

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 14, 2018

Jeremy Pike
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: Price Degenhart 1

Enclosed are the results of analyses for samples received by Summit Scientific on 12/05/18 13:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Muri Premer For Ben Shrewsbury
Laboratory Manager



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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	1812063-01	Soil	12/04/18 11:30	12/05/18 13:00
SS02	1812063-02	Soil	12/04/18 12:00	12/05/18 13:00
SS03	1812063-03	Soil	12/04/18 11:40	12/05/18 13:00
SS04@0.5'	1812063-04	Soil	12/04/18 12:10	12/05/18 13:00
SS04@7.5'	1812063-05	Soil	12/04/18 13:40	12/05/18 13:00
SS04@8.5'	1812063-06	Soil	12/04/18 13:50	12/05/18 13:00
SS05	1812063-07	Soil	12/04/18 11:50	12/05/18 13:00
SS06	1812063-08	Soil	12/04/18 12:20	12/05/18 13:00
BG01	1812063-10	Soil	12/04/18 14:20	12/05/18 13:00

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.

Summit Scientific

1812063

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

Page 1 of 1

Client: LT Environmental, Inc.
Address: 4600 W. 60th Ave.
City/State/Zip: Arvada, Colorado 80003
Phone: 303-433-9788 Fax:
Sampler Name: Drew Bullinger

Project Manager: Jeremy Pike
E-Mail: jpika@ltenv.com
Project Name: Price-Degenhart #1
Project Number: 089518001

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:					Special Instructions		
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	GBTEX	TPH-DRO/ORO 8015	pH	EC	SAR			
SS01	12/4/18	11:30	4			X		X					X	X	X	X	X		
SS02		12:00	4			X		X					X	X	X	X	X		
SS03		11:40	4			X		X					X	X	X	X	X		
SS04 @ 0.5'		12:10	4			X		X					X	X	X	X	X		
SS04 @ 7.5'		13:40	4			X		X					X	X	X	X	X		
SS04 @ 8.5'		13:50	4			X		X					X	X	X	X	X		
SS05		11:50	4			X		X					X	X	X	X	X		
SS06		12:20	4			X		X					X	X	X	X	X		
SS07		12:30	4			X		X					X	X	X	X	X		
B901	✓	14:20	2			X		X					X	X	X	X	X		Hold SAR pending initial results
Relinquished by:		Date/Time:		Received by:		Date/Time:		Turn Around Time (Check)					Notes:						
<i>Drew Bullinger</i>		12/5/18 1700		<i>Jeremy Pike</i>		12/5/18 1700		Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>											
Relinquished by:		Date/Time:		Received by:		Date/Time:		Sample Integrity:											
<i>Jeremy Pike</i>		12/5/18 1300		<i>Jeremy Pike</i>		12/5/18 1500		Temperature Upon Receipt: <u>8.2</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
Relinquished by:		Date/Time:		Received in Lab by:		Date/Time:													

Sample Receipt Checklist

S2 Work Order 18/2063

Client: LT Environmental Client Project ID: Price-Degenhart #1

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

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

Temp (°C)	<u>8.2</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⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.				
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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client 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⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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.	<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.

CP
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

12-5-18 1330
Date/Time



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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

SS01
1812063-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/04/18 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	0.042	0.0020	mg/kg	1	1812069	12/06/18	12/07/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.028	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/04/18 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		86.5 %	23-173	"	"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/04/18 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1812070	"	12/07/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/04/18 11:30**

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

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

Date Sampled: **12/04/18 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	10600	19.6	mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B	

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12/14/18 14:54

SS01
1812063-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Magnesium	1290	9.79	mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B	
Sodium	9040	9.79	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/04/18 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	22.1	0.100	units	1	1812116	12/07/18	12/07/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/04/18 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	51.1		%	1	1812063	12/06/18	12/06/18	Calculation	
pH	9.10		pH Units	"	1812075	12/06/18	12/06/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **12/04/18 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	12.6	0.0100	mmhos/cm	1	1812074	12/06/18	12/06/18	EPA 120.1	

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4600 West 60th Avenue
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Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

SS02
1812063-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/04/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.024	0.0020	mg/kg	1	1812069	12/06/18	12/07/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0062	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.036	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/04/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		89.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/04/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	53	50	mg/kg	1	1812070	"	12/07/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/04/18 12:00**

