

**PADCO, LLC**

**Venrick #1A March 2023 Spill**

Spill/Release Point ID: 484182

Initial Form-19 Doc No.: 403353422

**Table 915-1 Metals Analysis**

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 16, 2024

Ty Smith

Lesair Environmental

11786 Shaffer Place Suite 210

Littleton, CO 80127

RE: PADCO Venrick MAR 2023

Work Order #2404130

Enclosed are the results of analyses for samples received by Summit Scientific on 04/09/24 12:58. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Natalie Tessier For Paul Shrewsbury

President



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/16/24 12:21

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
V1-6"	2404130-01	Soil	04/08/24 13:15	04/09/24 12:58
V1-E	2404130-02	Soil	04/08/24 13:15	04/09/24 12:58
V1-S	2404130-03	Soil	04/08/24 13:15	04/09/24 12:58
V1-W	2404130-04	Soil	04/08/24 13:15	04/09/24 12:58
V1A-W	2404130-05	Soil	04/08/24 13:15	04/09/24 12:58
V1A-Na	2404130-06	Soil	04/08/24 14:00	04/09/24 12:58
V1A-Nn	2404130-07	Soil	04/08/24 14:00	04/09/24 12:58
V1A-Ns	2404130-08	Soil	04/08/24 14:00	04/09/24 12:58
V1A-Ne	2404130-09	Soil	04/08/24 14:00	04/09/24 12:58
V1A-Nw	2404130-10	Soil	04/08/24 14:00	04/09/24 12:58

Summit Scientific

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# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2404130	

Client: <u>PADCO / LESAIR</u>	Send Data To:	Send Invoice To:
Address:	Project Manager: <u>Ty Smith</u>	Company: <u>PADCO LLC</u>
City/State/Zip:	E-Mail: <u>ty.smith@lesair.com</u>	Project Name/Location: <u>VENRICK # P</u>
Phone: <u>303.963.4443</u>	Project Name: <u>VENRICK <del>022</del> MAR 2023</u>	AFE#:
Sampler Name: <u>Ty Smith</u>	Project Number:	PO/Billing Codes:
		Contact: <u>DAN RICHMOND</u>

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested			Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	915 SAPDES/BODEN	915 METALS	
1	V1-G"	4/8/24	13:15	1						X			X		
2	V1-E			1						X			X		
3	V1-S			1						X			X		
4	V1-W			1						X			X		
5	V1A-W			1						X			X		
6															
7	V1A-Na		14:00	2						X			X		
8															
9	V1A-Nh			2						X			X		
10															
11	V1A-Ns			2						X			X		
12															
13	V1A-Ne			2						X			X		
14															
15	V1A-Nw			2						X			X		

Relinquished by: <u>Ty Smith</u>	Date/Time: <u>4/9 12:58</u>	Received by: <u>J. H. Wald</u>	Date/Time: <u>4/9/24 12:58</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <u>10.3</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:	Standard <input checked="" type="checkbox"/>	Field Turb.	

S<sub>2</sub>

S2 Work Order# 2404130

Sample Receipt Checklist

Client: Radio/Leasing Client Project ID: Venrich Mar 2023

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

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C) 10.3 Thermometer # 2

	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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	jars labeled Venrich #1
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)? <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.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

John Wild  
Custodian Printed Name

4/9/24 12:58  
Date/Time



Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/16/24 12:21

**V1-6''  
2404130-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.07	0.200	mg/kg dry	1	BHD0834	04/23/24	05/08/24	EPA 6020B	
Barium	137	0.400	"	"	"	"	"	"	
Cadmium	0.323	0.200	"	"	"	"	"	"	
Copper	8.97	0.400	"	"	"	"	"	"	
Lead	10.0	0.200	"	"	"	"	"	"	
Nickel	9.53	0.400	"	"	"	"	"	"	
Silver	0.0373	0.0200	"	"	"	"	"	"	
Zinc	36.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0666	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.6		%	1	BHD0476	04/16/24	04/16/24	Calculation	

Summit Scientific

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11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/16/24 12:21

