

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 23, 2025

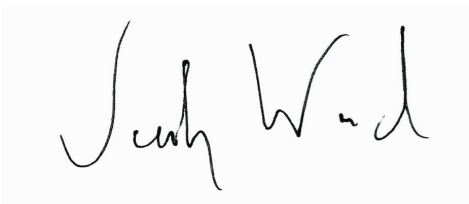
Ty Smith  
Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton, CO 80127

RE: RU 5-4

Work Order #2506033

Enclosed are the results of analyses for samples received by Summit Scientific on 06/12/25 10:32. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury  
President



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4  
Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2 C-a	2506033-01	Soil	06/11/25 11:30	06/12/25 10:32
2 N-a	2506033-02	Soil	06/11/25 11:30	06/12/25 10:32
2 E-a	2506033-03	Soil	06/11/25 11:30	06/12/25 10:32
2 W-a	2506033-04	Soil	06/11/25 11:30	06/12/25 10:32
2 S-a	2506033-05	Soil	06/11/25 11:30	06/12/25 10:32
BGD-1	2506033-06	Soil	06/11/25 11:30	06/12/25 10:32
BGD-2	2506033-07	Soil	06/11/25 11:50	06/12/25 10:32

### Case Narrative

Client requested 8270E SIM PAH No Naph be added to samples 2C-a, 2N-a, 2E-a, 2W-a, 2S-a on 06/17/2025.  
This report includes those results.

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.*



**Send Data To:**

Project Manager:	Ty Smith
Email:	TySmith@Lesair.com
Phone Number:	303-903-4443
Company:	Lesair Environmental, Inc.
Address:	11786 Shaffer Place, Unit 210
City/State/Zip:	Littleton, CO 80127

**Send Invoice To:** 2506033

Contact:	Doug Storts
Email:	pds@willifordenergy.com
Phone Number:	918-495-2710
Company:	Williford Energy (WEC)
Address:	6100 S Yale Ave STE 2000
City/State/Zip:	Tulsa, OK 74136

Project Name:	RU 5-4	Sample Location:	Rhoades Unit 5-4
Project Number:		Sampled By:	Ty Smith

Sample Information					Matrix*	Preservation						Analysis													
Sample Description	Date Sampled	Time Sampled	No. of Containers	G=Grab, C=Composite		HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	Methanol	None	Other (Specify)	9/15 GRD/BX+	9/15 DRD/DRD	9/15 PH	9/15 SAR/EC	9/15 BORON	9/15 METALS							
ZC-a	6/11/2025	11:30	2	G	SOIL						X		X	X	X	X	X	X	X						
ZN-a			2	G							X		X	X	X	X	X	X	X						
ZK-a			2	G							X		X	X	X	X	X	X	X						
ZW-a			2	G							X		X	X	X	X	X	X	X						
ZS-a			2	G							X		X	X	X	X	X	X	X						
BGD-1		11:30	2	G	SOIL						X		X	X	X	X	X	X	X						
BGD-2		11:50	2	G	SOIL						X		X	X	X	X	X	X	X						

TAT (Business Days)	NOTES
48 HR ON GRAB/DRD STANDARD ON METALS	

Temperature Received	Temperature Corrected	IR Gun No.
2.5		2

Relinquished By:	<i>Ty Smith</i>	Date:	6/12/25	Time:	13:49
Received By:	<i>Curt Smith</i>	Date:	6/12/25	Time:	13:49

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

S<sub>2</sub>

S2 Work Order# 2506033

Sample Receipt Checklist

Client: LeSair environmental Client Project ID: RW 5-4

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

Matrix (Circle all that apply) Air  Soil  Water  Other  Temp (°C) 2.5 Thermometer # 02

Bottle ware (Circle all that apply) Glass Jar Voa/Amber/Poly/Other

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	X			on ice
If custody seals are present, are they intact? <sup>(1)</sup>			X	
Are samples due within 48 hours present?	X			48 hr
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD, Total Residual Chlorine (TRC)			X	DB to 12 June 05
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	X			
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	X			
Were all samples received intact? <sup>(1)</sup>	X			
Was adequate sample volume provided? <sup>(1)</sup>	X			
Were samples provided in appropriate bottleware?	X			
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	X			
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	X			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>			X	
Are any samples/bottles preserved (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.			X	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.			X	
If dissolved metals are requested, were samples field filtered?			X	
Will any samples be performed outside of Summit Scientific? Note analysis in comments column			X	

Additional Comments (if any):

