TABLE 1
FORMER MCKENNEY 6-42 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:
1. Compounds referenced from the COGCC 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 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 MCKENNEY 6-42 WELLHEAD
SOIL ANALYTICAL RESULTS SUMMARY TABLE
INORGANIC COMPOUNDS

Sample ID	Date Sampled	Depth	pH (units)	EC (mmhos/cm)	SAR (units)	Boron (mg/L)
Soil Suitabilty for Reclamation Standard [1]			**6-8.3**	**<4**	**<6**	**2**
WH01 @ 6'	8/10/2021	6 ft. bgs	8.21	0.883	4.23	0.133
FLR01 @ 4'	8/10/2021	4 ft. bgs	**8.40**	0.669	4.07	0.248
BKG01 @ 4'	8/10/2021	4 ft. bgs	**8.94**	NA	NA	NA
BKG01 @ 6'	8/10/2021	6 ft. bgs	**8.67**	NA	NA	NA

Notes: ft. bgs

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 = millgram 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 concentration.
NA = Constituent not analyzed

TABLE 3
FORMER MCKENNEY 6-42 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	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500
FLR01 @ 4'	8/10/2021	4 ft. bgs	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500	<.00500

Notes:

1. Compounds referenced from the COGCC 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

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

TABLE 4
FORMER MCKENNEY 6-42 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	40.252277	-104.591898	1.0	0.7
FLR01 @ 4'	8/10/2021	4 ft. bgs	40.252260	-104.591892	1.0	0.2
WHS01-N @ 0-6"	8/10/2021	0-6 in. bgs	40.252322	-104.591884	1.0	0.0
WHS01-W @ 0-6"	8/10.2022	0-6 in. bgs	40.252271	-104.591954	1.0	0.2
WHS01-S @ 0-6"	8/10/2021	0-6 in. bgs	40.252221	-104.591910	0.9	0.0
WHS01-E @ 0-6"	8/10/2021	0-6 in. bgs	40.252251	-104.591837	0.9	0.0
FL01-01 @ 4'	8/10/2021	4 ft. bgs	40.251648	-104.592353	1.0	0.1
FL01-02 @ 3'	8/10/2021	3 ft. bgs	40.251009	-104.592669	0.9	0.0
FL01-03 @ 3'	8/10/2021	3 ft. bgs	40.250394	-104.592936	1.0	0.0
BKG01 @ 4'	8/10/2021	4 ft. bgs	40.252370	-104.591839	1.0	0.0
BKG01 @ 6'	8/10/2021	6 ft. bgs	40.252370	-104.591839	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

Attachment A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

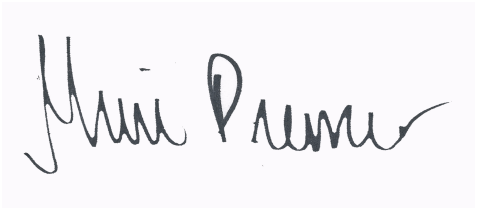
September 10, 2021

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

RE: McKenney 6-42 Wellhead
Work Order #2108147

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,



Muri Premer For Paul Shrewsbury
President

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6'	2108147-01	Soil	08/10/21 10:06	08/10/21 17:50
FLR01@4'	2108147-02	Soil	08/10/21 10:08	08/10/21 17:50
BKG01@4'	2108147-03	Soil	08/10/21 10:12	08/10/21 17:50
BKG01@6'	2108147-04	Soil	08/10/21 10:17	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.

2108147

Summit Scientific

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

Client: PDC / Tasman
Address: 6855 W 119th Ave
City/State/Zip: Broomfield/ CO/ 80020
Phone: 303-487-1228
Sampler Name: Cody Miller

