

**TABLE 1
FORMER MILLEGE 1 TANK BATTERY
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
AST01 @ 0-6"	3/29/2021	0-6 in. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
SEP01-FL @ 4'	3/29/2021	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
SEP01-DL @ 4'	3/29/2021	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
PWV01-B @ 4'	3/29/2021	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
PWV01-W @ 2.5'	3/29/2021	2.5 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50
WDL01 @ 5'	3/29/2021	5 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 extractable petroleum hydrocarbons - oil range organics

mg/kg = Milligrams per kilogram

TMB = Trimethylbenzene

ft. = Feet

in. = Inches

bgs = Below ground surface

TABLE 2
FORMER MILLEGE 1 TANK BATTERY
SOIL ANALYTICAL RESULTS SUMMARY TABLE
INORGANIC COMPOUNDS

Sample ID	Date Sampled	Depth	pH (units)	EC (mmhos/cm)	SAR (units)	Boron (mg/L)
Soil Suitability for Reclamation Standard ⁽¹⁾			6-8.3	<4	<6	2
PWV01-W @ 2.5'	3/29/2021	2.5 ft. bgs	7.86	0.966	0.876	0.0865

Notes:

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

COGCC = Colorado Oil and Gas Conservation Commission

EC = Electrical conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

mg/L = milligram per liter

ft. = Feet

bgs = Below ground surface

TABLE 3
FORMER MILLEGE 1 TANK BATTERY
FIELD DATA SUMMARY TABLE

Sample ID	Date Sampled	Depth	GPS Data ⁽¹⁾		PDOP Value	VOC Concentration ⁽²⁾ (ppm)
			Latitude	Longitude		
AST01 @ 0-6"	3/29/2021	0-6 in. bgs	40.342422	-104.545404	1.1	1.3
ECD01 @ 0-6"	3/29/2021	0-6 in. bgs	40.342340	-104.544672	1.1	0.4
MH01 @ 0-6"	3/29/2021	0-6 in. bgs	40.342440	-104.544759	1.1	0.2
SEP01-FL @ 4'	3/29/2021	4 ft. bgs	40.342416	-104.544684	1.1	0.7
SEP01-DL @ 4'	3/29/2021	4 ft. bgs	40.342421	-104.544744	1.0	0.2
PWV01-B @ 4'	3/29/2021	4 ft. bgs	40.342419	-104.545318	1.2	1.0
PWV01-N @ 2.5'	3/29/2021	2.5 ft. bgs	40.342437	-104.545312	1.3	0.0
PWV01-W @ 2.5'	3/29/2021	2.5 ft. bgs	40.342416	-104.545346	1.2	1.8
PWV01-S @ 2.5'	3/29/2021	2.5 ft. bgs	40.342397	-104.545314	1.2	0.2
PWV01-E @ 2.5'	3/29/2021	2.5 ft. bgs	40.342409	-104.545296	1.2	0.9
WDL01 @ 5'	3/29/2021	5 ft. bgs	40.342392	-104.545315	1.1	2.0
BKG01 @ 2.5'	3/29/2021	2.5 ft. bgs	40.342512	-104.544842	1.1	0.0

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

April 09, 2021

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Millege 1 Tank Battery

Work Order #2103429

Enclosed are the results of analyses for samples received by Summit Scientific on 03/29/21 18:00. 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 initial 'M' and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



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

Project: Millege I Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
04/09/21 13:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@0-6"	2103429-01	Soil	03/29/21 13:04	03/29/21 18:00
SEP01-FL@4'	2103429-02	Soil	03/29/21 13:07	03/29/21 18:00
SEP01-DL@3'	2103429-03	Soil	03/29/21 13:10	03/29/21 18:00
PWV01-B@4'	2103429-04	Soil	03/29/21 13:15	03/29/21 18:00
PWV01-W@2.5'	2103429-05	Soil	03/29/21 13:18	03/29/21 18:00
WDL01@5'	2103429-06	Soil	03/29/21 14:00	03/29/21 18:00