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

David Buigas 12 June 05  
Custodian Printed Name Date/Time



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4  
Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 C-a**  
**2506033-01 (Soil)**

Summit Scientific

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIF0173	06/12/25	06/12/25	EPA 8260B	
<b>Toluene</b>	<b>0.0067</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.018</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.27</b>	0.0050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.096</b>	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>2.4</b>	0.50	"	"	"	"	"	"	

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0445	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>1400</b>	50	mg/kg	1	BIF0174	06/12/25	06/12/25	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>240</b>	50	"	"	"	"	"	"	

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.15	65.2 %	50-140		"	"	"	"	

**PAH by EPA Method 8270E SIM**

**O-02**

Summit Scientific

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11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 C-a**  
**2506033-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270E SIM**

**O-02**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Acenaphthene</b>	<b>0.0629</b>	0.00500	mg/kg	1	BIF0234	06/18/25	06/19/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0257</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.148</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>1.11</b>	0.250	"	50	"	"	06/19/25	"	
<b>2-Methylnaphthalene</b>	<b>1.65</b>	0.250	"	"	"	"	"	"	

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0288	86.4 %	40-140		"	"	06/19/25	"	
Surrogate: Fluoranthene-d10	0.0323	96.8 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0178	06/12/25	06/16/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 C-a**  
**2506033-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	44.9	0.200	mg/kg dry	1	BIF0175	06/12/25	06/13/25	EPA 6020B	
Barium	110	0.400	"	"	"	"	"	"	
Cadmium	2.40	0.200	"	"	"	"	"	"	
Copper	47.0	0.400	"	"	"	"	"	"	
Lead	28.0	0.200	"	"	"	"	"	"	
Nickel	47.9	0.400	"	"	"	"	"	"	
Silver	2.16	0.0200	"	"	"	"	"	"	
Zinc	65.2	0.400	"	"	"	"	"	"	
Selenium	4.60	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by HACH M8023**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0187	06/13/25	06/13/25	Hach 8000	

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

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.1	0.0500	mg/L dry	1	BIF0176	06/12/25	06/13/25	EPA 6020B	
Magnesium	13.5	0.0500	"	"	"	"	"	"	
Sodium	14.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.466	0.00100	units	1	BIF0203	06/16/25	06/16/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: RU 5-4  
 Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 06/23/25 09:32

**2 C-a**  
**2506033-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

<b>% Solids</b>	<b>87.7</b>	<b>%</b>	<b>1</b>	<b>BIF0183</b>	<b>06/13/25</b>	<b>06/13/25</b>	<b>Calculation</b>
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/11/25 11:30**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>2.41</b>	<b>0.0100</b>	<b>mmhos/cm</b>	<b>1</b>	<b>BIF0179</b>	<b>06/12/25</b>	<b>06/13/25</b>	<b>EPA 120.1</b>	

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

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.81</b>		<b>pH Units</b>	<b>1</b>	<b>BIF0177</b>	<b>06/12/25</b>	<b>06/13/25</b>	<b>EPA 9045D</b>	

Summit Scientific



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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4  
Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 N-a**  
**2506033-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIF0173	06/12/25	06/12/25	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		"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.023</b>	0.0038		"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>5.3</b>	0.50		"	"	"	"	"	"	

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0422	105 %		50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0385	96.3 %		50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0404	101 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>1500</b>	50		mg/kg	1	BIF0174	06/12/25	06/12/25	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>270</b>	50		"	"	"	"	"	"	

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: o-Terphenyl</i>	8.48	67.8 %		50-140		"	"	"	"	

**PAH by EPA Method 8270E SIM**

**O-02**

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 N-a**  
**2506033-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270E SIM**

**O-02**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0234	06/18/25	06/19/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0106</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0640</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0189</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0243	72.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0269	80.8 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0178	06/12/25	06/16/25	EPA 6020B	

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

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 N-a**  
**2506033-02 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	62.1	0.0500	mg/L dry	1	BIF0176	06/12/25	06/13/25	EPA 6020B	
Magnesium	4.96	0.0500	"	"	"	"	"	"	
Sodium	398	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.1	0.00100	units	1	BIF0203	06/16/25	06/16/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.6		%	1	BIF0183	06/13/25	06/13/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.92	0.0100	mmhos/cm	1	BIF0179	06/12/25	06/13/25	EPA 120.1	

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

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.58		pH Units	1	BIF0177	06/12/25	06/13/25	EPA 9045D	

