/20	06/09/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/20 14:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		98.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/20 14:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	2006084	06/05/20	06/05/20	EPA 8015M	

Date Sampled: **06/02/20 14:32**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

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4600 West 60th Avenue
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Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

SS04@3'
2006035-04 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/20 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2006085	06/05/20	06/09/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/20 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/20 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2006084	06/05/20	06/05/20	EPA 8015M	

Date Sampled: **06/02/20 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

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

Date Sampled: **06/02/20 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14400	15.9	mg/kg dry	1	2006097	06/05/20	06/05/20	EPA 6020B	
Magnesium	2290	7.95	"	"	"	"	"	"	
Sodium	5760	7.95	"	"	"	"	"	"	

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SS04@3'
2006035-04 (Soil)

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

Calculated Analysis

Date Sampled: **06/02/20 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	11.8	0.100	units	1	2006111	06/08/20	06/08/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/20 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	62.9		%	1	2006062	06/04/20	06/04/20	Calculation	
pH	7.93		pH Units	"	2006063	06/04/20	06/04/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **06/02/20 14:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.28	0.0100	mmhos/cm	1	2006064	06/04/20	06/04/20	EPA 120.1	

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4600 West 60th Avenue
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Project: Colorado Energy Federal
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Reported:
06/19/20 09:40

SS05@4'
2006035-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/20 14:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	2006085	06/05/20	06/09/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/20 14:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		93.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/20 14:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	2006084	06/05/20	06/05/20	EPA 8015M	

Date Sampled: **06/02/20 14:58**

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

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4600 West 60th Avenue
Arvada CO, 80003

Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

SS06@7'
2006035-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/02/20 14:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	2006085	06/05/20	06/09/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **06/02/20 14:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		98.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/02/20 14:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	2006084	06/05/20	06/05/20	EPA 8015M	

Date Sampled: **06/02/20 14:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

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

Date Sampled: **06/02/20 14:48**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	18100	18.8	mg/kg dry	1	2006097	06/05/20	06/05/20	EPA 6020B	
Magnesium	1580	9.42	"	"	"	"	"	"	
Sodium	10600	9.42	"	"	"	"	"	"	

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4600 West 60th Avenue
Arvada CO, 80003

Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

SS06@7'
2006035-06 (Soil)

Summit Scientific

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

Calculated Analysis

Date Sampled: **06/02/20 14:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	20.3	0.100	units	1	2006111	06/08/20	06/08/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/20 14:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	53.1		%	1	2006062	06/04/20	06/04/20	Calculation	
pH	9.02		pH Units	"	2006063	06/04/20	06/04/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **06/02/20 14:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.27	0.0100	mmhos/cm	1	2006064	06/04/20	06/04/20	EPA 120.1	

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Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

PB01@0-18"
2006035-07 (Soil)

Summit Scientific

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

Date Sampled: **06/02/20 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	2030	11.7	mg/kg dry	1	2006097	06/05/20	06/05/20	EPA 6020B	
Magnesium	254	5.84	"	"	"	"	"	"	
Sodium	452	5.84	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/02/20 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.52	0.100	units	1	2006111	06/08/20	06/08/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/20 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	85.6		%	1	2006062	06/04/20	06/04/20	Calculation	
pH	8.17		pH Units	"	2006063	06/04/20	06/04/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **06/02/20 12:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.50	0.0100	mmhos/cm	1	2006064	06/04/20	06/04/20	EPA 120.1	

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Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

PB02@0-18"
2006035-08 (Soil)

Summit Scientific

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

Date Sampled: **06/02/20 12:51**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	4220	12.2	mg/kg dry	1	2006097	06/05/20	06/05/20	EPA 6020B	
Magnesium	340	6.12	"	"	"	"	"	"	
Sodium	1040	6.12	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/02/20 12:51**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	4.14	0.100	units	1	2006111	06/08/20	06/08/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/20 12:51**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	81.8		%	1	2006062	06/04/20	06/04/20	Calculation	
pH	7.62		pH Units	"	2006063	06/04/20	06/04/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **06/02/20 12:51**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	8.48	0.0100	mmhos/cm	1	2006064	06/04/20	06/04/20	EPA 120.1	

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Project: Colorado Energy Federal
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Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

PB03@0-18"
2006035-09 (Soil)