**V1-E**  
**2404130-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>1.70</b>	0.179	mg/kg dry	1	BHD0834	04/23/24	05/08/24	EPA 6020B	
Barium	<b>120</b>	0.357	"	"	"	"	"	"	
Cadmium	<b>0.279</b>	0.179	"	"	"	"	"	"	
Copper	<b>6.81</b>	0.357	"	"	"	"	"	"	
Lead	<b>8.23</b>	0.179	"	"	"	"	"	"	
Nickel	<b>8.86</b>	0.357	"	"	"	"	"	"	
Silver	<b>0.0299</b>	0.0179	"	"	"	"	"	"	
Zinc	<b>31.7</b>	0.357	"	"	"	"	"	"	
Selenium	ND	0.232	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0666	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	<b>87.2</b>		%	1	BHD0476	04/16/24	04/16/24	Calculation	

Summit Scientific

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/16/24 12:21

**V1-S**  
**2404130-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.95	0.200	mg/kg dry	1	BHD0834	04/23/24	05/08/24	EPA 6020B	
Barium	119	0.400	"	"	"	"	"	"	
Cadmium	0.284	0.200	"	"	"	"	"	"	
Copper	8.17	0.400	"	"	"	"	"	"	
Lead	9.34	0.200	"	"	"	"	"	"	
Nickel	8.78	0.400	"	"	"	"	"	"	
Silver	0.0403	0.0200	"	"	"	"	"	"	
Zinc	33.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0666	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.9		%	1	BHD0476	04/16/24	04/16/24	Calculation	

Summit Scientific

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Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/16/24 12:21

**V1-W**  
**2404130-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.22	0.200	mg/kg dry	1	BHD0834	04/23/24	05/08/24	EPA 6020B	
Barium	128	0.400	"	"	"	"	"	"	
Cadmium	0.210	0.200	"	"	"	"	"	"	
Copper	6.48	0.400	"	"	"	"	"	"	
Lead	6.70	0.200	"	"	"	"	"	"	
Nickel	7.53	0.400	"	"	"	"	"	"	
Silver	0.0349	0.0200	"	"	"	"	"	"	
Zinc	24.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0666	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	88.7		%	1	BHD0476	04/16/24	04/16/24	Calculation	

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

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	9.00		pH Units	1	BHD0433	04/15/24	04/15/24	EPA 9045D	

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Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/16/24 12:21

**VIA-W**  
**2404130-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>1.99</b>	0.181	mg/kg dry	1	BHD0834	04/23/24	05/08/24	EPA 6020B	
Barium	<b>130</b>	0.362	"	"	"	"	"	"	
Cadmium	<b>0.286</b>	0.181	"	"	"	"	"	"	
Copper	<b>9.63</b>	0.362	"	"	"	"	"	"	
Lead	<b>9.68</b>	0.181	"	"	"	"	"	"	
Nickel	<b>11.7</b>	0.362	"	"	"	"	"	"	
Silver	<b>0.111</b>	0.0181	"	"	"	"	"	"	
Zinc	<b>34.0</b>	0.362	"	"	"	"	"	"	
Selenium	ND	0.236	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0666	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/08/24 13:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	<b>80.1</b>		%	1	BHD0476	04/16/24	04/16/24	Calculation	

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Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/16/24 12:21

**VIA-Na  
2404130-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0542	04/17/24	05/10/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.40	0.200	mg/kg dry	1	BHD0834	04/23/24	05/08/24	EPA 6020B	
Barium	203	0.400	"	"	"	"	"	"	
Cadmium	0.294	0.200	"	"	"	"	"	"	
Copper	7.61	0.400	"	"	"	"	"	"	
Lead	8.07	0.200	"	"	"	"	"	"	
Nickel	8.96	0.400	"	"	"	"	"	"	
Silver	0.0476	0.0200	"	"	"	"	"	"	
Zinc	32.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0666	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	476	0.0500	mg/L dry	1	BHD0851	04/23/24	05/14/24	EPA 6020B	
Magnesium	15.6	0.0500	"	"	"	"	"	"	
Sodium	3.74	0.0500	"	"	"	"	"	"	

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 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/16/24 12:21

**VIA-Na  
 2404130-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.0460</b>	0.00100	units	1	BHE0470	05/15/24	05/15/24	Calculation	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>84.0</b>		%	1	BHD0476	04/16/24	04/16/24	Calculation	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.0976</b>	0.0100	mmhos/cm	1	BHD0853	04/23/24	04/25/24	EPA 120.1	

