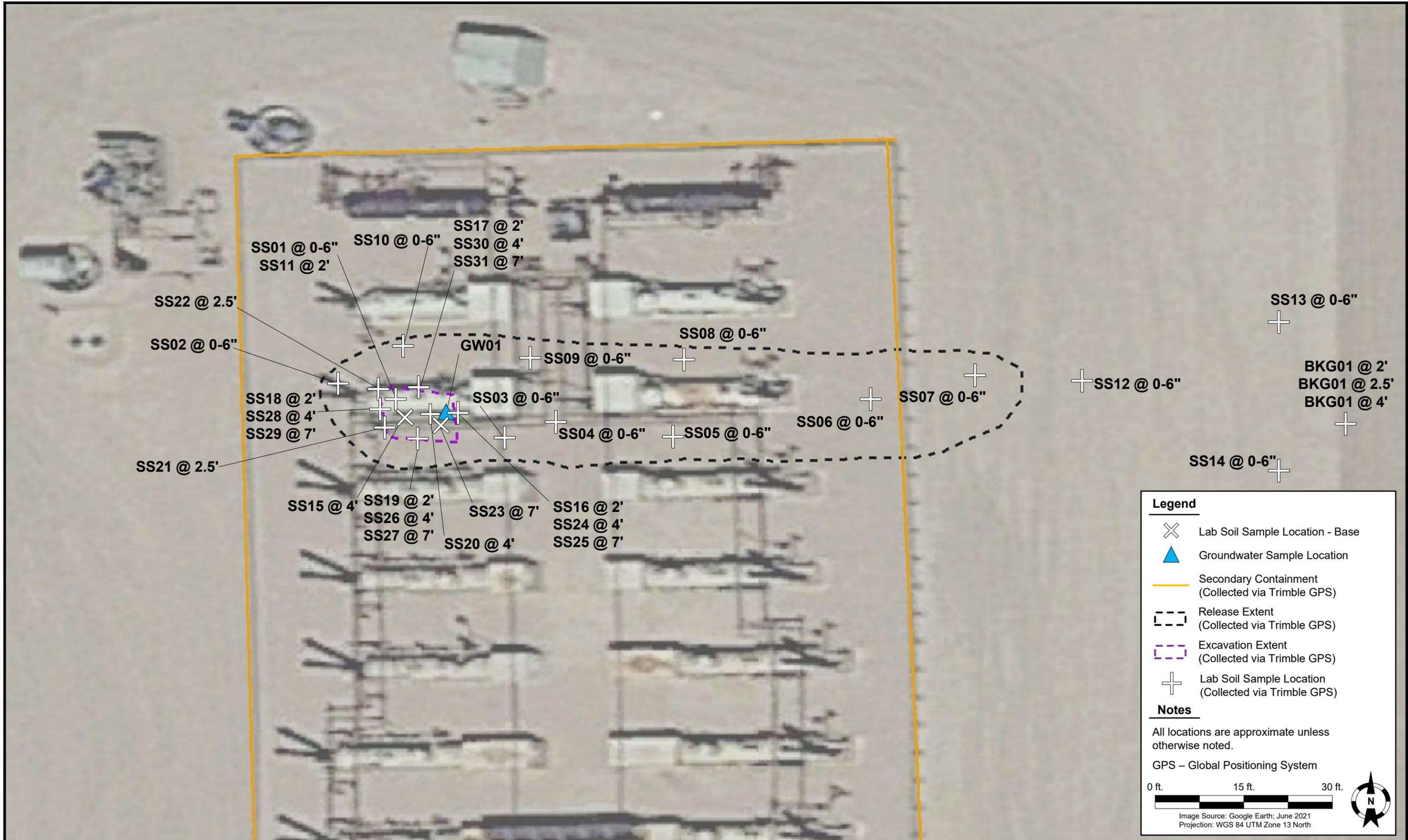


## **Attachment A**

Soil Documents



DATE: May 23, 2022

DESIGNED BY: C. Hamlin

DRAWN BY: S.Anderson

**Tasman, Inc.**  
 6855 W. 119<sup>th</sup> Ave.  
 Broomfield, CO 80020

**PDC Energy, Inc. – DJ Basin**  
**Fagerberg Pad**  
 SWSW, Section 12, Township 6 North, Range 66 West  
 Weld County, Colorado

EXCAVATION SITE MAP

FIGURE  
1



**Legend**

- Lab Soil Sample Location (Collected via Trimble GPS)
- Secondary Containment (Collected via Trimble GPS)
- Release Extent (Collected via Trimble GPS)
- Excavation Extent (Collected via Trimble GPS)

**Notes**

All locations are approximate unless otherwise noted.

PID – Photoionization detector  
 ppm – Parts per million  
 GPS – Global Positioning System

0 ft.      25 ft.      50 ft.

Image Source: Google Earth; June 2021  
 Projection: WGS 84 UTM Zone 13 North

|              |                 |
|--------------|-----------------|
| DATE:        | October 7, 2022 |
| DESIGNED BY: | C. Hamlin       |
| DRAWN BY:    | D. Vigil        |

**Tasman, Inc.**  
 6855 W. 119<sup>th</sup> Ave.  
 Broomfield, CO 80020

**PDC Energy, Inc. – DJ Basin**  
**Fagerberg Pad**  
 SWSW, Section 12, Township 6 North, Range 66 West  
 Weld County, Colorado

**SOIL SAMPLE LOCATION MAP**

**FIGURE 2**



**Legend**

-  Soil Boring Location  
(Collected via Trimble GPS)
-  Secondary Containment  
(Collected via Trimble GPS)
-  Release Extent  
(Collected via Trimble GPS)
-  Excavation Extent  
(Collected via Trimble GPS)
-  Soil Sample Location  
(Collected via Trimble GPS)

**Notes**

All locations are approximate unless otherwise noted.  
 GPS – Global Positioning System

0 ft.      15 ft.      30 ft.



Image Source: Google Earth; June 2021  
 Projection: WGS 84 UTM Zone 13 North



|              |                  |
|--------------|------------------|
| DATE:        | October 25, 2022 |
| DESIGNED BY: | C. Hamlin        |
| DRAWN BY:    | J. Marcus        |



**Tasman, Inc.**  
 6855 W. 119<sup>th</sup> Ave.  
 Broomfield, CO 80020

**PDC Energy, Inc. – DJ Basin**  
**Fagerberg Pad**  
 SWSW, Section 12, Township 6 North, Range 66 West  
 Weld County, Colorado