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4  
Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 E-a**  
**2506033-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

**R-05**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	2.0	mg/kg	1000	BIF0173	06/12/25	06/13/25	EPA 8260B	
<b>Toluene</b>	<b>19</b>	0.50	"	100	"	"	06/12/25	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	1000	"	"	06/13/25	"	
<b>1,2,4-Trimethylbenzene</b>	<b>99</b>	5.0	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>39</b>	5.0	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>21</b>	0.38	"	100	"	"	06/12/25	"	
<b>Gasoline Range Hydrocarbons</b>	<b>780</b>	50	"	"	"	"	"	"	

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0405	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0419	105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>C10-C28 (DRO)</b>	<b>4100</b>	50	mg/kg	1	BIF0174	06/12/25	06/12/25	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>180</b>	50	"	"	"	"	"	"	

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	8.22	65.8 %	50-140		"	"	"	"	

**PAH by EPA Method 8270E SIM**

**O-02**

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4  
Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 E-a**  
**2506033-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270E SIM**

**O-02**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Acenaphthene</b>	<b>0.0757</b>	0.00500	mg/kg	1	BIF0234	06/18/25	06/19/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0802</b>	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0593</b>	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.0438</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0847</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.172</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>2.47</b>	0.250	"	50	"	"	06/19/25	"	
<b>2-Methylnaphthalene</b>	<b>1.24</b>	0.250	"	"	"	"	"	"	

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0544	163 %	40-140	"	"	"	06/19/25	"	S-02
Surrogate: Fluoranthene-d10	0.0200	60.1 %	40-140	"	"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0178	06/12/25	06/16/25	EPA 6020B	

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

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4  
Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 E-a**  
**2506033-03 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	145	0.0500	mg/L dry	1	BIF0176	06/12/25	06/13/25	EPA 6020B	
Magnesium	9.55	0.0500	"	"	"	"	"	"	
Sodium	42.1	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.914	0.00100	units	1	BIF0203	06/16/25	06/16/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.3		%	1	BIF0183	06/13/25	06/13/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.338	0.0100	mmhos/cm	1	BIF0179	06/12/25	06/13/25	EPA 120.1	

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

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.82		pH Units	1	BIF0177	06/12/25	06/13/25	EPA 9045D	

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 W-a**  
**2506033-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIF0173	06/12/25	06/13/25	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		"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>1.2</b>	<b>0.50</b>		"	"	"	"	"	"	

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.6 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIF0174	06/12/25	06/13/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.5	83.7 %		50-140		"	"	"	"	

**PAH by EPA Method 8270E SIM**

**O-02**

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4  
Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 W-a**  
**2506033-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270E SIM**

**O-02**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0234	06/18/25	06/19/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0226	67.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0245	73.5 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0178	06/12/25	06/16/25	EPA 6020B	

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

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 W-a**  
**2506033-04 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	180	0.0500	mg/L dry	1	BIF0176	06/12/25	06/13/25	EPA 6020B	
Magnesium	4.38	0.0500	"	"	"	"	"	"	
Sodium	457	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.20	0.00100	units	1	BIF0203	06/16/25	06/16/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.2		%	1	BIF0183	06/13/25	06/13/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.03	0.0100	mmhos/cm	1	BIF0179	06/12/25	06/13/25	EPA 120.1	

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

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.74		pH Units	1	BIF0177	06/12/25	06/13/25	EPA 9045D	

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 S-a**  
**2506033-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BIF0173	06/12/25	06/13/25	EPA 8260B	
<b>Toluene</b>	<b>0.0090</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.015</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.074</b>	0.0050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.029</b>	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.16</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.76</b>	0.50	"	"	"	"	"	"	

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0420	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>860</b>	50	mg/kg	1	BIF0174	06/12/25	06/12/25	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>270</b>	50	"	"	"	"	"	"	

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.70	69.6 %	50-140		"	"	"	"	

**PAH by EPA Method 8270E SIM**

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4  
Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 S-a**  
**2506033-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270E SIM**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIF0234	06/18/25	06/19/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Fluoranthene</b>	<b>0.00769</b>	0.00500	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0702</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.336</b>	0.0500	"	10	"	"	06/19/25	"	R-01
<b>2-Methylnaphthalene</b>	<b>0.197</b>	0.0500	"	"	"	"	"	"	R-01

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0270	81.1 %	40-140		"	"	06/19/25	"	
Surrogate: Fluoranthene-d10	0.0288	86.3 %	40-140		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BIF0178	06/12/25	06/16/25	EPA 6020B	