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 2103429

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: PDC/Tasman
 Address: 6855 W. 119th ave.
 City/State/Zip: Broomfield, CO 80020
 Phone: Fax:
 Sampler Name: Jake McCarver

Project Manager: Mark Longhurst
 E-Mail: Mark.Longhurst@pdce.com
 Project Name: Millage 1 Tank Battery
 Project Number: _____

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix			Analyze For:							Special Instructions				
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	915	915	915	915	915	915					
AST01@0-6"	3/29/21	1304	2			X			X			X	X	X							pH, EC, SAR by saturated paste	
SEP01-FL@4'	↓	1307	2			X			X			X	X	X								
SEP01-DL@3'	↓	1310	2			X			X			X	X	X								
PWV01-B@4'	↓	1315	2			X			X			X	X	X								
PWV01-W@2.5'	↓	1318	4			X			X			X	X	X	X	X						
WDL01@5'	↓	1400	2			X			X			X	X	X								
BK601@2.5'		1405	2			X			X								X					
Relinquished by: <u>[Signature]</u> Date/Time: <u>3/29/21 18:00</u>				Received by: <u>[Signature]</u> Date/Time: <u>3-29-21 18:00</u>				Turn Around Time (Check)														
Relinquished by: _____ Date/Time: _____				Received by: _____ Date/Time: _____				Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>														
Relinquished by: _____ Date/Time: _____				Received in Lab by: _____ Date/Time: _____				Sample Integrity: Temperature Upon Receipt: <u>45</u> Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														

Sample Receipt Checklist

S2 Work Order 2103429

Client: PDC/Tasman Client Project ID: Millage 1 Tank Battery

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

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

Temp (°C)	4.5
-----------	-----

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.				

MP
Custodian Printed Name or Initials

Muri Premer
Signature of Custodian

3/29/21
Date/Time



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

Project: Millege I Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/09/21 13:47

AST01@0-6"
2103429-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/21 13:04**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BEC0543	03/31/21	04/01/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/21 13:04**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		90.3 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/21 13:04**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0544	03/31/21	04/02/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/21 13:04**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		95.1 %	30-150		"	"	"	"	

Summit Scientific

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

Project: Millege I Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/09/21 13:47

SEP01-FL@4'
2103429-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/21 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0543	03/31/21	04/01/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/21 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		86.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/21 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0544	03/31/21	04/02/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/21 13:07**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.8 %	30-150		"	"	"	"	

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

Project: Millege I Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/09/21 13:47

SEP01-DL@3'
2103429-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/21 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0543	03/31/21	04/02/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/21 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/21 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0544	03/31/21	04/02/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/21 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		109 %	30-150		"	"	"	"	

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

Project: Millege I Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/09/21 13:47

PWV01-B@4'
2103429-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/21 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0543	03/31/21	04/02/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/21 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		100 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/21 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0544	03/31/21	04/02/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/21 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

Summit Scientific

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

Project: Millege I Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/09/21 13:47

PWV01-W@2.5'
2103429-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/21 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0543	03/31/21	04/02/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/21 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/21 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0544	03/31/21	04/02/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/21 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		108 %	30-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Summit Scientific

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

Project: Millege I Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/09/21 13:47

PWV01-W@2.5'
2103429-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/29/21 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0865	0.0100	mg/L	1	BED0033	04/02/21	04/03/21	EPA 6020B	

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

Date Sampled: **03/29/21 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.9	0.0578	mg/L dry	1	BED0040	04/02/21	04/07/21	EPA 6020B	
Magnesium	6.55	0.0578	"	"	"	"	"	"	
Sodium	18.2	0.0578	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/29/21 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.876	0.100	units	1	BED0139	04/08/21	04/08/21	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/29/21 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	1	BEC0530	03/31/21	03/31/21	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/29/21 13:18**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.966	0.0100	mmhos/cm	1	BED0090	04/06/21	04/06/21	EPA 120.1	

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

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: Millege I Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
 04/09/21 13:47

PWV01-W@2.5'
2103429-05 (Soil)

Summit Scientific

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

Date Sampled: **03/29/21 13:18**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.86		pH Units	1	BED0091	04/06/21	04/06/21	EPA 9045D	

