

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 05, 2023

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

Littleton, CO 80127

RE: PADCO Gulley FL

Work Order #2308368

Enclosed are the results of analyses for samples received by Summit Scientific on 08/16/23 10:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL
Project Number: [none]
Project Manager: Ty Smith

Reported:
09/05/23 08:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G1c-5	2308368-01	Soil	08/15/23 15:00	08/16/23 10:55

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

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page <u>1</u> of <u>1</u>
2308368	

Client: <u>PADCO</u>		Send Data To:		Send Invoice To:	
Address:		Project Manager: <u>Ty Smith</u>		Company: <u>PADCO</u>	
City/State/Zip:		E-Mail: <u>ty.smith@lesair.com</u>		Project Name/Location: <u>GULLEY FL</u>	
Phone:		Project Name: <u>GULLEY FL</u>		AFE#:	
Sampler Name: <u>Ty Smith / BRICK MAGANA</u>		Project Number:		PO/Billing Codes:	
				Contact: <u>DAN RICHMOND</u>	

				Preservative				Matrix				Analysis Requested				Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other				
1	GIC-5	8/15	15:00	1			X			X		X	X			
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																

Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/16/23</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/16/23 10:55</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>3.2</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2308368Client: PADCO Client Project ID: Galley FLShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 13.2 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on fire
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	72 hours
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<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"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<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"/>	
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"/>	
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, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<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.
John Wind
Custodian Printed Name

8/16/23 10:55
Date/Time



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL
Project Number: [none]
Project Manager: Ty Smith

Reported:
09/05/23 08:20

G1c-5
2308368-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/15/23 15:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.58	0.200	mg/kg dry	1	BGH0685	08/17/23	08/18/23	EPA 6020B	
Barium	171	0.400	"	"	"	"	"	"	
Copper	ND	0.400	"	"	"	"	"	"	
Lead	8.80	0.200	"	"	"	"	"	"	
Nickel	2.27	0.400	"	"	"	"	"	"	
Silver	0.0822	0.0200	"	"	"	"	"	"	
Zinc	8.10	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/15/23 15:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0714	08/17/23	08/17/23	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/15/23 15:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	81.3		%	1	BGH0736	08/18/23	08/18/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **08/15/23 15:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.92		pH Units	1	BGH0732	08/17/23	08/17/23	EPA 9045D	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL

Project Number: [none]
Project Manager: Ty Smith

Reported:
09/05/23 08:20

G1c-5
2308368-01RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/15/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Cadmium	ND	0.200		mg/kg dry	1	BGH1250	08/17/23	09/01/23	EPA 6020B	

Summit Scientific



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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL

Project Number: [none]
Project Manager: Ty Smith

Reported:
09/05/23 08:20

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGH0685 - EPA 3050B

Blank (BGH0685-BLK1)

Prepared: 08/17/23 Analyzed: 08/18/23

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"
Selenium	ND	0.260	"

LCS (BGH0685-BS1)

Prepared: 08/17/23 Analyzed: 08/18/23

Arsenic	40.5	0.200	mg/kg wet	40.0	101	80-120
Barium	40.5	0.400	"	40.0	101	80-120
Cadmium	2.06	0.200	"	2.00	103	80-120
Copper	38.7	0.400	"	40.0	96.8	80-120
Lead	20.8	0.200	"	20.0	104	80-120
Nickel	40.4	0.400	"	40.0	101	80-120
Silver	2.01	0.0200	"	2.00	101	80-120
Zinc	42.7	0.400	"	40.0	107	80-120

Duplicate (BGH0685-DUP1)

Source: 2308280-01

Prepared: 08/17/23 Analyzed: 08/18/23

Arsenic	0.849	0.200	mg/kg dry	0.786	7.63	20	
Barium	19.8	0.400	"	15.2	26.5	20	QR-04
Cadmium	0.225	0.200	"	0.165	30.7	20	QR-01
Copper	ND	0.400	"	ND		20	
Lead	22.2	0.200	"	7.76	96.2	20	QR-04
Nickel	0.836	0.400	"	0.697	18.1	20	
Silver	0.0224	0.0200	"	0.0121	60.2	20	QR-01
Zinc	14.5	0.400	"	9.77	39.0	20	QR-04
Selenium	ND	0.260	"	ND		200	

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL
Project Number: [none]
Project Manager: Ty Smith

Reported:
09/05/23 08:20

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH0685 - EPA 3050B

Matrix Spike (BGH0685-MS1)			Source: 2308280-01		Prepared: 08/17/23 Analyzed: 08/18/23						
Arsenic	22.3	0.200	mg/kg dry	41.6	0.786	51.8	75-125				QM-01
Barium	59.6	0.400	"	41.6	15.2	107	75-125				
Cadmium	2.23	0.200	"	2.08	0.165	99.4	75-125				
Copper	18.8	0.400	"	41.6	ND	45.3	75-125				QM-01
Lead	28.0	0.200	"	20.8	7.76	97.4	75-125				
Nickel	22.4	0.400	"	41.6	0.697	52.2	75-125				QM-01
Silver	1.93	0.0200	"	2.08	0.0121	92.5	75-125				
Zinc	36.0	0.400	"	41.6	9.77	63.1	75-125				QM-01

Matrix Spike Dup (BGH0685-MSD1)			Source: 2308280-01		Prepared: 08/17/23 Analyzed: 08/18/23						
Arsenic	23.0	0.200	mg/kg dry	41.6	0.786	53.6	75-125	3.28	25		QM-01
Barium	59.7	0.400	"	41.6	15.2	107	75-125	0.0913	25		
Cadmium	2.20	0.200	"	2.08	0.165	98.0	75-125	1.24	25		
Copper	19.0	0.400	"	41.6	ND	45.7	75-125	0.905	25		QM-01
Lead	28.2	0.200	"	20.8	7.76	98.5	75-125	0.809	25		
Nickel	22.7	0.400	"	41.6	0.697	52.9	75-125	1.30	25		QM-01
Silver	1.92	0.0200	"	2.08	0.0121	92.0	75-125	0.560	25		
Zinc	35.1	0.400	"	41.6	9.77	61.1	75-125	2.45	25		QM-01

