

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 27, 2025

AJ Engelhardt

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: PDC - Orr State 40-36 Pad

Work Order #2501109

Enclosed are the results of analyses for samples received by Summit Scientific on 01/10/25 18:11. 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 long, sweeping underline.

Jacob Wood For Paul Shrewsbury
President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS05@7'	2501109-01	Soil	01/10/25 13:43	01/10/25 18:11
SS06@7'	2501109-02	Soil	01/10/25 13:48	01/10/25 18:11
SS07@7'	2501109-03	Soil	01/10/25 13:53	01/10/25 18:11
SS08@7'	2501109-04	Soil	01/10/25 13:58	01/10/25 18:11
FS03@9'	2501109-05	Soil	01/10/25 13:35	01/10/25 18:11

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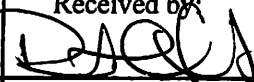
SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2501109	

Client: Chevron/Tasman	Send Data To: Project Manager: AJ Engelhardt	Send Invoice To: Company: Chevron PDC
Address: 6855 W. 119th Avenue	E-Mail: tas-chevron-3@tasman-geo.com	Project Name/Location: ORR Stage 40-36
City/State/Zip: Broomfield, CO 80020	RBUEUP27@chevron.com	AFE#:
Phone: 720-232-8004	Project Name: ORR Stage 40-36 Pao	PO/Billing Codes:
Sampler Name: ERIC KONZE	Project Number: 30155	Contact: Karen Olson

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-VOC	915-PAH	915-TPH	pH, EC, SAR		Boron	915-Metals
1	SS 05 @ 7'	1/10/25	1343	2			X			X									
2	SS 04 @ 7'	↓	1348	2															
3	SS 07 @ 7'	↓	1353	2															
4	SS 08 @ 7'	↓	1358	2															
5	FS 03 @ 9'	↓	1335	2															
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: 	Date/Time: 1/10/25 16:30	Received by: TASMUN Lockbox	Date/Time: 1/10/25 16:30	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: Tasman Lockbox	Date/Time: 1/10/25 1811	Received by: 	Date/Time: 1/10/25 1811	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 1.7	Corrected Temperature: 6	IR gun #:		Standard	Field Turb.	
					HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 2501109

Client: Chenvontasman/PDC Client Project ID: ORR State 40-36 Pad

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

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

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on site
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	same day
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

AS
Custodian Printed Name

1/10/25
Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

SS05@7'
2501109-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/25 13:43**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BIA0451	01/10/25	01/11/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/10/25 13:43**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0413	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/25 13:43**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BIA0454	01/10/25	01/11/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/25 13:43**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.0	80.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **01/10/25 13:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0562	01/14/25	01/18/25	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: **01/10/25 13:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0187	56.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/10/25 13:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0504	01/13/25	01/15/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/10/25 13:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: [none]
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SS05@7'
2501109-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.72	0.200	mg/kg dry	1	BIA0510	01/13/25	01/22/25	EPA 6020B
Barium	243	0.400	"	"	"	"	"	"
Cadmium	0.268	0.200	"	"	"	"	"	"
Copper	14.5	0.400	"	"	"	"	"	"
Lead	9.40	0.200	"	"	"	"	"	"
Nickel	16.6	0.400	"	"	"	"	"	"
Silver	0.0504	0.0200	"	"	"	"	"	"
Zinc	54.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/10/25 13:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0516	01/13/25	01/13/25	EPA 7196A	

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

Date Sampled: **01/10/25 13:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.1	0.0500	mg/L dry	1	BIA0457	01/10/25	01/15/25	EPA 6020B	
Magnesium	30.6	0.0500	"	"	"	"	"	"	
Sodium	48.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/10/25 13:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.29	0.00100	units	1	BIA0667	01/15/25	01/15/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/10/25 13:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SS05@7'
2501109-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.7	%	1	BIA0473	01/13/25	01/13/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/10/25 13:43**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.691	0.0100	mmhos/cm	1	BIA0458	01/10/25	01/13/25	EPA 120.1	

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

Date Sampled: **01/10/25 13:43**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BIA0459	01/10/25	01/13/25	EPA 9045D	

