

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 08, 2024

Ryan Finley
Entrada Consulting Group
240 Mesa Avenue
Grand Junction., CO 81501

RE: Lancaster #1

Work Order #2401451

Enclosed are the results of analyses for samples received by Summit Scientific on 01/25/24 18:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black 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



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@4	2401451-01	Soil	01/23/24 13:00	01/25/24 18:15
AST02@4	2401451-02	Soil	01/23/24 13:10	01/25/24 18:15
SEP01@0.5	2401451-03	Soil	01/23/24 13:20	01/25/24 18:15
WH01@6	2401451-04	Soil	01/23/24 13:30	01/25/24 18:15
FLR01@3	2401451-05	Soil	01/23/24 13:40	01/25/24 18:15
BKG01@3	2401451-06	Soil	01/23/24 13:50	01/25/24 18:15
BKG01@6	2401451-07	Soil	01/23/24 14:00	01/25/24 18:15

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S₂

Sample Receipt Checklist

S2 Work Order# 2401451

Client: Entrada Client Project ID: Lancaster #1

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

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

Temp (°C) 11.7 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>no time stamps</u>
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

AS
Custodian Printed Name

1/25/24
Date/Time



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

AST01@4
2401451-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHA0955	01/26/24	01/28/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0412	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0385	96.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	110	50	mg/kg	1	BHA0956	01/26/24	01/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.96	71.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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AST01@4
2401451-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0967	01/29/24	01/29/24	EPA 8270D 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: **01/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0146	43.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0146	43.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA1115	01/31/24	02/06/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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AST01@4
2401451-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.10	0.200	mg/kg dry	1	BHA1085	01/31/24	02/02/24	EPA 6020B	
Barium	141	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.93	0.400	"	"	"	"	"	"	
Lead	4.92	0.200	"	"	"	"	"	"	
Nickel	2.29	0.400	"	"	"	"	"	"	
Silver	0.0233	0.0200	"	"	"	"	"	"	
Zinc	5.93	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA1018	01/29/24	01/31/24	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.5		%	1	BHA0996	01/29/24	01/29/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.57	0.0100	mmhos/cm	1	BHA0972	01/29/24	01/29/24	EPA 120.1	

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

Date Sampled: **01/23/24 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.03		pH Units	1	BHA0971	01/29/24	01/29/24	EPA 9045D	

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AST01@4
2401451-01 (Soil)

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

Date Sampled: **01/23/24 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	6.21	0.0500	mg/L dry	1	BHB0672	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.14	0.0500	"	"	"	"	"	"	
Sodium	12.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/23/24 13:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.20	0.00100	units	1	BHC0092	01/30/24	03/05/24	Calculation	

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AST02@4
2401451-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHA0955	01/26/24	01/28/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/23/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0410	102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0381	95.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0422	105 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHA0956	01/26/24	01/26/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/23/24 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.71	61.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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 03/08/24 12:18

AST02@4
2401451-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/23/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0967	01/29/24	01/29/24	EPA 8270D 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: **01/23/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0165	49.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA1115	01/31/24	02/06/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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03/08/24 12:18

AST02@4
2401451-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.975	0.200	mg/kg dry	1	BHA1085	01/31/24	02/02/24	EPA 6020B	
Barium	129	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.74	0.400	"	"	"	"	"	"	
Lead	4.67	0.200	"	"	"	"	"	"	
Nickel	2.09	0.400	"	"	"	"	"	"	
Silver	0.0236	0.0200	"	"	"	"	"	"	
Zinc	5.09	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA1018	01/29/24	01/31/24	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.2		%	1	BHA0996	01/29/24	01/29/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.26	0.0100	mmhos/cm	1	BHA0972	01/29/24	01/29/24	EPA 120.1	

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

Date Sampled: **01/23/24 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.77		pH Units	1	BHA0971	01/29/24	01/29/24	EPA 9045D	

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AST02@4
2401451-02 (Soil)

Summit Scientific

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

Date Sampled: **01/23/24 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	6.20	0.0500	mg/L dry	1	BHB0672	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.13	0.0500	"	"	"	"	"	"	
Sodium	9.81	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/23/24 13:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.951	0.00100	units	1	BHC0092	01/30/24	03/05/24	Calculation	

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240 Mesa Avenue
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Project: Lancaster #1
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03/08/24 12:18