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

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

Date Sampled: **12/04/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11800	23.0	mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B	
Magnesium	1520	11.5	"	"	"	"	"	"	

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 Project Manager: Jeremy Pike

Reported:
 12/14/18 14:54

SS02
1812063-02 (Soil)

Summit Scientific

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

Sodium	13600	11.5	mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B
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Calculated Analysis

Date Sampled: **12/04/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	31.3	0.100	units	1	1812116	12/07/18	12/07/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/04/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	43.5		%	1	1812063	12/06/18	12/06/18	Calculation	
pH	9.00		pH Units	"	1812075	12/06/18	12/06/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **12/04/18 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	20.0	0.0100	mmhos/cm	1	1812074	12/06/18	12/06/18	EPA 120.1	

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4600 West 60th Avenue
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Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

SS03
1812063-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/04/18 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	1812069	12/06/18	12/07/18	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	0.018	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **12/04/18 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		93.8 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/04/18 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	1812070	"	12/07/18	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/04/18 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		97.0 %		30-150		"	"	"	"	

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

Date Sampled: **12/04/18 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	6090	14.8		mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B	
Magnesium	685	7.39		"	"	"	"	"	"	

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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

SS03
1812063-03 (Soil)

Summit Scientific

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

Sodium	7840	7.39	mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B
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Calculated Analysis

Date Sampled: **12/04/18 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	25.4	0.100	units	1	1812116	12/07/18	12/07/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/04/18 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	67.7		%	1	1812063	12/06/18	12/06/18	Calculation	
pH	9.50		pH Units	"	1812075	12/06/18	12/06/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **12/04/18 11:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	17.9	0.0100	mmhos/cm	1	1812074	12/06/18	12/06/18	EPA 120.1	

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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

SS04@0.5'
1812063-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/04/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0043	0.0020	mg/kg	1	1812069	12/06/18	12/07/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0062	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.035	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/04/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		90.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/04/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812070	"	12/07/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/04/18 12:10**

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: **12/04/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	5830	14.7	mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B	
Magnesium	644	7.33	"	"	"	"	"	"	

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4600 West 60th Avenue
Arvada CO, 80003

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

SS04@0.5'
1812063-04 (Soil)

Summit Scientific

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

Sodium	9370	7.33	mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B
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Calculated Analysis

Date Sampled: **12/04/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	31.1	0.100	units	1	1812116	12/07/18	12/07/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/04/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	68.2		%	1	1812063	12/06/18	12/06/18	Calculation	
pH	9.70		pH Units	"	1812075	12/06/18	12/06/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **12/04/18 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	20.0	0.0100	mmhos/cm	1	1812074	12/06/18	12/06/18	EPA 120.1	

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Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

SS04@7.5'
1812063-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/04/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0051	0.0020	mg/kg	1	1812069	12/06/18	12/07/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/04/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		88.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/04/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812070	"	12/07/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/04/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

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

Date Sampled: **12/04/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4180	13.1	mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B	
Magnesium	582	6.54	"	"	"	"	"	"	

Summit Scientific

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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

SS04@7.5'
1812063-05 (Soil)

Summit Scientific

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

Sodium	3330	6.54	mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B
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Calculated Analysis

Date Sampled: **12/04/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	12.8	0.100	units	1	1812116	12/07/18	12/07/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/04/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.4		%	1	1812063	12/06/18	12/06/18	Calculation	
pH	9.80		pH Units	"	1812075	12/06/18	12/06/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **12/04/18 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.46	0.0100	mmhos/cm	1	1812074	12/06/18	12/06/18	EPA 120.1	

Summit Scientific

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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

SS04@8.5'
1812063-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/04/18 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1812069	12/06/18	12/07/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **12/04/18 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		91.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/04/18 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1812070	"	12/07/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/04/18 13:50**

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: **12/04/18 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	3080	12.8	mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B	
Magnesium	426	6.41	"	"	"	"	"	"	

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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

SS04@8.5'
1812063-06 (Soil)

Summit Scientific

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

Sodium	2020	6.41	mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B
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Calculated Analysis