Summit Scientific

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

Date Sampled: **06/02/20 13:01**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1970	11.9	mg/kg dry	1	2006097	06/05/20	06/05/20	EPA 6020B	
Magnesium	179	5.94	"	"	"	"	"	"	
Sodium	272	5.94	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/02/20 13:01**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.57	0.100	units	1	2006111	06/08/20	06/08/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/20 13:01**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.2		%	1	2006062	06/04/20	06/04/20	Calculation	
pH	8.56		pH Units	"	2006063	06/04/20	06/04/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **06/02/20 13:01**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.874	0.0100	mmhos/cm	1	2006064	06/04/20	06/04/20	EPA 120.1	

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Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

PB04@0-18"
2006035-10 (Soil)

Summit Scientific

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

Date Sampled: **06/02/20 13:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1510	11.8	mg/kg dry	1	2006097	06/05/20	06/05/20	EPA 6020B	
Magnesium	256	5.91	"	"	"	"	"	"	
Sodium	607	5.91	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/02/20 13:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	3.80	0.100	units	1	2006111	06/08/20	06/08/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/20 13:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.6		%	1	2006062	06/04/20	06/04/20	Calculation	
pH	8.09		pH Units	"	2006063	06/04/20	06/04/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **06/02/20 13:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	2.11	0.0100	mmhos/cm	1	2006064	06/04/20	06/04/20	EPA 120.1	

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Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

PB05@0-18"
2006035-11 (Soil)

Summit Scientific

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

Date Sampled: **06/02/20 13:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	2760	12.4	mg/kg dry	1	2006097	06/05/20	06/05/20	EPA 6020B	
Magnesium	283	6.21	"	"	"	"	"	"	
Sodium	535	6.21	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/02/20 13:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.59	0.100	units	1	2006111	06/08/20	06/08/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/20 13:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	80.6		%	1	2006062	06/04/20	06/04/20	Calculation	
pH	8.58		pH Units	"	2006063	06/04/20	06/04/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **06/02/20 13:16**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.21	0.0100	mmhos/cm	1	2006064	06/04/20	06/04/20	EPA 120.1	

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Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

PB06@0-18"
2006035-12 (Soil)

Summit Scientific

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

Date Sampled: **06/02/20 13:24**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1920	12.8	mg/kg dry	1	2006097	06/05/20	06/05/20	EPA 6020B	
Magnesium	331	6.41	"	"	"	"	"	"	
Sodium	330	6.41	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/02/20 13:24**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.83	0.100	units	1	2006111	06/08/20	06/08/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/20 13:24**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	78.1		%	1	2006062	06/04/20	06/04/20	Calculation	
pH	8.10		pH Units	"	2006063	06/04/20	06/04/20	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **06/02/20 13:24**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.54	0.0100	mmhos/cm	1	2006064	06/04/20	06/04/20	EPA 120.1	

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Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

BG01
2006035-13 (Soil)

Summit Scientific

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

Date Sampled: **06/02/20 12:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	962	11.6	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B	
Magnesium	147	5.79	"	"	"	"	"	"	
Sodium	37.7	5.79	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/02/20 12:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.299	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/20 12:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.3		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	8.36		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

Specific Conductance by EPA Method 120.1

Date Sampled: **06/02/20 12:37**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.390	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

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Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

BG02
2006035-14 (Soil)

Summit Scientific

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

Date Sampled: **06/02/20 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	970	11.8	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B	
Magnesium	179	5.89	"	"	"	"	"	"	
Sodium	53.6	5.89	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/02/20 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.415	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/20 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.9		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	8.06		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

Specific Conductance by EPA Method 120.1

Date Sampled: **06/02/20 12:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.482	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

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Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

BG03
2006035-15 (Soil)

Summit Scientific

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

Date Sampled: **06/02/20 12:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	893	11.9	mg/kg dry	1	2006250	06/18/20	06/18/20	EPA 6020B	
Magnesium	148	5.94	"	"	"	"	"	"	
Sodium	66.1	5.94	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/02/20 12:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.540	0.100	units	1	2006283	06/19/20	06/19/20	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/02/20 12:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.2		%	1	2006230	06/17/20	06/17/20	Calculation	
pH	8.47		pH Units	"	2006231	06/17/20	06/17/20	EPA 9045D	I-02

Specific Conductance by EPA Method 120.1

Date Sampled: **06/02/20 12:28**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.440	0.0100	mmhos/cm	1	2006232	06/17/20	06/17/20	EPA 120.1	