Batch BGH1250 - EPA 3050B

Blank (BGH1250-BLK1)			Prepared: 08/31/23 Analyzed: 09/01/23								
Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								
Cadmium	ND	0.200	"								
Copper	ND	0.400	"								
Lead	ND	0.200	"								
Nickel	ND	0.400	"								
Silver	ND	0.0200	"								
Zinc	ND	0.400	"								
Selenium	ND	0.260	"								

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL
Project Number: [none]
Project Manager: Ty Smith

Reported:
09/05/23 08:20

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH1250 - EPA 3050B

LCS (BGH1250-BS1)

Prepared: 08/31/23 Analyzed: 09/01/23

Arsenic	45.7	0.200	mg/kg wet	40.0		114	80-120			
Barium	35.5	0.400	"	40.0		88.7	80-120			
Cadmium	1.76	0.200	"	2.00		87.8	80-120			
Copper	46.3	0.400	"	40.0		116	80-120			
Lead	17.9	0.200	"	20.0		89.6	80-120			
Nickel	45.6	0.400	"	40.0		114	80-120			
Silver	1.78	0.0200	"	2.00		89.1	80-120			
Zinc	45.4	0.400	"	40.0		113	80-120			

Duplicate (BGH1250-DUP1)

Source: 2308661-01

Prepared: 08/31/23 Analyzed: 09/01/23

Arsenic	0.693	0.200	mg/kg dry		0.703			1.47	20	
Barium	144	0.400	"		134			7.00	20	
Cadmium	0.111	0.200	"		0.104			6.36	20	
Copper	1.24	0.400	"		1.46			16.4	20	
Lead	5.98	0.200	"		6.75			12.2	20	
Nickel	1.62	0.400	"		1.86			13.8	20	
Silver	0.00929	0.0200	"		0.0122			27.3	20	QR-01
Zinc	12.1	0.400	"		11.5			5.57	20	
Selenium	ND	0.260	"		ND				200	

Matrix Spike (BGH1250-MS1)

Source: 2308661-01

Prepared: 08/31/23 Analyzed: 09/01/23

Arsenic	14.9	0.200	mg/kg dry	48.9	0.703	28.9	75-125			QM-01
Barium	157	0.400	"	48.9	134	46.1	75-125			QM-01
Cadmium	2.09	0.200	"	2.45	0.104	81.3	75-125			
Copper	16.0	0.400	"	48.9	1.46	29.8	75-125			QM-01
Lead	24.2	0.200	"	24.5	6.75	71.5	75-125			QM-01
Nickel	16.8	0.400	"	48.9	1.86	30.5	75-125			QM-01
Silver	2.05	0.0200	"	2.45	0.0122	83.3	75-125			
Zinc	26.7	0.400	"	48.9	11.5	31.1	75-125			QM-01

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL

Project Number: [none]
Project Manager: Ty Smith

Reported:
09/05/23 08:20

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGH1250 - EPA 3050B

Matrix Spike Dup (BGH1250-MSD1)	Source: 2308661-01			Prepared: 08/31/23 Analyzed: 09/01/23						
Arsenic	15.1	0.200	mg/kg dry	48.9	0.703	29.3	75-125	1.35	25	QM-01
Barium	163	0.400	"	48.9	134	58.4	75-125	3.78	25	QM-01
Cadmium	2.22	0.200	"	2.45	0.104	86.4	75-125	5.81	25	
Copper	16.3	0.400	"	48.9	1.46	30.3	75-125	1.54	25	QM-01
Lead	25.3	0.200	"	24.5	6.75	76.0	75-125	4.41	25	
Nickel	16.9	0.400	"	48.9	1.86	30.8	75-125	0.915	25	QM-01
Silver	2.14	0.0200	"	2.45	0.0122	87.0	75-125	4.32	25	
Zinc	27.0	0.400	"	48.9	11.5	31.8	75-125	1.35	25	QM-01

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL

Project Number: [none]
Project Manager: Ty Smith

Reported:
09/05/23 08:20

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGH0714 - 3060A Mod

Blank (BGH0714-BLK1)

Prepared & Analyzed: 08/17/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGH0714-BS1)

Prepared & Analyzed: 08/17/23

Chromium, Hexavalent 20.7 0.30 mg/kg wet 25.0 82.8 80-120

Duplicate (BGH0714-DUP1)

Source: 2308308-01

Prepared & Analyzed: 08/17/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGH0714-MS1)

Source: 2308308-01

Prepared & Analyzed: 08/17/23

Chromium, Hexavalent 23.7 0.30 mg/kg dry 27.4 ND 86.4 75-125

Matrix Spike Dup (BGH0714-MSD1)

Source: 2308308-01

Prepared & Analyzed: 08/17/23

Chromium, Hexavalent 24.0 0.30 mg/kg dry 27.4 ND 87.4 75-125 1.15 20

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL

Project Number: [none]
Project Manager: Ty Smith

Reported:
09/05/23 08:20

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

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

Batch BGH0736 - General Preparation

Duplicate (BGH0736-DUP1)		Source: 2308351-01			Prepared & Analyzed: 08/18/23					
% Solids	83.1		%		82.8			0.357	20	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL

Project Number: [none]
Project Manager: Ty Smith

Reported:
09/05/23 08:20

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BGH0732 - General Preparation

LCS (BGH0732-BS1)

Prepared & Analyzed: 08/17/23

pH	8.99	pH Units	9.18	97.9	95-105
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Duplicate (BGH0732-DUP1)

Source: 2308366-01

Prepared & Analyzed: 08/17/23

pH	8.47	pH Units	8.46	0.118	20
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Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL

Project Number: [none]
Project Manager: Ty Smith

Reported:
09/05/23 08:20

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 23, 2023

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

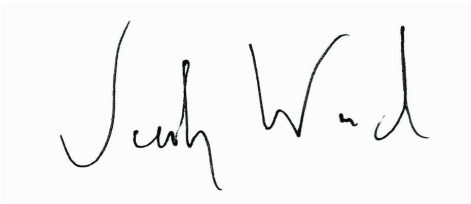
Littleton, CO 80127

RE: PADCO Gulley FL

Work Order #2308364

Enclosed are the results of analyses for samples received by Summit Scientific on 08/16/23 10:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/23/23 12:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G1a-1	2308364-01	Soil	08/15/23 15:30	08/16/23 10:55