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

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**2 S-a**  
**2506033-05 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2010	0.0500	mg/L dry	1	BIF0176	06/12/25	06/13/25	EPA 6020B	
Magnesium	35.8	0.0500	"	"	"	"	"	"	
Sodium	568	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.44	0.00100	units	1	BIF0203	06/16/25	06/16/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.0		%	1	BIF0183	06/13/25	06/13/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.23	0.0100	mmhos/cm	1	BIF0179	06/12/25	06/13/25	EPA 120.1	

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

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BIF0177	06/12/25	06/13/25	EPA 9045D	

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**BGD-1**  
**2506033-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L dry	1	BIF0178	06/12/25	06/16/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.77</b>	0.200	mg/kg dry	1	BIF0175	06/12/25	06/13/25	EPA 6020B	
<b>Barium</b>	<b>75.7</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>4.85</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>4.91</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>4.89</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>20.5</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by HACH M8023**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0187	06/13/25	06/13/25	Hach 8000	

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

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>19.3</b>	0.0500	mg/L dry	1	BIF0176	06/12/25	06/13/25	EPA 6020B	
<b>Magnesium</b>	<b>13.8</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>0.659</b>	0.0500	"	"	"	"	"	"	

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: RU 5-4  
 Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 06/23/25 09:32

**BGD-1**  
**2506033-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0280	0.00100	units	1	BIF0203	06/16/25	06/16/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.7		%	1	BIF0183	06/13/25	06/13/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.204	0.0100	mmhos/cm	1	BIF0179	06/12/25	06/13/25	EPA 120.1	

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

Date Sampled: **06/11/25 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.94		pH Units	1	BIF0177	06/12/25	06/13/25	EPA 9045D	

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4  
Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**BGD-2**  
**2506033-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **06/11/25 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L dry	1	BIF0178	06/12/25	06/16/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/11/25 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.36	0.200	mg/kg dry	1	BIF0175	06/12/25	06/13/25	EPA 6020B	
Barium	182	0.400	"	"	"	"	"	"	
Cadmium	0.235	0.200	"	"	"	"	"	"	
Copper	8.02	0.400	"	"	"	"	"	"	
Lead	9.43	0.200	"	"	"	"	"	"	
Nickel	9.57	0.400	"	"	"	"	"	"	
Silver	0.0489	0.0200	"	"	"	"	"	"	
Zinc	32.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by HACH M8023**

Date Sampled: **06/11/25 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIF0187	06/13/25	06/13/25	Hach 8000	

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

Date Sampled: **06/11/25 11:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	336	0.0500	mg/L dry	1	BIF0176	06/12/25	06/13/25	EPA 6020B	
Magnesium	57.6	0.0500	"	"	"	"	"	"	
Sodium	1.48	0.0500	"	"	"	"	"	"	

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: RU 5-4  
 Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 06/23/25 09:32

**BGD-2**  
**2506033-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **06/11/25 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0196	0.00100	units	1	BIF0203	06/16/25	06/16/25	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **06/11/25 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.3		%	1	BIF0183	06/13/25	06/13/25	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **06/11/25 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.502	0.0100	mmhos/cm	1	BIF0179	06/12/25	06/13/25	EPA 120.1	

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

Date Sampled: **06/11/25 11:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.03		pH Units	1	BIF0177	06/12/25	06/13/25	EPA 9045D	

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BIF0173 - EPA 5030 Soil MS

##### Blank (BIF0173-BLK1)

Prepared: 06/12/25 Analyzed: 06/13/25

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0390</i>		<i>"</i>	<i>0.0400</i>		<i>97.4</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.5</i>	<i>50-150</i>			

##### LCS (BIF0173-BS1)

Prepared: 06/12/25 Analyzed: 06/13/25

Benzene	0.0994	0.0020	mg/kg	0.100		99.4	70-130			
Toluene	0.0964	0.0050	"	0.100		96.4	70-130			
Ethylbenzene	0.0890	0.0050	"	0.100		89.0	70-130			
m,p-Xylene	0.174	0.010	"	0.200		87.0	70-130			
o-Xylene	0.0958	0.0050	"	0.100		95.8	70-130			
1,2,4-Trimethylbenzene	0.0881	0.0050	"	0.100		88.1	70-130			
1,3,5-Trimethylbenzene	0.0870	0.0050	"	0.100		87.0	70-130			
Naphthalene	0.0894	0.0038	"	0.100		89.4	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0374</i>		<i>"</i>	<i>0.0400</i>		<i>93.4</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0390</i>		<i>"</i>	<i>0.0400</i>		<i>97.6</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.5</i>	<i>50-150</i>			