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4600 West 60th Avenue
Arvada CO, 80003

Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

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 2006085 - EPA 5030 Soil MS

Blank (2006085-BLK1)

Prepared: 06/05/20 Analyzed: 06/09/20

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	0.0377		"	0.0400		94.2	23-173			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.5	21-167			

LCS (2006085-BS1)

Prepared: 06/05/20 Analyzed: 06/09/20

Benzene	0.0830	0.0020	mg/kg	0.100		83.0	70-130			
Toluene	0.0840	0.0050	"	0.100		84.0	70-130			
Ethylbenzene	0.0956	0.0050	"	0.100		95.6	70-130			
m,p-Xylene	0.197	0.010	"	0.200		98.7	70-130			
o-Xylene	0.0925	0.0050	"	0.100		92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0386		"	0.0400		96.6	23-173			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		101	21-167			

Matrix Spike (2006085-MS1)

Source: 2006021-01

Prepared: 06/05/20 Analyzed: 06/09/20

Benzene	0.0832	0.0020	mg/kg	0.100	ND	83.2	70-130			
Toluene	0.0835	0.0050	"	0.100	ND	83.5	70-130			
Ethylbenzene	0.0954	0.0050	"	0.100	ND	95.4	70-130			
m,p-Xylene	0.199	0.010	"	0.200	0.00387	97.5	70-130			
o-Xylene	0.0940	0.0050	"	0.100	ND	94.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0388		"	0.0400		97.0	23-173			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.7	20-170			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	21-167			

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

Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

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 2006085 - EPA 5030 Soil MS

Matrix Spike Dup (2006085-MSD1)		Source: 2006021-01			Prepared: 06/05/20 Analyzed: 06/09/20					
Benzene	0.0836	0.0020	mg/kg	0.100	ND	83.6	70-130	0.468	30	
Toluene	0.0855	0.0050	"	0.100	ND	85.5	70-130	2.38	30	
Ethylbenzene	0.0953	0.0050	"	0.100	ND	95.3	70-130	0.0629	30	
m,p-Xylene	0.200	0.010	"	0.200	0.00387	98.0	70-130	0.481	30	
o-Xylene	0.0937	0.0050	"	0.100	ND	93.7	70-130	0.352	30	
Surrogate: 1,2-Dichloroethane-d4	0.0392		"	0.0400		98.0	23-173			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	21-167			

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Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

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 2006084 - EPA 3550A

Blank (2006084-BLK1)

Prepared & Analyzed: 06/05/20

C10-C28 (DRO) ND 50 mg/kg

LCS (2006084-BS1)

Prepared & Analyzed: 06/05/20

C10-C28 (DRO) 553 50 mg/kg 500 111 70-130

Matrix Spike (2006084-MS1)

Source: 2006035-01

Prepared & Analyzed: 06/05/20

C10-C28 (DRO) 486 50 mg/kg 500 39.8 89.2 70-130

Matrix Spike Dup (2006084-MSD1)

Source: 2006035-01

Prepared & Analyzed: 06/05/20

C10-C28 (DRO) 531 50 mg/kg 500 39.8 98.3 70-130 8.88 20

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Arvada CO, 80003

Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

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 2006097 - General Preparation

Blank (2006097-BLK1)

Prepared & Analyzed: 06/05/20

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

LCS (2006097-BS1)

Prepared & Analyzed: 06/05/20

Calcium	533	10.0	mg/kg wet	500	107	70-130
Magnesium	627	5.00	"	500	125	70-130
Sodium	538	5.00	"	500	108	70-130

Duplicate (2006097-DUP1)

Source: 2006035-02

Prepared & Analyzed: 06/05/20

Calcium	3660	13.4	mg/kg dry	3450	6.00	20
Magnesium	486	6.69	"	487	0.173	20
Sodium	1620	6.69	"	1590	1.67	20

Matrix Spike (2006097-MS1)

Source: 2006035-02

Prepared & Analyzed: 06/05/20

Calcium	4030	13.4	mg/kg dry	669	3450	87.9	70-130
Magnesium	1070	6.69	"	669	487	86.4	70-130
Sodium	2260	6.69	"	669	1590	100	70-130

Matrix Spike Dup (2006097-MSD1)