Summit Scientific

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Contact/Billing Information	
Name:	Lesair Environmental
Address:	11786 Shaffer Place, Unit 210
City/State/Zip:	Littleton, CO 80127
Phone Number:	303-904-2525
Fax Number:	
Project Manager:	Ty Smith
Email:	TySmith@Lesair.com

Notes: _____

☐ Standard Turn Around ☒ 3-DAY RUSH TURN AROUND

Project Name:	GULLEY FL	Sampled By:	ERICK MACAWA Ty Smith
Project Number:		Signature:	<i>[Signature]</i>
Sample Location:	GULLEY FLOWLINE	Date:	8/15/2023

Sample Information					Matrix*	Preservation							Analysis									
Sample Name	Date Sampled	Time Sampled	Number of Samples	G=Grab, C= Composite		HNO ₃	HCl	NaOH	H ₂ SO ₄	Methanol	None	Other (Specify)										
G1a-1	8/15	15:30	1	G	SOIL						X	X	9/15 Borehole									

Relinquished By:	<i>[Signature]</i>	Date:	8/16/23	Time:	10:52
Received By:	<i>[Signature]</i>	Date:	8/16/23	Time:	10:55

*Choose from: SL- Sludge, DW-Drinking Water, GW- Groundwater, S- Soil/Solids, WW- Wastewater, Specify Other

13.5° Temp

S₂

Sample Receipt Checklist

S2 Work Order# 2308364Client: Lesair Client Project ID: Gully FLShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 13.5 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on file
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	72 hours
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<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"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<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"/>	
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"/>	
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, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<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.				

John Ward
Custodian Printed Name

8/16/23 10:55
Date/Time



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL
Project Number: [none]
Project Manager: Ty Smith

Reported:
08/23/23 12:19

G1a-1
2308364-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/15/23 15:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	0.308	0.0100		mg/L	1	BGH0712	08/17/23	08/19/23	EPA 6020B	

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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/23/23 12:19

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control

Summit Scientific

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

Batch BGH0712 - EPA 3050B

Blank (BGH0712-BLK1)

Prepared: 08/17/23 Analyzed: 08/18/23

Boron ND 0.0100 mg/L

LCS (BGH0712-BS1)

Prepared: 08/17/23 Analyzed: 08/18/23

Boron 5.55 0.0100 mg/L 5.00 111 80-120

Duplicate (BGH0712-DUP1)

Source: 2308315-01

Prepared: 08/17/23 Analyzed: 08/19/23

Boron 0.234 0.0100 mg/L 0.310 28.1 20 QR-04

Matrix Spike (BGH0712-MS1)

Source: 2308315-01

Prepared: 08/17/23 Analyzed: 08/19/23

Boron 5.58 0.0100 mg/L 5.00 0.310 105 75-125

Matrix Spike Dup (BGH0712-MSD1)

Source: 2308315-01

Prepared: 08/17/23 Analyzed: 08/19/23

Boron 5.91 0.0100 mg/L 5.00 0.310 112 75-125 5.66 25

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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley FL

Project Number: [none]
Project Manager: Ty Smith

Reported:
08/23/23 12:19

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 26, 2023

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

Littleton, CO 80127

RE: PADCO Gulley #1 Flowline Removal

Work Order #2305255

Enclosed are the results of analyses for samples received by Summit Scientific on 05/10/23 12:27. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G1-WHR	2305255-01	Soil	05/09/23 12:30	05/10/23 12:27
Gla	2305255-02	Soil	05/09/23 12:30	05/10/23 12:27
Glb	2305255-03	Soil	05/09/23 14:50	05/10/23 12:27
Glc	2305255-04	Soil	05/09/23 15:00	05/10/23 12:27
G1-TRTR	2305255-05	Soil	05/09/23 15:10	05/10/23 12:27

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

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2305255	

Client: <u>PADCO</u>		Send Data To: Project Manager: <u>Ty Smith</u>		Send Invoice To: Company: <u>PADCO</u>	
Address:		E-Mail: <u>ty.smith@lesair.com</u>		Project Name/Location: <u>GOLLEY #1</u>	
City/State/Zip:		Project Name: <u>GOLLEY #1 FLOWLINE REMOVAL</u>		AFE#:	
Phone:		Project Number:		PO/Billing Codes:	
Sampler Name: <u>Ty Smith</u>				Contact: <u>DAN RICHMOND</u>	

					Preservative				Matrix				Analysis Requested						Special Instructions		
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	915 GPO/BOX	915 DPO/BOX	915 pH	915 SAR/EC	915 Boron				
1	G1 - WHR	5/9	12:30	2			X			X			X	X	X	X	X				
2																					
3	G1a	5/9	12:30	2			X			X			X	X	X	X	X				
4																					
5	G1b	5/9	14:50	2			X			X			X	X	X	X	X				
6																					
7	G1c G1c	5/9	13:00	2			X			X			X	X	X	X	X				
8																					
9	G1 - TRTR	5/9	13:10	2			X			X			X	X	X	X	X				
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt:	10.6	Corrected Temperature		IR gun #: 02	HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 2305255Client: Padco Client Project ID: Gulley #1 Flow line RemovalShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 10.6 Thermometer # 02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<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 due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<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"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<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"/>	
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"/>	
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, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<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 type="checkbox"/>	

Additional Comments (if any):

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


 Custodian Printed Name

5/10/23 1227

 Date/Time



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

G1-WHR
2305255-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0363	05/11/23	05/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	4.04	32.4 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

G1-WHR
2305255-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.745	0.0100	mg/L	1	BGE0480	05/15/23	05/17/23	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	246	0.0570	mg/L dry	1	BGE0442	05/12/23	05/17/23	EPA 6020B	
Magnesium	87.9	0.0570	"	"	"	"	"	"	
Sodium	363	0.0570	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.06	0.00100	units	1	BGE0605	05/17/23	05/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.8		%	1	BGE0465	05/13/23	05/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.72	0.0100	mmhos/cm	1	BGE0477	05/14/23	05/15/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

