

PDC Energy, Inc.
Third Quarter 2021 Groundwater Monitoring Summary

August 30, 2021

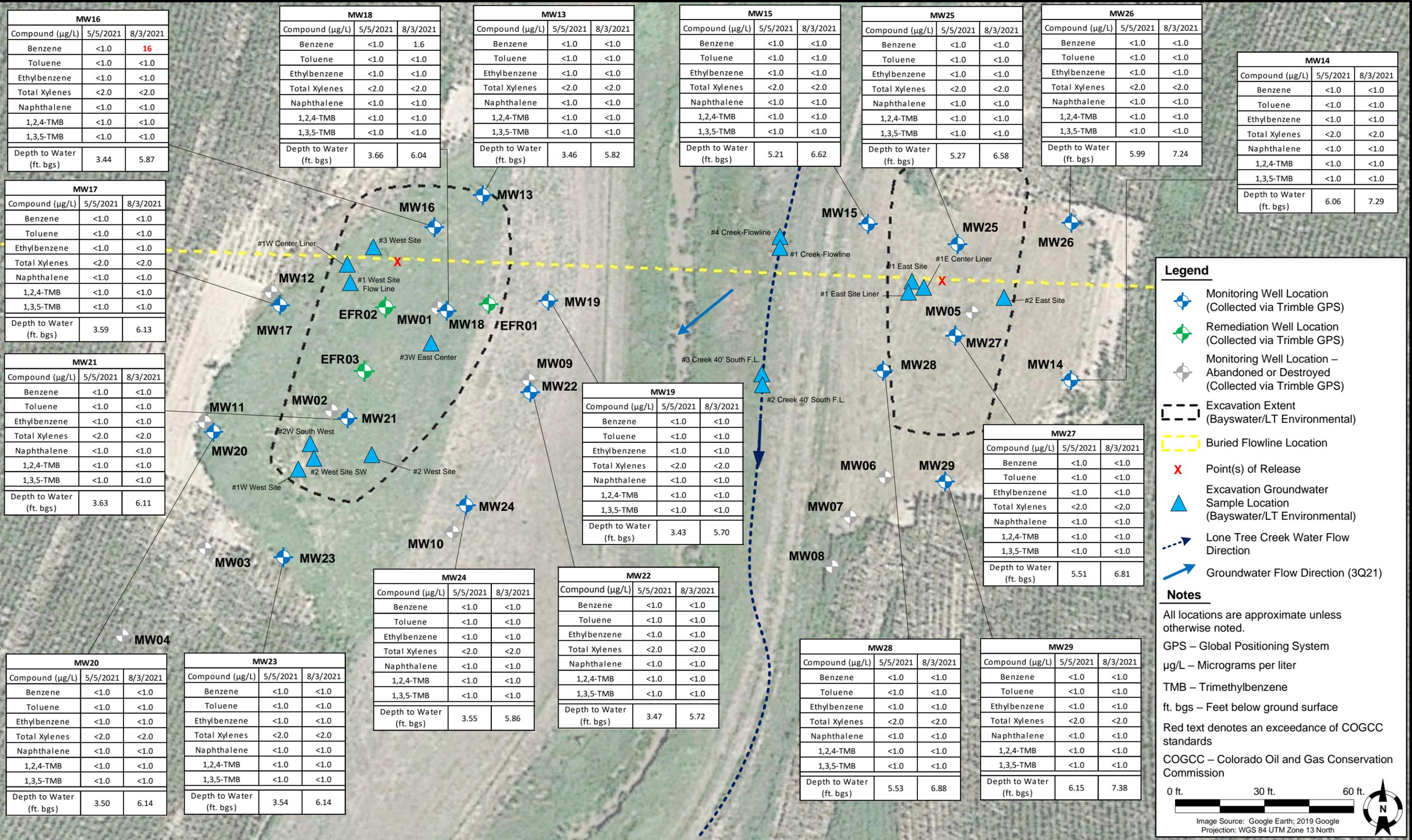
Meyring 13-27 Flowline
SWSW Section 27 T7N R65W
Remediation # 10604

This groundwater monitoring summary has been prepared by Tasman Geosciences, Inc. for the Meyring 13-27 Flowline. On August 3, 2021, groundwater monitoring was conducted at 17 monitoring well locations (MW13 – MW29). Seventeen groundwater samples were submitted to Summit Scientific Laboratories for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, 1, 2, 4-trimethylbenzene (TMB), and 1, 3, 5-TMB by EPA Method 8260B.