SOIL BORING  
 LOCATION  
 MAP

FIGURE  
 3

**TABLE 1  
FAGERBERG PAD  
SOIL ANALYTICAL RESULTS SUMMARY TABLE  
CONTAMINANTS OF CONCERN**

| 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 <sup>(4)</sup> (mg/kg) | Benz(a) (mg/kg) | Chrysene (mg/kg) | Fluoranthene (mg/kg) | Pyrene (mg/kg) | 1-M (mg/kg) | 2-M (mg/kg) | EC (mmhos/cm) | SAR (units) | Boron (mg/L) |
|--|--------------|-------------|-----------------|-----------------|----------------------|-----------------------|---------------------|---------------------|---------------------|----------------------------|-----------------|------------------|----------------------|----------------|-------------|-------------|---------------|-------------|--------------|
| Residential SSL <sup>(1,2)</sup>                         |              |             | 1.2             | 490             | 5.8                  | 58                    | 30                  | 27                  | 2                   | 500                        | 1.1             | 110              | 240                  | 180            | 18          | 24          | -             | -           | -            |
| Protection of Groundwater SSL <sup>(1,2,3)</sup>         |              |             | 0.0026          | 0.69            | 0.78                 | 9.9                   | 0.0081              | 0.0087              | 0.0038              | 500                        | 0.011           | 9                | 8.9                  | 1.3            | 0.006       | 0.019       | -             | -           | -            |
| Soil Suitability for Reclamation Standard <sup>(1)</sup> |              |             | -               | -               | -                    | -                     | -                   | -                   | -                   | -                          | -               | -                | -                    | -              | -           | -           | <4            | <6          | 2            |
| SS01 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | 1.0             | 17              | 8.1                  | 17                    | 1.3                 | 3.4                 | 4.2                 | 6,800                      | 0.143           | 0.153            | 0.0304               | 0.0860         | 5.34        | 9.65        | 4.58          | 41.4        | 2.28         |
| SS02 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | 120                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 2.49          | 0.247       | 0.396        |
| SS03 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | 0.00520              | <0.00500       | <0.00500    | <0.00500    | 3.85          | 0.523       | 0.877        |
| SS04 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | 87.68                      | <0.00500        | 0.00698          | <0.00500             | <0.00500       | 0.0283      | 0.0391      | 1.70          | 0.493       | 0.635        |
| SS05 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | 1.0                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | 0.0103      | 1.16          | 0.105       | 0.532        |
| SS06 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | 1.0                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | 0.00667     | 0.154         | 0.0781      | 0.368        |
| SS07 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | 0.80                       | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 4.51          | 0.184       | 0.561        |
| SS08 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | 0.69                       | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 0.276         | 0.0623      | 0.391        |
| SS09 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | 0.64                       | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 2.26          | 0.793       | 1.35         |
| SS10 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | 0.62                       | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 3.47          | 1.03        | 1.50         |
| SS11 @ 2'  | 4/7/2022     | 2 ft. bgs   | 0.033           | 1.8             | 0.94                 | 7.7                   | 5.0                 | 1.7                 | 0.89                | 558                        | <0.00500        | 0.0211           | 0.00774              | <0.00500       | 0.263       | 0.0714      | 1.40          | 0.351       | 0.422        |
| SS12 @ 0-6"  | 4/8/2022     | 0-6 in. bgs | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 4.11          | 0.130       | 0.629        |
| SS13 @ 0-6"  | 4/8/2022     | 0-6 in. bgs | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 0.394         | 0.0269      | 0.397        |
| SS14 @ 0-6"  | 4/8/2022     | 0-6 in. bgs | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 0.475         | 0.0218      | 0.413        |
| SS15 @ 4'  | 4/8/2022     | 4 ft. bgs   | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 2.55          | 0.0627      | 0.601        |
| SS16 @ 2'  | 4/14/2022    | 2 ft. bgs   | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 1.13          | 0.0932      | 0.378        |
| SS17 @ 2'  | 4/14/2022    | 2 ft. bgs   | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 0.648         | 0.0648      | 0.320        |
| SS18 @ 2'  | 4/14/2022    | 2 ft. bgs   | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 0.561         | 0.0501      | 0.317        |
| SS19 @ 2'  | 4/14/2022    | 2 ft. bgs   | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 0.671         | 0.0681      | 0.346        |
| SS20 @ 4'  | 4/14/2022    | 4 ft. bgs   | <0.0020         | 0.0058          | <0.0050              | 0.030                 | 0.015               | 0.012               | <0.0038             | 1.2                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 0.641         | 0.0428      | 0.514        |
| SS23 @ 7'  | 4/15/2022    | 7 ft. bgs   | <0.0020         | 0.0087          | <0.0050              | 0.011                 | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 1.51          | 0.0623      | 0.372        |
| SS24 @ 4'  | 4/18/2022    | 4 ft. bgs   | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 2.03          | 0.0665      | 0.495        |
| SS25 @ 7'  | 4/18/2022    | 7 ft. bgs   | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 1.35          | 0.0660      | 0.425        |
| SS26 @ 4'  | 4/18/2022    | 4 ft. bgs   | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 2.13          | 0.0497      | 0.611        |
| SS27 @ 7'  | 4/18/2022    | 7 ft. bgs   | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 1.08          | 0.0731      | 0.429        |
| SS28 @ 4'  | 4/18/2022    | 4 ft. bgs   | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 0.826         | 0.0375      | 0.466        |
| SS29 @ 7'  | 4/18/2022    | 7 ft. bgs   | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 1.03          | 0.0701      | 0.477        |
| SS30 @ 4'  | 4/18/2022    | 4 ft. bgs   | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 2.06          | 0.0421      | 0.522        |
| SS31 @ 7'  | 4/18/2022    | 7 ft. bgs   | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | 0.00614          | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 3.76          | 0.181       | 0.465        |
| SB01 @ 0-6"  | 7/10/2023    | 0-6 in. bgs | <0.0020         | <0.0050         | <0.0050              | <0.010                | <0.0050             | <0.0050             | <0.0038             | <50                        | <0.00500        | <0.00500         | <0.00500             | <0.00500       | <0.00500    | <0.00500    | 0.338         | 4.54        | 0.226        |
| SB02 @ 0-6"  | 7/10/2023    | 0-6 in bgs  | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 1.60          | NA          | NA           |
| SB02 @ 1'  | 7/10/2023    | 1 ft. bgs   | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 1.64          | NA          | NA           |
| SB03 @ 0-6"  | 7/10/2023    | 0-6 in bgs  | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 0.959         | NA          | NA           |
| SB03 @ 1'  | 7/10/2023    | 1 ft. bgs   | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 1.65          | NA          | NA           |
| SB04 @ 0-6"  | 7/10/2023    | 0-6 in bgs  | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 1.07          | NA          | NA           |
| SB05 @ 0-6"  | 7/10/2023    | 0-6 in bgs  | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 1.48          | NA          | NA           |
| SB06 @ 0-6"  | 7/10/2023    | 0-6 in bgs  | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 1.73          | NA          | NA           |
| SB07 @ 0-6"  | 7/10/2023    | 0-6 in bgs  | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 0.825         | NA          | NA           |
| SB08 @ 0-6"  | 7/10/2023    | 0-6 in bgs  | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 1.13          | NA          | NA           |
| BKG02 @ 0-6"   | 10/7/2022    | 0-6 in. bgs | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 1.17          | NA          | NA           |
| BKG03 @ 0-6"   | 10/7/2022    | 0-6 in. bgs | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 2.78          | NA          | NA           |
| BKG04 @ 0-6"   | 10/7/2022    | 0-6 in. bgs | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 0.153         | NA          | NA           |
| BKG05 @ 0-6"   | 10/7/2022    | 0-6 in. bgs | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 0.110         | NA          | NA           |
| BKG06 @ 0-6"   | 10/7/2022    | 0-6 in. bgs | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 0.243         | NA          | NA           |
| BKG07 @ 0-6"   | 10/7/2022    | 0-6 in. bgs | NA              | NA              | NA                   | NA                    | NA                  | NA                  | NA                  | NA                         | NA              | NA               | NA                   | NA             | NA          | NA          | 0.361         | NA          | NA           |