G1-WHR
2305255-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.73			pH Units	1	BGE0476	05/14/23	05/15/23	EPA 9045D	

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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Gla
2305255-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0422	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0363	05/11/23	05/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	5.72	45.8 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Gla
2305255-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	5.84	0.0100	mg/L	1	BGE0480	05/15/23	05/17/23	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	137	0.0578	mg/L dry	1	BGE0442	05/12/23	05/17/23	EPA 6020B	
Magnesium	49.2	0.0578	"	"	"	"	"	"	
Sodium	240	0.0578	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.47	0.00100	units	1	BGE0605	05/17/23	05/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BGE0465	05/13/23	05/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.26	0.0100	mmhos/cm	1	BGE0477	05/14/23	05/15/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Gla
2305255-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/09/23 12:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.83			pH Units	1	BGE0476	05/14/23	05/15/23	EPA 9045D	

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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Glb
2305255-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 14:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 14:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0362	90.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0382	95.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0387	96.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 14:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	3200	50	mg/kg	1	BGE0363	05/11/23	05/12/23	EPA 8015M	
C28-C36 (ORO)	790	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 14:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.64	69.1 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Glb
2305255-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/09/23 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.423	0.0100	mg/L	1	BGE0480	05/15/23	05/17/23	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/09/23 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	184	0.0579	mg/L dry	1	BGE0442	05/12/23	05/17/23	EPA 6020B	
Magnesium	61.0	0.0579	"	"	"	"	"	"	
Sodium	183	0.0579	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/09/23 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.99	0.00100	units	1	BGE0605	05/17/23	05/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/09/23 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.4		%	1	BGE0465	05/13/23	05/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/09/23 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.28	0.0100	mmhos/cm	1	BGE0477	05/14/23	05/15/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Glb
2305255-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/09/23 14:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.36			pH Units	1	BGE0476	05/14/23	05/15/23	EPA 9045D	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Glc
2305255-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.3	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0343	85.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0385	96.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0535	134 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	600	50	mg/kg	1	BGE0363	05/11/23	05/11/23	EPA 8015M	
C28-C36 (ORO)	79	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 15:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.51	52.1 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Glc
2305255-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/09/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.504	0.0100	mg/L	1	BGE0480	05/15/23	05/17/23	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/09/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	79.1	0.0567	mg/L dry	1	BGE0442	05/12/23	05/17/23	EPA 6020B	
Magnesium	11.4	0.0567	"	"	"	"	"	"	
Sodium	144	0.0567	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/09/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.01	0.00100	units	1	BGE0605	05/17/23	05/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/09/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.1		%	1	BGE0465	05/13/23	05/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/09/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.756	0.0100	mmhos/cm	1	BGE0477	05/14/23	05/15/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Glc
2305255-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/09/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.97			pH Units	1	BGE0476	05/14/23	05/15/23	EPA 9045D	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

G1-TRTR
2305255-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 15:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 15:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0359	89.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0439	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 15:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0363	05/11/23	05/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 15:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.79	70.3 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

G1-TRTR
2305255-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/09/23 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.471	0.0100	mg/L	1	BGE0480	05/15/23	05/17/23	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/09/23 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	81.1	0.0588	mg/L dry	1	BGE0442	05/12/23	05/17/23	EPA 6020B	
Magnesium	29.9	0.0588	"	"	"	"	"	"	
Sodium	233	0.0588	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/09/23 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.62	0.00100	units	1	BGE0605	05/17/23	05/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/09/23 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BGE0465	05/13/23	05/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/09/23 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.67	0.0100	mmhos/cm	1	BGE0477	05/14/23	05/15/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

G1-TRTR
2305255-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/09/23 15:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.85			pH Units	1	BGE0476	05/14/23	05/15/23	EPA 9045D	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

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 BGE0360 - EPA 5030 Soil MS

Blank (BGE0360-BLK1)

Prepared: 05/11/23 Analyzed: 05/13/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0439		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

LCS (BGE0360-BS1)

Prepared: 05/11/23 Analyzed: 05/13/23

Benzene	0.0722	0.0020	mg/kg	0.100		72.2	70-130			
Toluene	0.0894	0.0050	"	0.100		89.4	70-130			
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130			
m,p-Xylene	0.216	0.010	"	0.200		108	70-130			
o-Xylene	0.104	0.0050	"	0.100		104	70-130			
1,2,4-Trimethylbenzene	0.115	0.0050	"	0.100		115	70-130			
1,3,5-Trimethylbenzene	0.122	0.0050	"	0.100		122	70-130			
Naphthalene	0.0749	0.0038	"	0.100		74.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0329		"	0.0400		82.2	50-150			
Surrogate: Toluene-d8	0.0376		"	0.0400		94.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.0	50-150			

Matrix Spike (BGE0360-MS1)

Source: 2305253-01

Prepared: 05/11/23 Analyzed: 05/13/23

Benzene	0.0729	0.0020	mg/kg	0.100	ND	72.9	70-130			
Toluene	0.0942	0.0050	"	0.100	ND	94.2	70-130			
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130			
m,p-Xylene	0.224	0.010	"	0.200	ND	112	70-130			
o-Xylene	0.103	0.0050	"	0.100	ND	103	70-130			
1,2,4-Trimethylbenzene	0.120	0.0050	"	0.100	ND	120	70-130			
1,3,5-Trimethylbenzene	0.124	0.0050	"	0.100	ND	124	70-130			
Naphthalene	0.0760	0.0038	"	0.100	ND	76.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0344		"	0.0400		86.0	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	50-150			

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

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 BGE0360 - EPA 5030 Soil MS

Matrix Spike Dup (BGE0360-MSD1)	Source: 2305253-01			Prepared: 05/11/23 Analyzed: 05/13/23						
Benzene	0.0743	0.0020	mg/kg	0.100	ND	74.3	70-130	1.83	30	
Toluene	0.0944	0.0050	"	0.100	ND	94.4	70-130	0.191	30	
Ethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130	2.94	30	
m,p-Xylene	0.229	0.010	"	0.200	ND	115	70-130	2.17	30	
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130	1.30	30	
1,2,4-Trimethylbenzene	0.127	0.0050	"	0.100	ND	127	70-130	5.84	30	
1,3,5-Trimethylbenzene	0.128	0.0050	"	0.100	ND	128	70-130	3.43	30	
Naphthalene	0.0798	0.0038	"	0.100	ND	79.8	70-130	4.85	30	
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.6	50-150			
Surrogate: Toluene-d8	0.0380		"	0.0400		94.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		102	50-150			