Date Sampled: **12/04/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.04	0.100	units	1	1812116	12/07/18	12/07/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/04/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.1		%	1	1812063	12/06/18	12/06/18	Calculation	
pH	9.70		pH Units	"	1812075	12/06/18	12/06/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **12/04/18 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	5.62	0.0100	mmhos/cm	1	1812074	12/06/18	12/06/18	EPA 120.1	

Summit Scientific

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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

SS05
1812063-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/04/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.046	0.0020	mg/kg	1	1812069	12/06/18	12/07/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0095	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.054	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.2	0.50	"	"	"	"	"	"	

Date Sampled: **12/04/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		94.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/04/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812070	"	12/07/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/04/18 11:50**

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

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

Date Sampled: **12/04/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	8610	18.5	mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B	
Magnesium	1130	9.25	"	"	"	"	"	"	

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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

SS05
1812063-07 (Soil)

Summit Scientific

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

Sodium	8420	9.25	mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B
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Calculated Analysis

Date Sampled: **12/04/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	22.7	0.100	units	1	1812116	12/07/18	12/07/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/04/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	54.0		%	1	1812063	12/06/18	12/06/18	Calculation	
pH	9.00		pH Units	"	1812075	12/06/18	12/06/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **12/04/18 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	15.2	0.0100	mmhos/cm	1	1812074	12/06/18	12/06/18	EPA 120.1	

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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

SS06
1812063-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/04/18 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0058	0.0020	mg/kg	1	1812188	12/13/18	12/14/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.0088	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.039	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.3	0.50	"	"	"	"	"	"	

Date Sampled: **12/04/18 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/04/18 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	52	50	mg/kg	1	1812189	12/13/18	12/14/18	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/04/18 12:20**

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

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

Date Sampled: **12/04/18 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1750	13.6	mg/kg dry	1	1812187	12/13/18	12/13/18	EPA 6020B	
Magnesium	505	6.81	"	"	"	"	"	"	

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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

SS06
1812063-08 (Soil)

Summit Scientific

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

Sodium	6780	6.81	mg/kg dry	1	1812187	12/13/18	12/13/18	EPA 6020B
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Calculated Analysis

Date Sampled: **12/04/18 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	36.7	0.100	units	1	1812206	12/14/18	12/14/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/04/18 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	73.4		%	1	1812180	12/13/18	12/13/18	Calculation	
pH	9.05		pH Units	"	1812181	12/13/18	12/13/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **12/04/18 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	17.4	0.0100	mmhos/cm	1	1812182	12/13/18	12/13/18	EPA 120.1	

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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

BG01
1812063-10 (Soil)

Summit Scientific

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

Date Sampled: **12/04/18 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	232	11.1	mg/kg dry	1	1812079	12/06/18	12/06/18	EPA 6020B	
Magnesium	48.0	5.54	"	"	"	"	"	"	
Sodium	226	5.54	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/04/18 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	3.53	0.100	units	1	1812116	12/07/18	12/07/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/04/18 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	90.2		%	1	1812063	12/06/18	12/06/18	Calculation	
pH	8.30		pH Units	"	1812075	12/06/18	12/06/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **12/04/18 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.413	0.0100	mmhos/cm	1	1812074	12/06/18	12/06/18	EPA 120.1	

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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

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 1812069 - EPA 5030 Soil MS

Blank (1812069-BLK1)

Prepared: 12/06/18 Analyzed: 12/07/18

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	0.0346		"	0.0396		87.5	23-173			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	21-167			

LCS (1812069-BS1)

Prepared: 12/06/18 Analyzed: 12/07/18

Benzene	0.118	0.0020	mg/kg	0.100		118	70-130			
Toluene	0.118	0.0050	"	0.100		118	70-130			
Ethylbenzene	0.117	0.0050	"	0.100		117	70-130			
m,p-Xylene	0.230	0.010	"	0.200		115	70-130			
o-Xylene	0.116	0.0050	"	0.100		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0336		"	0.0396		84.9	23-173			
Surrogate: Toluene-d8	0.0410		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.6	21-167			

Matrix Spike (1812069-MS1)

Source: 1812043-01

Prepared: 12/06/18 Analyzed: 12/07/18

Benzene	0.0922	0.0020	mg/kg	0.100	ND	92.2	70-130			
Toluene	0.0913	0.0050	"	0.100	ND	91.3	70-130			
Ethylbenzene	0.0880	0.0050	"	0.100	ND	88.0	70-130			
m,p-Xylene	0.172	0.010	"	0.200	ND	86.1	70-130			
o-Xylene	0.0864	0.0050	"	0.100	ND	86.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0335		"	0.0396		84.6	23-173			
Surrogate: Toluene-d8	0.0414		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	21-167			

