

TABLE 1
FORMER MCKENNEY 6-43 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
WH01 @ 6'	8/10/2021	6 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
FLR01 @ 4'	8/10/2021	4 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 extractable petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram

TMB = Trimethylbenzene

ft. = Feet

bgs = Below ground surface

TABLE 2
FORMER MCKENNEY 6-43 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 @ 6'	8/10/2021	6 ft. bgs	8.55	0.308	1.10	<0.0100
FLR01 @ 4'	8/10/2021	4 ft. bgs	8.49	0.232	0.521	0.0306
BKG01 @ 6'	8/10/2021	6 ft. bgs	8.70	NA	NA	NA
BKG01 @ 4'	8/10/2021	4 ft. bgs	8.81	NA	NA	NA

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

BOLD = Analytical result is in exceedance of applicable standard.

BOLD = Analytical result is in exceedance of applicable standard but below background concentrations.

NA = Constituent not analyzed

TABLE 3
FORMER MCKENNEY 6-43 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS - PAHs

Sample ID	Date Sampled	Depth	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benz(a) (mg/kg)	Benzo(a) (mg/kg)	Benzo(b) (mg/kg)	Benzo(k) (mg/kg)	Chrysene (mg/kg)	A,H (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	Pyrene (mg/kg)	1-M (mg/kg)	2-M (mg/kg)
Residential SSL ^(1,2)			360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
Protection of Groundwater SSL ^(1,2,3)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
WH01 @ 6'	8/10/2021	6 ft. bgs	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FLR01 @ 4'	8/10/2021	4 ft. bgs	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

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
- COGCC = Colorado Oil and Gas Conservation Commission
(<) = Analytical result is less than the indicated laboratory reporting limit.
PAHs = Polycyclic aromatic hydrocarbons
Benz(a) = Benzantracene
Benzo(a) = Benzopyrene
Benzo(b) = Benzo(a)fluoranthene
Benzo(k) = Benzo(a)fluoranthene
A,H = Dibenzoanthracene
1,2,3-CD = Indenopyrene
M = Methylanththalene
mg/kg = Milligrams per kilogram
ft. = Feet
bgs = Below ground surface

TABLE 4
FORMER MCKENNEY 6-43 WELLHEAD
FIELD DATA SUMMARY TABLE

Sample ID	Date Sampled	Depth	GPS Data ⁽¹⁾ Latitude / Longitude		PDOP Value	VOC Concentration ⁽²⁾ (ppm)
WH01 @ 6'	8/10/2021	6 ft. bgs	40.248891	-104.591368	1.1	0.0
FLR01 @ 4'	8/10/2021	4 ft. bgs	40.248899	-104.591358	1.0	0.4
WHS01-N @ 0-6"	8/10/2021	0-6 in. bgs	40.248937	-104.591368	1.0	0.0
WHS01-W @ 0-6"	8/10/2021	0-6 in. bgs	40.248894	-104.591437	1.0	0.0
WHS01-S @ 0-6"	8/10/2021	0-6 in. bgs	40.248830	-104.591401	0.9	0.0
WHS01-E @ 0-6"	8/10/2021	0-6 in. bgs	40.248864	-104.591308	0.9	0.0
BKG01 @ 4'	8/10/2021	4 ft. bgs	40.248970	-104.591468	0.9	0.1
BKG01 @ 6'	8/10/2021	6 ft. bgs	40.248970	-104.591468	0.9	0.0
FL01-01 @ 4'	8/10/2021	4 ft. bgs	40.249423	-104.591898	0.9	0.0
FL01-02 @ 4'	8/10/2021	4 ft. bgs	40.249976	-104.592472	0.9	0.1
FL01-03 @ 4'	8/10/2021	4 ft. bgs	40.250394	-104.592936	1.0	0.2