SEP01@0.5
2401451-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHA0955	01/26/24	01/28/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/23/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0424	106 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHA0956	01/26/24	01/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/23/24 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.96	63.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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03/08/24 12:18

SEP01@0.5
2401451-03 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/23/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0967	01/29/24	01/29/24	EPA 8270D 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: **01/23/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0150	45.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0139	41.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA1115	01/31/24	02/06/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 13:20**

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

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

SEP01@0.5
2401451-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.745	0.200	mg/kg dry	1	BHA1085	01/31/24	02/02/24	EPA 6020B	
Barium	60.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.98	0.400	"	"	"	"	"	"	
Lead	9.34	0.200	"	"	"	"	"	"	
Nickel	1.71	0.400	"	"	"	"	"	"	
Silver	0.0227	0.0200	"	"	"	"	"	"	
Zinc	5.97	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA1018	01/29/24	01/31/24	EPA 7196A	

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

Date Sampled: **01/23/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	62.8	0.0500	mg/L dry	1	BHA0960	01/26/24	01/29/24	EPA 6020B	
Magnesium	5.75	0.0500	"	"	"	"	"	"	
Sodium	171	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/23/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.54	0.00100	units	1	BHA1068	01/30/24	02/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

SEP01@0.5
2401451-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	BHA0996	01/29/24	01/29/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.19	0.0100	mmhos/cm	1	BHA0972	01/29/24	01/29/24	EPA 120.1	

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

Date Sampled: **01/23/24 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.77		pH Units	1	BHA0971	01/29/24	01/29/24	EPA 9045D	

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

WH01@6
2401451-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/24 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHA0955	01/26/24	01/28/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/23/24 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0413	103 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0388	96.9 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/24 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHA0956	01/26/24	01/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/23/24 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.82	54.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

WH01@6
2401451-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/23/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0967	01/29/24	01/29/24	EPA 8270D 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: **01/23/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0212	63.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0193	57.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA1115	01/31/24	02/06/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

WH01@6
2401451-04 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.934	0.200	mg/kg dry	1	BHA1085	01/31/24	02/02/24	EPA 6020B	
Barium	128	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.53	0.400	"	"	"	"	"	"	
Lead	2.63	0.200	"	"	"	"	"	"	
Nickel	1.74	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.16	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA1018	01/29/24	01/31/24	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.3		%	1	BHA0996	01/29/24	01/29/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.84	0.0100	mmhos/cm	1	BHA0972	01/29/24	01/29/24	EPA 120.1	

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

Date Sampled: **01/23/24 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.88		pH Units	1	BHA0971	01/29/24	01/29/24	EPA 9045D	

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

WH01@6
2401451-04 (Soil)

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

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

WH01@6
2401451-04 (Soil)

Summit Scientific

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

Date Sampled: **01/23/24 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	8.65	0.0500	mg/L dry	1	BHB0672	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.59	0.0500	"	"	"	"	"	"	
Sodium	8.40	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/23/24 13:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.689	0.00100	units	1	BHC0092	01/30/24	03/05/24	Calculation	

Summit Scientific



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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

FLR01@3
2401451-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/24 13:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHA0955	01/26/24	01/28/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/23/24 13:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0421	105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/24 13:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHA0956	01/26/24	01/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/23/24 13:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.32	58.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

FLR01@3
2401451-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/23/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0967	01/29/24	01/29/24	EPA 8270D 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: **01/23/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0180	54.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0156	46.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA1115	01/31/24	02/06/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

FLR01@3
2401451-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.04	0.200	mg/kg dry	1	BHA1085	01/31/24	02/02/24	EPA 6020B	
Barium	137	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.78	0.400	"	"	"	"	"	"	
Lead	5.20	0.200	"	"	"	"	"	"	
Nickel	2.15	0.400	"	"	"	"	"	"	
Silver	0.0257	0.0200	"	"	"	"	"	"	
Zinc	5.21	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA1018	01/29/24	01/31/24	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.5		%	1	BHA0996	01/29/24	01/29/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.76	0.0100	mmhos/cm	1	BHA0972	01/29/24	01/29/24	EPA 120.1	

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

FLR01@3
2401451-05 (Soil)

Summit Scientific

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

Date Sampled: **01/23/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	8.41	0.0500	mg/L dry	1	BHB0672	02/21/24	02/29/24	EPA 6020B	
Magnesium	1.03	0.0500	"	"	"	"	"	"	
Sodium	12.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/23/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	1.09	0.00100	units	1	BHC0092	01/30/24	03/05/24	Calculation	