**TABLE 1**  
**FAGERBERG PAD**  
**SOIL ANALYTICAL RESULTS SUMMARY TABLE**  
**CONTAMINANTS OF CONCERN**

| 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 <sup>(4)</sup> (mg/kg) | Benz(a) (mg/kg) | Chrysene (mg/kg) | Fluoranthene (mg/kg) | Pyrene (mg/kg) | 1-M (mg/kg) | 2-M (mg/kg) | EC (mmhos/cm) | SAR (units) | Boron (mg/L) |
|--|--------------|-------|-----------------|-----------------|----------------------|-----------------------|---------------------|---------------------|---------------------|----------------------------|-----------------|------------------|----------------------|----------------|-------------|-------------|---------------|-------------|--------------|
| Residential SSL <sup>(1,2)</sup>                 |              |       | 1.2             | 490             | 5.8                  | 58                    | 30                  | 27                  | 2                   | 500                        | 1.1             | 110              | 240                  | 180            | 18          | 24          | -             | -           | -            |
| Protection of Groundwater SSL <sup>(1,2,3)</sup> |              |       | 0.0026          | 0.69            | 0.78                 | 9.9                   | 0.0081              | 0.0087              | 0.0038              | 500                        | 0.011           | 9                | 8.9                  | 1.3            | 0.006       | 0.019       | -             | -           | -            |

**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

Benz(a) = Benzanthracene

M = Methylanthalene

EC = Electrical conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

NA = Constituent not analyzed

  = Source material characterization sample excavated and transported off-site for disposal

  = Sample material excavated and transported off-site for disposal

ft. = Feet

in. = Inches

bgs = Below ground surface

**BOLD** = Analytical result is in exceedance of applicable standard.

**TABLE 2**  
**FAGERBERG FACILITY**  
**SOIL ANALYTICAL RESULTS SUMMARY TABLE**  
**INORGANIC COMPOUNDS**

| Sample ID   | Date Sampled | Depth       | pH (units)   | EC (mmhos/cm) | SAR (units)  | Boron (mg/L) |
|---|--------------|-------------|--------------|---------------|--------------|--------------|
| <b>Soil Suitability for Reclamation Standard <sup>(1)</sup></b> |              |             | <b>6-8.3</b> | <b>&lt;4</b>  | <b>&lt;6</b> | <b>2</b>     |
| SS01 @ 0-6"   | 4/7/2022     | 0-6 in. bgs | 7.88         | <b>4.58</b>   | <b>41.4</b>  | <b>2.28</b>  |
| SS21 @ 2.5'   | 4/14/2022    | 2.5 ft. bgs | 7.75         | 1.95          | 1.07         | 0.261        |
| BKG01 @ 2'  | 4/14/2022    | 2 ft. bgs   | NA           | 0.485         | 0.0434       | 0.321        |
| BKG01 @ 2.5'  | 4/14/2022    | 2.5 ft. bgs | NA           | 0.534         | 0.0504       | 0.381        |
| BKG01 @ 4'  | 4/14/2022    | 4 ft. bgs   | NA           | 2.51          | 0.0848       | 0.636        |

**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

in. = Inches

bgs = Below ground surface

**BOLD** = Analytical result is in exceedance of applicable standard.

  = Source material characterization sample

NA = Constituent not analyzed

**TABLE 3**  
**FAGERBERG FACILITY**  
**SOIL ANALYTICAL RESULTS SUMMARY TABLE**  
**ORGANIC COMPOUNDS - PAHs**

| Sample ID  | Date Sampled | Depth       | Acenaphthene (mg/kg) | Anthracene (mg/kg) | Benz(a) (mg/kg) | Benzo(a) (mg/kg) | Benzo(b) (mg/kg) | Benzo(k) (mg/kg) | Chrysene (mg/kg) | A,H (mg/kg) | Fluoranthene (mg/kg) | Fluorene (mg/kg) | 1,2,3-CD (mg/kg) | Pyrene (mg/kg) | 1-M (mg/kg) | 2-M (mg/kg) |
|--|--------------|-------------|----------------------|--------------------|-----------------|------------------|------------------|------------------|------------------|-------------|----------------------|------------------|------------------|----------------|-------------|-------------|
| Residential SSL <sup>(1,2)</sup>                 |              |             | 360                  | 1,800              | 1.1             | 0.11             | 1.1              | 11               | 110              | 0.11        | 240                  | 240              | 1.1              | 180            | 18          | 24          |
| Protection of Groundwater SSL <sup>(1,2,3)</sup> |              |             | 0.55                 | 5.8                | 0.011           | 0.24             | 0.3              | 2.9              | 9                | 0.096       | 8.9                  | 0.54             | 0.98             | 1.3            | 0.006       | 0.019       |
| SS01 @ 0-6"                                      | 4/7/2022     | 0-6 in. bgs | <0.00500             | <0.00500           | <b>0.143</b>    | <0.00500         | <0.00500         | <0.00500         | 0.153            | <0.00500    | 0.0304               | <0.00500         | <0.00500         | 0.0860         | <b>5.34</b> | <b>9.65</b> |

**Notes:**

1. Compounds referenced from the COGCC 2 CCR 404-1, Table 915-1, effective January 15, 2021.
2. Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
3. SSLs are applicable if a pathway for communication with

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit.

PAHs = Polycyclic aromatic hydrocarbons

Benz(a) = Benzanthracene

Benzo(a) = Benzopyrene

Benzo(b) = Benzofluoranthene

Benzo(k) = Benzofluoranthene

A,H = Dibenzoanthracene

1,2,3-CD = Indenopyrene

M = Methylnaphthalene

mg/kg = Milligrams per kilogram

Source material characterization sample

in. = Inches

bgs = Below ground surface

**BOLD** = Analytical result is in exceedance of applicable standard.

**TABLE 4  
FAGERBERG FACILITY  
SOIL ANALYTICAL RESULTS SUMMARY TABLE  
METALS**

| Sample ID   | Date Sampled | Depth       | Arsenic (mg/kg) | Barium (mg/kg) | Cadmium (mg/kg) | Chromium (VI) (mg/kg) | Copper (mg/kg) | Lead (mg/kg) | Nickel (mg/kg) | Selenium (mg/kg) | Silver (mg/kg) | Zinc (mg/kg)  |
|---|--------------|-------------|-----------------|----------------|-----------------|-----------------------|----------------|--------------|----------------|------------------|----------------|---------------|
| <b>Residential SSL <sup>(1,2)</sup></b>                 |              |             | <b>0.68</b>     | <b>15,000</b>  | <b>71</b>       | <b>0.3</b>            | <b>3,100</b>   | <b>400</b>   | <b>1,500</b>   | <b>390</b>       | <b>390</b>     | <b>23,000</b> |
| <b>Protection of Groundwater SSL <sup>(1,2,3)</sup></b> |              |             | <b>0.29</b>     | <b>82</b>      | <b>0.38</b>     | <b>0.00067</b>        | <b>46</b>      | <b>14</b>    | <b>26</b>      | <b>0.26</b>      | <b>0.8</b>     | <b>370</b>    |
| SS01 @ 0-6"   | 4/7/2022     | 0-6 in. bgs | <b>2.44</b>     | 63.3           | 0.368           | <0.30 <sup>(4)</sup>  | 5.95           | 3.50         | 4.76           | <b>0.426</b>     | <0.0225        | 20.4          |
| BKG01 @ 2'  | 4/14/2022    | 2 ft. bgs   | <b>5.98</b>     | <b>295</b>     | <b>0.965</b>    | <0.30 <sup>(4)</sup>  | 12.7           | 8.05         | 16.2           | <b>1.02</b>      | 0.0486         | 51.3          |
| BKG01 @ 2.5'  | 4/14/2022    | 2.5 ft. bgs | <b>6.08</b>     | <b>202</b>     | 0.265           | <0.30 <sup>(4)</sup>  | 12.9           | 8.25         | 15.6           | <b>1.07</b>      | 0.0485         | 51.4          |
| BKG01 @ 4'  | 4/14/2022    | 4 ft. bgs   | <b>7.67</b>     | <b>187</b>     | <b>0.811</b>    | <0.30 <sup>(4)</sup>  | 11.6           | 8.29         | 14.2           | <b>0.973</b>     | 0.0471         | 50.8          |

**Notes:**

- Compounds referenced from the COGCC 2 CCR 404-1, Table 915-1, effective January 15, 2021.
- Soil Screening Levels (SSL) referenced from EPA Regional Screening Levels (EPA RSLs) for Chemical Contaminants at Superfund Sites, effective November 2020.
- SSLs are applicable if a pathway for communication with groundwater is present.
- Compound falls within COGCC Table 915-1 Footnote 9.