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

NC = Data not collected

Attachment A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 26, 2021

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

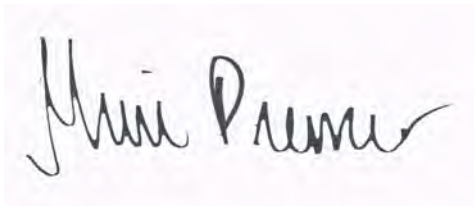
Denver, CO 80203

RE: McKenney 6-43 Wellhead

Work Order #2108148

Enclosed are the results of analyses for samples received by Summit Scientific on 08/10/21 17:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premer". The signature is written in a cursive style with a large, stylized "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



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

Project: McKenney 6-43 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6'	2108148-01	Soil	08/10/21 10:48	08/10/21 17:50
FLR01@4'	2108148-02	Soil	08/10/21 10:50	08/10/21 17:50
BKG01@4'	2108148-03	Soil	08/10/21 10:53	08/10/21 17:50
BKG01@6'	2108148-04	Soil	08/10/21 10:59	08/10/21 17:50

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.

2108148

303-277-9310

Page 1 of 1

Project Number:

Sampler Name: <u>Cody Miller</u>					Project Name: <u>Ramsen</u>					Analysis Requested										Special Instructions			
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	⁹¹⁵ GBTEXN - 8260B	⁹¹⁵ TPH - (C6 - C36)	⁹¹⁵ pH, EC, SAR	⁹¹⁵ Boron - HWS	VOC - 915	PAH - 915	Metals - 915	⁹¹⁵ 7MBz, (1,2,3,4,6,7,8)	⁹¹⁵	pH, EC, SAR by saturated paste	
1	WH01 26'	8/10/21	1048	3			X			X			X	X	X	X		X		X			
2	FLR01 24'		1050	3			X			X			X	X	X	X		X		X			
3	BKG01 24'		1053	1			X			X													X
4	BKG01 26'		1059	1			X			X													X
5																							
6																							
7																							
8																							
9																							
10																							

Relinquished by: Cody Miller
Date/Time: 8/10/21 1320

Received by: Tasman's Lock Box
Date/Time: 8/10/21 1320

Turn Around Time (Check)
Same Day 72 hours
24 hours Standard X
48 hours
Sample Integrity:
Temperature Upon Receipt: 10
Samples Intact: Yes No

Notes:

Relinquished by: Tasman's Lock Box
Date/Time: 8/10/21 1750

Received by: Will Lat
Date/Time: 8/10/21 1750

Relinquished by:
Date/Time:

Received by:
Date/Time:

Sample Receipt Checklist

S2 Work Order 2108148

Client: PDC/TASMAN

Client Project ID: McKenney 643 wellhead

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

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Temp (°C) 10

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice</u>
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	
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"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽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, H2SO4, NaOH, HNO3, ect	<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.

WJ
Custodian Printed Name or Initials

Will Loh
Signature of Custodian

5/10/21
Date/Time



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

Project: McKenney 6-43 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

WH01@6'
2108148-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/10/21 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEH0209	08/13/21	08/15/21	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: **08/10/21 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		111 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/10/21 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEH0211	08/13/21	08/14/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/10/21 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		86.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: McKenney 6-43 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

WH01@6'
2108148-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/10/21 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEH0233	08/16/21	08/17/21	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	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/10/21 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		78.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/10/21 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BEH0206	08/13/21	08/18/21	EPA 6020B	

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

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

Project: McKenney 6-43 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

WH01@6'
2108148-01 (Soil)

Summit Scientific

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

Date Sampled: **08/10/21 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	30.0	0.0584	mg/L dry	1	BEH0194	08/12/21	08/17/21	EPA 6020B	
Magnesium	9.28	0.0584	"	"	"	"	"	"	
Sodium	27.0	0.0584	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/10/21 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.10	0.00100	units	1	BEH0293	08/18/21	08/18/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/10/21 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.6		%	1	BEH0257	08/16/21	08/17/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/10/21 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.308	0.0100	mmhos/cm	1	BEH0202	08/13/21	08/13/21	EPA 120.1	