Third quarter 2021 analytical results indicated that the benzene concentration was above the applicable COGCC Table 915-1 groundwater standard in monitoring well MW16. Organic compound concentrations were below the applicable regulatory standards in the remaining 16 monitoring well locations. Sample locations and corresponding analytical results are illustrated on Figure 1. Groundwater elevation data is illustrated in Figure 2. Groundwater analytical results are summarized in Table 1. The laboratory analytical report is included in Attachment A.

Due to persisting benzene concentrations, enhanced fluid recovery (EFR) and air sparge (AS) were initiated during the second quarter 2018 and continued into the fourth quarter 2020. Monitored natural attenuation (MNA) was selected as the remediation strategy in the fourth quarter 2020 and will continue as the selected remediation strategy through the fourth quarter 2021.

Fourth quarter 2021 groundwater sampling will be conducted during November 2021.



DATE: August 17, 2021

DESIGNED BY: C. Hamlin

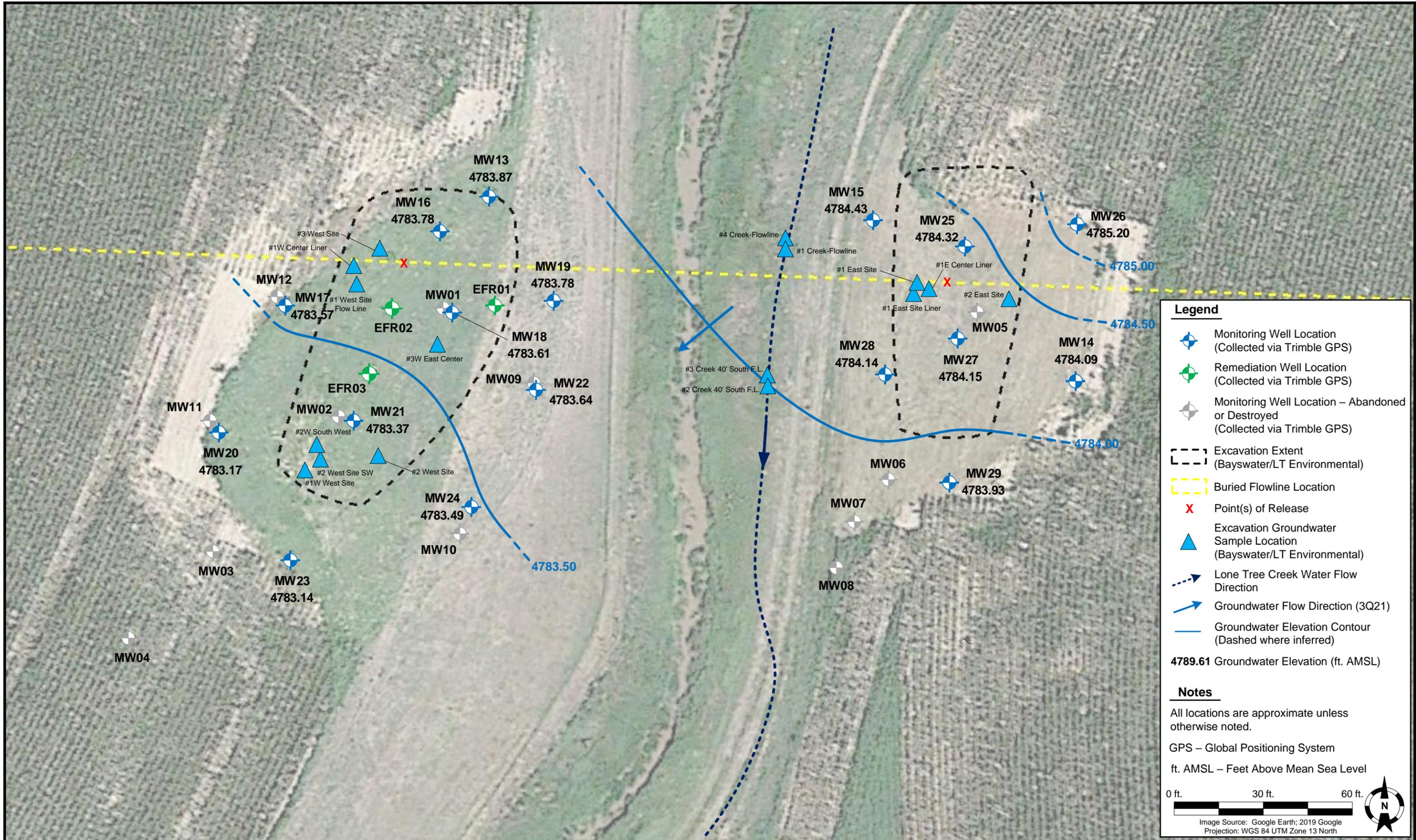
DRAWN BY: C. Ambler

TASMAN
 GEOSCIENCES, Inc.
 6855 W. 119th Ave
 Broomfield, CO 80020

PDC Energy, Inc. – DJ Basin
Meyring 13-27 Flowline
 SWSW, Section 27, Township 7 North, Range 65 West
 Weld County, Colorado