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit.

mg/kg = Milligrams per kilogram

  = Source material characterization sample

ft. = Feet

in. = Inches

bgs = Below ground surface

**BOLD** = Analytical result is in exceedance of applicable standard.

**BOLD** = Analytical result is in exceedance of applicable standard, but below background concentration.

Arsenic and Selenium exceedances observed in SS01 were below the respective concentrations observed in all 3x BKG01 samples.

**TABLE 5  
FAGERBERG PAD  
FIELD DATA SUMMARY TABLE**

| Sample ID    | Date Sampled | Depth       | GPS Data <sup>(1)</sup><br>Latitude / Longitude |             | PDOP Value | VOC<br>Concentration <sup>(2)</sup><br>(ppm) |
|--------------|--------------|-------------|---|-------------|------------|--|
| SS01 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | 40.502538                                       | -104.733864 | 1.0        | 4,608  |
| SS02 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | 40.502543                                       | -104.733881 | 1.0        | 0.0  |
| SS03 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | 40.502515                                       | -104.733831 | 1.0        | 0.0  |
| SS04 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | 40.502525                                       | -104.733780 | 1.0        | 0.0  |
| SS05 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | 40.502519                                       | -104.733724 | 1.0        | 0.0  |
| SS06 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | 40.502535                                       | -104.733633 | 1.0        | 0.0  |
| SS07 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | 40.502546                                       | -104.733583 | 1.0        | 0.0  |
| SS08 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | 40.502554                                       | -104.733720 | 1.0        | 0.0  |
| SS09 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | 40.502555                                       | -104.733791 | 1.0        | 0.0  |
| SS10 @ 0-6"  | 4/7/2022     | 0-6 in. bgs | 40.502560                                       | -104.733849 | 1.0        | 0.0  |
| SS11 @ 2'    | 4/7/2022     | 2 ft. bgs   | 40.502538                                       | -104.733864 | 1.0        | 1,750  |
| SS12 @ 0-6"  | 4/8/2022     | 0-6 in. bgs | 40.502543                                       | -104.733534 | 1.0        | 0.0  |
| SS13 @ 0-6"  | 4/8/2022     | 0-6 in. bgs | 40.502571                                       | -104.733442 | 1.0        | 0.0  |
| SS14 @ 0-6"  | 4/8/2022     | 0-6 in. bgs | 40.502503                                       | -104.733444 | 1.0        | 0.0  |
| SS15 @ 4'    | 4/8/2022     | 4 ft. bgs   | NC  | NC          | NC         | 29.5   |
| SS16 @ 2'    | 4/14/2022    | 2 ft. bgs   | 40.502526                                       | -104.733815 | 1.0        | 9.6  |
| SS17 @ 2'    | 4/14/2022    | 2 ft. bgs   | 40.502539                                       | -104.733841 | 1.0        | 0.9  |
| SS18 @ 2'    | 4/14/2022    | 2 ft. bgs   | 40.502527                                       | -104.733863 | 1.0        | 1.0  |
| SS19 @ 2'    | 4/14/2022    | 2 ft. bgs   | 40.502516                                       | -104.733841 | 1.0        | 4.5  |
| SS20 @ 4'    | 4/14/2022    | 4 ft. bgs   | 40.502530                                       | -104.733830 | 1.0        | 3.3  |
| SS21 @ 2.5'  | 4/14/2022    | 2.5 ft. bgs | 40.502542                                       | -104.733858 | 1.0        | 0.8  |
| SS22 @ 2.5'  | 4/14/2022    | 2.5 ft. bgs | 40.502519                                       | -104.733857 | 1.0        | 0.4  |
| BKG01 @ 2'   | 4/14/2022    | 2 ft. bgs   | 40.502523                                       | -104.733412 | 1.1        | 0.3  |
| BKG01 @ 2.5' | 4/14/2022    | 2.5 ft. bgs | 40.502523                                       | -104.733412 | 1.1        | 0.4  |
| BKG01 @ 4'   | 4/14/2022    | 4 ft. bgs   | 40.502523                                       | -104.733412 | 1.1        | 0.2  |
| SS23 @ 7'    | 4/15/2022    | 7 ft. bgs   | NC  | NC          | NC         | 4.7  |
| SS24 @ 4'    | 4/18/2022    | 4 ft. bgs   | 40.502499                                       | -104.733782 | 1.2        | 2.2  |
| SS25 @ 7'    | 4/18/2022    | 7 ft. bgs   | 40.502499                                       | -104.733782 | 1.2        | 4.1  |
| SS26 @ 4'    | 4/18/2022    | 4 ft. bgs   | 40.502521                                       | -104.733849 | 1.0        | 1.8  |
| SS27 @ 7'    | 4/18/2022    | 7 ft. bgs   | 40.502521                                       | -104.733849 | 1.0        | 34.8   |
| SS28 @ 4'    | 4/18/2022    | 4 ft. bgs   | 40.502533                                       | -104.733863 | 1.1        | 6.1  |
| SS29 @ 7'    | 4/18/2022    | 7 ft. bgs   | 40.502533                                       | -104.733863 | 1.1        | 1.9  |
| SS30 @ 4'    | 4/18/2022    | 4 ft. bgs   | 40.502541                                       | -104.733845 | 1.2        | 3.7  |
| SS31 @ 7'    | 4/18/2022    | 7 ft. bgs   | 40.502541                                       | -104.733845 | 1.2        | 1.5  |
| BKG02 @ 0-6" | 10/7/2022    | 0-6 in. bgs | 40.502764                                       | -104.734176 | NC         | 0.0  |
| BKG03 @ 0-6" | 10/7/2022    | 0-6 in. bgs | 40.502367                                       | -104.733450 | NC         | 0.0  |
| BKG04 @ 0-6" | 10/7/2022    | 0-6 in. bgs | 40.502168                                       | -104.734167 | NC         | 0.0  |
| BKG05 @ 0-6" | 10/7/2022    | 0-6 in. bgs | 40.502178                                       | -104.733537 | NC         | 0.0  |
| BKG06 @ 0-6" | 10/7/2022    | 0-6 in. bgs | 40.502628                                       | -104.733376 | NC         | 0.0  |
| BKG07 @ 0-6" | 10/7/2022    | 0-6 in. bgs | 40.502750                                       | -104.733505 | NC         | 0.0  |
| SB01         | 7/10/2023    | 1 ft. bgs   | 40.502529                                       | -104.733792 | NC         | 0.2  |
| SB02         | 7/10/2023    | 0-6 in bgs  | 40.502594                                       | -104.733592 | NC         | 0.4  |
| SB03         | 7/10/2023    | 1 ft. bgs   | 40.502550                                       | -104.733592 | NC         | 0.5  |
| SB04         | 7/10/2023    | 0-6 in bgs  | 40.502510                                       | -104.733592 | NC         | 0.2  |
| SB05         | 7/10/2023    | 0-6 in bgs  | 40.502594                                       | -104.733547 | NC         | 0.3  |
| SB06         | 7/10/2023    | 0-6 in bgs  | 40.502550                                       | -104.733547 | NC         | 0.2  |
| SB07         | 7/10/2023    | 0-6 in bgs  | 40.502510                                       | -104.733547 | NC         | 0.1  |
| SB08         | 7/10/2023    | 0-6 in bgs  | 40.502550                                       | -104.733494 | NC         | 0.2  |