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

Date Sampled: **01/23/24 13:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.81		pH Units	1	BHB0926	01/29/24	02/29/24	EPA 9045D	I-04

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

BKG01@3
2401451-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/24 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHA0955	01/26/24	01/28/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/23/24 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0412	103 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0382	95.5 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0424	106 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/24 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHA0956	01/26/24	01/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/23/24 13:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.4	99.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

BKG01@3
2401451-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/23/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0967	01/29/24	01/29/24	EPA 8270D 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: **01/23/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0186	55.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0163	48.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA1115	01/31/24	02/06/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

BKG01@3
2401451-06 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.04	0.200	mg/kg dry	1	BHA1085	01/31/24	02/02/24	EPA 6020B	
Barium	154	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.82	0.400	"	"	"	"	"	"	
Lead	6.12	0.200	"	"	"	"	"	"	
Nickel	2.14	0.400	"	"	"	"	"	"	
Silver	0.0274	0.0200	"	"	"	"	"	"	
Zinc	5.76	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA1018	01/29/24	01/31/24	EPA 7196A	

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

Date Sampled: **01/23/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	50.4	0.0500	mg/L dry	1	BHA0960	01/26/24	01/29/24	EPA 6020B	
Magnesium	13.6	0.0500	"	"	"	"	"	"	
Sodium	1.29	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/23/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0416	0.00100	units	1	BHA1068	01/30/24	02/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

BKG01@3
2401451-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 13:50**

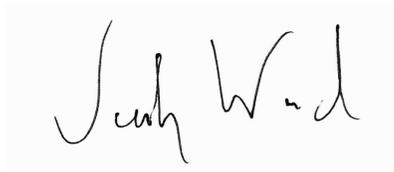
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.9		%	1	BHA0996	01/29/24	01/29/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.406	0.0100	mmhos/cm	1	BHA0972	01/29/24	01/29/24	EPA 120.1	

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Entrada Consulting Group
 240 Mesa Avenue
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Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
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BKG01@3
2401451-06 (Soil)

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

Date Sampled: **01/23/24 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.77		pH Units	1	BHB0715	02/22/24	02/26/24	EPA 9045D	I-04

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

BKG01@6
2401451-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/23/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHA0955	01/26/24	01/28/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/23/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0419	105 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0386	96.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0421	105 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/23/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHA0956	01/26/24	01/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/23/24 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.04	72.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

BKG01@6
2401451-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/23/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0967	01/29/24	01/29/24	EPA 8270D 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: **01/23/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0169	50.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/23/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA1115	01/31/24	02/06/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/23/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

BKG01@6
2401451-07 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.90	0.200	mg/kg dry	1	BHA1085	01/31/24	02/02/24	EPA 6020B	
Barium	267	0.400	"	"	"	"	"	"	
Cadmium	0.223	0.200	"	"	"	"	"	"	
Copper	2.00	0.400	"	"	"	"	"	"	
Lead	5.40	0.200	"	"	"	"	"	"	
Nickel	2.97	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.37	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/23/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA1018	01/29/24	01/31/24	EPA 7196A	

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

Date Sampled: **01/23/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.9	0.0500	mg/L dry	1	BHA0960	01/26/24	01/29/24	EPA 6020B	
Magnesium	7.49	0.0500	"	"	"	"	"	"	
Sodium	0.892	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/23/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0382	0.00100	units	1	BHA1068	01/30/24	02/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

BKG01@6
2401451-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/23/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BHA0996	01/29/24	01/29/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/23/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.152	0.0100	mmhos/cm	1	BHA0972	01/29/24	01/29/24	EPA 120.1	

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

Date Sampled: **01/23/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.73		pH Units	1	BHA0971	01/29/24	01/29/24	EPA 9045D	

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240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

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 BHA0955 - EPA 5030 Soil MS

Blank (BHA0955-BLK1)

Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0426		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.3	50-150			

LCS (BHA0955-BS1)

Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	0.0975	0.0020	mg/kg	0.100		97.5	70-130			
Toluene	0.0926	0.0050	"	0.100		92.6	70-130			
Ethylbenzene	0.0937	0.0050	"	0.100		93.7	70-130			
m,p-Xylene	0.186	0.010	"	0.200		93.1	70-130			
o-Xylene	0.0928	0.0050	"	0.100		92.8	70-130			
1,2,4-Trimethylbenzene	0.0896	0.0050	"	0.100		89.6	70-130			
1,3,5-Trimethylbenzene	0.0893	0.0050	"	0.100		89.3	70-130			
Naphthalene	0.103	0.0038	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0391		"	0.0400		97.7	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