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/16/24 12:21

**VIA-Nn**  
**2404130-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0542	04/17/24	05/10/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.16	0.200	mg/kg dry	1	BHD0834	04/23/24	05/08/24	EPA 6020B	
Barium	131	0.400	"	"	"	"	"	"	
Cadmium	0.237	0.200	"	"	"	"	"	"	
Copper	5.81	0.400	"	"	"	"	"	"	
Lead	6.54	0.200	"	"	"	"	"	"	
Nickel	7.25	0.400	"	"	"	"	"	"	
Silver	0.0320	0.0200	"	"	"	"	"	"	
Zinc	25.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0666	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	237	0.0500	mg/L dry	1	BHD0851	04/23/24	05/14/24	EPA 6020B	
Magnesium	9.77	0.0500	"	"	"	"	"	"	
Sodium	3.54	0.0500	"	"	"	"	"	"	

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/16/24 12:21

**VIA-Nn**  
**2404130-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0613	0.00100	units	1	BHE0470	05/15/24	05/15/24	Calculation	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BHD0476	04/16/24	04/16/24	Calculation	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0973	0.0100	mmhos/cm	1	BHD0853	04/23/24	04/25/24	EPA 120.1	

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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/16/24 12:21

**VIA-Ns**  
**2404130-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0542	04/17/24	05/10/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.58	0.200	mg/kg dry	1	BHD0834	04/23/24	05/08/24	EPA 6020B	
Barium	211	0.400	"	"	"	"	"	"	
Cadmium	0.316	0.200	"	"	"	"	"	"	
Copper	7.67	0.400	"	"	"	"	"	"	
Lead	8.08	0.200	"	"	"	"	"	"	
Nickel	9.10	0.400	"	"	"	"	"	"	
Silver	0.0458	0.0200	"	"	"	"	"	"	
Zinc	31.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0666	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	272	0.0500	mg/L dry	1	BHD0851	04/23/24	05/14/24	EPA 6020B	
Magnesium	16.7	0.0500	"	"	"	"	"	"	
Sodium	4.63	0.0500	"	"	"	"	"	"	

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 Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/16/24 12:21

**VIA-Ns**  
**2404130-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0737	0.00100	units	1	BHE0470	05/15/24	05/15/24	Calculation	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.1		%	1	BHD0476	04/16/24	04/16/24	Calculation	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.124	0.0100	mmhos/cm	1	BHD0853	04/23/24	04/25/24	EPA 120.1	

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Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/16/24 12:21

**VIA-Ne  
2404130-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0542	04/17/24	05/10/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.72	0.200	mg/kg dry	1	BHD0834	04/23/24	05/08/24	EPA 6020B	
Barium	213	0.400	"	"	"	"	"	"	
Cadmium	0.319	0.200	"	"	"	"	"	"	
Copper	7.96	0.400	"	"	"	"	"	"	
Lead	8.36	0.200	"	"	"	"	"	"	
Nickel	9.50	0.400	"	"	"	"	"	"	
Silver	0.0507	0.0200	"	"	"	"	"	"	
Zinc	32.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0666	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	264	0.0500	mg/L dry	1	BHD0851	04/23/24	05/14/24	EPA 6020B	
Magnesium	11.5	0.0500	"	"	"	"	"	"	
Sodium	5.42	0.0500	"	"	"	"	"	"	

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Project: PADCO Venrick MAR 2023

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/16/24 12:21

**VIA-Ne  
 2404130-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0887	0.00100	units	1	BHE0470	05/15/24	05/15/24	Calculation	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.3		%	1	BHD0476	04/16/24	04/16/24	Calculation	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.128	0.0100	mmhos/cm	1	BHD0853	04/23/24	04/25/24	EPA 120.1	

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Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/16/24 12:21

**VIA-Nw  
2404130-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHD0542	04/17/24	05/10/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>2.06</b>	0.200	mg/kg dry	1	BHD0834	04/23/24	05/08/24	EPA 6020B	
Barium	<b>95.0</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.205</b>	0.200	"	"	"	"	"	"	
Copper	<b>5.03</b>	0.400	"	"	"	"	"	"	
Lead	<b>5.73</b>	0.200	"	"	"	"	"	"	
Nickel	<b>6.11</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0263</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>22.3</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHD0666	04/19/24	04/19/24	EPA 7196A	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>189</b>	0.0500	mg/L dry	1	BHD0851	04/23/24	05/14/24	EPA 6020B	
Magnesium	<b>8.42</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>3.89</b>	0.0500	"	"	"	"	"	"	

