

TABLE 1
FORMER BUNN 1-34 M WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS

Sample ID	Date Sampled	Depth	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1, 2, 4-TMB (mg/kg)	1, 3, 5-TMB (mg/kg)	Naphthalene (mg/kg)	TPH ⁽⁴⁾ (mg/kg)
Residential SSL ^(1,2)			1.2	490	5.8	58	30	27	2	500
Protection of Groundwater SSL ^(1,2,3)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500
WH01-B @ 6'	3/7/2024	6 ft. bgs	<0.0020	<0.0050	0.023	0.68	0.34	0.42	<0.0038	5,600
WH01-N @ 4'	3/7/2024	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	0.016	<0.0038	6.2

Notes:

1. Compounds referenced from the ECOM 2 CCR 404-1, Table 915-1, effective January 15, 2021.
2. Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
3. SSLs are applicable if a pathway for communication with groundwater is present.
4. Value calculated by adding TPH-GRO, TPH-DRO, and TPH-ORO concentrations.

ECMC = Colorado Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit.

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram

TMB = Trimethylbenzene

ft. = feet

bgs = Below ground surface

BOLD = Analytical result is in exceedance of applicable standard.

**TABLE 2
FORMER BUNN M 1-34 WELLHEAD
FIELD DATA SUMMARY TABLE**

Sample ID	Date Sampled	Depth	GPS Data ⁽¹⁾		PDOP Value	VOC Concentration ⁽²⁾ (ppm)
			Latitude	Longitude		
WH01-B @ 6'	3/7/2024	6 ft. bgs	40.442777	-104.757545	0.8	197
WH01-N @ 4'	3/7/2024	4 ft. bgs	40.442783	-104.757553	0.9	14.5
WH01-W @ 4'	3/7/2024	4 ft. bgs	40.442767	-104.757566	0.8	7.3
WH01-S @ 4'	3/7/2024	4 ft. bgs	40.442748	-104.757550	0.8	0.1
WH01-E @ 4'	3/7/2024	4 ft. bgs	40.442770	-104.757539	0.8	0.2
WC01 @ 4'	3/7/2024	4 ft. bgs	NC	NC	NC	398
WHS01-N @ 0-6"	3/7/2024	0-6 in. bgs	40.442808	-104.757554	0.8	0.1
WHS01-W @ 0-6"	3/7/2024	0-6 in. bgs	40.442766	-104.757600	0.8	0.1
WHS01-S @ 0-6"	3/7/2024	0-6 in. bgs	40.442712	-104.757527	0.9	0.0
WHS01-E @ 0-6"	3/7/2024	0-6 in. bgs	40.442773	-104.757481	0.9	0.0

Notes:

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum 1983 (NAD83) UTM Zone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

ft. = Feet

in. = Inches

bgs = Below ground surface

NC = Data not collected

NA = Not applicable

ATTACHMENT A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 08, 2024

Karen Olson

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: PDC - Bunn M 1-34 Wellhead

Work Order #2403124

Enclosed are the results of analyses for samples received by Summit Scientific on 03/07/24 17:42. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

DRAFT REPORT

DATA SUBJECT TO CHANGE



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

Project: PDC - Bunn M 1-34 Wellhead

Project Number: [none]
Project Manager: Karen Olson

Reported:
03/08/24 08:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01-B@6'	2403124-01	Soil	03/07/24 12:00	03/07/24 17:42
WH01-N@4'	2403124-02	Soil	03/07/24 12:05	03/07/24 17:42

DRAFT REPORT

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.