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SS06@7'
2501109-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/25 13:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIA0451	01/10/25	01/11/25	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/10/25 13:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0389	97.3 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/25 13:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIA0454	01/10/25	01/11/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/10/25 13:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.1	81.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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SS06@7'
2501109-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/10/25 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0562	01/14/25	01/18/25	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: **01/10/25 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0179	53.8 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0190	57.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/10/25 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0504	01/13/25	01/15/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/10/25 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SS06@7'
2501109-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.83	0.200	mg/kg dry	1	BIA0510	01/13/25	01/22/25	EPA 6020B
Barium	228	0.400	"	"	"	"	"	"
Cadmium	0.216	0.200	"	"	"	"	"	"
Copper	14.3	0.400	"	"	"	"	"	"
Lead	10.6	0.200	"	"	"	"	"	"
Nickel	15.8	0.400	"	"	"	"	"	"
Silver	0.0767	0.0200	"	"	"	"	"	"
Zinc	47.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/10/25 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0516	01/13/25	01/13/25	EPA 7196A	

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

Date Sampled: **01/10/25 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.5	0.0500	mg/L dry	1	BIA0457	01/10/25	01/15/25	EPA 6020B	
Magnesium	15.9	0.0500	"	"	"	"	"	"	
Sodium	17.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/10/25 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.583	0.00100	units	1	BIA0667	01/15/25	01/15/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/10/25 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
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SS06@7'
2501109-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.8	%	1	BIA0473	01/13/25	01/13/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/10/25 13:48**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.568	0.0100	mmhos/cm	1	BIA0458	01/10/25	01/13/25	EPA 120.1	

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

Date Sampled: **01/10/25 13:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BIA0459	01/10/25	01/13/25	EPA 9045D	

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Project: PDC - Orr State 40-36 Pad

Project Number: [none]
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Reported:
01/27/25 10:51

SS07@7'
2501109-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/25 13:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIA0451	01/10/25	01/11/25	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.85	0.50		"	"	"	"	"	"	

Date Sampled: **01/10/25 13:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0408	102 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/25 13:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	100	50		mg/kg	1	BIA0454	01/10/25	01/11/25	EPA 8015M	
C28-C36 (ORO)	110	50		"	"	"	"	"	"	

Date Sampled: **01/10/25 13:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.5	83.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

SS07@7'
2501109-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/10/25 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0562	01/14/25	01/18/25	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: **01/10/25 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0222	66.7 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0217	65.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/10/25 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0504	01/13/25	01/15/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/10/25 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

SS07@7'
2501109-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.48	0.200	mg/kg dry	1	BIA0510	01/13/25	01/22/25	EPA 6020B	
Barium	71.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	7.23	0.400	"	"	"	"	"	"	
Lead	5.34	0.200	"	"	"	"	"	"	
Nickel	7.59	0.400	"	"	"	"	"	"	
Silver	0.0244	0.0200	"	"	"	"	"	"	
Zinc	27.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/10/25 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0516	01/13/25	01/13/25	EPA 7196A	

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

Date Sampled: **01/10/25 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	85.5	0.0500	mg/L dry	1	BIA0457	01/10/25	01/15/25	EPA 6020B	
Magnesium	43.2	0.0500	"	"	"	"	"	"	
Sodium	53.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/10/25 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.18	0.00100	units	1	BIA0667	01/15/25	01/15/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
6855 W. 119th Ave.
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Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

SS07@7'
2501109-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/10/25 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.4		%	1	BIA0473	01/13/25	01/13/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/10/25 13:53**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.320	0.0100	mmhos/cm	1	BIA0458	01/10/25	01/13/25	EPA 120.1	

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

Date Sampled: **01/10/25 13:53**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BIA0459	01/10/25	01/13/25	EPA 9045D	

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Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

SS08@7'
2501109-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/25 13:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIA0451	01/10/25	01/11/25	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.018	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	19	0.50		"	"	"	"	"	"	

Date Sampled: **01/10/25 13:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0370	92.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0361	90.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0448	112 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/25 13:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	430	50		mg/kg	1	BIA0454	01/10/25	01/11/25	EPA 8015M	
C28-C36 (ORO)	1000	50		"	"	"	"	"	"	