Matrix Spike (BHA0955-MS1)

Source: 2401442-01

Prepared: 01/26/24 Analyzed: 01/29/24

Benzene	0.0844	0.0020	mg/kg	0.100	ND	84.4	70-130			
Toluene	0.0792	0.0050	"	0.100	ND	79.2	70-130			
Ethylbenzene	0.0763	0.0050	"	0.100	ND	76.3	70-130			
m,p-Xylene	0.143	0.010	"	0.200	ND	71.6	70-130			
o-Xylene	0.0724	0.0050	"	0.100	ND	72.4	70-130			
1,2,4-Trimethylbenzene	0.0743	0.0050	"	0.100	ND	74.3	70-130			
1,3,5-Trimethylbenzene	0.0738	0.0050	"	0.100	ND	73.8	70-130			
Naphthalene	0.0710	0.0038	"	0.100	ND	71.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0434		"	0.0400		109	50-150			

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1

Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

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 BHA0955 - EPA 5030 Soil MS

Matrix Spike Dup (BHA0955-MSD1)	Source: 2401442-01			Prepared: 01/26/24 Analyzed: 01/29/24						
Benzene	0.0863	0.0020	mg/kg	0.100	ND	86.3	70-130	2.21	30	
Toluene	0.0791	0.0050	"	0.100	ND	79.1	70-130	0.190	30	
Ethylbenzene	0.0789	0.0050	"	0.100	ND	78.9	70-130	3.36	30	
m,p-Xylene	0.153	0.010	"	0.200	ND	76.6	70-130	6.74	30	
o-Xylene	0.0773	0.0050	"	0.100	ND	77.3	70-130	6.58	30	
1,2,4-Trimethylbenzene	0.0734	0.0050	"	0.100	ND	73.4	70-130	1.26	30	
1,3,5-Trimethylbenzene	0.0725	0.0050	"	0.100	ND	72.5	70-130	1.76	30	
Naphthalene	0.0711	0.0038	"	0.100	ND	71.1	70-130	0.0845	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0417</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0382</i>		<i>"</i>	<i>0.0400</i>		<i>95.4</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0422</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

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 BHA0956 - EPA 3550A

Blank (BHA0956-BLK1)

Prepared & Analyzed: 01/26/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	9.98		"	12.5		79.9		30-150			

LCS (BHA0956-BS1)

Prepared & Analyzed: 01/26/24

C10-C28 (DRO)	419	50	mg/kg	500		83.7		70-130			
Surrogate: <i>o</i> -Terphenyl	9.84		"	12.5		78.7		30-150			

Matrix Spike (BHA0956-MS1)

Source: 2401442-01

Prepared & Analyzed: 01/26/24

C10-C28 (DRO)	417	50	mg/kg	500	9.52	81.4		70-130			
Surrogate: <i>o</i> -Terphenyl	7.84		"	12.5		62.7		30-150			

Matrix Spike Dup (BHA0956-MSD1)

Source: 2401442-01

Prepared & Analyzed: 01/26/24

C10-C28 (DRO)	393	50	mg/kg	500	9.52	76.7		70-130	5.76	20	
Surrogate: <i>o</i> -Terphenyl	6.37		"	12.5		51.0		30-150			

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BHA0967 - EPA 5030 Soil MS

Blank (BHA0967-BLK1)

Prepared & Analyzed: 01/29/24

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0277</i>		"	<i>0.0333</i>		<i>83.0</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0284</i>		"	<i>0.0333</i>		<i>85.2</i>		<i>40-150</i>		

LCS (BHA0967-BS1)