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Lesair Environmental  
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Project: PADCO Venrick MAR 2023

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/16/24 12:21

**VIA-Nw  
 2404130-10 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0752	0.00100	units	1	BHE0470	05/15/24	05/15/24	Calculation	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.1		%	1	BHD0476	04/16/24	04/16/24	Calculation	

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

Date Sampled: **04/08/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.125	0.0100	mmhos/cm	1	BHD0853	04/23/24	04/25/24	EPA 120.1	

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Project: PADCO Venrick MAR 2023

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/16/24 12:21

**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			Limits	RPD	Limit		

**Batch BHD0542 - EPA 3050B**

**Blank (BHD0542-BLK1)**

Prepared: 04/17/24 Analyzed: 05/10/24

Boron ND 2.00 mg/L

**LCS (BHD0542-BS1)**

Prepared: 04/17/24 Analyzed: 05/10/24

Boron 4.77 2.00 mg/L 5.00 95.4 80-120

**Duplicate (BHD0542-DUP1)**

Source: 2404117-01

Prepared: 04/17/24 Analyzed: 05/10/24

Boron 0.407 2.00 mg/L 0.295 32.0 20 QR-01

**Matrix Spike (BHD0542-MS1)**

Source: 2404117-01

Prepared: 04/17/24 Analyzed: 05/10/24

Boron 4.59 2.00 mg/L 4.97 0.295 86.4 75-125

**Matrix Spike Dup (BHD0542-MSD1)**

Source: 2404117-01

Prepared: 04/17/24 Analyzed: 05/10/24

Boron 4.70 2.00 mg/L 4.97 0.295 88.7 75-125 2.40 25

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Project: PADCO Venrick MAR 2023

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/16/24 12:21

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

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

**Batch BHD0834 - EPA 3050B**

**Blank (BHD0834-BLK1)**

Prepared: 04/23/24 Analyzed: 05/08/24

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 (BHD0834-BS1)**

Prepared: 04/23/24 Analyzed: 05/08/24

Arsenic	38.5	0.200	mg/kg wet	40.0	96.2	80-120
Barium	37.0	0.400	"	40.0	92.4	80-120
Cadmium	1.90	0.200	"	2.00	95.2	80-120
Copper	41.3	0.400	"	40.0	103	80-120
Lead	19.1	0.200	"	20.0	95.5	80-120
Nickel	40.8	0.400	"	40.0	102	80-120
Silver	1.94	0.0200	"	2.00	97.0	80-120
Zinc	40.0	0.400	"	40.0	100	80-120
Selenium	4.13	0.260	"	4.00	103	80-120

**Duplicate (BHD0834-DUP1)**

Source: 2404130-01

Prepared: 04/23/24 Analyzed: 05/08/24

Arsenic	2.03	0.200	mg/kg dry	2.07	1.88	20
Barium	134	0.400	"	137	1.74	20
Cadmium	0.303	0.200	"	0.323	6.50	20
Copper	8.48	0.400	"	8.97	5.64	20
Lead	9.20	0.200	"	10.0	8.34	20
Nickel	9.32	0.400	"	9.53	2.23	20
Silver	0.0366	0.0200	"	0.0373	1.95	20
Zinc	35.2	0.400	"	36.8	4.46	20
Selenium	ND	0.260	"	ND		20

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Project: PADCO Venrick MAR 2023

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/16/24 12:21

**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 BHD0834 - EPA 3050B**

**Matrix Spike (BHD0834-MS1)**

Source: 2404130-01

Prepared: 04/23/24 Analyzed: 05/08/24

Arsenic	23.9	0.200	mg/kg dry	42.3	2.07	51.7	75-125				QM-05
Barium	179	0.400	"	42.3	137	99.3	75-125				
Cadmium	2.43	0.200	"	2.11	0.323	99.6	75-125				
Copper	51.6	0.400	"	42.3	8.97	101	75-125				
Lead	29.6	0.200	"	21.1	10.0	92.7	75-125				
Nickel	52.7	0.400	"	42.3	9.53	102	75-125				
Silver	2.10	0.0200	"	2.11	0.0373	97.5	75-125				
Zinc	81.3	0.400	"	42.3	36.8	105	75-125				
Selenium	3.45	0.260	"	4.23	ND	81.6	75-125				