**Notes:**

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum of 1983 (NAD 83) UTM Zone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

ft. = Feet

in. = Inches

bgs = Below ground surface

NC = Data not collected

     = Source material characterization sample

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 23, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Fagerberg Release

Work Order #2204123

Enclosed are the results of analyses for samples received by Summit Scientific on 04/07/22 17:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury

President



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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| SS01@0-6" | 2204123-01    | Soil   | 04/07/22 14:35 | 04/07/22 17:25 |
| SS02@0-6" | 2204123-02    | Soil   | 04/07/22 14:36 | 04/07/22 17:25 |
| SS03@0-6" | 2204123-03    | Soil   | 04/07/22 14:37 | 04/07/22 17:25 |
| SS04@0-6" | 2204123-04    | Soil   | 04/07/22 14:38 | 04/07/22 17:25 |
| SS05@0-6" | 2204123-05    | Soil   | 04/07/22 14:39 | 04/07/22 17:25 |
| SS06@0-6" | 2204123-06    | Soil   | 04/07/22 14:40 | 04/07/22 17:25 |
| SS07@0-6" | 2204123-07    | Soil   | 04/07/22 14:41 | 04/07/22 17:25 |
| SS08@0-6" | 2204123-08    | Soil   | 04/07/22 14:42 | 04/07/22 17:25 |
| SS09@0-6" | 2204123-09    | Soil   | 04/07/22 14:43 | 04/07/22 17:25 |
| SS10@0-6" | 2204123-10    | Soil   | 04/07/22 14:44 | 04/07/22 17:25 |
| SS11@2'   | 2204123-11    | Soil   | 04/07/22 14:45 | 04/07/22 17:25 |

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

S<sub>2</sub>

2204123-1

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: Fayerberg Release  
Sampler Name: J. Marcus Project Number: N/A

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |      |      |       | Matrix |      |                | Analysis Requested |               |                  |                   |             |             | Special Instruction |                               |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|--------------------|---------------|------------------|-------------------|-------------|-------------|---------------------|-------------------------------|
|    |                    |              |              |                 | HCl          | HNO3 | None | Other | Water  | Soil | Air-Canister # | Other              | BTEXN - 8260B | TPH - (C6 - C36) | 1,2,4 & 1,3,5-TMB | Boron - HWS | pH, EC, SAR |                     | PAH-915                       |
| 1  | SS01 @ 0-6"        | 4/7/22       | 1435         | 3               |              |      | X    |       |        | X    |                |                    | X             | X                | X                 | X           | X           | X                   | pH, EC, SAR by saturate paste |
| 2  | SS02 @ 0-6"        |              | 1436         | 3               |              |      | X    |       |        | X    |                |                    | X             | X                | X                 | X           | X           | X                   |                               |
| 3  | SS03 @ 0-6"        |              | 1437         | 3               |              |      | X    |       |        | X    |                |                    | X             | X                | X                 | X           | X           | X                   |                               |
| 4  | SS04 @ 0-6"        |              | 1438         | 3               |              |      | X    |       |        | X    |                |                    | X             | X                | X                 | X           | X           | X                   |                               |
| 5  | SS05 @ 0-6"        |              | 1439         | 3               |              |      | X    |       |        | X    |                |                    | X             | X                | X                 | X           | X           | X                   |                               |
| 6  | SS06 @ 0-6"        |              | 1440         | 3               |              |      | X    |       |        | X    |                |                    | X             | X                | X                 | X           | X           | X                   |                               |
| 7  | SS07 @ 0-6"        |              | 1441         | 3               |              |      | X    |       |        | X    |                |                    | X             | X                | X                 | X           | X           | X                   |                               |
| 8  | SS08 @ 0-6"        |              | 1442         | 3               |              |      | X    |       |        | X    |                |                    | X             | X                | X                 | X           | X           | X                   |                               |
| 9  | SS09 @ 0-6"        |              | 1443         | 3               |              |      | X    |       |        | X    |                |                    | X             | X                | X                 | X           | X           | X                   |                               |
| 10 | SS10 @ 0-6"        |              | 1444         | 3               |              |      | X    |       |        | X    |                |                    | X             | X                | X                 | X           | X           | X                   |                               |

|   |                        |                                |                        |  |               |
|---|------------------------|--------------------------------|------------------------|--|---------------|
| Relinquished by:  | Date/Time: 4/7/22 1700 | Received by: Tasman's Lock Box | Date/Time: 4/7/22 1700 | <b>Turn Around Time (Check)</b><br>Same Day <input checked="" type="checkbox"/> 72 hours<br>24 hours <input type="checkbox"/> Standard<br>48 hours <input type="checkbox"/><br><b>Sample Integrity:</b><br>Temperature Upon Receipt: _____<br>Samples Intact: Yes No | <b>Notes:</b> |
| Relinquished by: Tasman's Lock Box  | Date/Time:             | Received by:                   | Date/Time:             |  |               |
| Relinquished by:  | Date/Time:             | Received by:                   | Date/Time:             |  |               |

# Summit Scientific

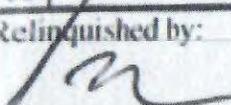
S<sub>2</sub>

2204123.2

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: Fagerberg Release |
| Sampler Name: J. Marcus               | Project Number: n/a             |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |      |      |       | Matrix |      |                | Analysis Requested |               |                  |                   |             | Special Instruction |                                 |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|--------------------|---------------|------------------|-------------------|-------------|---------------------|---------------------------------|
|    |                    |              |              |                 | HCl          | HNO3 | None | Other | Water  | Soil | Air-Canister # | Other              | BTEXN - 8260B | TPH - (C6 - C36) | 1,2,4 & 1,3,5-TMB | Boron - HWS |                     | pH, EC, SAR                     |
| 1  | SS11Q2'            | 4/7/22       | 1445         | 3               |              |      | X    |       |        | X    |                |                    | X             | X                | X                 |             |                     | pH, EC, SAR by saturat<br>paste |
| 2  |                    |              |              |                 |              |      |      |       |        |      |                |                    |               |                  |                   |             |                     |                                 |
| 3  |                    |              |              |                 |              |      |      |       |        |      |                |                    |               |                  |                   |             |                     |                                 |
| 4  |                    |              |              |                 |              |      |      |       |        |      |                |                    |               |                  |                   |             |                     |                                 |
| 5  |                    |              |              |                 |              |      |      |       |        |      |                |                    |               |                  |                   |             |                     |                                 |
| 6  |                    |              |              |                 |              |      |      |       |        |      |                |                    |               |                  |                   |             |                     |                                 |
| 7  |                    |              |              |                 |              |      |      |       |        |      |                |                    |               |                  |                   |             |                     |                                 |
| 8  |                    |              |              |                 |              |      |      |       |        |      |                |                    |               |                  |                   |             |                     |                                 |
| 9  |                    |              |              |                 |              |      |      |       |        |      |                |                    |               |                  |                   |             |                     |                                 |
| 10 |                    |              |              |                 |              |      |      |       |        |      |                |                    |               |                  |                   |             |                     |                                 |

|   |                        |                                |                        |   |        |
|---|------------------------|--------------------------------|------------------------|---|--------|
| Relinquished by:  | Date/Time: 4/7/22 1700 | Received by: Tasman's Lock Box | Date/Time: 4/7/22 1700 | Turn Around Time (Check)                              | Notes: |
| Relinquished by: Tasman's Lock Box  | Date/Time:             | Received by:                   | Date/Time:             | Same Day <input checked="" type="checkbox"/> 72 hours |        |
| Relinquished by:  | Date/Time:             | Received by:                   | Date/Time:             | 24 hours <input type="checkbox"/> Standard            |        |
| Relinquished by:  | Date/Time:             | Received by:                   | Date/Time:             | 48 hours <input type="checkbox"/>                     |        |
|   |                        |                                |                        | Sample integrity:                                     |        |
|   |                        |                                |                        | Temperature Upon Receipt:                             |        |
|   |                        |                                |                        | Samples Intact: Yes No                                |        |

