

TABLE 1
FORMER GREEN 13-24 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE

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
FLR01 @ 3'	3/17/2021	3 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50

Notes:

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

COGCC = Colorado Oil and Gas Conservation Commission

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

TVPH-GRO = Total volatile petroleum hydrocarbons - gasoline range organics

TEPH-DRO = Total extractable petroleum hydrocarbons - diesel range organics

TEPH-ORO = Total extactable petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram

TMB = Trimethylbenzene

ft. = Feet

bgs = Below ground surface

TABLE 2
FORMER GREEN 13-24 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE
INORGANIC COMPOUNDS

Sample ID	Date Sampled	Depth	pH (units)	EC (mmhos/cm)	SAR (units)	Boron (mg/L)
Soil Suitability for Reclamation Standard ⁽¹⁾			6-8.3	<4	<6	2
WH01 @ 2.5'	3/17/2021	2.5 ft. bgs	8.15	1.40	1.03	0.182

Notes:

1. Compounds referenced from the COGCC 2 CCR 404-1, Table 915-1, effective January 15, 2021.

COGCC = Colorado Oil and Gas Conservation Commission

EC = Electrical conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

mg/L = milligram per liter

ft. = Feet

bgs = Below ground surface

TABLE 3
FORMER GREEN 13-24 WELLHEAD
FIELD DATA SUMMARY TABLE

Sample ID	Date Sampled	Depth	GPS Data ⁽¹⁾ Latitude / Longitude		PDOP Value	VOC Concentration ⁽²⁾ (ppm)
WH01 @ 2.5'	3/17/2021	2.5 ft. bgs	40.557370	-104.618125	1.1	0.2
FLR01 @ 3'	3/17/2021	3 ft. bgs	40.557370	-104.618105	1.1	1.4
WHS01-N @ 0-6"	3/17/2021	0-6 in. bgs	40.557390	-104.618117	1.1	0.1
WHS01-E @ 0-6"	3/17/2021	0-6 in. bgs	40.557362	-104.618070	1.1	0.1
WHS01-S @ 0-6"	3/17/2021	0-6 in. bgs	40.557339	-104.618096	1.1	0.0
WHS01-W @ 0-6"	3/17/2021	0-6 in. bgs	40.557371	-104.618159	1.1	0.1
FL01-01 @ 3'	3/17/2021	3 ft. bgs	40.557400	-104.619200	0.9	0.1
FL01-02 @ 3'	3/17/2021	3 ft. bgs	40.557424	-104.620206	0.9	0.2
FL01-03 @ 4'	3/17/2021	4 ft. bgs	40.556654	-104.620214	1.0	0.1
FL01-04 @ 4'	3/17/2021	4 ft. bgs	40.556340	-104.620237	1.0	0.3

Notes:

1. Global Positioning System (GPS) data is provided in decimal degrees using World Geodetic System (WGS) 84 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

Attachment A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 29, 2021

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Green 13-24 Wellhead

Work Order #2103268

Enclosed are the results of analyses for samples received by Summit Scientific on 03/17/21 18:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Green 13-24 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/29/21 17:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@2.5'	2103268-01	Soil	03/17/21 11:51	03/17/21 18:10
FLR01@3'	2103268-02	Soil	03/17/21 11:52	03/17/21 18:10

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.

Summit Scientific
S₂

2103268

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: PDC / Tasman

Project Manager: Mark Longhurst

Address: 6855 W 119th Ave

E-Mail: mark.longhurst@PDCE.com

City/State/Zip: Broomfield/ CO/ 80020

Phone: 303-487-1228

Project Name: Green 13-24 wellhead

Sampler Name: Kevin Fletcher

Project Number:

[illegible]


Relinquished by: Kevin Fletcher Date/Time: 3/17/21
1640

Received by:	Date/Time:
Tasman's Lock Box	3/17/21 1640

Turn Around Time	(Check)
Same Day	72 hours
24 hours	Standard

Notes:

Relinquished by: **Tasman's Lock Box** Date/Time: **3-17-21 18:10**

Received by:  Date/Time: 3-17-21 18:10

Sample Integrity:
Temperature Upon Receipt: 2.6
Samples Intact: (Yes) No

Relinquished by: _____ Date/Time: _____

Received by: _____ Date/Time: _____

2103268

Sample Receipt Checklist

S2 Work Order _____

Client: PDC/TASMAN Client Project ID: GREEN 13-24 WELLHEADShipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____Matrix (check all that apply): _____ Air ☒ Soil/Solid _____ Water _____ Other: _____
(Describe)