Date Sampled: **01/10/25 13:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.2	89.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

SS08@7'
2501109-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/10/25 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0562	01/14/25	01/18/25	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	0.128	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0528	0.00500	"	"	"	"	"	"	

Date Sampled: **01/10/25 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0281	84.4 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0151	45.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/10/25 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0504	01/13/25	01/15/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/10/25 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

SS08@7'
2501109-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.01	0.200	mg/kg dry	1	BIA0510	01/13/25	01/22/25	EPA 6020B	
Barium	139	0.400	"	"	"	"	"	"	
Cadmium	0.256	0.200	"	"	"	"	"	"	
Copper	11.7	0.400	"	"	"	"	"	"	
Lead	8.21	0.200	"	"	"	"	"	"	
Nickel	12.9	0.400	"	"	"	"	"	"	
Silver	0.0471	0.0200	"	"	"	"	"	"	
Zinc	51.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/10/25 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0516	01/13/25	01/13/25	EPA 7196A	

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

Date Sampled: **01/10/25 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	40.3	0.0500	mg/L dry	1	BIA0457	01/10/25	01/15/25	EPA 6020B	
Magnesium	22.6	0.0500	"	"	"	"	"	"	
Sodium	28.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/10/25 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.882	0.00100	units	1	BIA0667	01/15/25	01/15/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/10/25 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

SS08@7'
2501109-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.9	%	1	BIA0473	01/13/25	01/13/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/10/25 13:58**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.695	0.0100	mmhos/cm	1	BIA0458	01/10/25	01/13/25	EPA 120.1	

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

Date Sampled: **01/10/25 13:58**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BIA0459	01/10/25	01/13/25	EPA 9045D	

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

FS03@9'
2501109-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/25 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIA0451	01/10/25	01/11/25	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/10/25 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0375	93.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0397	99.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.3 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/25 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIA0454	01/10/25	01/12/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/10/25 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.56	68.5 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

FS03@9'
2501109-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0562	01/14/25	01/18/25	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: **01/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0222	66.6 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0218	65.5 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0504	01/13/25	01/15/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/10/25 13:35**

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

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

FS03@9'
2501109-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	7.54	0.200	mg/kg dry	1	BIA0510	01/13/25	01/22/25	EPA 6020B
Barium	238	0.400	"	"	"	"	"	"
Cadmium	0.297	0.200	"	"	"	"	"	"
Copper	17.7	0.400	"	"	"	"	"	"
Lead	14.3	0.200	"	"	"	"	"	"
Nickel	23.4	0.400	"	"	"	"	"	"
Silver	0.0586	0.0200	"	"	"	"	"	"
Zinc	62.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0516	01/13/25	01/13/25	EPA 7196A	

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

Date Sampled: **01/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	633	0.0500	mg/L dry	1	BIA0457	01/10/25	01/15/25	EPA 6020B	
Magnesium	101	0.0500	"	"	"	"	"	"	
Sodium	77.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.756	0.00100	units	1	BIA0667	01/15/25	01/15/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

FS03@9'
2501109-05 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.2	%	1	BIA0473	01/13/25	01/13/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/10/25 13:35**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.396	0.0100	mmhos/cm	1	BIA0458	01/10/25	01/13/25	EPA 120.1	

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

Date Sampled: **01/10/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BIA0459	01/10/25	01/13/25	EPA 9045D	

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Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BIA0451 - EPA 5030 Soil MS

Blank (BIA0451-BLK1)

Prepared: 01/10/25 Analyzed: 01/11/25

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0393</i>		<i>"</i>	<i>0.0400</i>		<i>98.2</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0390</i>		<i>"</i>	<i>0.0400</i>		<i>97.4</i>	<i>50-150</i>			

LCS (BIA0451-BS1)