Summit Scientific

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

Project: Millege I Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/09/21 13:47

WDL01@5'
2103429-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/29/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BEC0543	03/31/21	04/02/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **03/29/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/29/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BEC0544	03/31/21	04/02/21	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/29/21 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		118 %	30-150		"	"	"	"	

Summit Scientific

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

Project: Millege I Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/09/21 13:47

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 BEC0543 - EPA 5030 Soil MS

Blank (BEC0543-BLK1)

Prepared: 03/31/21 Analyzed: 04/01/21

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0302		"	0.0400		75.4	23-173				
<i>Surrogate: Toluene-d8</i>	0.0413		"	0.0400		103	20-170				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0407		"	0.0400		102	21-167				

LCS (BEC0543-BS1)

Prepared: 03/31/21 Analyzed: 04/01/21

Benzene	0.0727	0.0020	mg/kg	0.100		72.7	70-130				
Toluene	0.0982	0.0050	"	0.100		98.2	70-130				
Ethylbenzene	0.0949	0.0050	"	0.100		94.9	70-130				
m,p-Xylene	0.170	0.010	"	0.200		85.2	70-130				
o-Xylene	0.0856	0.0050	"	0.100		85.6	70-130				
1,2,4-Trimethylbenzene	0.0890	0.0050	"	0.100		89.0	70-130				
1,3,5-Trimethylbenzene	0.0846	0.0050	"	0.100		84.6	70-130				
Naphthalene	0.0852	0.0038	"	0.100		85.2	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0220		"	0.0400		54.9	23-173				
<i>Surrogate: Toluene-d8</i>	0.0446		"	0.0400		111	20-170				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0395		"	0.0400		98.8	21-167				

Matrix Spike (BEC0543-MS1)

Source: 2103428-02

Prepared: 03/31/21 Analyzed: 04/01/21

Benzene	0.0762	0.0020	mg/kg	0.100	ND	76.2	70-130				
Toluene	0.103	0.0050	"	0.100	ND	103	70-130				
Ethylbenzene	0.0974	0.0050	"	0.100	ND	97.4	70-130				
m,p-Xylene	0.173	0.010	"	0.200	ND	86.7	70-130				
o-Xylene	0.0874	0.0050	"	0.100	ND	87.4	70-130				
1,2,4-Trimethylbenzene	0.0925	0.0050	"	0.100	ND	92.5	70-130				
1,3,5-Trimethylbenzene	0.0878	0.0050	"	0.100	ND	87.8	70-130				
Naphthalene	0.0975	0.0038	"	0.100	ND	97.5	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0285		"	0.0400		71.2	23-173				
<i>Surrogate: Toluene-d8</i>	0.0440		"	0.0400		110	20-170				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0411		"	0.0400		103	21-167				

Summit Scientific

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

Project: Millege I Tank Battery

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 04/09/21 13:47

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	Limit	

Batch BEC0543 - EPA 5030 Soil MS

Matrix Spike Dup (BEC0543-MSD1)	Source: 2103428-02			Prepared: 03/31/21 Analyzed: 04/01/21						
Benzene	0.0725	0.0020	mg/kg	0.100	ND	72.5	70-130	4.96	30	
Toluene	0.0857	0.0050	"	0.100	ND	85.7	70-130	18.0	30	
Ethylbenzene	0.0910	0.0050	"	0.100	ND	91.0	70-130	6.75	30	
m,p-Xylene	0.162	0.010	"	0.200	ND	81.0	70-130	6.80	30	
o-Xylene	0.0826	0.0050	"	0.100	ND	82.6	70-130	5.72	30	
1,2,4-Trimethylbenzene	0.0862	0.0050	"	0.100	ND	86.2	70-130	7.02	30	
1,3,5-Trimethylbenzene	0.0805	0.0050	"	0.100	ND	80.5	70-130	8.70	30	
Naphthalene	0.0911	0.0038	"	0.100	ND	91.1	70-130	6.84	30	
Surrogate: 1,2-Dichloroethane-d4	0.0268		"	0.0400		66.9	23-173			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.6	21-167			