##### Matrix Spike (BIF0173-MS1)

Source: 2506033-01

Prepared: 06/12/25 Analyzed: 06/13/25

Benzene	0.101	0.0020	mg/kg	0.100	ND	101	70-130			
Toluene	0.113	0.0050	"	0.100	0.00669	106	70-130			
Ethylbenzene	0.0863	0.0050	"	0.100	ND	86.3	70-130			
m,p-Xylene	0.177	0.010	"	0.200	0.00990	83.4	70-130			
o-Xylene	0.103	0.0050	"	0.100	0.00804	94.8	70-130			
1,2,4-Trimethylbenzene	0.714	0.0050	"	0.100	0.275	439	70-130			QM-05
1,3,5-Trimethylbenzene	0.219	0.0050	"	0.100	0.0961	123	70-130			
Naphthalene	ND	0.0038	"	0.100	ND		70-130			QM-05
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0413</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.2</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>50-150</i>			

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 06/23/25 09:32

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BIF0173 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BIF0173-MSD1)</b>	<b>Source: 2506033-01</b>			Prepared: 06/12/25 Analyzed: 06/13/25							
Benzene	0.103	0.0020	mg/kg	0.100	ND	103	70-130	1.47	30		
Toluene	0.105	0.0050	"	0.100	0.00669	98.6	70-130	7.01	30		
Ethylbenzene	0.0880	0.0050	"	0.100	ND	88.0	70-130	1.86	30		
m,p-Xylene	0.179	0.010	"	0.200	0.00990	84.4	70-130	1.13	30		
o-Xylene	0.101	0.0050	"	0.100	0.00804	93.4	70-130	1.38	30		
1,2,4-Trimethylbenzene	0.581	0.0050	"	0.100	0.275	306	70-130	20.6	30		QM-05
1,3,5-Trimethylbenzene	0.188	0.0050	"	0.100	0.0961	91.6	70-130	15.6	30		
Naphthalene	ND	0.0038	"	0.100	ND		70-130		30		QM-05
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0378</i>		<i>"</i>	<i>0.0400</i>		<i>94.4</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>				

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11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BIF0174 - EPA 3550A**

**Blank (BIF0174-BLK1)**

Prepared: 06/12/25 Analyzed: 06/13/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	10.6		"	12.5		84.4	50-140				

**LCS (BIF0174-BS1)**

Prepared: 06/12/25 Analyzed: 06/13/25

C10-C28 (DRO)	520	50	mg/kg	500		104	50-140				
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.7	50-140				

**Matrix Spike (BIF0174-MS1)**

Source: 2506033-01

Prepared: 06/12/25 Analyzed: 06/13/25

C10-C28 (DRO)	1740	50	mg/kg	500	1370	74.5	50-140				
Surrogate: <i>o</i> -Terphenyl	8.98		"	12.5		71.8	50-140				

**Matrix Spike Dup (BIF0174-MSD1)**

Source: 2506033-01

Prepared: 06/12/25 Analyzed: 06/13/25

C10-C28 (DRO)	2360	50	mg/kg	500	1370	199	50-140	30.2	20		QM-05
Surrogate: <i>o</i> -Terphenyl	10.5		"	12.5		83.9	50-140				

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11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**PAH by EPA Method 8270E SIM - Quality Control**

**Summit Scientific**

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

**Batch BIF0234 - EPA 5030 Soil MS**

**Blank (BIF0234-BLK1)**

Prepared & Analyzed: 06/18/25

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.00500	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.00500	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.00500	"								
2-Methylnaphthalene	ND	0.00500	"								
Surrogate: 2-Methylnaphthalene-d10	0.0232		"	0.0333	69.6	40-140					
Surrogate: Fluoranthene-d10	0.0232		"	0.0333	69.5	40-140					