Prepared: 01/10/25 Analyzed: 01/11/25

Benzene	0.100	0.0020	mg/kg	0.100		100	70-130			
Toluene	0.100	0.0050	"	0.100		100	70-130			
Ethylbenzene	0.102	0.0050	"	0.100		102	70-130			
m,p-Xylene	0.206	0.010	"	0.200		103	70-130			
o-Xylene	0.101	0.0050	"	0.100		101	70-130			
1,2,4-Trimethylbenzene	0.0996	0.0050	"	0.100		99.6	70-130			
1,3,5-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
Naphthalene	0.0973	0.0038	"	0.100		97.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0419</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.7</i>	<i>50-150</i>			

Matrix Spike (BIA0451-MS1)

Source: 2501105-01

Prepared: 01/10/25 Analyzed: 01/11/25

Benzene	0.0926	0.0020	mg/kg	0.100	ND	92.6	70-130			
Toluene	0.0898	0.0050	"	0.100	ND	89.8	70-130			
Ethylbenzene	0.0958	0.0050	"	0.100	ND	95.8	70-130			
m,p-Xylene	0.193	0.010	"	0.200	ND	96.5	70-130			
o-Xylene	0.0946	0.0050	"	0.100	ND	94.6	70-130			
1,2,4-Trimethylbenzene	0.0932	0.0050	"	0.100	ND	93.2	70-130			
1,3,5-Trimethylbenzene	0.0941	0.0050	"	0.100	ND	94.1	70-130			
Naphthalene	0.0972	0.0038	"	0.100	ND	97.2	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0413</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.6</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			

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Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BIA0451 - EPA 5030 Soil MS

Matrix Spike Dup (BIA0451-MSD1)	Source: 2501105-01			Prepared: 01/10/25 Analyzed: 01/11/25						
Benzene	0.0884	0.0020	mg/kg	0.100	ND	88.4	70-130	4.74	30	
Toluene	0.0883	0.0050	"	0.100	ND	88.3	70-130	1.69	30	
Ethylbenzene	0.0888	0.0050	"	0.100	ND	88.8	70-130	7.60	30	
m,p-Xylene	0.179	0.010	"	0.200	ND	89.3	70-130	7.78	30	
o-Xylene	0.0894	0.0050	"	0.100	ND	89.4	70-130	5.61	30	
1,2,4-Trimethylbenzene	0.0861	0.0050	"	0.100	ND	86.1	70-130	7.93	30	
1,3,5-Trimethylbenzene	0.0876	0.0050	"	0.100	ND	87.6	70-130	7.17	30	
Naphthalene	0.0923	0.0038	"	0.100	ND	92.3	70-130	5.19	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0437</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>			

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Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

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 BIA0454 - EPA 3550A

Blank (BIA0454-BLK1)

Prepared: 01/10/25 Analyzed: 01/11/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	16.7		"	12.5		133		30-150			

LCS (BIA0454-BS1)

Prepared: 01/10/25 Analyzed: 01/11/25

C10-C28 (DRO)	569	50	mg/kg	500		114		70-130			
Surrogate: <i>o</i> -Terphenyl	14.9		"	12.5		119		30-150			

Matrix Spike (BIA0454-MS1)

Source: 2501105-01

Prepared: 01/10/25 Analyzed: 01/11/25

C10-C28 (DRO)	527	50	mg/kg	500	42.1	97.0		70-130			
Surrogate: <i>o</i> -Terphenyl	13.1		"	12.5		105		30-150			

Matrix Spike Dup (BIA0454-MSD1)

Source: 2501105-01

Prepared: 01/10/25 Analyzed: 01/11/25

C10-C28 (DRO)	514	50	mg/kg	500	42.1	94.5		70-130	2.45	20	
Surrogate: <i>o</i> -Terphenyl	12.4		"	12.5		99.0		30-150			

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Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIA0562 - EPA 5030 Soil MS

Blank (BIA0562-BLK1)

Prepared: 01/14/25 Analyzed: 01/17/25

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0175</i>		"	<i>0.0333</i>		<i>52.4</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0178</i>		"	<i>0.0333</i>		<i>53.3</i>	<i>40-140</i>			

LCS (BIA0562-BS1)