**Sample Receipt Checklist**

S2 Work Order 2204123

Client: PDC/Tasman Client Project ID: Fayerberg Release

Shipped Via:  H.D.  P.U.  FedEx  UPS  USPS  Other \_\_\_\_\_ Airbill #: \_\_\_\_\_

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

|           |     |
|-----------|-----|
| Temp (°C) | 3.7 |
|-----------|-----|

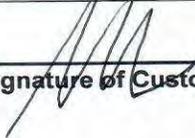
Thermometer ID: 61857155-K

|   | Yes | No | N/A | Comments (if any) |
|---|-----|----|-----|-------------------|
| If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ?<br>NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun. | ✓   |    |     |                   |
| Were all samples received intact <sup>(1)</sup> ?   | ✓   |    |     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | ✓   |    |     |                   |
| If custody seals are present, are they intact <sup>(1)</sup> ?  |     |    | ✓   |                   |
| 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 <sup>(1)</sup> ?   |     | ✓  |     | COC came next day |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | ✓   |    |     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | ✓   |    |     |                   |
| Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?   |     | ✓  |     |                   |
| For volatiles in water – is there headspace present? If yes, contact client and note in narrative.  |     |    | ✓   |                   |
| Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?<br>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 <sup>(1)</sup> ?<br>Record the pH in Comments.  |     |    | ✓   |                   |
| If dissolved metals are requested, were samples field filtered?   |     |    | ✓   |                   |

Additional Comments (if any):

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

PS  
Custodian Printed Name or Initials

  
Signature of Custodian

4/7/22 1725  
Date/Time



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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS01@0-6"**  
**2204123-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/07/22 14:35**

| Analyte                     | Result | Reporting |       | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     | Units |          |         |          |          |           |       |
| Benzene                     | 1.0    | 0.020     | mg/kg | 10       | BFD0149 | 04/07/22 | 04/08/22 | EPA 8260B |       |
| Toluene                     | 17     | 0.050     | "     | "        | "       | "        | 04/08/22 | "         |       |
| Ethylbenzene                | 8.1    | 0.050     | "     | "        | "       | "        | 04/08/22 | "         |       |
| Xylenes (total)             | 17     | 0.10      | "     | "        | "       | "        | "        | "         |       |
| 1,2,4-Trimethylbenzene      | 1.3    | 0.0050    | "     | 1        | "       | "        | 04/08/22 | "         |       |
| 1,3,5-Trimethylbenzene      | 3.4    | 0.0050    | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | 4.2    | 0.038     | "     | 10       | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | 2800   | 50        | "     | 100      | "       | "        | 04/08/22 | "         |       |

Date Sampled: **04/07/22 14:35**

| Analyte                          | Result | Reporting |        | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     | Units  |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0227 | 56.8 %    | 50-150 | "        | "     | "        | 04/08/22 | "      |       |
| Surrogate: Toluene-d8            | 0.0716 | 179 %     | 50-150 | "        | "     | "        | "        | "      | S-02  |
| Surrogate: 4-Bromofluorobenzene  | 0.684  | 1710 %    | 50-150 | "        | "     | "        | "        | "      | S-02  |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/07/22 14:35**

| Analyte       | Result | Reporting |       | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     | Units |          |         |          |          |           |       |
| C10-C28 (DRO) | 3800   | 50        | mg/kg | 1        | BFD0150 | 04/07/22 | 04/08/22 | EPA 8015M |       |
| C28-C36 (ORO) | 200    | 50        | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:35**

| Analyte                | Result | Reporting |        | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     | Units  |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 16.3   | 130 %     | 30-150 | "        | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS01@0-6''**  
**2204123-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/07/22 14:35**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | 0.143  | 0.00500         | mg/kg | 1        | BFD0151 | 04/08/22 | 04/09/22 | EPA 8270D SIM |       |
| Chrysene             | 0.153  | 0.0500          | "     | 10       | "       | "        | "        | "             |       |
| Fluoranthene         | 0.0304 | 0.00500         | "     | 1        | "       | "        | "        | "             |       |
| Pyrene               | 0.0860 | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | 5.34   | 0.500           | "     | 100      | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | 9.65   | 0.500           | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/07/22 14:35**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0334 | 100 %           | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0292 | 87.6 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/07/22 14:35**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | 2.28   | 0.0100          | mg/L  | 1        | BFD0185 | 04/11/22 | 04/14/22 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **04/07/22 14:35**

| Analyte  | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 2.44   | 0.225           | mg/kg dry | 1        | BFD0178 | 04/13/22 | 04/14/22 | EPA 6020B |       |
| Barium   | 63.3   | 0.450           | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | 0.368  | 0.225           | "         | "        | "       | "        | "        | "         |       |
| Copper   | 5.95   | 0.450           | "         | "        | "       | "        | "        | "         |       |
| Lead     | 3.50   | 0.225           | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 4.76   | 0.450           | "         | "        | "       | "        | "        | "         |       |
| Selenium | 0.426  | 0.292           | "         | "        | "       | "        | "        | "         |       |
| Silver   | ND     | 0.0225          | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 20.4   | 0.450           | "         | "        | "       | "        | "        | "         |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS01@0-6''**  
**2204123-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/07/22 14:35**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BFD0249 | 04/13/22 | 04/13/22 | EPA 7196A |       |

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

Date Sampled: **04/07/22 14:35**

| Analyte   | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | <b>12.1</b> | 0.0562          | mg/L dry | 1        | BFD0261 | 04/13/22 | 04/17/22 | EPA 6020B |       |
| Magnesium | <b>6.61</b> | 0.0562          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | <b>20.1</b> | 0.0562          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **04/07/22 14:35**

| Analyte                 | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | <b>1.15</b> | 0.00100         | units | 1        | BFD0331 | 04/17/22 | 04/17/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/07/22 14:35**

| Analyte  | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | <b>88.9</b> |                 | %     | 1        | BFD0195 | 04/11/22 | 04/11/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/07/22 14:35**

| Analyte                   | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | <b>4.58</b> | 0.0100          | mmhos/cm | 1        | BFD0291 | 04/14/22 | 04/14/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**SS01@0-6''**  
**2204123-01 (Soil)**