**LCS (BIF0234-BS1)**

Prepared & Analyzed: 06/18/25

Acenaphthene	0.0235	0.00500	mg/kg	0.0333	70.6	40-140					
Anthracene	0.0249	0.00500	"	0.0333	74.6	40-140					
Benzo (a) anthracene	0.0243	0.00500	"	0.0333	73.0	40-140					
Benzo (a) pyrene	0.0220	0.00500	"	0.0333	65.9	40-140					
Benzo (b) fluoranthene	0.0240	0.00500	"	0.0333	71.9	40-140					
Benzo (k) fluoranthene	0.0194	0.00500	"	0.0333	58.1	40-140					
Chrysene	0.0236	0.00500	"	0.0333	70.7	40-140					
Dibenz (a,h) anthracene	0.0201	0.00500	"	0.0333	60.3	40-140					
Fluoranthene	0.0235	0.00500	"	0.0333	70.6	40-140					
Fluorene	0.0234	0.00500	"	0.0333	70.2	40-140					
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333	62.0	40-140					
Pyrene	0.0256	0.00500	"	0.0333	76.9	40-140					
1-Methylnaphthalene	0.0232	0.00500	"	0.0333	69.7	40-140					
2-Methylnaphthalene	0.0236	0.00500	"	0.0333	70.8	40-140					
Surrogate: 2-Methylnaphthalene-d10	0.0233		"	0.0333	70.0	40-140					
Surrogate: Fluoranthene-d10	0.0243		"	0.0333	73.0	40-140					

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**PAH by EPA Method 8270E SIM - Quality Control**

**Summit Scientific**

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

**Batch BIF0234 - EPA 5030 Soil MS**

<b>Matrix Spike (BIF0234-MS1)</b>	<b>Source: 2506039-05</b>			<b>Prepared &amp; Analyzed: 06/18/25</b>							
Acenaphthene	0.0214	0.00500	mg/kg	0.0333	ND	64.2	40-140				
Anthracene	0.0220	0.00500	"	0.0333	ND	65.9	40-140				
Benzo (a) anthracene	0.0221	0.00500	"	0.0333	ND	66.2	40-140				
Benzo (a) pyrene	0.0189	0.00500	"	0.0333	ND	56.7	40-140				
Benzo (b) fluoranthene	0.0184	0.00500	"	0.0333	ND	55.1	40-140				
Benzo (k) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	40-140				
Chrysene	0.0203	0.00500	"	0.0333	ND	61.0	40-140				
Dibenz (a,h) anthracene	0.0173	0.00500	"	0.0333	ND	52.0	40-140				
Fluoranthene	0.0210	0.00500	"	0.0333	ND	63.0	40-140				
Fluorene	0.0214	0.00500	"	0.0333	ND	64.2	40-140				
Indeno (1,2,3-cd) pyrene	0.0171	0.00500	"	0.0333	ND	51.2	40-140				
Pyrene	0.0212	0.00500	"	0.0333	ND	63.5	40-140				
1-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.7	40-140				
2-Methylnaphthalene	0.0211	0.00500	"	0.0333	ND	63.2	40-140				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0208</i>		<i>"</i>	<i>0.0333</i>		<i>62.3</i>	<i>40-140</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0216</i>		<i>"</i>	<i>0.0333</i>		<i>64.7</i>	<i>40-140</i>				

<b>Matrix Spike Dup (BIF0234-MSD1)</b>	<b>Source: 2506039-05</b>			<b>Prepared &amp; Analyzed: 06/18/25</b>							
Acenaphthene	0.0213	0.00500	mg/kg	0.0333	ND	64.0	40-140	0.351	30		
Anthracene	0.0220	0.00500	"	0.0333	ND	66.0	40-140	0.0682	30		
Benzo (a) anthracene	0.0222	0.00500	"	0.0333	ND	66.7	40-140	0.657	30		
Benzo (a) pyrene	0.0192	0.00500	"	0.0333	ND	57.7	40-140	1.76	30		
Benzo (b) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.5	40-140	14.2	30		
Benzo (k) fluoranthene	0.0170	0.00500	"	0.0333	ND	51.0	40-140	7.30	30		
Chrysene	0.0203	0.00500	"	0.0333	ND	60.9	40-140	0.269	30		
Dibenz (a,h) anthracene	0.0184	0.00500	"	0.0333	ND	55.1	40-140	5.87	30		
Fluoranthene	0.0200	0.00500	"	0.0333	ND	60.1	40-140	4.65	30		
Fluorene	0.0214	0.00500	"	0.0333	ND	64.2	40-140	0.112	30		
Indeno (1,2,3-cd) pyrene	0.0163	0.00500	"	0.0333	ND	48.9	40-140	4.62	30		
Pyrene	0.0233	0.00500	"	0.0333	ND	70.0	40-140	9.73	30		
1-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.7	40-140	1.73	30		
2-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.2	40-140	1.61	30		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0207</i>		<i>"</i>	<i>0.0333</i>		<i>62.1</i>	<i>40-140</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0209</i>		<i>"</i>	<i>0.0333</i>		<i>62.7</i>	<i>40-140</i>				