Project Manager: Mark Longhurst
E-Mail: mark.longhurst@PDCE.com
Project Name: McKenney 6-42 Wellhead
Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ____	Water	Soil	Air-Canister #	Other ____	GBTEXN - 8260B 915	TPH - (C6 - C36) 915	pH, EC, SAR 915	Boron - HWS 915	VOC - 915	PAH - 915	Metals - 915	TMB's (1,2,4) & (1,3,5) 915	pH, EC, SAR by saturated paste
1	WH01 @ 6'	8/10/21	1006	3			X			X			X	X	X	X		X		X	Hold
2	FLR01 @ 4'	↓	1008	3			X			X			X	X	X	X		X		X	
3	BKG01 @ 4'		1012	1			X			X											X
4	BKG01 @ 6'	↓	1017	1			X			X											X
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:
Cody Miller	8/10/21 / 1320	Tasman's Lock Box	8/10/21 / 1320
Relinquished by:	Date/Time:	Received by:	Date/Time:
Tasman's Lock Box	8/10/21 1750	Will Rahn	8/10/21 1750
Relinquished by:	Date/Time:	Received by:	Date/Time:

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:

Sample Receipt Checklist

S2 Work Order 2108147

Client: PDC/TASMAN Client Project ID: McKenney 6-42 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.	✓			on ice
Were all samples received intact (1)?	✓			
Was adequate sample volume provided (1)?	✓			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely (1)?	✓			
Does the COC agree with the number and type of sample bottles received (1)?	✓			
Do the sample IDs on the bottle labels match the COC (1)?	✓			
Is the COC properly relinquished by the client w/ date and time recorded (1)?	✓			
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**			✓	
Are samples preserved that require preservation **(excluding cooling)** (1)? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			✓	
If samples are acid preserved for metals, is the pH ≤ 2(1)? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

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

WG
Custodian Printed Name or Initials

Will Gale
Signature of Custodian

8/10/21
Date/Time

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

WH01@6'

2108147-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/10/21 10:06**

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 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*109 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.9 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/10/21 10:06**

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 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*80.5 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

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.

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

WH01@6'

2108147-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **08/10/21 10:06**

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 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*88.5 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*70.8 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/10/21 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	**0.133**	0.0100	mg/L	1	BEH0166	08/11/21	08/14/21	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.

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

WH01@6'

2108147-01 (Soil)

Summit Scientific

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

Date Sampled: **08/10/21 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**44.0**	0.0608	mg/L dry	1	BEH0194	08/12/21	08/17/21	EPA 6020B	
Magnesium	**23.8**	0.0608	"	"	"	"	"	"	
Sodium	**140**	0.0608	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/10/21 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**4.23**	0.00100	units	1	BEH0293	08/18/21	08/18/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/10/21 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**82.3**		%	1	BEH0257	08/16/21	08/17/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/10/21 10:06**

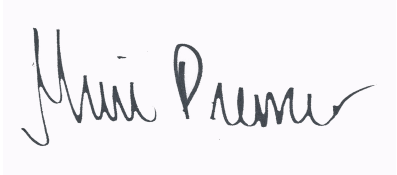
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.883**	0.0100	mmhos/cm	1	BEH0202	08/13/21	08/13/21	EPA 120.1	

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

Date Sampled: **08/10/21 10:06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.21**		pH Units	1	BEH0201	08/13/21	08/13/21	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.

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

FLR01@4'

2108147-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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 10:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*110 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.5 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

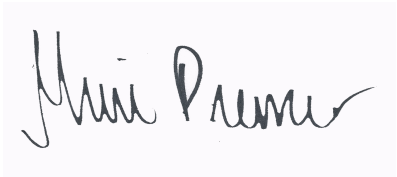
Date Sampled: **08/10/21 10:08**

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 10:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*89.1 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM



S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

FLR01@4'

2108147-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

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 10:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*84.7 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*63.8 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	**0.248**	0.0100	mg/L	1	BEH0166	08/11/21	08/14/21	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.

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

FLR01@4'

2108147-02 (Soil)

Summit Scientific

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	**26.1**	0.0581	mg/L dry	1	BEH0194	08/12/21	08/17/21	EPA 6020B	
Magnesium	**13.0**	0.0581	"	"	"	"	"	"	
Sodium	**102**	0.0581	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	**4.07**	0.00100	units	1	BEH0293	08/18/21	08/18/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**86.0**		%	1	BEH0257	08/16/21	08/17/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	**0.669**	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 10:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.40**		pH Units	1	BEH0201	08/13/21	08/13/21	EPA 9045D	