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

Date Sampled: **08/10/21 10:48**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.55		pH Units	1	BEH0201	08/13/21	08/13/21	EPA 9045D	

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1775 Sherman St. STE. 3000
Denver CO, 80203

Project: McKenney 6-43 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

FLR01@4'
2108148-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/10/21 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BEH0209	08/13/21	08/15/21	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: **08/10/21 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		109 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		109 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/10/21 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BEH0211	08/13/21	08/14/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/10/21 10:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		82.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Project: McKenney 6-43 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

FLR01@4'
2108148-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/10/21 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BEH0233	08/16/21	08/17/21	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	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **08/10/21 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		81.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		63.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/10/21 10:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0306	0.0100	mg/L	1	BEH0206	08/13/21	08/18/21	EPA 6020B	

Soluble Nutrients by EPA 6020/USDA60 6(2) - 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: McKenney 6-43 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

FLR01@4'
2108148-02 (Soil)

Summit Scientific

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

Date Sampled: **08/10/21 10:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	19.7	0.0567	mg/L dry	1	BEH0194	08/12/21	08/17/21	EPA 6020B	
Magnesium	5.33	0.0567	"	"	"	"	"	"	
Sodium	10.1	0.0567	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/10/21 10:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.521	0.00100	units	1	BEH0293	08/18/21	08/18/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/10/21 10:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	88.3		%	1	BEH0257	08/16/21	08/17/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/10/21 10:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.232	0.0100	mmhos/cm	1	BEH0202	08/13/21	08/13/21	EPA 120.1	

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

Date Sampled: **08/10/21 10:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.49		pH Units	1	BEH0201	08/13/21	08/13/21	EPA 9045D	

Summit Scientific

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

Project: McKenney 6-43 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

BKG01@4'
2108148-03 (Soil)

Summit Scientific

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

Date Sampled: **08/10/21 10:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.81			pH Units	1	BEH0444	08/25/21	08/25/21	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: McKenney 6-43 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

BKG01@6'
2108148-04 (Soil)

Summit Scientific

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

Date Sampled: **08/10/21 10:59**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.70			pH Units	1	BEH0444	08/25/21	08/25/21	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: McKenney 6-43 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

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 BEH0209 - EPA 5030 Soil MS

Blank (BEH0209-BLK1)

Prepared & Analyzed: 08/13/21

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	0.0432		"	0.0400		108	23-173			
Surrogate: Toluene-d8	0.0434		"	0.0400		108	20-170			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2	21-167			

LCS (BEH0209-BS1)

Prepared & Analyzed: 08/13/21

Benzene	0.121	0.0020	mg/kg	0.100		121	70-130			
Toluene	0.113	0.0050	"	0.100		113	70-130			
Ethylbenzene	0.0981	0.0050	"	0.100		98.1	70-130			
m,p-Xylene	0.194	0.010	"	0.200		96.8	70-130			
o-Xylene	0.0941	0.0050	"	0.100		94.1	70-130			
1,2,4-Trimethylbenzene	0.0980	0.0050	"	0.100		98.0	70-130			
1,3,5-Trimethylbenzene	0.0977	0.0050	"	0.100		97.7	70-130			
Naphthalene	0.114	0.0038	"	0.100		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0461		"	0.0400		115	23-173			
Surrogate: Toluene-d8	0.0442		"	0.0400		110	20-170			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.1	21-167			

Matrix Spike (BEH0209-MS1)