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

Lab ID	Page 1 of
2403124	

Client: PDC PDC / Tasman		Send Data To: Project Manager: Karen Olson		Send Invoice To: Company: PDC Energy	
Address: 6855 W 119th Ave		E-Mail: karen.olson@chevron.com		Project Name/Location:	
City/State/Zip: Broomfield / CO / 80220				AFE#:	
Phone: 303-487-1228		Project Name: ^{JH} Bunn M 1-34 Tank Battery Wellhead		PO/Billing Codes:	
Sampler Name: Jordan Hestmark		Project Number:		Contact: Karen Olson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil		Other	BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5 - TMB	Boron - HWS	pH, EC, SAR	PAHs - 915		Metals - 915	TDS, SO4, CI
1	WH01-B @ 6'	3/7/24	1200	2			X			X		X	X	X	X	X	X	X			
2	WH01-N @ 4'		1205									X	X	X	X	X	X	X			
3	WH01-W @ 4'		1210																		X
4	WH01-S @ 4'		1215																		
5	WH01-E @ 4'		1220																		
6	WC01 @ 4'		1100																		
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: Jordan Hestmark 3/7/24 1641	Received by: Tasman Lockbox 3/7/24 1641	TAT Business Days	Field DO	Notes: Base organics on same day, all other constituents on 48 hr turn
		Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: Tasman Lockbox 3/7/24 1742	Received by: [Signature] 3/7/24 1742	1 Day	Field ORP	
		2 Days	Field pH	
Relinquished by:	Received by:	3 Days	Field Temp.	
		Standard	Field Turb.	
Temperature Upon Receipt: 9.9	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:	

S2

Sample Receipt Checklist

S2 Work Order# 2403124

Client: Proctorman Client Project ID: Bunn m 134 ^{Well head} ~~XXXXXXXXXX~~

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

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

Temp (°C) 9.9 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>and</u>
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same day</u>
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

3/7/24
Date/Time



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

Project: PDC - Bunn M 1-34 Wellhead

Project Number: [none]
Project Manager: Karen Olson

Reported:
03/08/24 08:26

WH01-B@6'
2403124-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

PRELM

Date Sampled: **03/07/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0203	03/07/24	03/08/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.023	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.68	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.34	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.42	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1100	5.0	"	10	"	"	"	"	

Date Sampled: **03/07/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0616	154 %	50-150		"	"	"	"	S-02
Surrogate: Toluene-d8	0.0394	98.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.111	277 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/07/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	3400	50	mg/kg	1	BHC0201	03/07/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	1100	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	16.0	128 %	30-150		"	"	"	"	

DRAFT REPORT

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: PDC - Bunn M 1-34 Wellhead

Project Number: [none]
Project Manager: Karen Olson

Reported:
03/08/24 08:26

WH01-N@4'
2403124-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

PRELM

Date Sampled: **03/07/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0203	03/07/24	03/08/24	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	0.016	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	6.2	0.50	"	"	"	"	"	"	

Date Sampled: **03/07/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0352	88.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0453	113 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0470	118 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

PRELM

Date Sampled: **03/07/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0201	03/07/24	03/08/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/07/24 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.4	91.3 %	30-150		"	"	"	"	

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Project: PDC - Bunn M 1-34 Wellhead

Project Number: [none]
Project Manager: Karen Olson

Reported:
03/08/24 08:26

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

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

Batch BHC0201 - EPA 3550A

Blank (BHC0201-BLK1)				Prepared: 03/07/24 Analyzed: 03/08/24						
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
<i>Surrogate: o-Terphenyl</i>	11.5		"	12.5		92.4	30-150			
LCS (BHC0201-BS1)				Prepared: 03/07/24 Analyzed: 03/08/24						
C10-C28 (DRO)	411	50	mg/kg	500		82.2	70-130			
<i>Surrogate: o-Terphenyl</i>	12.7		"	12.5		101	30-150			
Matrix Spike (BHC0201-MS1)				Source: 2403119-01		Prepared: 03/07/24 Analyzed: 03/08/24				
C10-C28 (DRO)	368	50	mg/kg	500	22.4	69.2	70-130			QM-07
<i>Surrogate: o-Terphenyl</i>	11.9		"	12.5		95.1	30-150			
Matrix Spike Dup (BHC0201-MSD1)				Source: 2403119-01		Prepared: 03/07/24 Analyzed: 03/08/24				
C10-C28 (DRO)	404	50	mg/kg	500	22.4	76.3	70-130	9.25	20	
<i>Surrogate: o-Terphenyl</i>	11.7		"	12.5		93.3	30-150			

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

Project: PDC - Bunn M 1-34 Wellhead

Project Number: [none]
Project Manager: Karen Olson

Reported:
03/08/24 08:26

Notes and Definitions

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