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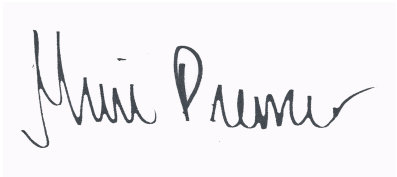

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S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

BKG01@4'

2108147-03 (Soil)

Summit Scientific

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

Date Sampled: **08/10/21 10:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.94**		pH Units	1	BEH0444	08/25/21	08/25/21	EPA 9045D	

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

BKG01@6'

2108147-04 (Soil)

Summit Scientific

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

Date Sampled: **08/10/21 10:17**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	**8.67**		pH Units	1	BEH0444	08/25/21	08/25/21	EPA 9045D	

S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	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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S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	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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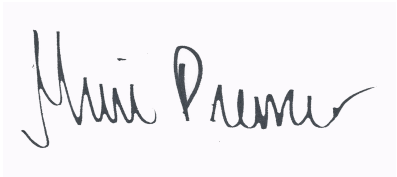
S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

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



S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	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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S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	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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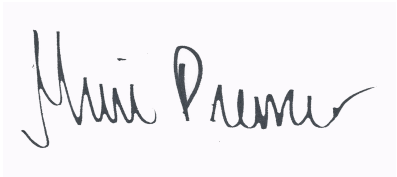
S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BEH0166 - EPA 3050B										
Blank (BEH0166-BLK1)				Prepared: 08/11/21 Analyzed: 08/14/21						
Boron	ND	0.0100	mg/L							
LCS (BEH0166-BS1)				Prepared: 08/11/21 Analyzed: 08/14/21						
Boron	4.89	0.0100	mg/L	5.00		97.7	80-120			
Duplicate (BEH0166-DUP1)		**Source: 2107463-03**		Prepared: 08/11/21 Analyzed: 08/14/21						
Boron	0.874	0.0100	mg/L		0.832			4.96	20	
Matrix Spike (BEH0166-MS1)		**Source: 2107463-03**		Prepared: 08/11/21 Analyzed: 08/14/21						
Boron	5.71	0.0100	mg/L	5.00	0.832	97.6	75-125			
Matrix Spike Dup (BEH0166-MSD1)		**Source: 2107463-03**		Prepared: 08/11/21 Analyzed: 08/14/21						
Boron	5.75	0.0100	mg/L	5.00	0.832	98.3	75-125	0.555	25	



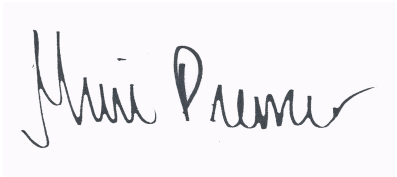
S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

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

Summit Scientific

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



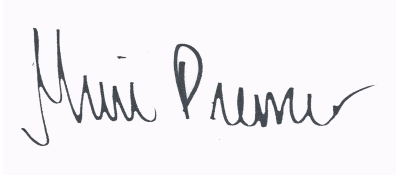
S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

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

Summit Scientific

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



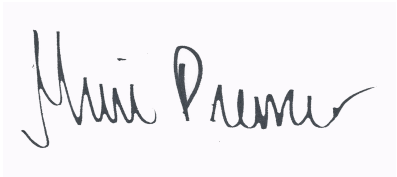
S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

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

Summit Scientific

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



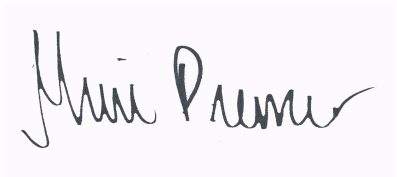
S2

PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	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			
Duplicate (BEH0201-DUP1)		**Source: 2108107-09**		Prepared & Analyzed: 08/13/21						
pH	8.95		pH Units		8.96			0.112	20	
Batch BEH0444 - General Preparation										
LCS (BEH0444-BS1)				Prepared & Analyzed: 08/25/21						
pH	9.18		pH Units	9.21		99.7	95-105			
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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PDC Energy 1775 Sherman St. STE. 3000 Denver CO, 80203	Project: McKenney 6-42 Wellhead Project Number: [none] Project Manager: Mark Longhurst	**Reported:** 09/10/21 14:04

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