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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

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 1812069 - EPA 5030 Soil MS

Matrix Spike Dup (1812069-MSD1)

Source: 1812043-01

Prepared: 12/06/18 Analyzed: 12/07/18

Benzene	0.0911	0.0020	mg/kg	0.100	ND	91.1	70-130	1.24	30	
Toluene	0.0905	0.0050	"	0.100	ND	90.5	70-130	0.858	30	
Ethylbenzene	0.0893	0.0050	"	0.100	ND	89.3	70-130	1.42	30	
m,p-Xylene	0.175	0.010	"	0.200	ND	87.3	70-130	1.42	30	
o-Xylene	0.0875	0.0050	"	0.100	ND	87.5	70-130	1.35	30	
Surrogate: 1,2-Dichloroethane-d4	0.0337		"	0.0396		85.2	23-173			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	21-167			

Summit Scientific

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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

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 1812070 - EPA 3550A

Blank (1812070-BLK1)

Prepared: 12/06/18 Analyzed: 12/07/18

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

LCS (1812070-BS1)

Prepared: 12/06/18 Analyzed: 12/07/18

C10-C28 (DRO)	586	50	mg/kg	500	117	70-130				
C28-C36 (ORO)	19.3	50	"			70-130				

Matrix Spike (1812070-MS1)

Source: 1812043-01

Prepared: 12/06/18 Analyzed: 12/07/18

C10-C28 (DRO)	591	50	mg/kg	500	20.5	114	70-130			
C28-C36 (ORO)	17.4	50	"		24.2	70-130				

Matrix Spike Dup (1812070-MSD1)

Source: 1812043-01

Prepared: 12/06/18 Analyzed: 12/07/18

C10-C28 (DRO)	511	50	mg/kg	500	20.5	98.1	70-130	14.4	20	
C28-C36 (ORO)	18.4	50	"		24.2	70-130	5.44	20		

Batch 1812189 - EPA 3550A

Blank (1812189-BLK1)

Prepared: 12/13/18 Analyzed: 12/14/18

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

LCS (1812189-BS1)

Prepared: 12/13/18 Analyzed: 12/14/18

C10-C28 (DRO)	618	50	mg/kg	500	124	70-130				
C28-C36 (ORO)	12.1	50	"			70-130				

Matrix Spike (1812189-MS1)

Source: 1812063-08

Prepared: 12/13/18 Analyzed: 12/14/18

C10-C28 (DRO)	652	50	mg/kg	500	52.3	120	70-130			
C28-C36 (ORO)	18.0	50	"		16.1	70-130				

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

Project: Price Degenhart 1

Project Number: 089518001
 Project Manager: Jeremy Pike

Reported:
 12/14/18 14:54

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1812189 - EPA 3550A

Matrix Spike Dup (1812189-MSD1)

Source: 1812063-08

Prepared: 12/13/18 Analyzed: 12/14/18

C10-C28 (DRO)	653	50	mg/kg	500	52.3	120	70-130	0.219	20	
C28-C36 (ORO)	18.7	50	"		16.1		70-130	3.87	20	

Summit Scientific

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

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

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		

Batch 1812079 - General Preparation

Blank (1812079-BLK1)

Prepared & Analyzed: 12/06/18

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

LCS (1812079-BS1)

Prepared & Analyzed: 12/06/18

Calcium	577	10.0	mg/kg wet	500		115	70-130		
Magnesium	599	5.00	"	500		120	70-130		
Sodium	609	5.00	"	500		122	70-130		

Duplicate (1812079-DUP1)

Source: 1812043-01

Prepared & Analyzed: 12/06/18

Calcium	262	10.6	mg/kg dry		282			7.48	20
Magnesium	99.0	5.32	"		108			8.93	20
Sodium	117	5.32	"		116			1.08	20

Matrix Spike (1812079-MS1)

Source: 1812043-01

Prepared & Analyzed: 12/06/18

Calcium	797	10.6	mg/kg dry	532	282	96.7	70-130		
Magnesium	686	5.32	"	532	108	109	70-130		
Sodium	678	5.32	"	532	116	106	70-130		