Prepared: 01/14/25 Analyzed: 01/21/25

Acenaphthene	0.0201	0.00500	mg/kg	0.0333		60.4	40-140			
Anthracene	0.0190	0.00500	"	0.0333		57.1	40-140			
Benzo (a) anthracene	0.0203	0.00500	"	0.0333		61.0	40-140			
Benzo (a) pyrene	0.0204	0.00500	"	0.0333		61.2	40-140			
Benzo (b) fluoranthene	0.0192	0.00500	"	0.0333		57.5	40-140			
Benzo (k) fluoranthene	0.0193	0.00500	"	0.0333		57.9	40-140			
Chrysene	0.0192	0.00500	"	0.0333		57.7	40-140			
Dibenz (a,h) anthracene	0.0198	0.00500	"	0.0333		59.5	40-140			
Fluoranthene	0.0200	0.00500	"	0.0333		60.1	40-140			
Fluorene	0.0182	0.00500	"	0.0333		54.6	40-140			
Indeno (1,2,3-cd) pyrene	0.0147	0.00500	"	0.0333		44.2	40-140			
Pyrene	0.0191	0.00500	"	0.0333		57.3	40-140			
1-Methylnaphthalene	0.0194	0.00500	"	0.0333		58.1	40-140			
2-Methylnaphthalene	0.0184	0.00500	"	0.0333		55.3	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0200</i>		"	<i>0.0333</i>		<i>60.0</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0217</i>		"	<i>0.0333</i>		<i>65.0</i>	<i>40-140</i>			

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Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

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 BIA0562 - EPA 5030 Soil MS

Matrix Spike (BIA0562-MS1)	Source: 2501087-01			Prepared: 01/14/25 Analyzed: 01/21/25						
Acenaphthene	0.0170	0.00500	mg/kg	0.0333	ND	51.1	40-140			
Anthracene	0.0175	0.00500	"	0.0333	ND	52.4	40-140			
Benzo (a) anthracene	0.0167	0.00500	"	0.0333	ND	50.2	40-140			
Benzo (a) pyrene	0.0175	0.00500	"	0.0333	ND	52.4	40-140			
Benzo (b) fluoranthene	0.0143	0.00500	"	0.0333	ND	42.8	40-140			
Benzo (k) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.4	40-140			
Chrysene	0.0174	0.00500	"	0.0333	ND	52.3	40-140			
Dibenz (a,h) anthracene	0.0208	0.00500	"	0.0333	ND	62.4	40-140			
Fluoranthene	0.0209	0.00500	"	0.0333	ND	62.6	40-140			
Fluorene	0.0247	0.00500	"	0.0333	ND	74.1	40-140			
Indeno (1,2,3-cd) pyrene	0.0147	0.00500	"	0.0333	ND	44.2	40-140			
Pyrene	0.0173	0.00500	"	0.0333	ND	52.0	40-140			
1-Methylnaphthalene	0.0155	0.00500	"	0.0333	ND	46.6	40-140			
2-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.9	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0140</i>		<i>"</i>	<i>0.0333</i>		<i>41.9</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0205</i>		<i>"</i>	<i>0.0333</i>		<i>61.5</i>	<i>40-140</i>			

Matrix Spike Dup (BIA0562-MSD1)	Source: 2501087-01			Prepared: 01/14/25 Analyzed: 01/21/25						
Acenaphthene	0.0154	0.00500	mg/kg	0.0333	ND	46.1	40-140	10.3	30	
Anthracene	0.0156	0.00500	"	0.0333	ND	46.7	40-140	11.5	30	
Benzo (a) anthracene	0.0153	0.00500	"	0.0333	ND	45.8	40-140	9.18	30	
Benzo (a) pyrene	0.0161	0.00500	"	0.0333	ND	48.3	40-140	7.98	30	
Benzo (b) fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	40-140	8.68	30	
Benzo (k) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.7	40-140	1.52	30	
Chrysene	0.0159	0.00500	"	0.0333	ND	47.8	40-140	9.11	30	
Dibenz (a,h) anthracene	0.0195	0.00500	"	0.0333	ND	58.4	40-140	6.65	30	
Fluoranthene	0.0182	0.00500	"	0.0333	ND	54.6	40-140	13.6	30	
Fluorene	0.0213	0.00500	"	0.0333	ND	64.0	40-140	14.6	30	
Indeno (1,2,3-cd) pyrene	0.0138	0.00500	"	0.0333	ND	41.4	40-140	6.65	30	
Pyrene	0.0155	0.00500	"	0.0333	ND	46.5	40-140	11.2	30	
1-Methylnaphthalene	0.0134	0.00500	"	0.0333	ND	40.2	40-140	14.8	30	
2-Methylnaphthalene	0.0135	0.00500	"	0.0333	ND	40.5	40-140	14.7	30	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0146</i>		<i>"</i>	<i>0.0333</i>		<i>43.7</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0183</i>		<i>"</i>	<i>0.0333</i>		<i>54.8</i>	<i>40-140</i>			