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGE0363 - EPA 3550A

Blank (BGE0363-BLK1)

Prepared & Analyzed: 05/11/23

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

Surrogate: o-Terphenyl	14.2	"	12.5	113	30-150
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LCS (BGE0363-BS1)

Prepared & Analyzed: 05/11/23

C10-C28 (DRO)	546	50	mg/kg	500	109	70-130
Surrogate: o-Terphenyl	14.3	"	12.5	114	30-150	

Matrix Spike (BGE0363-MS1)

Source: 2305253-01

Prepared & Analyzed: 05/11/23

C10-C28 (DRO)	716	50	mg/kg	500	16.9	140	70-130		S-02
Surrogate: o-Terphenyl	14.6	"	12.5	117	30-150				

Matrix Spike Dup (BGE0363-MSD1)

Source: 2305253-01

Prepared & Analyzed: 05/11/23

C10-C28 (DRO)	702	50	mg/kg	500	16.9	137	70-130	1.95	20	S-02
Surrogate: o-Terphenyl	14.2	"	12.5	114	30-150					

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BGE0480 - EPA 3050B

Blank (BGE0480-BLK1)

Prepared: 05/15/23 Analyzed: 05/17/23

Boron ND 0.0100 mg/L

LCS (BGE0480-BS1)

Prepared: 05/15/23 Analyzed: 05/17/23

Boron 4.94 0.0100 mg/L 5.00 98.8 80-120

Duplicate (BGE0480-DUP1)

Source: 2305192-01

Prepared: 05/15/23 Analyzed: 05/17/23

Boron 0.253 0.0100 mg/L 0.274 7.83 20

Matrix Spike (BGE0480-MS1)

Source: 2305192-01

Prepared: 05/15/23 Analyzed: 05/17/23

Boron 4.30 0.0100 mg/L 5.00 0.274 80.5 75-125

Matrix Spike Dup (BGE0480-MSD1)

Source: 2305192-01

Prepared: 05/15/23 Analyzed: 05/17/23

Boron 4.22 0.0100 mg/L 5.00 0.274 78.9 75-125 1.94 25

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGE0442 - General Preparation

Blank (BGE0442-BLK1)

Prepared: 05/12/23 Analyzed: 05/17/23

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BGE0442-BS1)

Prepared: 05/12/23 Analyzed: 05/17/23

Calcium	5.51	0.0500	mg/L wet	5.00	110	70-130
Magnesium	5.40	0.0500	"	5.00	108	70-130
Sodium	5.77	0.0500	"	5.00	115	70-130

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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

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

Summit Scientific

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

Batch BGE0465 - General Preparation

Duplicate (BGE0465-DUP1)		Source: 2305253-05		Prepared: 05/13/23 Analyzed: 05/15/23	
% Solids	88.7		%	87.7	1.12 20

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGE0477 - General Preparation

Blank (BGE0477-BLK1)

Prepared: 05/14/23 Analyzed: 05/15/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGE0477-BS1)

Prepared: 05/14/23 Analyzed: 05/15/23

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BGE0477-DUP1)

Source: 2305253-05

Prepared: 05/14/23 Analyzed: 05/15/23

Specific Conductance (EC) 1.17 0.0100 mmhos/cm 1.17 0.598 20

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGE0476 - General Preparation

LCS (BGE0476-BS1)

Prepared: 05/14/23 Analyzed: 05/15/23

pH	9.02	pH Units	9.18	98.3	95-105
----	------	----------	------	------	--------

Duplicate (BGE0476-DUP1)

Source: 2305253-05

Prepared: 05/14/23 Analyzed: 05/15/23

pH	7.75	pH Units	7.73	0.258	20
----	------	----------	------	-------	----

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/26/23 10:30

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 25, 2023

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

Littleton, CO 80127

RE: PADCO Gulley #1 Flowline Removal

Work Order #2305254

Enclosed are the results of analyses for samples received by Summit Scientific on 05/10/23 18:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G1c-SWn	2305254-01	Soil	05/09/23 18:00	05/10/23 18:00
G1c-SWs	2305254-02	Soil	05/09/23 18:00	05/10/23 18:00
G1c-DE	2305254-03	Soil	05/09/23 18:00	05/10/23 18:00
G1c-DW	2305254-04	Soil	05/09/23 18:00	05/10/23 18:00
G1c2	2305254-05	Soil	05/09/23 18:00	05/10/23 18:00

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

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2305254	

Client: <u>PADCO</u>	Send Data To: Project Manager: <u>Ty Smith</u>	Send Invoice To: Company: <u>PADCO</u>
Address:	E-Mail: <u>ty.smith@esair.com</u>	Project Name/Location: <u>GOLLEY #1</u>
City/State/Zip:		AFE#:
Phone:	Project Name: <u>GOLLEY #1 FLOWLINE REMOVAL</u>	PO/Billing Codes:
Sampler Name: <u>Ty Smith</u>	Project Number:	Contact: <u>DAN RICHMOND</u>

				Preservative				Matrix				Analysis Requested					Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	915 GAO/DTX	915 DRO/ORO	915 pH	915 SAR/EC	915 BORW	
1	GIC-SWn	5/9	18:00	1			X			X			X	X				
2																		
3	GIC-SWs	5/9		1			X			X			X	X				
4																		
5	GIC-DE	5/9		1			X			X			X	X				
6																		
7	GIC-DW	5/9		1			X			X			X	X				
8																		
9	GICZ	5/9		2			X			X			X	X	X	X	X	
10																		
11																		
12																		
13																		
14																		
15																		

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>10.6</u>		Corrected Temperature: <u>5/10/23 12:22</u>	IR gun #: <u>02</u>	HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2369254Client: Padco Client Project ID: Gulley #1 Flowline RemovalShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 10.6 Thermometer # 02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<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 due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<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"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<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"/>	
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"/>	
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, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<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.JS