Summit Scientific

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

Project: Millege I Tank Battery

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 04/09/21 13:47

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEC0544 - EPA 3550A

Blank (BEC0544-BLK1)

Prepared: 03/31/21 Analyzed: 04/02/21

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

LCS (BEC0544-BS1)

Prepared: 03/31/21 Analyzed: 04/02/21

C10-C28 (DRO)	451	50	mg/kg	500	90.3	70-130				
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Matrix Spike (BEC0544-MS1)

Source: 2103425-01

Prepared: 03/31/21 Analyzed: 04/02/21

C10-C28 (DRO)	428	50	mg/kg	500	15.1	82.6	70-130			
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Matrix Spike Dup (BEC0544-MSD1)

Source: 2103425-01

Prepared: 03/31/21 Analyzed: 04/02/21

C10-C28 (DRO)	400	50	mg/kg	500	15.1	77.0	70-130	6.81	20	
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Summit Scientific

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

Project: Millege I Tank Battery

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 04/09/21 13:47

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

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

Batch BED0033 - EPA 3050B

Blank (BED0033-BLK1)				Prepared & Analyzed: 04/02/21							
Boron	ND	0.0100	mg/L								
LCS (BED0033-BS1)				Prepared & Analyzed: 04/02/21							
Boron	4.82	0.0100	mg/L	5.00	96.5	80-120					
Duplicate (BED0033-DUP1)				Source: 2103400-01		Prepared & Analyzed: 04/02/21					
Boron	1.12	0.0100	mg/L		1.13				0.758	20	
Matrix Spike (BED0033-MS1)				Source: 2103400-01		Prepared & Analyzed: 04/02/21					
Boron	5.03	0.0100	mg/L	5.00	1.13	78.1	75-125				
Matrix Spike Dup (BED0033-MSD1)				Source: 2103400-01		Prepared & Analyzed: 04/02/21					
Boron	5.15	0.0100	mg/L	5.00	1.13	80.4	75-125	2.26		25	

Summit Scientific

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

Project: Millege I Tank Battery

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 04/09/21 13:47

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

Summit Scientific

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

Batch BED0040 - General Preparation

Blank (BED0040-BLK1)

Prepared: 04/02/21 Analyzed: 04/07/21

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

LCS (BED0040-BS1)

Prepared: 04/02/21 Analyzed: 04/07/21

Calcium	5.85	0.0500	mg/L wet	5.00		117	70-130			
Magnesium	5.69	0.0500	"	5.00		114	70-130			
Sodium	6.22	0.0500	"	5.00		124	70-130			

Summit Scientific

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

Project: Millage 1 Tank Battery

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 04/09/21 13:47

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

Summit Scientific

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

Batch BEC0530 - General Preparation

Duplicate (BEC0530-DUP1)		Source: 2103243-03			Prepared & Analyzed: 03/31/21						
% Solids	93.4		%		93.2			0.220		20	

Summit Scientific

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

Project: Millege I Tank Battery

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 04/09/21 13:47

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

Summit Scientific

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

Batch BED0090 - General Preparation

Blank (BED0090-BLK1)

Prepared & Analyzed: 04/06/21

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BED0090-BS1)

Prepared & Analyzed: 04/06/21

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 90-110

Duplicate (BED0090-DUP1)

Source: 2103400-01

Prepared & Analyzed: 04/06/21

Specific Conductance (EC) 6.78 0.0100 mmhos/cm 6.86 1.16 20

Summit Scientific

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

Project: Millege I Tank Battery

Project Number: [none]
 Project Manager: Mark Longhurst

Reported:
 04/09/21 13:47

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

Summit Scientific

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

Batch BED0091 - General Preparation

LCS (BED0091-BS1)

Prepared & Analyzed: 04/06/21

pH	9.28	pH Units	9.21	101	95-105
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Duplicate (BED0091-DUP1)

Source: 2103400-01

Prepared & Analyzed: 04/06/21

pH	8.05	pH Units	8.05	0.00	20
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PDC Energy
1775 Sherman St. STE. 3000
Denver CO, 80203

Project: Millege 1 Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/09/21 13:47

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