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

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

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

Batch BIA0504 - EPA 3050B

Blank (BIA0504-BLK1)

Prepared: 01/13/25 Analyzed: 01/15/25

Boron ND 2.00 mg/L

LCS (BIA0504-BS1)

Prepared: 01/13/25 Analyzed: 01/15/25

Boron 5.26 2.00 mg/L 5.00 105 80-120

Duplicate (BIA0504-DUP1)

Source: 2412421-01

Prepared: 01/13/25 Analyzed: 01/15/25

Boron 0.228 2.00 mg/L 0.297 26.4 20 QR-01

Matrix Spike (BIA0504-MS1)

Source: 2412421-01

Prepared: 01/13/25 Analyzed: 01/15/25

Boron 5.21 2.00 mg/L 5.00 0.297 98.3 75-125

Matrix Spike Dup (BIA0504-MSD1)

Source: 2412421-01

Prepared: 01/13/25 Analyzed: 01/15/25

Boron 5.47 2.00 mg/L 5.00 0.297 103 75-125 4.80 25

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Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIA0510 - EPA 3050B

Blank (BIA0510-BLK1)

Prepared: 01/13/25 Analyzed: 01/22/25

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

LCS (BIA0510-BS1)

Prepared: 01/13/25 Analyzed: 01/22/25

Arsenic	40.4	0.200	mg/kg wet	41.7	97.0	80-120
Barium	41.6	0.400	"	41.7	99.9	80-120
Cadmium	2.04	0.200	"	2.08	98.0	80-120
Copper	40.9	0.400	"	41.7	98.1	80-120
Lead	20.8	0.200	"	20.8	100	80-120
Nickel	40.5	0.400	"	41.7	97.3	80-120
Silver	2.08	0.0200	"	2.08	99.8	80-120
Zinc	40.1	0.400	"	41.7	96.2	80-120
Selenium	4.14	0.260	"	4.17	99.4	80-120

Duplicate (BIA0510-DUP1)

Source: 2501100-02

Prepared: 01/13/25 Analyzed: 01/22/25

Arsenic	1.45	0.200	mg/kg dry	1.51	4.02	20
Barium	30.4	0.400	"	28.3	7.21	20
Cadmium	0.0555	0.200	"	0.0583	4.78	20
Copper	1.35	0.400	"	1.37	1.41	20
Lead	2.54	0.200	"	2.43	4.48	20
Nickel	1.74	0.400	"	1.65	5.18	20
Silver	0.00327	0.0200	"	0.00298	9.30	20
Zinc	7.01	0.400	"	7.22	3.05	20
Selenium	ND	0.260	"	ND		20

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Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

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 BIA0510 - EPA 3050B

Matrix Spike (BIA0510-MS1)

Source: 2501100-02

Prepared: 01/13/25 Analyzed: 01/22/25

Arsenic	41.3	0.200	mg/kg dry	42.5	1.51	93.5	75-125			
Barium	70.8	0.400	"	42.5	28.3	99.9	75-125			
Cadmium	2.22	0.200	"	2.13	0.0583	102	75-125			
Copper	41.7	0.400	"	42.5	1.37	94.8	75-125			
Lead	24.3	0.200	"	21.3	2.43	103	75-125			
Nickel	42.1	0.400	"	42.5	1.65	95.2	75-125			
Silver	2.13	0.0200	"	2.13	0.00298	100	75-125			
Zinc	48.8	0.400	"	42.5	7.22	97.7	75-125			
Selenium	3.53	0.260	"	4.25	ND	83.0	75-125			