Matrix Spike Dup (1812079-MSD1)

Source: 1812043-01

Prepared & Analyzed: 12/06/18

Calcium	812	10.6	mg/kg dry	532	282	99.5	70-130	1.86	25
Magnesium	709	5.32	"	532	108	113	70-130	3.26	25
Sodium	688	5.32	"	532	116	107	70-130	1.42	25

Batch 1812187 - General Preparation

Blank (1812187-BLK1)

Prepared & Analyzed: 12/13/18

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

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Project: Price Degenhart 1

Project Number: 089518001
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Reported:
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Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1812187 - General Preparation

LCS (1812187-BS1)

Prepared & Analyzed: 12/13/18

Calcium	554	10.0	mg/kg wet	500		111	70-130			
Magnesium	549	5.00	"	500		110	70-130			
Sodium	526	5.00	"	500		105	70-130			

Duplicate (1812187-DUP1)

Source: 1812063-08

Prepared & Analyzed: 12/13/18

Calcium	1970	13.6	mg/kg dry	681	1750	103	70-130	11.9	20	
Magnesium	436	6.81	"	681	505	95.2	70-130	14.5	20	
Sodium	6520	6.81	"	681	6780	89.4	70-130	3.88	20	

Matrix Spike (1812187-MS1)

Source: 1812063-08

Prepared & Analyzed: 12/13/18

Calcium	2450	13.6	mg/kg dry	681	1750	103	70-130			
Magnesium	1150	6.81	"	681	505	95.2	70-130			
Sodium	7390	6.81	"	681	6780	89.4	70-130			

Matrix Spike Dup (1812187-MSD1)

Source: 1812063-08

Prepared & Analyzed: 12/13/18

Calcium	2520	13.6	mg/kg dry	681	1750	112	70-130	2.63	25	
Magnesium	1100	6.81	"	681	505	86.8	70-130	5.10	25	
Sodium	7400	6.81	"	681	6780	90.9	70-130	0.133	25	

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Arvada CO, 80003

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

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 1812063 - General Preparation

Duplicate (1812063-DUP1)		Source: 1812043-01		Prepared & Analyzed: 12/06/18						
% Solids	94.2		%		94.0			0.210	20	

Batch 1812075 - General Preparation

LCS (1812075-BS1)		Prepared & Analyzed: 12/06/18								
pH	9.3		pH Units	9.18		101	95-105			
Duplicate (1812075-DUP1)		Source: 1812043-01		Prepared & Analyzed: 12/06/18						
pH	8.4		pH Units		8.4			0.00	20	

Batch 1812180 - General Preparation

Duplicate (1812180-DUP1)		Source: 1812149-03		Prepared & Analyzed: 12/13/18						
% Solids	94.5		%		94.7			0.209	20	

Batch 1812181 - General Preparation

LCS (1812181-BS1)		Prepared & Analyzed: 12/13/18								
pH	9.3		pH Units				95-105			
Duplicate (1812181-DUP1)		Source: 1812149-03		Prepared & Analyzed: 12/13/18						
pH	8.3		pH Units		8.2			1.06	20	

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4600 West 60th Avenue
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Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

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 1812074 - General Preparation

Blank (1812074-BLK1)

Prepared & Analyzed: 12/06/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (1812074-BS1)

Prepared & Analyzed: 12/06/18

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

Duplicate (1812074-DUP1)

Source: 1812043-01

Prepared & Analyzed: 12/06/18

Specific Conductance (EC) 0.930 0.0100 mmhos/cm 0.918 1.30 20

Batch 1812182 - General Preparation

Blank (1812182-BLK1)

Prepared & Analyzed: 12/13/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (1812182-BS1)

Prepared & Analyzed: 12/13/18

Specific Conductance (EC) 0.747 0.0100 mmhos/cm 0.750 99.5 90-110

Duplicate (1812182-DUP1)

Source: 1812149-03

Prepared & Analyzed: 12/13/18

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.180 15.5 20

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4600 West 60th Avenue
Arvada CO, 80003

Project: Price Degenhart 1

Project Number: 089518001
Project Manager: Jeremy Pike

Reported:
12/14/18 14:54

Notes and Definitions

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