Prepared & Analyzed: 01/29/24

Acenaphthene	0.0308	0.00500	mg/kg	0.0333		92.5		31-137		
Anthracene	0.0304	0.00500	"	0.0333		91.1		30-120		
Benzo (a) anthracene	0.0285	0.00500	"	0.0333		85.6		30-120		
Benzo (a) pyrene	0.0303	0.00500	"	0.0333		91.0		30-120		
Benzo (b) fluoranthene	0.0317	0.00500	"	0.0333		95.2		30-120		
Benzo (k) fluoranthene	0.0331	0.00500	"	0.0333		99.3		30-120		
Chrysene	0.0302	0.00500	"	0.0333		90.6		30-120		
Dibenz (a,h) anthracene	0.0311	0.00500	"	0.0333		93.2		30-120		
Fluoranthene	0.0274	0.00500	"	0.0333		82.3		30-120		
Fluorene	0.0312	0.00500	"	0.0333		93.5		30-120		
Indeno (1,2,3-cd) pyrene	0.0223	0.00500	"	0.0333		66.8		30-120		
Pyrene	0.0256	0.00500	"	0.0333		76.7		35-142		
1-Methylnaphthalene	0.0300	0.00500	"	0.0333		89.9		35-142		
2-Methylnaphthalene	0.0309	0.00500	"	0.0333		92.6		35-142		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0268</i>		"	<i>0.0333</i>		<i>80.5</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0311</i>		"	<i>0.0333</i>		<i>93.2</i>		<i>40-150</i>		

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BHA0967 - EPA 5030 Soil MS

Matrix Spike (BHA0967-MS1)

Source: 2401442-01

Prepared & Analyzed: 01/29/24

Acenaphthene	0.0180	0.00500	mg/kg	0.0333	ND	53.9	31-137			
Anthracene	0.0176	0.00500	"	0.0333	ND	52.9	30-120			
Benzo (a) anthracene	0.0158	0.00500	"	0.0333	ND	47.3	30-120			
Benzo (a) pyrene	0.0151	0.00500	"	0.0333	ND	45.4	30-120			
Benzo (b) fluoranthene	0.0168	0.00500	"	0.0333	ND	50.5	30-120			
Benzo (k) fluoranthene	0.0185	0.00500	"	0.0333	ND	55.6	30-120			
Chrysene	0.0180	0.00500	"	0.0333	ND	53.9	30-120			
Dibenz (a,h) anthracene	0.0178	0.00500	"	0.0333	ND	53.5	30-120			
Fluoranthene	0.0162	0.00500	"	0.0333	ND	48.7	30-120			
Fluorene	0.0179	0.00500	"	0.0333	ND	53.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0129	0.00500	"	0.0333	ND	38.8	30-120			
Pyrene	0.0181	0.00500	"	0.0333	ND	54.3	35-142			
1-Methylnaphthalene	0.0177	0.00500	"	0.0333	ND	53.0	15-130			
2-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.1	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0168		"	0.0333		50.4	40-150			
Surrogate: Fluoranthene-d10	0.0165		"	0.0333		49.6	40-150			

Matrix Spike Dup (BHA0967-MSD1)

Source: 2401442-01

Prepared & Analyzed: 01/29/24

Acenaphthene	0.0217	0.00500	mg/kg	0.0333	ND	65.2	31-137	19.0	30
Anthracene	0.0203	0.00500	"	0.0333	ND	61.0	30-120	14.1	30
Benzo (a) anthracene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	18.7	30
Benzo (a) pyrene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	24.8	30
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.5	30-120	21.2	30
Benzo (k) fluoranthene	0.0226	0.00500	"	0.0333	ND	67.9	30-120	19.9	30
Chrysene	0.0208	0.00500	"	0.0333	ND	62.5	30-120	14.7	30
Dibenz (a,h) anthracene	0.0202	0.00500	"	0.0333	ND	60.5	30-120	12.2	30
Fluoranthene	0.0182	0.00500	"	0.0333	ND	54.6	30-120	11.4	30
Fluorene	0.0223	0.00500	"	0.0333	ND	66.9	30-120	22.2	30
Indeno (1,2,3-cd) pyrene	0.0139	0.00500	"	0.0333	ND	41.8	30-120	7.48	30
Pyrene	0.0164	0.00500	"	0.0333	ND	49.2	35-142	9.83	30
1-Methylnaphthalene	0.0219	0.00500	"	0.0333	ND	65.7	15-130	21.4	50
2-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.2	15-130	10.3	50
Surrogate: 2-Methylnaphthalene-d10	0.0203		"	0.0333		60.9	40-150		
Surrogate: Fluoranthene-d10	0.0214		"	0.0333		64.3	40-150		