Matrix Spike Dup (BIA0510-MSD1)

Source: 2501100-02

Prepared: 01/13/25 Analyzed: 01/22/25

Arsenic	38.9	0.200	mg/kg dry	40.5	1.51	92.2	75-125	6.03	25
Barium	73.0	0.400	"	40.5	28.3	110	75-125	3.13	25
Cadmium	2.04	0.200	"	2.03	0.0583	98.0	75-125	8.28	25
Copper	39.2	0.400	"	40.5	1.37	93.3	75-125	6.23	25
Lead	23.4	0.200	"	20.3	2.43	103	75-125	4.03	25
Nickel	39.6	0.400	"	40.5	1.65	93.6	75-125	6.23	25
Silver	1.95	0.0200	"	2.03	0.00298	96.2	75-125	8.78	25
Zinc	45.4	0.400	"	40.5	7.22	94.3	75-125	7.08	25
Selenium	3.41	0.260	"	4.05	ND	84.1	75-125	3.50	25

Summit Scientific

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



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

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 BIA0516 - 3060A Mod

Blank (BIA0516-BLK1)

Prepared & Analyzed: 01/13/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BIA0516-BS1)

Prepared & Analyzed: 01/13/25

Chromium, Hexavalent 24.6 0.30 mg/kg wet 24.8 99.2 80-120

Duplicate (BIA0516-DUP1)

Source: 2412360-01

Prepared & Analyzed: 01/13/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BIA0516-MS1)

Source: 2412360-01

Prepared & Analyzed: 01/13/25

Chromium, Hexavalent 27.6 0.30 mg/kg dry 27.5 ND 100 75-125

Matrix Spike Dup (BIA0516-MSD1)

Source: 2412360-01

Prepared & Analyzed: 01/13/25

Chromium, Hexavalent 28.0 0.30 mg/kg dry 28.0 ND 99.8 75-125 1.44 20

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

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 BIA0457 - General Preparation

Blank (BIA0457-BLK1)

Prepared: 01/10/25 Analyzed: 01/15/25


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

LCS (BIA0457-BS1)

Prepared: 01/10/25 Analyzed: 01/15/25

Calcium	5.51	0.0500	mg/L wet	5.00		110	70-130			
Magnesium	5.40	0.0500	"	5.00		108	70-130			
Sodium	5.83	0.0500	"	5.00		117	70-130			

Summit Scientific



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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

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

Summit Scientific

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

Batch BIA0473 - General Preparation


Duplicate (BIA0473-DUP1)

Source: 2501103-01

Prepared & Analyzed: 01/13/25

% Solids	91.0		%		86.8			4.67	20	
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Summit Scientific



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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

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

Summit Scientific

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

Batch BIA0458 - General Preparation

Blank (BIA0458-BLK1)

Prepared: 01/10/25 Analyzed: 01/13/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIA0458-BS1)

Prepared: 01/10/25 Analyzed: 01/13/25

Specific Conductance (EC) 1.41 0.0100 mmhos/cm 1.41 99.9 95-105

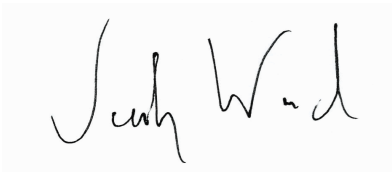
Duplicate (BIA0458-DUP1)

Source: 2412455-01

Prepared: 01/10/25 Analyzed: 01/13/25

Specific Conductance (EC) 1.23 0.0100 mmhos/cm 1.24 0.427 20

Summit Scientific



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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

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 BIA0459 - General Preparation

LCS (BIA0459-BS1)

Prepared: 01/10/25 Analyzed: 01/13/25

pH	9.03	pH Units	9.18	98.4	95-105
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Duplicate (BIA0459-DUP1)

Source: 2412455-01

Prepared: 01/10/25 Analyzed: 01/13/25

pH	7.64	pH Units	7.70	0.722	20
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Summit Scientific



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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Orr State 40-36 Pad

Project Number: [none]
Project Manager: AJ Engelhardt

Reported:
01/27/25 10:51

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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