Custodian Printed Name

5/10/23 1224

Date/Time



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

G1c-SWn
2305254-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0381	95.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	98.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0363	05/11/23	05/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.6	109 %	30-150		"	"	"	"	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

G1c-SWs
2305254-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0378	94.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0390	97.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0363	05/11/23	05/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.7	93.9 %	30-150		"	"	"	"	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

G1c-DE
2305254-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0426	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0385	96.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0363	05/11/23	05/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.43	59.5 %	30-150		"	"	"	"	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

G1c-DW
2305254-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0396	99.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.3 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0363	05/11/23	05/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.11	72.9 %	30-150		"	"	"	"	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

G1c2
2305254-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0405	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0363	05/11/23	05/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.37	59.0 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

G1c2
2305254-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.467	0.0100	mg/L	1	BGE0480	05/15/23	05/17/23	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	242	0.0571	mg/L dry	1	BGE0442	05/12/23	05/17/23	EPA 6020B	
Magnesium	8.23	0.0571	"	"	"	"	"	"	
Sodium	70.4	0.0571	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.21	0.00100	units	1	BGE0605	05/17/23	05/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BGE0465	05/13/23	05/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.386	0.0100	mmhos/cm	1	BGE0477	05/14/23	05/15/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

G1c2
2305254-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/09/23 18:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.43			pH Units	1	BGE0476	05/14/23	05/15/23	EPA 9045D	

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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

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 BGE0360 - EPA 5030 Soil MS

Blank (BGE0360-BLK1)

Prepared: 05/11/23 Analyzed: 05/13/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0439		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

LCS (BGE0360-BS1)

Prepared: 05/11/23 Analyzed: 05/13/23

Benzene	0.0722	0.0020	mg/kg	0.100		72.2	70-130			
Toluene	0.0894	0.0050	"	0.100		89.4	70-130			
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130			
m,p-Xylene	0.216	0.010	"	0.200		108	70-130			
o-Xylene	0.104	0.0050	"	0.100		104	70-130			
1,2,4-Trimethylbenzene	0.115	0.0050	"	0.100		115	70-130			
1,3,5-Trimethylbenzene	0.122	0.0050	"	0.100		122	70-130			
Naphthalene	0.0749	0.0038	"	0.100		74.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0329		"	0.0400		82.2	50-150			
Surrogate: Toluene-d8	0.0376		"	0.0400		94.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.0	50-150			

Matrix Spike (BGE0360-MS1)

Source: 2305253-01

Prepared: 05/11/23 Analyzed: 05/13/23

Benzene	0.0729	0.0020	mg/kg	0.100	ND	72.9	70-130			
Toluene	0.0942	0.0050	"	0.100	ND	94.2	70-130			
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130			
m,p-Xylene	0.224	0.010	"	0.200	ND	112	70-130			
o-Xylene	0.103	0.0050	"	0.100	ND	103	70-130			
1,2,4-Trimethylbenzene	0.120	0.0050	"	0.100	ND	120	70-130			
1,3,5-Trimethylbenzene	0.124	0.0050	"	0.100	ND	124	70-130			
Naphthalene	0.0760	0.0038	"	0.100	ND	76.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0344		"	0.0400		86.0	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	50-150			

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

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 BGE0360 - EPA 5030 Soil MS

Matrix Spike Dup (BGE0360-MSD1)	Source: 2305253-01			Prepared: 05/11/23 Analyzed: 05/13/23						
Benzene	0.0743	0.0020	mg/kg	0.100	ND	74.3	70-130	1.83	30	
Toluene	0.0944	0.0050	"	0.100	ND	94.4	70-130	0.191	30	
Ethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130	2.94	30	
m,p-Xylene	0.229	0.010	"	0.200	ND	115	70-130	2.17	30	
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130	1.30	30	
1,2,4-Trimethylbenzene	0.127	0.0050	"	0.100	ND	127	70-130	5.84	30	
1,3,5-Trimethylbenzene	0.128	0.0050	"	0.100	ND	128	70-130	3.43	30	
Naphthalene	0.0798	0.0038	"	0.100	ND	79.8	70-130	4.85	30	
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.6	50-150			
Surrogate: Toluene-d8	0.0380		"	0.0400		94.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		102	50-150			

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGE0363 - EPA 3550A

Blank (BGE0363-BLK1)

Prepared & Analyzed: 05/11/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	14.2		"	12.5	113	30-150				

LCS (BGE0363-BS1)

Prepared & Analyzed: 05/11/23

C10-C28 (DRO)	546	50	mg/kg	500	109	70-130				
Surrogate: o-Terphenyl	14.3		"	12.5	114	30-150				

Matrix Spike (BGE0363-MS1)

Source: 2305253-01

Prepared & Analyzed: 05/11/23

C10-C28 (DRO)	716	50	mg/kg	500	16.9	140	70-130			S-02
Surrogate: o-Terphenyl	14.6		"	12.5	117	30-150				

Matrix Spike Dup (BGE0363-MSD1)

Source: 2305253-01

Prepared & Analyzed: 05/11/23

C10-C28 (DRO)	702	50	mg/kg	500	16.9	137	70-130	1.95	20	S-02
Surrogate: o-Terphenyl	14.2		"	12.5	114	30-150				

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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BGE0480 - EPA 3050B

Blank (BGE0480-BLK1)

Prepared: 05/15/23 Analyzed: 05/17/23

Boron ND 0.0100 mg/L

LCS (BGE0480-BS1)

Prepared: 05/15/23 Analyzed: 05/17/23

Boron 4.94 0.0100 mg/L 5.00 98.8 80-120

Duplicate (BGE0480-DUP1)

Source: 2305192-01

Prepared: 05/15/23 Analyzed: 05/17/23

Boron 0.253 0.0100 mg/L 0.274 7.83 20

Matrix Spike (BGE0480-MS1)

Source: 2305192-01

Prepared: 05/15/23 Analyzed: 05/17/23

Boron 4.30 0.0100 mg/L 5.00 0.274 80.5 75-125

Matrix Spike Dup (BGE0480-MSD1)

Source: 2305192-01

Prepared: 05/15/23 Analyzed: 05/17/23

Boron 4.22 0.0100 mg/L 5.00 0.274 78.9 75-125 1.94 25

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BGE0442 - General Preparation