**Matrix Spike Dup (BHD0834-MSD1)**

Source: 2404130-01

Prepared: 04/23/24 Analyzed: 05/08/24

Arsenic	24.0	0.200	mg/kg dry	42.3	2.07	51.8	75-125	0.307	25		QM-05
Barium	179	0.400	"	42.3	137	101	75-125	0.433	25		
Cadmium	2.41	0.200	"	2.11	0.323	98.9	75-125	0.646	25		
Copper	51.7	0.400	"	42.3	8.97	101	75-125	0.206	25		
Lead	29.7	0.200	"	21.1	10.0	93.4	75-125	0.500	25		
Nickel	52.7	0.400	"	42.3	9.53	102	75-125	0.0152	25		
Silver	2.11	0.0200	"	2.11	0.0373	97.9	75-125	0.442	25		
Zinc	81.5	0.400	"	42.3	36.8	106	75-125	0.284	25		
Selenium	3.44	0.260	"	4.23	ND	81.5	75-125	0.159	25		

**Post Spike (BHD0834-PS1)**

Source: 2404130-01

Prepared: 04/23/24 Analyzed: 05/08/24

Arsenic	67.2		ug/l	100	4.53	62.7	75-125				QM-01
Barium	425		"	100	299	126	75-125				QM-01
Cadmium	5.88		"	5.00	0.708	103	75-125				
Copper	121		"	100	19.6	102	75-125				
Lead	70.7		"	50.0	21.9	97.5	75-125				
Nickel	123		"	100	20.9	102	75-125				
Silver	5.20		"	5.00	0.0817	102	75-125				
Zinc	184		"	100	80.6	104	75-125				
Selenium	9.26		"	10.0	0.255	90.0	75-125				

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Lesair Environmental  
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 Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/16/24 12:21

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

**Summit Scientific**

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

**Batch BHD0851 - General Preparation**

**Blank (BHD0851-BLK1)**

Prepared: 04/23/24 Analyzed: 05/14/24

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

**LCS (BHD0851-BS1)**

Prepared: 04/23/24 Analyzed: 05/14/24

Calcium	5.05	0.0500	mg/L wet	5.00		101	70-130			
Magnesium	5.35	0.0500	"	5.00		107	70-130			
Sodium	5.33	0.0500	"	5.00		107	70-130			

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 Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/16/24 12:21

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

**Summit Scientific**

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

**Batch BHD0476 - General Preparation**

**Duplicate (BHD0476-DUP1)**

**Source: 2404130-01**

Prepared & Analyzed: 04/16/24

% Solids	87.8		%		87.6			0.283		20	
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Project: PADCO Venrick MAR 2023

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/16/24 12:21

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

**Summit Scientific**

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

**Batch BHD0853 - General Preparation**

**Blank (BHD0853-BLK1)**

Prepared: 04/23/24 Analyzed: 04/25/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHD0853-BS1)**

Prepared: 04/23/24 Analyzed: 04/25/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

**Duplicate (BHD0853-DUP1)**

Source: 2404117-01

Prepared: 04/23/24 Analyzed: 04/25/24

Specific Conductance (EC) 0.103 0.0100 mmhos/cm 0.103 0.00 20

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Lesair Environmental  
 11786 Shaffer Place Suite 210  
 Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
 Project Manager: Ty Smith

**Reported:**  
 05/16/24 12:21

**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 BHD0433 - General Preparation**

**LCS (BHD0433-BS1)**

Prepared & Analyzed: 04/15/24

pH	9.12		pH Units	9.18	99.3	95-105
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**Duplicate (BHD0433-DUP1)**

Source: 2402412-08

Prepared & Analyzed: 04/15/24

pH	8.86		pH Units	8.86	0.00	20
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Lesair Environmental  
11786 Shaffer Place Suite 210  
Littleton CO, 80127

Project: PADCO Venrick MAR 2023

Project Number: [none]  
Project Manager: Ty Smith

**Reported:**  
05/16/24 12:21

### Notes and Definitions

- 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-05      The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- 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