Source: 2006035-02

Prepared & Analyzed: 06/05/20

Calcium	3980	13.4	mg/kg dry	669	3450	79.9	70-130	1.33	25
Magnesium	1000	6.69	"	669	487	77.4	70-130	5.83	25
Sodium	2240	6.69	"	669	1590	97.4	70-130	0.826	25

Batch 2006250 - General Preparation

Blank (2006250-BLK1)

Prepared & Analyzed: 06/18/20

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

Summit Scientific

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

Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

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 2006250 - General Preparation

LCS (2006250-BS1)

Prepared & Analyzed: 06/18/20

Calcium	489	10.0	mg/kg wet	500		97.8	70-130
Magnesium	567	5.00	"	500		113	70-130
Sodium	505	5.00	"	500		101	70-130

Duplicate (2006250-DUP1)

Source: 2006004-01

Prepared & Analyzed: 06/18/20

Calcium	1440	10.8	mg/kg dry		1380		3.97	20
Magnesium	359	5.38	"		352		2.01	20
Sodium	33.3	5.38	"		35.5		6.50	20

Matrix Spike (2006250-MS1)

Source: 2006004-01

Prepared & Analyzed: 06/18/20

Calcium	1830	10.8	mg/kg dry	538	1380	83.9	70-130
Magnesium	817	5.38	"	538	352	86.5	70-130
Sodium	574	5.38	"	538	35.5	100	70-130

Matrix Spike Dup (2006250-MSD1)

Source: 2006004-01

Prepared & Analyzed: 06/18/20

Calcium	1890	10.8	mg/kg dry	538	1380	95.4	70-130	3.32	25
Magnesium	850	5.38	"	538	352	92.6	70-130	3.96	25
Sodium	594	5.38	"	538	35.5	104	70-130	3.41	25

Summit Scientific

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Arvada CO, 80003

Project: Colorado Energy Federal
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Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

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 2006062 - General Preparation

Duplicate (2006062-DUP1)			Source: 2006035-02			Prepared & Analyzed: 06/04/20					
% Solids	75.0		%		74.8			0.273		20	

Batch 2006063 - General Preparation

LCS (2006063-BS1)			Prepared & Analyzed: 06/04/20								
pH	9.23		pH Units	9.18		101	95-105				
Duplicate (2006063-DUP1)			Source: 2006035-02			Prepared & Analyzed: 06/04/20					
pH	9.14		pH Units		9.02			1.32		20	

Batch 2006230 - General Preparation

Duplicate (2006230-DUP1)			Source: 2006004-01			Prepared & Analyzed: 06/17/20					
% Solids	93.2		%		92.9			0.342		20	

Batch 2006231 - General Preparation

LCS (2006231-BS1)			Prepared & Analyzed: 06/17/20								
pH	9.22		pH Units	9.18		100	95-105				
Duplicate (2006231-DUP1)			Source: 2006146-01			Prepared & Analyzed: 06/17/20					
pH	8.64		pH Units		8.60			0.464		20	

Summit Scientific



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Arvada CO, 80003

Project: Colorado Energy Federal
Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

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 2006064 - General Preparation

Blank (2006064-BLK1)

Prepared & Analyzed: 06/04/20

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (2006064-BS1)

Prepared & Analyzed: 06/04/20

Specific Conductance (EC) 0.748 0.0100 mmhos/cm 0.750 99.7 90-110

Duplicate (2006064-DUP1)

Source: 2006035-02

Prepared & Analyzed: 06/04/20

Specific Conductance (EC) 1.99 0.0100 mmhos/cm 2.08 4.30 20

Batch 2006232 - General Preparation

Blank (2006232-BLK1)

Prepared & Analyzed: 06/17/20

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (2006232-BS1)

Prepared & Analyzed: 06/17/20

Specific Conductance (EC) 0.754 0.0100 mmhos/cm 0.750 100 90-110

Duplicate (2006232-DUP1)

Source: 2006146-01

Prepared & Analyzed: 06/17/20

Specific Conductance (EC) 0.426 0.0100 mmhos/cm 0.430 1.10 20

Summit Scientific

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4600 West 60th Avenue
Arvada CO, 80003

Project: Colorado Energy Federal

Project Number: 027320009
Project Manager: Jeremy Pike

Reported:
06/19/20 09:40

Notes and Definitions

I-02 This sample was analyzed outside of the recommended holding time.

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