Blank (BGE0442-BLK1)

Prepared: 05/12/23 Analyzed: 05/17/23

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BGE0442-BS1)

Prepared: 05/12/23 Analyzed: 05/17/23

Calcium	5.51	0.0500	mg/L wet	5.00	110	70-130
Magnesium	5.40	0.0500	"	5.00	108	70-130
Sodium	5.77	0.0500	"	5.00	115	70-130

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

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

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

Batch BGE0465 - General Preparation

Duplicate (BGE0465-DUP1)		Source: 2305253-05			Prepared: 05/13/23 Analyzed: 05/15/23					
% Solids	88.7		%		87.7		1.12		20	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BGE0477 - General Preparation

Blank (BGE0477-BLK1)

Prepared: 05/14/23 Analyzed: 05/15/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGE0477-BS1)

Prepared: 05/14/23 Analyzed: 05/15/23

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BGE0477-DUP1)

Source: 2305253-05

Prepared: 05/14/23 Analyzed: 05/15/23

Specific Conductance (EC) 1.17 0.0100 mmhos/cm 1.17 0.598 20

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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BGE0476 - General Preparation

LCS (BGE0476-BS1)

Prepared: 05/14/23 Analyzed: 05/15/23

pH	9.02	pH Units	9.18	98.3	95-105
----	------	----------	------	------	--------

Duplicate (BGE0476-DUP1)

Source: 2305253-05

Prepared: 05/14/23 Analyzed: 05/15/23

pH	7.75	pH Units	7.73	0.258	20
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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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:22

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 25, 2023

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

Littleton, CO 80127

RE: PADCO Gulley #1 Flowline Removal

Work Order #2305253

Enclosed are the results of analyses for samples received by Summit Scientific on 05/10/23 12:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G1b-SWn	2305253-01	Soil	05/09/23 15:45	05/10/23 12:25
G1b-SWs	2305253-02	Soil	05/09/23 15:45	05/10/23 12:25
G1b-DE	2305253-03	Soil	05/09/23 15:45	05/10/23 12:25
G1b-DW	2305253-04	Soil	05/09/23 15:45	05/10/23 12:25
G1b2	2305253-05	Soil	05/09/23 15:45	05/10/23 12:25

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

4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page <u>1</u> of <u>1</u>
2309253	

Client: <u>PADCO</u>	Send Data To: Project Manager: <u>Ty L. Smith</u>	Send Invoice To: Company: <u>PADCO</u>
Address:	E-Mail: <u>ty.smith@lesair.com</u>	Project Name/Location: <u>GULLEY #1</u>
City/State/Zip:		AFE#:
Phone:	Project Name: <u>GULLEY #1 FLOWLINE REMOVAL</u>	PO/Billing Codes:
Sampler Name: <u>Ty Smith</u>	Project Number:	Contact: <u>DAN RICHMOND</u>

				Preservative				Matrix				Analysis Requested					Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 GRO/STD	915 DRO/STD	915 pH	915 SML	915 BARON
1	G1b-SWn	5/9	15:45	1			X			X			X	X			
2																	
3	G1b-SWS			1			X			X			X	X			
4																	
5	G1b-DE			1			X			X			X	X			
6																	
7	G1b-DW			1			X			X			X	X			
8																	
9	G1b2			2			X			X			X	X	X	X	X
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished by: <u>Ty Smith</u>	Date/Time: <u>5/9 12:22</u>	Received by: <u>Scott Shady</u>	Date/Time: <u>5/10/23 12:25</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by: <u>Ty Smith</u>	Date/Time: <u>5/10 12:22</u>	Received by: <u>Scott Shady</u>	Date/Time: <u>5/10/23 12:25</u>	Standard	Field Turb.	
Temperature Upon Receipt: <u>10.6</u>	Corrected Temperature	IR gun #: <u>02</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist


S2 Work Order# 2305253Client: Padco Client Project ID: Gully #1 Flowline RemovalShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 10.6 Thermometer # 02

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<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 due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<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"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<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"/>	
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"/>	
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, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<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.

 Custodian Printed Name

5/10/23 1223
 Date/Time



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

G1b-SWn
2305253-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0363	05/11/23	05/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	16.6	133 %	30-150		"	"	"	"	

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.



Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

G1b-SWs
2305253-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0424	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0363	05/11/23	05/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	16.4	131 %	30-150		"	"	"	"	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

G1b-DE
2305253-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0363	05/11/23	05/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	16.6	133 %	30-150		"	"	"	"	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

G1b-DW
2305253-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0419	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0363	05/11/23	05/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	15.2	121 %	30-150		"	"	"	"	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

G1b2
2305253-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGE0360	05/11/23	05/13/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0369	92.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0388	97.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGE0363	05/11/23	05/11/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.5	116 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

G1b2
2305253-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.321	0.0100	mg/L	1	BGE0480	05/15/23	05/17/23	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	217	0.0570	mg/L dry	1	BGE0442	05/12/23	05/17/23	EPA 6020B	
Magnesium	17.0	0.0570	"	"	"	"	"	"	
Sodium	178	0.0570	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.13	0.00100	units	1	BGE0605	05/17/23	05/17/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BGE0465	05/13/23	05/15/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.17	0.0100	mmhos/cm	1	BGE0477	05/14/23	05/15/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

G1b2
2305253-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **05/09/23 15:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.73			pH Units	1	BGE0476	05/14/23	05/15/23	EPA 9045D	

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

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 BGE0360 - EPA 5030 Soil MS

Blank (BGE0360-BLK1)

Prepared: 05/11/23 Analyzed: 05/13/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0439		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0386		"	0.0400		96.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0412		"	0.0400		103	50-150			

LCS (BGE0360-BS1)

Prepared: 05/11/23 Analyzed: 05/13/23

Benzene	0.0722	0.0020	mg/kg	0.100		72.2	70-130			
Toluene	0.0894	0.0050	"	0.100		89.4	70-130			
Ethylbenzene	0.109	0.0050	"	0.100		109	70-130			
m,p-Xylene	0.216	0.010	"	0.200		108	70-130			
o-Xylene	0.104	0.0050	"	0.100		104	70-130			
1,2,4-Trimethylbenzene	0.115	0.0050	"	0.100		115	70-130			
1,3,5-Trimethylbenzene	0.122	0.0050	"	0.100		122	70-130			
Naphthalene	0.0749	0.0038	"	0.100		74.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0329		"	0.0400		82.2	50-150			
Surrogate: Toluene-d8	0.0376		"	0.0400		94.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.0	50-150			