GROUNDWATER
ANALYTICAL RESULTS
MAP

FIGURE
1



Legend

- Monitoring Well Location (Collected via Trimble GPS)
- Remediation Well Location (Collected via Trimble GPS)
- Monitoring Well Location - Abandoned or Destroyed (Collected via Trimble GPS)
- Excavation Extent (Bayswater/LT Environmental)
- Buried Flowline Location
- Point(s) of Release
- Excavation Groundwater Sample Location (Bayswater/LT Environmental)
- Lone Tree Creek Water Flow Direction
- Groundwater Flow Direction (3Q21)
- Groundwater Elevation Contour (Dashed where inferred)

4789.61 Groundwater Elevation (ft. AMSL)

Notes

All locations are approximate unless otherwise noted.

GPS – Global Positioning System

ft. AMSL – Feet Above Mean Sea Level

0 ft. 30 ft. 60 ft.

Image Source: Google Earth; 2019 Google
Projection: WGS 84 UTM Zone 13 North

DATE:	August 3, 2021
DESIGNED BY:	C. Hamlin
DRAWN BY:	C. Ambler

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

**PDC Energy, Inc. – DJ Basin
Meyring 13-27 Flowline**
SWSW, Section 27, Township 7 North, Range 65 West
Weld County, Colorado

**GROUNDWATER
ELEVATION CONTOUR
MAP (08/03/2021)**

**FIGURE
2**

TABLE 1
MEYRING 13-27 FLOWLINE
GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS

Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-TMB (µg/L)	1,3,5-TMB (µg/L)	Depth to Water ⁽²⁾ (ft.)	Groundwater Elevation (ft. AMSL)
COGCC Table 915-1 Groundwater Standard (µg/L)		5	560	700	1,400	140	67	67	-	-
MW13	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.46	4786.23
MW13	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.82	4783.87
MW14	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	6.06	4785.32
MW14	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	7.29	4784.09
MW15	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.21	4785.84
MW15	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	6.62	4784.43
MW16	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.44	4786.21
MW16	8/3/2021	16	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.87	4783.78
MW17	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.59	4786.11
MW17	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	6.13	4783.57
MW18	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.66	4785.99
MW18	8/3/2021	1.6	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	6.04	4783.61
MW19	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.43	4786.05
MW19	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.70	4783.78
MW20	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.50	4785.81
MW20	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	6.14	4783.17
MW21	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.63	4785.85
MW21	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	6.11	4783.37
MW22	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.47	4785.89
MW22	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.72	4783.64
MW23	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.54	4785.74
MW23	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	6.14	4783.14
MW24	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	3.55	4785.80
MW24	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.86	4783.49
MW25	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.27	4785.63
MW25	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	6.58	4784.32
MW26	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.99	4785.55
MW26	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	7.24	4784.30
MW27	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.51	4785.45
MW27	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	6.81	4784.15
MW28	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	5.53	4785.49
MW28	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	6.88	4784.14
MW29	5/5/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	6.15	4785.16
MW29	8/3/2021	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	7.38	4783.93

Notes:

- Groundwater standards referenced from 2 CCR 404-1, Table 915-1, January 15, 2021.
 - Depth to water measurements were measured from ground surface for excavation samples. Monitoring well measurements were collected from top of casing and adjusted using survey data to reflect depth of water from ground surface.
- TMB = Trimethylbenzene
COGCC = Colorado Oil and Gas Conservation Commission
µg/L = Micrograms per liter
(<) = Analytical result is less than the indicated laboratory reporting limit.
ft. = Feet
AMSL = Above Mean Sea Level
BOLD = Analytical result is in exceedance of COGCC groundwater standards.

Attachment A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 10, 2021

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Meyring 13-27 Flowline

Work Order #2108031

Enclosed are the results of analyses for samples received by Summit Scientific on 08/03/21 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large, stylized 'M' and 'P'.