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 06/23/25 09:32

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

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

**Batch BIF0178 - EPA 3050B**

**Blank (BIF0178-BLK1)**

Prepared: 06/12/25 Analyzed: 06/16/25

Boron ND 2.00 mg/L wet

**LCS (BIF0178-BS1)**

Prepared: 06/12/25 Analyzed: 06/16/25

Boron 5.35 2.00 mg/L wet 4.99 107 80-120

**Duplicate (BIF0178-DUP1)**

Source: 2506033-01

Prepared: 06/12/25 Analyzed: 06/16/25

Boron 0.530 2.00 mg/L dry 0.562 5.91 20

**Matrix Spike (BIF0178-MS1)**

Source: 2506033-01

Prepared: 06/12/25 Analyzed: 06/16/25

Boron 5.74 2.00 mg/L dry 5.69 0.562 91.1 75-125

**Matrix Spike Dup (BIF0178-MSD1)**

Source: 2506033-01

Prepared: 06/12/25 Analyzed: 06/16/25

Boron 6.01 2.00 mg/L dry 5.73 0.562 95.1 75-125 4.49 25

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BIF0175 - EPA 3050B**

**Blank (BIF0175-BLK1)**

Prepared: 06/12/25 Analyzed: 06/13/25

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 (BIF0175-BS1)**

Prepared: 06/12/25 Analyzed: 06/13/25

Arsenic	39.1	0.200	mg/kg wet	38.8	101	80-120
Barium	41.2	0.400	"	38.8	106	80-120
Cadmium	1.97	0.200	"	1.94	102	80-120
Copper	38.5	0.400	"	38.8	99.3	80-120
Lead	19.6	0.200	"	19.4	101	80-120
Nickel	38.9	0.400	"	38.8	100	80-120
Silver	1.97	0.0200	"	1.94	101	80-120
Zinc	38.6	0.400	"	38.8	99.7	80-120
Selenium	4.14	0.260	"	3.88	107	80-120

**Duplicate (BIF0175-DUP1)**

Source: 2505120-02

Prepared: 06/12/25 Analyzed: 06/16/25

Arsenic	1.18	0.200	mg/kg dry	0.944	22.6	20	QR-04
Barium	16.6	0.400	"	15.5	6.33	20	
Cadmium	0.0591	0.200	"	0.0539	9.28	20	
Copper	3.31	0.400	"	2.01	49.0	20	QR-04
Lead	4.36	0.200	"	3.83	13.0	20	
Nickel	1.47	0.400	"	1.37	6.63	20	
Silver	0.0105	0.0200	"	0.00787	28.6	20	QR-01
Zinc	10.2	0.400	"	12.2	18.4	20	
Selenium	ND	0.260	"	ND		20	

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 Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 06/23/25 09:32

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BIF0175 - EPA 3050B**

**Matrix Spike (BIF0175-MS1)**

Source: 2505120-02

Prepared: 06/12/25 Analyzed: 06/16/25

Arsenic	41.7	0.200	mg/kg dry	40.1	0.944	102	75-125			
Barium	55.6	0.400	"	40.1	15.5	99.9	75-125			
Cadmium	2.01	0.200	"	2.01	0.0539	97.6	75-125			
Copper	39.3	0.400	"	40.1	2.01	93.0	75-125			
Lead	23.4	0.200	"	20.1	3.83	97.6	75-125			
Nickel	38.1	0.400	"	40.1	1.37	91.6	75-125			
Silver	1.85	0.0200	"	2.01	0.00787	91.8	75-125			
Zinc	47.0	0.400	"	40.1	12.2	86.8	75-125			
Selenium	3.58	0.260	"	4.01	ND	89.3	75-125			

**Matrix Spike Dup (BIF0175-MSD1)**

Source: 2505120-02

Prepared: 06/12/25 Analyzed: 06/16/25

Arsenic	41.7	0.200	mg/kg dry	40.4	0.944	101	75-125	0.0301	25
Barium	53.1	0.400	"	40.4	15.5	92.9	75-125	4.64	25
Cadmium	2.02	0.200	"	2.02	0.0539	97.4	75-125	0.537	25
Copper	39.0	0.400	"	40.4	2.01	91.5	75-125	0.722	25
Lead	22.6	0.200	"	20.2	3.83	92.6	75-125	3.75	25
Nickel	38.2	0.400	"	40.4	1.37	91.0	75-125	0.0842	25
Silver	1.86	0.0200	"	2.02	0.00787	91.4	75-125	0.275	25
Zinc	49.1	0.400	"	40.4	12.2	91.4	75-125	4.43	25
Selenium	3.71	0.260	"	4.04	ND	91.8	75-125	3.57	25