Source: 2108147-01

Prepared & Analyzed: 08/13/21

Benzene	0.117	0.0020	mg/kg	0.100	ND	117	70-130			
Toluene	0.109	0.0050	"	0.100	ND	109	70-130			
Ethylbenzene	0.0952	0.0050	"	0.100	ND	95.2	70-130			
m,p-Xylene	0.187	0.010	"	0.200	ND	93.4	70-130			
o-Xylene	0.0900	0.0050	"	0.100	ND	90.0	70-130			
1,2,4-Trimethylbenzene	0.0913	0.0050	"	0.100	ND	91.3	70-130			
1,3,5-Trimethylbenzene	0.0914	0.0050	"	0.100	ND	91.4	70-130			
Naphthalene	0.108	0.0038	"	0.100	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0460		"	0.0400		115	23-173			
Surrogate: Toluene-d8	0.0443		"	0.0400		111	20-170			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.5	21-167			

Summit Scientific

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

Project: McKenney 6-43 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

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 BEH0209 - EPA 5030 Soil MS

Matrix Spike Dup (BEH0209-MSD1)	Source: 2108147-01			Prepared & Analyzed: 08/13/21						
Benzene	0.117	0.0020	mg/kg	0.100	ND	117	70-130	0.359	30	
Toluene	0.109	0.0050	"	0.100	ND	109	70-130	0.220	30	
Ethylbenzene	0.0964	0.0050	"	0.100	ND	96.4	70-130	1.22	30	
m,p-Xylene	0.190	0.010	"	0.200	ND	95.0	70-130	1.67	30	
o-Xylene	0.0910	0.0050	"	0.100	ND	91.0	70-130	1.13	30	
1,2,4-Trimethylbenzene	0.0938	0.0050	"	0.100	ND	93.8	70-130	2.76	30	
1,3,5-Trimethylbenzene	0.0934	0.0050	"	0.100	ND	93.4	70-130	2.11	30	
Naphthalene	0.111	0.0038	"	0.100	ND	111	70-130	2.47	30	
Surrogate: 1,2-Dichloroethane-d4	0.0464		"	0.0400		116	23-173			
Surrogate: Toluene-d8	0.0442		"	0.0400		111	20-170			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	21-167			

Summit Scientific

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

Project: McKenney 6-43 Wellhead
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEH0211 - EPA 3550A

Blank (BEH0211-BLK1)

Prepared: 08/13/21 Analyzed: 08/14/21

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

LCS (BEH0211-BS1)

Prepared: 08/13/21 Analyzed: 08/14/21

C10-C28 (DRO)	520	50	mg/kg	500	104	70-130					
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Matrix Spike (BEH0211-MS1)

Source: 2108147-01

Prepared: 08/13/21 Analyzed: 08/14/21

C10-C28 (DRO)	532	50	mg/kg	500	13.8	104	70-130				
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Matrix Spike Dup (BEH0211-MSD1)

Source: 2108147-01

Prepared: 08/13/21 Analyzed: 08/14/21

C10-C28 (DRO)	519	50	mg/kg	500	13.8	101	70-130	2.45	20		
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Summit Scientific

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

Project: McKenney 6-43 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEH0233 - EPA 5030 Soil MS

Blank (BEH0233-BLK1)

Prepared & Analyzed: 08/16/21

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	"							
Naphthalene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0330		"	0.0333		99.1	40-150			
Surrogate: Fluoranthene-d10	0.0231		"	0.0333		69.4	40-150			

LCS (BEH0233-BS1)