Temp (°C)	<u>2.6</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<input checked="" type="checkbox"/>			
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.Muri P.
Custodian Printed Name or Initials
Signature of Custodian3-17-21
Date/Time



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Green 13-24 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/29/21 17:21

WH01@2.5'
2103268-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/17/21 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.182	0.0100	mg/L	1	BEC0461	03/26/21	03/27/21	EPA 6020B	

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

Date Sampled: **03/17/21 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	337	0.0606	mg/L dry	1	BEC0371	03/22/21	03/24/21	EPA 6020B	
Magnesium	59.4	0.0606	"	"	"	"	"	"	
Sodium	77.8	0.0606	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/17/21 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.03	0.100	units	1	BEC0449	03/25/21	03/25/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/17/21 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.5		%	1	BEC0379	03/23/21	03/24/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/17/21 11:51**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.40	0.0100	mmhos/cm	1	BEC0398	03/23/21	03/23/21	EPA 120.1	

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

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Green 13-24 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/29/21 17:21

WH01@2.5'
2103268-01 (Soil)

Summit Scientific

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

Date Sampled: **03/17/21 11:51**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.15			pH Units	1	BEC0399	03/23/21	03/23/21	EPA 9045D	

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Green 13-24 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/29/21 17:21

FLR01@3'
2103268-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/17/21 11:52**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEC0362	03/22/21	03/22/21	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: **03/17/21 11:52**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		130 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		84.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.5 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/17/21 11:52**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0363	03/22/21	03/22/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/17/21 11:52**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		82.1 %	30-150		"	"	"	"	

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Green 13-24 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/29/21 17:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEC0362 - EPA 5030 Soil MS

Blank (BEC0362-BLK1)

Prepared: 03/22/21 Analyzed: 03/23/21

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	0.0323		"	0.0400		80.8	23-173			
Surrogate: Toluene-d8	0.0410		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0368		"	0.0400		92.0	21-167			

LCS (BEC0362-BS1)

Prepared: 03/22/21 Analyzed: 03/23/21

Benzene	0.133	0.0020	mg/kg	0.150		88.3	70-130			
Toluene	0.132	0.0050	"	0.150		88.2	70-130			
Ethylbenzene	0.135	0.0050	"	0.150		90.2	70-130			
m,p-Xylene	0.269	0.010	"	0.300		89.6	70-130			
o-Xylene	0.136	0.0050	"	0.150		90.7	70-130			
1,2,4-Trimethylbenzene	0.141	0.0050	"	0.150		93.9	70-130			
1,3,5-Trimethylbenzene	0.142	0.0050	"	0.150		94.5	70-130			
Naphthalene	0.157	0.0038	"	0.150		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0370		"	0.0400		92.5	23-173			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0411		"	0.0400		103	21-167			

Matrix Spike (BEC0362-MS1)

Source: 2103235-01

Prepared: 03/22/21 Analyzed: 03/23/21

Benzene	0.143	0.0020	mg/kg	0.150	ND	95.2	70-130			
Toluene	0.146	0.0050	"	0.150	ND	97.1	70-130			
Ethylbenzene	0.146	0.0050	"	0.150	ND	97.1	70-130			
m,p-Xylene	0.290	0.010	"	0.300	0.00585	94.6	70-130			
o-Xylene	0.148	0.0050	"	0.150	ND	98.5	70-130			
1,2,4-Trimethylbenzene	0.144	0.0050	"	0.150	ND	95.8	70-130			
1,3,5-Trimethylbenzene	0.143	0.0050	"	0.150	ND	95.4	70-130			
Naphthalene	0.167	0.0038	"	0.150	0.00747	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0393		"	0.0400		98.2	23-173			
Surrogate: Toluene-d8	0.0402		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	21-167			

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Green 13-24 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/29/21 17:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BEC0362 - EPA 5030 Soil MS

Matrix Spike Dup (BEC0362-MSD1)	Source: 2103235-01			Prepared: 03/22/21 Analyzed: 03/23/21						
Benzene	0.137	0.0020	mg/kg	0.150	ND	91.6	70-130	3.81	30	
Toluene	0.138	0.0050	"	0.150	ND	91.7	70-130	5.70	30	
Ethylbenzene	0.140	0.0050	"	0.150	ND	93.1	70-130	4.21	30	
m,p-Xylene	0.278	0.010	"	0.300	0.00585	90.8	70-130	4.02	30	
o-Xylene	0.144	0.0050	"	0.150	ND	95.7	70-130	2.86	30	
1,2,4-Trimethylbenzene	0.141	0.0050	"	0.150	ND	94.2	70-130	1.77	30	
1,3,5-Trimethylbenzene	0.139	0.0050	"	0.150	ND	92.9	70-130	2.65	30	
Naphthalene	0.170	0.0038	"	0.150	0.00747	109	70-130	2.28	30	
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.4	23-173			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	21-167			