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

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 BHA1115 - EPA 3050B

Blank (BHA1115-BLK1)		Prepared: 01/31/24 Analyzed: 02/06/24								
Boron	ND	2.00	mg/L							
LCS (BHA1115-BS1)		Prepared: 01/31/24 Analyzed: 02/06/24								
Boron	5.02	2.00	mg/L	5.00		100	80-120			
Duplicate (BHA1115-DUP1)		Source: 2401451-01		Prepared: 01/31/24 Analyzed: 02/06/24						
Boron	0.184	2.00	mg/L		0.155			17.3	20	
Matrix Spike (BHA1115-MS1)		Source: 2401451-01		Prepared: 01/31/24 Analyzed: 02/06/24						
Boron	6.02	2.00	mg/L	5.00	0.155	117	75-125			
Matrix Spike Dup (BHA1115-MSD1)		Source: 2401451-01		Prepared: 01/31/24 Analyzed: 02/06/24						
Boron	6.31	2.00	mg/L	5.00	0.155	123	75-125	4.64	25	

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

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 BHA1085 - EPA 3050B

Blank (BHA1085-BLK1)

Prepared: 01/31/24 Analyzed: 02/02/24

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 (BHA1085-BS1)

Prepared: 01/31/24 Analyzed: 02/02/24

Arsenic	37.2	0.200	mg/kg wet	40.0	93.1	80-120
Barium	35.7	0.400	"	40.0	89.3	80-120
Cadmium	1.79	0.200	"	2.00	89.3	80-120
Copper	37.7	0.400	"	40.0	94.2	80-120
Lead	17.6	0.200	"	20.0	88.1	80-120
Nickel	37.0	0.400	"	40.0	92.5	80-120
Silver	1.82	0.0200	"	2.00	91.1	80-120
Zinc	37.2	0.400	"	40.0	92.9	80-120
Selenium	3.61	0.260	"	4.00	90.2	80-120

Duplicate (BHA1085-DUP1)

Source: 2401443-01

Prepared: 01/31/24 Analyzed: 02/02/24

Arsenic	1.02	0.200	mg/kg dry	0.934	8.53	20
Barium	68.7	0.400	"	63.8	7.40	20
Cadmium	0.104	0.200	"	0.0891	15.0	20
Copper	2.12	0.400	"	2.07	2.48	20
Lead	4.61	0.200	"	4.36	5.53	20
Nickel	1.98	0.400	"	1.81	8.74	20
Silver	0.0176	0.0200	"	0.0172	2.60	20
Zinc	6.60	0.400	"	6.20	6.22	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1

Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

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 BHA1085 - EPA 3050B

Matrix Spike (BHA1085-MS1)

Source: 2401443-01

Prepared: 01/31/24 Analyzed: 02/02/24

Arsenic	13.7	0.200	mg/kg dry	45.2	0.934	28.2	75-125				QM-07
Barium	98.1	0.400	"	45.2	63.8	75.9	75-125				
Cadmium	1.56	0.200	"	2.26	0.0891	65.0	75-125				QM-07
Copper	15.1	0.400	"	45.2	2.07	28.9	75-125				QM-07
Lead	19.8	0.200	"	22.6	4.36	68.3	75-125				QM-07
Nickel	14.8	0.400	"	45.2	1.81	28.7	75-125				QM-07
Silver	1.39	0.0200	"	2.26	0.0172	60.9	75-125				QM-07
Zinc	19.1	0.400	"	45.2	6.20	28.6	75-125				QM-07
Selenium	3.26	0.260	"	4.52	ND	72.0	75-125				QM-07

Matrix Spike Dup (BHA1085-MSD1)

Source: 2401443-01

Prepared: 01/31/24 Analyzed: 02/02/24

Arsenic	13.5	0.200	mg/kg dry	45.2	0.934	27.9	75-125	1.05	25		QM-07
Barium	92.0	0.400	"	45.2	63.8	62.3	75-125	6.47	25		QM-07
Cadmium	1.46	0.200	"	2.26	0.0891	60.5	75-125	6.69	25		QM-07
Copper	14.9	0.400	"	45.2	2.07	28.5	75-125	1.19	25		QM-07
Lead	17.9	0.200	"	22.6	4.36	59.9	75-125	10.0	25		QM-07
Nickel	14.7	0.400	"	45.2	1.81	28.6	75-125	0.398	25		QM-07
Silver	1.32	0.0200	"	2.26	0.0172	57.8	75-125	5.16	25		QM-07
Zinc	18.8	0.400	"	45.2	6.20	27.9	75-125	1.71	25		QM-07
Selenium	3.33	0.260	"	4.52	ND	73.5	75-125	2.07	25		QM-07

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHA1018 - 3060A Mod

Blank (BHA1018-BLK1)