Prepared & Analyzed: 08/16/21

Acenaphthene	0.0241	0.00500	mg/kg	0.0333		72.4	31-137			
Anthracene	0.0223	0.00500	"	0.0333		66.8	30-120			
Benzo (a) anthracene	0.0239	0.00500	"	0.0333		71.7	30-120			
Benzo (a) pyrene	0.0237	0.00500	"	0.0333		71.0	30-120			
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333		62.3	30-120			
Benzo (k) fluoranthene	0.0265	0.00500	"	0.0333		79.6	30-120			
Chrysene	0.0234	0.00500	"	0.0333		70.1	30-120			
Dibenz (a,h) anthracene	0.0293	0.00500	"	0.0333		87.8	30-120			
Fluoranthene	0.0222	0.00500	"	0.0333		66.7	30-120			
Fluorene	0.0255	0.00500	"	0.0333		76.6	30-120			
Indeno (1,2,3-cd) pyrene	0.0295	0.00500	"	0.0333		88.4	30-120			
Naphthalene	0.0254	0.00500	"	0.0333		76.3	30-120			
Pyrene	0.0225	0.00500	"	0.0333		67.5	35-142			
1-Methylnaphthalene	0.0242	0.00500	"	0.0333		72.5	35-142			
2-Methylnaphthalene	0.0210	0.00500	"	0.0333		62.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0307		"	0.0333		92.1	40-150			
Surrogate: Fluoranthene-d10	0.0247		"	0.0333		74.1	40-150			

Summit Scientific

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

Project: McKenney 6-43 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEH0233 - EPA 5030 Soil MS

Matrix Spike (BEH0233-MS1)

Source: 2108094-01

Prepared & Analyzed: 08/16/21

Acenaphthene	0.0221	0.00500	mg/kg	0.0333	ND	66.3	31-137		
Anthracene	0.0200	0.00500	"	0.0333	ND	60.0	30-120		
Benzo (a) anthracene	0.0206	0.00500	"	0.0333	ND	61.7	30-120		
Benzo (a) pyrene	0.0206	0.00500	"	0.0333	ND	61.8	30-120		
Benzo (b) fluoranthene	0.0219	0.00500	"	0.0333	ND	65.7	30-120		
Benzo (k) fluoranthene	0.0229	0.00500	"	0.0333	ND	68.8	30-120		
Chrysene	0.0201	0.00500	"	0.0333	ND	60.3	30-120		
Dibenz (a,h) anthracene	0.0250	0.00500	"	0.0333	ND	74.9	30-120		
Fluoranthene	0.0202	0.00500	"	0.0333	ND	60.6	30-120		
Fluorene	0.0232	0.00500	"	0.0333	ND	69.7	30-120		
Indeno (1,2,3-cd) pyrene	0.0250	0.00500	"	0.0333	ND	74.9	30-120		
Naphthalene	0.0224	0.00500	"	0.0333	ND	67.1	30-120		
Pyrene	0.0184	0.00500	"	0.0333	ND	55.2	35-142		
1-Methylnaphthalene	0.0203	0.00500	"	0.0333	ND	60.9	15-130		
2-Methylnaphthalene	0.0183	0.00500	"	0.0333	ND	54.9	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0278		"	0.0333		83.5	40-150		
Surrogate: Fluoranthene-d10	0.0223		"	0.0333		66.9	40-150		

Matrix Spike Dup (BEH0233-MSD1)

Source: 2108094-01

Prepared & Analyzed: 08/16/21

Acenaphthene	0.0237	0.00500	mg/kg	0.0333	ND	71.0	31-137	6.82	30
Anthracene	0.0228	0.00500	"	0.0333	ND	68.3	30-120	13.0	30
Benzo (a) anthracene	0.0257	0.00500	"	0.0333	ND	77.1	30-120	22.3	30
Benzo (a) pyrene	0.0248	0.00500	"	0.0333	ND	74.3	30-120	18.5	30
Benzo (b) fluoranthene	0.0234	0.00500	"	0.0333	ND	70.1	30-120	6.49	30
Benzo (k) fluoranthene	0.0254	0.00500	"	0.0333	ND	76.4	30-120	10.5	30
Chrysene	0.0251	0.00500	"	0.0333	ND	75.3	30-120	22.1	30
Dibenz (a,h) anthracene	0.0302	0.00500	"	0.0333	ND	90.6	30-120	18.9	30
Fluoranthene	0.0219	0.00500	"	0.0333	ND	65.7	30-120	8.09	30
Fluorene	0.0251	0.00500	"	0.0333	ND	75.3	30-120	7.73	30
Indeno (1,2,3-cd) pyrene	0.0300	0.00500	"	0.0333	ND	90.0	30-120	18.4	30
Naphthalene	0.0242	0.00500	"	0.0333	ND	72.6	30-120	7.84	30
Pyrene	0.0231	0.00500	"	0.0333	ND	69.3	35-142	22.7	30
1-Methylnaphthalene	0.0232	0.00500	"	0.0333	ND	69.7	15-130	13.4	50
2-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.7	15-130	4.94	50
Surrogate: 2-Methylnaphthalene-d10	0.0304		"	0.0333		91.2	40-150		
Surrogate: Fluoranthene-d10	0.0256		"	0.0333		76.8	40-150		