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Green 13-24 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/29/21 17:21

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEC0363 - EPA 3550A

Blank (BEC0363-BLK1)

Prepared & Analyzed: 03/22/21

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BEC0363-BS1)

Prepared & Analyzed: 03/22/21

C10-C28 (DRO)	477	50	mg/kg	500	95.4	70-130
---------------	-----	----	-------	-----	------	--------

Matrix Spike (BEC0363-MS1)

Source: 2103265-01

Prepared & Analyzed: 03/22/21

C10-C28 (DRO)	430	50	mg/kg	500	17.4	82.6	70-130
---------------	-----	----	-------	-----	------	------	--------

Matrix Spike Dup (BEC0363-MSD1)

Source: 2103265-01

Prepared & Analyzed: 03/22/21

C10-C28 (DRO)	449	50	mg/kg	500	17.4	86.4	70-130	4.37	20
---------------	-----	----	-------	-----	------	------	--------	------	----

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Green 13-24 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/29/21 17:21

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

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

Batch BEC0461 - EPA 3050B

Blank (BEC0461-BLK1)

Prepared: 03/26/21 Analyzed: 03/27/21

Boron ND 0.0100 mg/L

LCS (BEC0461-BS1)

Prepared: 03/26/21 Analyzed: 03/27/21

Boron 5.39 0.0100 mg/L 5.00 108 80-120

Duplicate (BEC0461-DUP1)

Source: 2103225-03

Prepared: 03/26/21 Analyzed: 03/27/21

Boron 0.0948 0.0100 mg/L 0.101 6.41 20

Matrix Spike (BEC0461-MS1)

Source: 2103225-03

Prepared: 03/26/21 Analyzed: 03/27/21

Boron 5.36 0.0100 mg/L 5.00 0.101 105 75-125

Matrix Spike Dup (BEC0461-MSD1)

Source: 2103225-03

Prepared: 03/26/21 Analyzed: 03/27/21

Boron 4.96 0.0100 mg/L 5.00 0.101 97.1 75-125 7.85 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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Green 13-24 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/29/21 17:21

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

Summit Scientific

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

Batch BEC0371 - General Preparation

Blank (BEC0371-BLK1)

Prepared: 03/22/21 Analyzed: 03/24/21

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

LCS (BEC0371-BS1)

Prepared: 03/22/21 Analyzed: 03/24/21

Calcium	4.46	0.0500	mg/L wet	5.00	89.3	70-130
Magnesium	5.13	0.0500	"	5.00	103	70-130
Sodium	4.90	0.0500	"	5.00	98.1	70-130

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Green 13-24 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/29/21 17:21

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

Summit Scientific

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

Batch BEC0379 - General Preparation

Duplicate (BEC0379-DUP1)		Source: 2103239-02		Prepared: 03/23/21 Analyzed: 03/24/21	
% Solids	84.9		%	85.5	0.788 20

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Green 13-24 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/29/21 17:21

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

Summit Scientific

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

Batch BEC0398 - General Preparation

Blank (BEC0398-BLK1)

Prepared & Analyzed: 03/23/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEC0398-BS1)

Prepared & Analyzed: 03/23/21

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 106 90-110

Duplicate (BEC0398-DUP1)

Source: 2103057-01

Prepared & Analyzed: 03/23/21

Specific Conductance (EC) 1.20 0.0100 mmhos/cm 1.20 0.0835 20

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Green 13-24 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/29/21 17:21

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

Summit Scientific

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

Batch BEC0399 - General Preparation

LCS (BEC0399-BS1)

Prepared & Analyzed: 03/23/21

pH	9.25	pH Units	9.21	100	95-105
----	------	----------	------	-----	--------

Duplicate (BEC0399-DUP1)

Source: 2103057-01

Prepared & Analyzed: 03/23/21

pH	9.00	pH Units	8.93	0.781	20
----	------	----------	------	-------	----

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.



PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Green 13-24 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/29/21 17:21

Notes and Definitions

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