Muri Premer For Paul Shrewsbury

President



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

Project: Meyring 13-27 Flowline

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
08/10/21 15:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW13	2108031-01	Water	08/03/21 10:22	08/03/21 17:40
MW14	2108031-02	Water	08/03/21 11:21	08/03/21 17:40
MW15	2108031-03	Water	08/03/21 11:21	08/03/21 17:40
MW16	2108031-04	Water	08/03/21 10:30	08/03/21 17:40
MW17	2108031-05	Water	08/03/21 10:13	08/03/21 17:40
MW18	2108031-06	Water	08/03/21 10:33	08/03/21 17:40
MW19	2108031-07	Water	08/03/21 10:21	08/03/21 17:40
MW20	2108031-08	Water	08/03/21 09:58	08/03/21 17:40
MW21	2108031-09	Water	08/03/21 10:06	08/03/21 17:40
MW22	2108031-10	Water	08/03/21 10:08	08/03/21 17:40
MW23	2108031-11	Water	08/03/21 09:47	08/03/21 17:40
MW24	2108031-12	Water	08/03/21 09:51	08/03/21 17:40
MW25	2108031-13	Water	08/03/21 11:33	08/03/21 17:40
MW26	2108031-14	Water	08/03/21 11:45	08/03/21 17:40
MW27	2108031-15	Water	08/03/21 11:30	08/03/21 17:40
MW28	2108031-16	Water	08/03/21 11:46	08/03/21 17:40
MW29	2108031-17	Water	08/03/21 11:38	08/03/21 17:40

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

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

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: Meyring 13-27 Flowline
 Sampler Name: Ben Wagner Project Number: N/A

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	1,2,4 TMB	1,3,5 TMB		
1	MW13	8/3/21	1022	3	3					X				X	X	X	X	
2	MW14		1121															
3	MW15		1121															
4	MW16		1030															
5	MW17		1013															
6	MW18		1033															
7	MW19		1021															
8	MW20		0958															
9	MW21		1006															
10	MW22		1008															

Relinquished by: <u>[Signature]</u> Date/Time: <u>8/3/21 1400</u>	Received by: <u>Tasman's Lock Box</u> Date/Time: <u>8/3/21 1400</u>	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <u>X</u> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>6</u> Samples Intact: <u>Yes</u> No	Notes:
Relinquished by: <u>Tasman Lock box</u> Date/Time: <u>8/3/21 1740</u>	Received by: <u>Will Rain</u> Date/Time: <u>8/3/21 1740</u>		
Relinquished by:	Received by:		

2108031-2

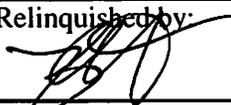
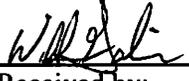
Summit Scientific

S₂

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

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: Meyring 13-27 Flowline
 Sampler Name: Ben Wagner Project Number: N/A

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	1,2,4 TMB	1,3,5 TMB	
1	MW 23	8/3/21	0947	3	3				X				X	X	X	X	
2	MW 24		0951														
3	MW 25		1133														
4	MW 26		1145														
5	MW 27		1130														
6	MW 28		1146														
7	MW 29		1138														
8																	
9																	
10																	

Relinquished by: 	Date/Time: 8/3/21 1400	Received by: <u>Tasman's Lock Box</u>	Date/Time: 8/3/21 1400	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <u>X</u> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>6</u> Samples Intact: <u>(Yes)</u> No	Notes:
Relinquished by: <u>Tasman Lock Box</u>	Date/Time: 8/3/21 1740	Received by: 	Date/Time: 8/3/21 1740		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2101031

Client: PDC/TASMAN Client Project ID: Meyring 13-27 Flowline

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

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

Temp (°C) 6

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"/>	on ice
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
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.

WG
 Custodian Printed Name or Initials

Willie John
 Signature of Custodian

8/3/21
 Date/Time



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

Project: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW13
2108031-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 10:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 10:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		77.2 %		23-173	"	"	"	"	
Surrogate: Toluene-d8		98.1 %		20-170	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.8 %		21-167	"	"	"	"	

Summit Scientific

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

Project: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW14
2108031-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 11:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 11:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		75.5 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.3 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW15
2108031-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 11:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 11:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		81.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.7 %	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: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW16
2108031-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	16	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		82.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.2 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW17
2108031-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 10:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 10:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		76.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.8 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW18
2108031-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1.6	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 10:33**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		77.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.7 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW19
2108031-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 10:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 10:21**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		78.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.6 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW20
2108031-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 09:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 09:58**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		79.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.5 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW21
2108031-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 10:06**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 10:06**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		78.6 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.1 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW22
2108031-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 10:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 10:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		81.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.5 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW23
2108031-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 09:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 09:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		79.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.9 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW24
2108031-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 09:51**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 09:51**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		82.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.5 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.7 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW25
2108031-13 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 11:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 11:33**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		80.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.8 %	21-167		"	"	"	"	