Summit Scientific

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Project: RU 5-4

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 06/23/25 09:32

**Hexavalent Chromium by HACH M8023 - Quality Control**  
**Summit Scientific**

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

**Batch BIF0187 - 3060A Mod**

**Blank (BIF0187-BLK1)**

Prepared & Analyzed: 06/13/25

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BIF0187-BS1)**

Prepared & Analyzed: 06/13/25

Chromium, Hexavalent      25.1      0.30    mg/kg wet      25.5      98.2      80-120

**Duplicate (BIF0187-DUP1)**

**Source: 2505120-02**

Prepared & Analyzed: 06/13/25

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BIF0187-MS1)**

**Source: 2505120-02**

Prepared & Analyzed: 06/13/25

Chromium, Hexavalent      24.9      0.30    mg/kg dry      26.1      ND      95.6      75-125

**Matrix Spike Dup (BIF0187-MSD1)**

**Source: 2505120-02**

Prepared & Analyzed: 06/13/25

Chromium, Hexavalent      22.4      0.30    mg/kg dry      24.3      ND      92.2      75-125      10.6      20

Summit Scientific

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Lesair Environmental  
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Project: RU 5-4

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 06/23/25 09:32

**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		

**Batch BIF0176 - General Preparation**

**Blank (BIF0176-BLK1)**

Prepared: 06/12/25 Analyzed: 06/13/25

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

**LCS (BIF0176-BS1)**

Prepared: 06/12/25 Analyzed: 06/13/25

Calcium	5.65	0.0500	mg/L wet	5.00		113	70-130		
Magnesium	5.77	0.0500	"	5.00		115	70-130		
Sodium	5.65	0.0500	"	5.00		113	70-130		

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Lesair Environmental  
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Project: RU 5-4

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 06/23/25 09:32

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

**Summit Scientific**

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

**Batch BIF0183 - General Preparation**

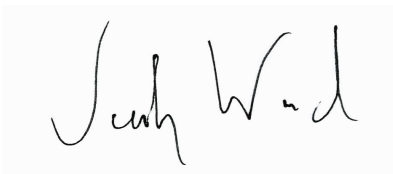
**Duplicate (BIF0183-DUP1)**

**Source: 2506031-01**

Prepared & Analyzed: 06/13/25

% Solids	77.7		%		79.1			1.78		20	
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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 06/23/25 09:32

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

**Summit Scientific**

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

**Batch BIF0179 - General Preparation**

**Blank (BIF0179-BLK1)**

Prepared: 06/12/25 Analyzed: 06/13/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BIF0179-BS1)**

Prepared: 06/12/25 Analyzed: 06/13/25

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

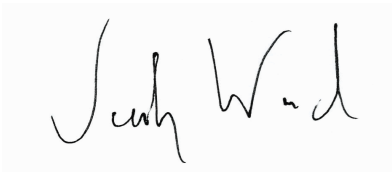
**Duplicate (BIF0179-DUP1)**

Source: 2506033-01

Prepared: 06/12/25 Analyzed: 06/13/25

Specific Conductance (EC) 2.40 0.0100 mmhos/cm 2.41 0.624 20

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 06/23/25 09:32

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

**Summit Scientific**

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

**Batch BIF0177 - General Preparation**

**LCS (BIF0177-BS1)**

Prepared: 06/12/25 Analyzed: 06/13/25

pH	9.27	pH Units	9.18	101	95-105
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**Duplicate (BIF0177-DUP1)**

Source: 2506033-01

Prepared: 06/12/25 Analyzed: 06/13/25

pH	8.82	pH Units	8.81	0.125	20
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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: RU 5-4

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
06/23/25 09:32

### Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to matrix interference. Matrix interference was verified via reanalysis.
- R-05 The reporting limit for this sample has been raised due to the presence of high levels of non-target analytes.
- R-01 The reporting limit for this analyte has been raised to account for matrix interference.
- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values. Only applies to source/DUP and MS/MSD pairs.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- O-02 Due to matrix interference, the sample cannot be accurately quantitated. The reported result is qualitative.
- 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