**Summit Scientific**

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

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

Date Sampled: **04/07/22 14:35**

| Analyte   | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>pH</b> | <b>7.88</b> |                 | pH Units | 1        | BFD0290 | 04/14/22 | 04/14/22 | EPA 9045D |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS02@0-6''**  
**2204123-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/07/22 14:36**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BFD0149 | 04/07/22 | 04/08/22 | 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: **04/07/22 14:36**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0569 | 142 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0419 | 105 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0437 | 109 %     |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/07/22 14:36**

| Analyte              | Result     | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                      |            | Limit     |  |       |          |         |          |          |           |       |
| <b>C10-C28 (DRO)</b> | <b>120</b> | 50        |  | mg/kg | 1        | BFD0150 | 04/07/22 | 04/08/22 | EPA 8015M |       |
| C28-C36 (ORO)        | ND         | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:36**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 12.7   | 102 %     |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS02@0-6''**  
**2204123-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/07/22 14:36**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0400 | 04/20/22 | 04/21/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/07/22 14:36**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0201 | 60.2 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0224 | 67.2 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/07/22 14:36**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.396</b> | 0.0100          | mg/L  | 1        | BFD0553 | 04/26/22 | 04/27/22 | EPA 6020B |       |

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

Date Sampled: **04/07/22 14:36**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>8.47</b> | 0.0538          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>1.67</b> | 0.0538          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>3.01</b> | 0.0538          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**SS02@0-6''**  
**2204123-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/07/22 14:36**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.247  | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/07/22 14:36**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 92.9   |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/07/22 14:36**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 2.49   | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS03@0-6''**  
**2204123-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/07/22 14:37**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BFD0149 | 04/07/22 | 04/08/22 | 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: **04/07/22 14:37**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0555 | 139 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0412 | 103 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0426 | 106 %     |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/07/22 14:37**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BFD0150 | 04/07/22 | 04/08/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:37**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 12.9   | 103 %     |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS03@0-6''**  
**2204123-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/07/22 14:37**

| Analyte              | Result         | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|----------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND             | 0.00500         | mg/kg | 1        | BFD0400 | 04/20/22 | 04/21/22 | EPA 8270D SIM |       |
| Chrysene             | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>Fluoranthene</b>  | <b>0.00520</b> | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/07/22 14:37**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0203 | 60.8 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0231 | 69.2 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/07/22 14:37**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.877</b> | 0.0100          | mg/L  | 1        | BFD0553 | 04/26/22 | 04/27/22 | EPA 6020B |       |

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

Date Sampled: **04/07/22 14:37**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>10.9</b> | 0.0529          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>1.75</b> | 0.0529          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>7.05</b> | 0.0529          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

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: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**SS03@0-6''**  
**2204123-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/07/22 14:37**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.523  | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/07/22 14:37**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 94.5   |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/07/22 14:37**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 3.85   | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS04@0-6''**  
**2204123-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/07/22 14:38**

| Analyte                            | Result      | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------------------|-------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                                    |             | Limit     |  |       |          |         |          |          |           |       |
| Benzene                            | ND          | 0.0020    |  | mg/kg | 1        | BFD0149 | 04/07/22 | 04/08/22 | 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    |  | "     | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Hydrocarbons</b> | <b>0.68</b> | 0.50      |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:38**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0391 | 97.8 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0410 | 102 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0421 | 105 %     |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/07/22 14:38**

| Analyte              | Result    | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|-----------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                      |           | Limit     |  |       |          |         |          |          |           |       |
| <b>C10-C28 (DRO)</b> | <b>87</b> | 50        |  | mg/kg | 1        | BFD0150 | 04/07/22 | 04/08/22 | EPA 8015M |       |
| C28-C36 (ORO)        | ND        | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:38**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 13.1   | 105 %     |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS04@0-6''**  
**2204123-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/07/22 14:38**

| Analyte                    | Result         | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------------|----------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene       | ND             | 0.00500         | mg/kg | 1        | BFD0400 | 04/20/22 | 04/21/22 | EPA 8270D SIM |       |
| <b>Chrysene</b>            | <b>0.00698</b> | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene               | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                     | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>1-Methylnaphthalene</b> | <b>0.0283</b>  | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>2-Methylnaphthalene</b> | <b>0.0391</b>  | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/07/22 14:38**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0198 | 59.4 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0224 | 67.3 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/07/22 14:38**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.635</b> | 0.0100          | mg/L  | 1        | BFD0553 | 04/26/22 | 04/27/22 | EPA 6020B |       |

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

Date Sampled: **04/07/22 14:38**

| Analyte          | Result       | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>3.50</b>  | 0.0508          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>0.637</b> | 0.0508          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>3.82</b>  | 0.0508          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**SS04@0-6''**  
**2204123-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/07/22 14:38**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.493  | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/07/22 14:38**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 98.4   |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/07/22 14:38**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.70   | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS05@0-6''**  
**2204123-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/07/22 14:39**

| Analyte                            | Result     | Reporting   |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------------------|------------|-------------|--|-------|----------|---------|----------|----------|-----------|-------|
|                                    |            | Limit       |  |       |          |         |          |          |           |       |
| Benzene                            | ND         | 0.0020      |  | mg/kg | 1        | BFD0149 | 04/07/22 | 04/08/22 | 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      |  | "     | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Hydrocarbons</b> | <b>1.0</b> | <b>0.50</b> |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:39**

| Analyte                                 | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|   |        | Limit     |  |        |          |       |          |          |        |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0400 | 100 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>            | 0.0415 | 104 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0438 | 110 %     |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/07/22 14:39**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BFD0150 | 04/07/22 | 04/08/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:39**

| Analyte                       | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                               |        | Limit     |  |        |          |       |          |          |        |       |
| <i>Surrogate: o-Terphenyl</i> | 13.1   | 105 %     |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS05@0-6''**  
**2204123-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/07/22 14:39**

| Analyte                    | Result        | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------------|---------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene       | ND            | 0.00500         | mg/kg | 1        | BFD0400 | 04/20/22 | 04/21/22 | EPA 8270D SIM |       |
| Chrysene                   | ND            | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene               | ND            | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                     | ND            | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene        | ND            | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>2-Methylnaphthalene</b> | <b>0.0103</b> | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/07/22 14:39**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0224 | 67.1 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0241 | 72.3 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/07/22 14:39**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.532</b> | 0.0100          | mg/L  | 1        | BFD0553 | 04/26/22 | 04/27/22 | EPA 6020B |       |

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

Date Sampled: **04/07/22 14:39**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>7.58</b> | 0.0524          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>1.37</b> | 0.0524          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1.20</b> | 0.0524          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**SS05@0-6''**  
**2204123-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/07/22 14:39**

| Analyte                 | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | <b>0.105</b> | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/07/22 14:39**

| Analyte  | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | <b>95.3</b> |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/07/22 14:39**

| Analyte                   | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | <b>1.16</b> | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS06@0-6''**  
**2204123-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/07/22 14:40**

| Analyte                            | Result     | Reporting   |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------------------|------------|-------------|--|-------|----------|---------|----------|----------|-----------|-------|
|                                    |            | Limit       |  |       |          |         |          |          |           |       |
| Benzene                            | ND         | 0.0020      |  | mg/kg | 1        | BFD0149 | 04/07/22 | 04/08/22 | 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      |  | "     | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Hydrocarbons</b> | <b>1.0</b> | <b>0.50</b> |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:40**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0407 | 102 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0418 | 104 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0434 | 108 %     |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/07/22 14:40**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BFD0150 | 04/07/22 | 04/08/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:40**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 12.9   | 103 %     |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS06@0-6''**  
**2204123-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/07/22 14:40**

| Analyte                    | Result         | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------------|----------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene       | ND             | 0.00500         | mg/kg | 1        | BFD0400 | 04/20/22 | 04/21/22 | EPA 8270D SIM |       |
| Chrysene                   | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene               | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                     | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene        | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>2-Methylnaphthalene</b> | <b>0.00667</b> | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/07/22 14:40**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0173 | 51.8 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0200 | 60.1 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/07/22 14:40**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.368</b> | 0.0100          | mg/L  | 1        | BFD0553 | 04/26/22 | 04/27/22 | EPA 6020B |       |