Prepared: 01/29/24 Analyzed: 01/31/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHA1018-BS1)

Prepared: 01/29/24 Analyzed: 01/31/24

Chromium, Hexavalent 24.0 0.30 mg/kg wet 25.0 95.8 80-120

Duplicate (BHA1018-DUP1)

Source: 2401443-01

Prepared: 01/29/24 Analyzed: 01/31/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHA1018-MS1)

Source: 2401443-01

Prepared: 01/29/24 Analyzed: 01/31/24

Chromium, Hexavalent 27.6 0.30 mg/kg dry 28.3 ND 97.6 75-125

Matrix Spike Dup (BHA1018-MSD1)

Source: 2401443-01

Prepared: 01/29/24 Analyzed: 01/31/24

Chromium, Hexavalent 27.2 0.30 mg/kg dry 28.3 ND 96.4 75-125 1.24 20

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

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 BHA0960 - General Preparation

Blank (BHA0960-BLK1)

Prepared: 01/26/24 Analyzed: 01/29/24

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

LCS (BHA0960-BS1)

Prepared: 01/26/24 Analyzed: 01/29/24

Calcium	6.41	0.0500	mg/L wet	5.00		128	70-130			
Magnesium	5.79	0.0500	"	5.00		116	70-130			
Sodium	5.87	0.0500	"	5.00		117	70-130			

Batch BHB0672 - General Preparation

Blank (BHB0672-BLK1)

Prepared: 02/21/24 Analyzed: 02/29/24

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

LCS (BHB0672-BS1)

Prepared: 02/21/24 Analyzed: 02/29/24

Calcium	5.12	0.0500	mg/L wet	5.00		102	70-130			
Magnesium	5.27	0.0500	"	5.00		105	70-130			
Sodium	5.26	0.0500	"	5.00		105	70-130			

Summit Scientific

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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

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 BHA0996 - General Preparation

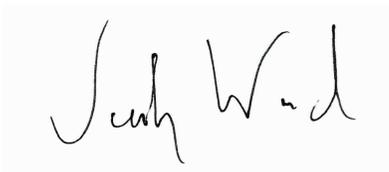
Duplicate (BHA0996-DUP1)

Source: 2401451-01

Prepared & Analyzed: 01/29/24

% Solids	87.6	%		87.5		0.154	20
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Summit Scientific



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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

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 BHA0972 - General Preparation

Blank (BHA0972-BLK1)

Prepared & Analyzed: 01/29/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHA0972-BS1)

Prepared & Analyzed: 01/29/24

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

Duplicate (BHA0972-DUP1)

Source: 2401451-01

Prepared & Analyzed: 01/29/24

Specific Conductance (EC) 1.51 0.0100 mmhos/cm 1.57 4.28 20

Summit Scientific



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Entrada Consulting Group
 240 Mesa Avenue
 Grand Junction, CO, 81501

Project: Lancaster #1
 Project Number: 021-183
 Project Manager: Ryan Finley

Reported:
 03/08/24 12:18

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 BHA0971 - General Preparation

LCS (BHA0971-BS1)																	
						Prepared & Analyzed: 01/29/24											
pH	9.30		pH Units	9.18	101	95-105											
Duplicate (BHA0971-DUP1)																	
						Source: 2401451-01						Prepared & Analyzed: 01/29/24					
pH	8.94		pH Units	9.03	1.00	20											

Batch BHB0715 - General Preparation

LCS (BHB0715-BS1)																	
						Prepared: 02/22/24 Analyzed: 02/26/24											
pH	9.13		pH Units	9.18	99.5	95-105											
Duplicate (BHB0715-DUP1)																	
						Source: 2401451-06RE1						Prepared: 02/22/24 Analyzed: 02/26/24					
pH	8.63		pH Units	8.77	1.61	20											

Batch BHB0926 - General Preparation

LCS (BHB0926-BS1)																	
						Prepared & Analyzed: 02/29/24											
pH	9.16		pH Units		95-105		I-04										
Duplicate (BHB0926-DUP1)																	
						Source: 2401586-05						Prepared & Analyzed: 02/29/24					
pH	7.44		pH Units	7.44	0.00	20											

Summit Scientific

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Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO, 81501

Project: Lancaster #1
Project Number: 021-183
Project Manager: Ryan Finley

Reported:
03/08/24 12:18

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- I-04 Sample was analyzed out of recommended holding time per clients request.
- 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