Matrix Spike (BGE0360-MS1)

Source: 2305253-01

Prepared: 05/11/23 Analyzed: 05/13/23

Benzene	0.0729	0.0020	mg/kg	0.100	ND	72.9	70-130			
Toluene	0.0942	0.0050	"	0.100	ND	94.2	70-130			
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130			
m,p-Xylene	0.224	0.010	"	0.200	ND	112	70-130			
o-Xylene	0.103	0.0050	"	0.100	ND	103	70-130			
1,2,4-Trimethylbenzene	0.120	0.0050	"	0.100	ND	120	70-130			
1,3,5-Trimethylbenzene	0.124	0.0050	"	0.100	ND	124	70-130			
Naphthalene	0.0760	0.0038	"	0.100	ND	76.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0344		"	0.0400		86.0	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	50-150			

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal
Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

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 BGE0360 - EPA 5030 Soil MS

Matrix Spike Dup (BGE0360-MSD1)	Source: 2305253-01			Prepared: 05/11/23 Analyzed: 05/13/23						
Benzene	0.0743	0.0020	mg/kg	0.100	ND	74.3	70-130	1.83	30	
Toluene	0.0944	0.0050	"	0.100	ND	94.4	70-130	0.191	30	
Ethylbenzene	0.113	0.0050	"	0.100	ND	113	70-130	2.94	30	
m,p-Xylene	0.229	0.010	"	0.200	ND	115	70-130	2.17	30	
o-Xylene	0.104	0.0050	"	0.100	ND	104	70-130	1.30	30	
1,2,4-Trimethylbenzene	0.127	0.0050	"	0.100	ND	127	70-130	5.84	30	
1,3,5-Trimethylbenzene	0.128	0.0050	"	0.100	ND	128	70-130	3.43	30	
Naphthalene	0.0798	0.0038	"	0.100	ND	79.8	70-130	4.85	30	
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.6	50-150			
Surrogate: Toluene-d8	0.0380		"	0.0400		94.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		102	50-150			

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGE0363 - EPA 3550A

Blank (BGE0363-BLK1)

Prepared & Analyzed: 05/11/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	14.2		"	12.5	113		30-150			

LCS (BGE0363-BS1)

Prepared & Analyzed: 05/11/23

C10-C28 (DRO)	546	50	mg/kg	500	109		70-130			
Surrogate: o-Terphenyl	14.3		"	12.5	114		30-150			

Matrix Spike (BGE0363-MS1)

Source: 2305253-01

Prepared & Analyzed: 05/11/23

C10-C28 (DRO)	716	50	mg/kg	500	16.9	140	70-130			S-02
Surrogate: o-Terphenyl	14.6		"	12.5	117		30-150			

Matrix Spike Dup (BGE0363-MSD1)

Source: 2305253-01

Prepared & Analyzed: 05/11/23

C10-C28 (DRO)	702	50	mg/kg	500	16.9	137	70-130	1.95	20	S-02
Surrogate: o-Terphenyl	14.2		"	12.5	114		30-150			

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BGE0480 - EPA 3050B

Blank (BGE0480-BLK1)

Prepared: 05/15/23 Analyzed: 05/17/23

Boron ND 0.0100 mg/L

LCS (BGE0480-BS1)

Prepared: 05/15/23 Analyzed: 05/17/23

Boron 4.94 0.0100 mg/L 5.00 98.8 80-120

Duplicate (BGE0480-DUP1)

Source: 2305192-01

Prepared: 05/15/23 Analyzed: 05/17/23

Boron 0.253 0.0100 mg/L 0.274 7.83 20

Matrix Spike (BGE0480-MS1)

Source: 2305192-01

Prepared: 05/15/23 Analyzed: 05/17/23

Boron 4.30 0.0100 mg/L 5.00 0.274 80.5 75-125

Matrix Spike Dup (BGE0480-MSD1)

Source: 2305192-01

Prepared: 05/15/23 Analyzed: 05/17/23

Boron 4.22 0.0100 mg/L 5.00 0.274 78.9 75-125 1.94 25

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BGE0442 - General Preparation

Blank (BGE0442-BLK1)

Prepared: 05/12/23 Analyzed: 05/17/23

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BGE0442-BS1)

Prepared: 05/12/23 Analyzed: 05/17/23

Calcium	5.51	0.0500	mg/L wet	5.00	110	70-130
Magnesium	5.40	0.0500	"	5.00	108	70-130
Sodium	5.77	0.0500	"	5.00	115	70-130

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

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

Summit Scientific

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

Batch BGE0465 - General Preparation

Duplicate (BGE0465-DUP1)		Source: 2305253-05		Prepared: 05/13/23 Analyzed: 05/15/23	
% Solids	88.7		%	87.7	1.12 20

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGE0477 - General Preparation

Blank (BGE0477-BLK1)

Prepared: 05/14/23 Analyzed: 05/15/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGE0477-BS1)

Prepared: 05/14/23 Analyzed: 05/15/23

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BGE0477-DUP1)

Source: 2305253-05

Prepared: 05/14/23 Analyzed: 05/15/23

Specific Conductance (EC) 1.17 0.0100 mmhos/cm 1.17 0.598 20

Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGE0476 - General Preparation

LCS (BGE0476-BS1)

Prepared: 05/14/23 Analyzed: 05/15/23

pH	9.02	pH Units	9.18	98.3	95-105
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Duplicate (BGE0476-DUP1)

Source: 2305253-05

Prepared: 05/14/23 Analyzed: 05/15/23

pH	7.75	pH Units	7.73	0.258	20
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Summit Scientific

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Lesair Environmental
11786 Shaffer Place Suite 210
Littleton CO, 80127

Project: PADCO Gulley #1 Flowline Removal

Project Number: [none]
Project Manager: Ty Smith

Reported:
05/25/23 07:14

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
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