

**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.

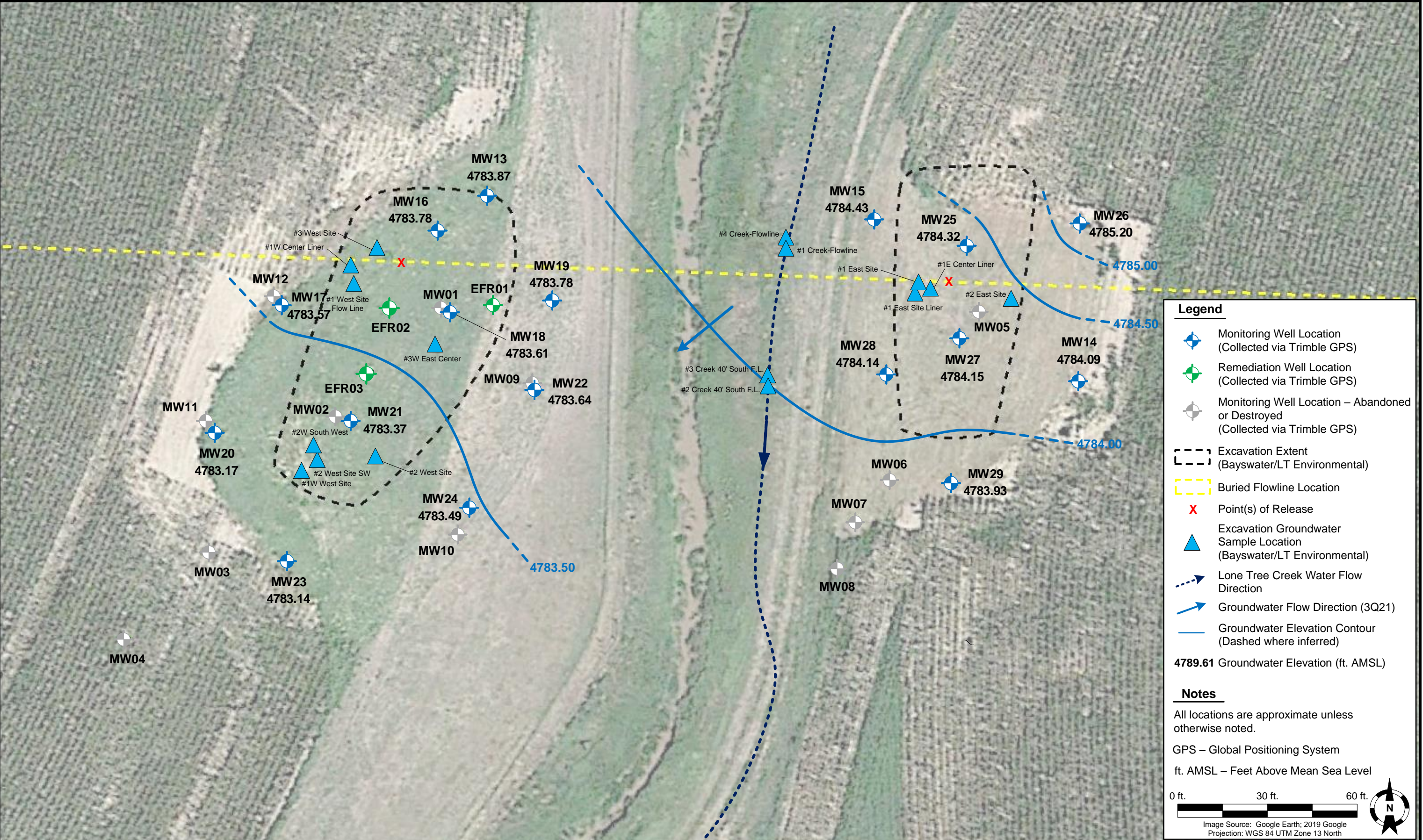
Due to persisting benzene concentrations, enhanced fluid recovery (EFR) and air sparge (AS) were initiated during the second quarter 2018 and continued into the fourth quarter 2020. Monitored natural attenuation (MNA) was selected as the remediation strategy in the fourth quarter 2020 and will continue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

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









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



**TASMAN**  
GEOSCIENCES

**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 <sup>(2)</sup> (ft.)	Groundwater Elevation (ft. AMSL)
<b>COGCC Table 915-1 Groundwater Standard (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	<b>140</b>	<b>67</b>	<b>67</b>	<b>-</b>	<b>-</b>
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	<b>16</b>	<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

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 10, 2021

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

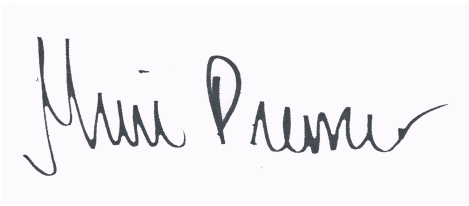
Denver, CO 80203

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, reading "Muri Premer", is displayed on a light purple rectangular background.

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.*

2108081.1

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 1 of 2

Client: PDC / Tasman

Project Manager: Mark Longhurst

Address: 6855 W. 119th Ave

E-Mail: mark.longhurst@pdce.com

City/State/Zip: Broomfield / CO/ 80020


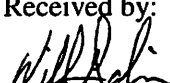
Phone: 303-487-1228

Project Name: Meyring 13-27 Flowline

Sampler Name: Ben Wagner

Project Number: N/A

Sample Name: 611				
--	--	--	--	--

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



2108031-2

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 2 of 2

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

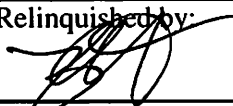
Project Name: Meyring 13-27 Flowline

Sampler Name: Ben Wagner

Project Number: N/A

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions	
					HCl	HNO <sub>3</sub>	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	1	1													
3	MW 25		1133	1	1													
4	MW 26		1145	1	1													
5	MW 27		1130	1	1													
6	MW 28		1146	1	1													
7	MW 29		1138	1	1													
8																		
9																		
10																		

Relinquished by: 	Date/Time: 8/3/21 1400	Received by: Tasman's Lock Box	Date/Time: 8/3/21 1400	<b>Turn Around Time</b> (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ <b>Sample Integrity:</b> Temperature Upon Receipt: 6 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Tasman Lock Box	8/3/21 1740	W. Longhurst	8/3/21 1740		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

# Sample Receipt Checklist

S2 Work Order 2108031

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 <sup>(1)</sup> ? 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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<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) <sup>(1)</sup> ? 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 <sup>(1)</sup> ? 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):

<sup>(1)</sup> 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	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 11:21**

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

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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	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 11:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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

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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

**MW16**  
**2108031-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>16</b>	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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		82.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		98.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.2 %		21-167		"	"	"	"	

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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	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 10:13**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Benzene</b>	<b>1.6</b>	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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
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	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 10:21**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	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 09:58**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	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 10:06**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	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 10:08**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	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 09:47**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	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 09:51**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	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 11:33**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	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 11:45**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		83.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	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

**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	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 11:46**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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

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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

**MW29**  
**2108031-17 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

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

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 11:38**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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

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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

## 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 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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**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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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

### 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