Summit Scientific

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

Project: McKenney 6-43 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

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 BEH0206 - EPA 3050B

Blank (BEH0206-BLK1)

Prepared: 08/13/21 Analyzed: 08/18/21

Boron ND 0.0100 mg/L

LCS (BEH0206-BS1)

Prepared: 08/13/21 Analyzed: 08/18/21

Boron 5.17 0.0100 mg/L 5.00 103 80-120

Duplicate (BEH0206-DUP1)

Source: 2108126-01

Prepared: 08/13/21 Analyzed: 08/18/21

Boron ND 0.0100 mg/L ND 20

Matrix Spike (BEH0206-MS1)

Source: 2108126-01

Prepared: 08/13/21 Analyzed: 08/18/21

Boron 5.16 0.0100 mg/L 5.00 ND 103 75-125

Matrix Spike Dup (BEH0206-MSD1)

Source: 2108126-01

Prepared: 08/13/21 Analyzed: 08/18/21

Boron 5.16 0.0100 mg/L 5.00 ND 103 75-125 0.173 25

Summit Scientific

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

Project: McKenney 6-43 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

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 BEH0194 - General Preparation

Blank (BEH0194-BLK1)

Prepared: 08/12/21 Analyzed: 08/17/21

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

LCS (BEH0194-BS1)

Prepared: 08/12/21 Analyzed: 08/17/21

Calcium	5.31	0.0500	mg/L wet	5.00	106	70-130
Magnesium	5.04	0.0500	"	5.00	101	70-130
Sodium	4.98	0.0500	"	5.00	99.6	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: McKenney 6-43 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

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 BEH0257 - General Preparation

Duplicate (BEH0257-DUP1)		Source: 2108126-01		Prepared: 08/16/21 Analyzed: 08/17/21	
% Solids	87.1		%	85.3	2.06 20

Summit Scientific

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

Project: McKenney 6-43 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

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 BEH0202 - General Preparation

Blank (BEH0202-BLK1)

Prepared & Analyzed: 08/13/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BEH0202-BS1)

Prepared & Analyzed: 08/13/21

Specific Conductance (EC) 0.148 0.0100 mmhos/cm 0.150 98.4 90-110

Duplicate (BEH0202-DUP1)

Source: 2108107-09

Prepared & Analyzed: 08/13/21

Specific Conductance (EC) 1.61 0.0100 mmhos/cm 1.62 0.433 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: McKenney 6-43 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

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

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

Batch BEH0201 - General Preparation

LCS (BEH0201-BS1)

Prepared & Analyzed: 08/13/21

pH	9.26		pH Units	9.21	101	95-105
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Duplicate (BEH0201-DUP1)

Source: 2108107-09

Prepared & Analyzed: 08/13/21

pH	8.95		pH Units	8.96		0.112	20
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Batch BEH0444 - General Preparation

LCS (BEH0444-BS1)

Prepared & Analyzed: 08/25/21

pH	9.18		pH Units	9.21	99.7	95-105
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Duplicate (BEH0444-DUP1)

Source: 2108147-03

Prepared & Analyzed: 08/25/21

pH	8.96		pH Units	8.94		0.223	20
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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.



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

Project: McKenney 6-43 Wellhead

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/26/21 09:43

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