Summit Scientific

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

Project: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW26
2108031-14 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		83.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.8 %	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: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW27
2108031-15 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **08/03/21 11:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		80.7 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.4 %		21-167		"	"	"	"	

Summit Scientific

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

Project: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW28
2108031-16 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 11:46**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 11:46**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		79.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.3 %	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: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

MW29
2108031-17 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/03/21 11:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BEH0067	08/04/21	08/05/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **08/03/21 11:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		80.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.9 %	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: Meyring 13-27 Flowline

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/10/21 15:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEH0067 - EPA 5030 Water MS

Blank (BEH0067-BLK1)

Prepared: 08/04/21 Analyzed: 08/05/21

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	10.3		"	13.3		77.3		23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.7		20-170			
Surrogate: 4-Bromofluorobenzene	11.4		"	13.3		85.8		21-167			

LCS (BEH0067-BS1)

Prepared: 08/04/21 Analyzed: 08/05/21

Benzene	37.3	1.0	ug/l	41.7		89.5		51-132			
Toluene	39.9	1.0	"	41.7		95.8		51-138			
Ethylbenzene	45.6	1.0	"	41.7		109		58-146			
m,p-Xylene	95.5	2.0	"	83.3		115		57-144			
o-Xylene	47.0	1.0	"	41.7		113		53-146			
Naphthalene	36.7	1.0	"	41.7		88.1		70-130			
1,2,4-Trimethylbenzene	40.9	1.0	"	41.7		98.2		70-130			
1,3,5-Trimethylbenzene	39.9	1.0	"	41.7		95.8		70-130			
Surrogate: 1,2-Dichloroethane-d4	10.3		"	13.3		77.4		23-173			
Surrogate: Toluene-d8	12.6		"	13.3		94.7		20-170			
Surrogate: 4-Bromofluorobenzene	11.6		"	13.3		87.3		21-167			

Matrix Spike (BEH0067-MS1)

Source: 2108031-01

Prepared: 08/04/21 Analyzed: 08/05/21

Benzene	37.1	1.0	ug/l	41.7	ND	89.1		34-141			
Toluene	41.0	1.0	"	41.7	ND	98.5		27-151			
Ethylbenzene	45.2	1.0	"	41.7	ND	109		29-160			
m,p-Xylene	94.6	2.0	"	83.3	ND	114		20-166			
o-Xylene	47.1	1.0	"	41.7	ND	113		33-159			
Naphthalene	41.1	1.0	"	41.7	ND	98.7		70-130			
1,2,4-Trimethylbenzene	40.8	1.0	"	41.7	ND	97.9		70-130			
1,3,5-Trimethylbenzene	50.2	1.0	"	41.7	ND	121		70-130			
Surrogate: 1,2-Dichloroethane-d4	10.9		"	13.3		81.5		23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.5		20-170			
Surrogate: 4-Bromofluorobenzene	11.7		"	13.3		87.7		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: Meyring 13-27 Flowline

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 08/10/21 15:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEH0067 - EPA 5030 Water MS

Matrix Spike Dup (BEH0067-MSD1)	Source: 2108031-01			Prepared: 08/04/21 Analyzed: 08/05/21					
Benzene	36.8	1.0	ug/l	41.7	ND	88.3	34-141	0.920	30
Toluene	41.0	1.0	"	41.7	ND	98.3	27-151	0.219	30
Ethylbenzene	46.1	1.0	"	41.7	ND	111	29-160	1.86	30
m,p-Xylene	96.1	2.0	"	83.3	ND	115	20-166	1.55	30
o-Xylene	48.1	1.0	"	41.7	ND	115	33-159	2.08	30
Naphthalene	43.5	1.0	"	41.7	ND	104	70-130	5.58	30
1,2,4-Trimethylbenzene	42.2	1.0	"	41.7	ND	101	70-130	3.25	30
1,3,5-Trimethylbenzene	50.7	1.0	"	41.7	ND	122	70-130	0.951	30
Surrogate: 1,2-Dichloroethane-d4	11.1		"	13.3		83.2	23-173		
Surrogate: Toluene-d8	12.9		"	13.3		96.6	20-170		
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		89.9	21-167		

Summit Scientific

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08/10/21 15:56

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