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

Date Sampled: **04/07/22 14:40**

| Analyte          | Result       | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>2.18</b>  | 0.0508          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>0.474</b> | 0.0508          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>0.488</b> | 0.0508          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

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: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**SS06@0-6''**  
**2204123-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/07/22 14:40**

| Analyte                 | Result        | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|---------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | <b>0.0781</b> | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/07/22 14:40**

| Analyte  | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | <b>98.3</b> |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/07/22 14:40**

| Analyte                   | Result       | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | <b>0.154</b> | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS07@0-6''**  
**2204123-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/07/22 14:41**

| Analyte                            | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------------------|-------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                            | ND          | 0.0020          | mg/kg | 1        | BFD0149 | 04/07/22 | 04/08/22 | 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          | "     | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Hydrocarbons</b> | <b>0.80</b> | 0.50            | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:41**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0407 | 102 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0415 | 104 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0434 | 109 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/07/22 14:41**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0150 | 04/07/22 | 04/08/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:41**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 12.8   | 103 %           | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS07@0-6''**  
**2204123-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/07/22 14:41**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0400 | 04/20/22 | 04/21/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/07/22 14:41**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0194 | 58.2 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0208 | 62.3 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/07/22 14:41**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.561</b> | 0.0100          | mg/L  | 1        | BFD0553 | 04/26/22 | 04/27/22 | EPA 6020B |       |

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

Date Sampled: **04/07/22 14:41**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>14.4</b> | 0.0520          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>3.00</b> | 0.0520          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>2.94</b> | 0.0520          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**SS07@0-6''**  
**2204123-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/07/22 14:41**

| Analyte                 | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | <b>0.184</b> | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/07/22 14:41**

| Analyte  | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | <b>96.2</b> |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/07/22 14:41**

| Analyte                   | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | <b>4.51</b> | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS08@0-6''**  
**2204123-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/07/22 14:42**

| Analyte                            | Result      | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------------------|-------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                                    |             | Limit     |  |       |          |         |          |          |           |       |
| Benzene                            | ND          | 0.0020    |  | mg/kg | 1        | BFD0149 | 04/07/22 | 04/08/22 | 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    |  | "     | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Hydrocarbons</b> | <b>0.69</b> | 0.50      |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:42**

| Analyte                                 | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|   |        | Limit     |  |        |          |       |          |          |        |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0394 | 98.6 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>            | 0.0411 | 103 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0430 | 108 %     |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/07/22 14:42**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BFD0150 | 04/07/22 | 04/08/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:42**

| Analyte                       | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                               |        | Limit     |  |        |          |       |          |          |        |       |
| <i>Surrogate: o-Terphenyl</i> | 13.0   | 104 %     |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS08@0-6''**  
**2204123-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/07/22 14:42**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0400 | 04/20/22 | 04/21/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/07/22 14:42**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0183 | 54.8 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0218 | 65.3 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/07/22 14:42**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.391</b> | 0.0100          | mg/L  | 1        | BFD0553 | 04/26/22 | 04/27/22 | EPA 6020B |       |

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

Date Sampled: **04/07/22 14:42**

| Analyte          | Result       | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>2.81</b>  | 0.0512          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>0.566</b> | 0.0512          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>0.438</b> | 0.0512          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**SS08@0-6''**  
**2204123-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/07/22 14:42**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0623 | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/07/22 14:42**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 97.6   |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/07/22 14:42**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.276  | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS09@0-6''**  
**2204123-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/07/22 14:43**

| Analyte                            | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------------------|-------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                            | ND          | 0.0020          | mg/kg | 1        | BFD0149 | 04/07/22 | 04/08/22 | 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          | "     | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Hydrocarbons</b> | <b>0.64</b> | <b>0.50</b>     | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:43**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0391 | 97.8 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0411 | 103 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0436 | 109 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/07/22 14:43**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0150 | 04/07/22 | 04/08/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:43**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 12.6   | 101 %           | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS09@0-6''**  
**2204123-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/07/22 14:43**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0400 | 04/20/22 | 04/21/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/07/22 14:43**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0178 | 53.5 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0207 | 62.1 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/07/22 14:43**

| Analyte      | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|-------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>1.35</b> | 0.0100          | mg/L  | 1        | BFD0553 | 04/26/22 | 04/27/22 | EPA 6020B |       |

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

Date Sampled: **04/07/22 14:43**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>3.18</b> | 0.0516          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>1.13</b> | 0.0516          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>6.47</b> | 0.0516          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**SS09@0-6''**  
**2204123-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/07/22 14:43**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.793  | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/07/22 14:43**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 96.9   |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/07/22 14:43**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 2.26   | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS10@0-6''**  
**2204123-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/07/22 14:44**

| Analyte                            | Result      | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------------------|-------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                                    |             | Limit     |  |       |          |         |          |          |           |       |
| Benzene                            | ND          | 0.0020    |  | mg/kg | 1        | BFD0149 | 04/07/22 | 04/08/22 | 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    |  | "     | "        | "       | "        | "        | "         |       |
| <b>Gasoline Range Hydrocarbons</b> | <b>0.62</b> | 0.50      |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:44**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0401 | 100 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0408 | 102 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0429 | 107 %     |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/07/22 14:44**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BFD0150 | 04/07/22 | 04/08/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:44**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 11.9   | 95.2 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS10@0-6''**  
**2204123-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/07/22 14:44**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0400 | 04/20/22 | 04/21/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/07/22 14:44**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0193 | 57.8 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0218 | 65.4 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/07/22 14:44**

| Analyte      | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|-------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>1.50</b> | 0.0100          | mg/L  | 1        | BFD0553 | 04/26/22 | 04/27/22 | EPA 6020B |       |

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

Date Sampled: **04/07/22 14:44**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>12.0</b> | 0.0530          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>1.93</b> | 0.0530          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>14.6</b> | 0.0530          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**SS10@0-6''**  
**2204123-10 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/07/22 14:44**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 1.03   | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/07/22 14:44**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 94.3   |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/07/22 14:44**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 3.47   | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS11@2'**  
**2204123-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/07/22 14:45**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | 0.033  | 0.0020    |  | mg/kg | 1        | BFD0149 | 04/07/22 | 04/08/22 | EPA 8260B |       |
| Toluene                     | 1.8    | 0.050     |  | "     | 10       | "       | "        | "        | "         |       |
| Ethylbenzene                | 0.94   | 0.050     |  | "     | "        | "       | "        | "        | "         |       |
| Xylenes (total)             | 7.7    | 0.10      |  | "     | "        | "       | "        | 04/08/22 | "         |       |
| 1,2,4-Trimethylbenzene      | 5.0    | 0.050     |  | "     | "        | "       | "        | 04/08/22 | "         |       |
| 1,3,5-Trimethylbenzene      | 1.7    | 0.050     |  | "     | "        | "       | "        | "        | "         |       |
| Naphthalene                 | 0.89   | 0.038     |  | "     | "        | "       | "        | "        | "         |       |
| Gasoline Range Hydrocarbons | 48     | 5.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:45**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0557 | 139 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0415 | 104 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0748 | 187 %     |  | 50-150 |          | "     | "        | "        | "      | S-02  |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/07/22 14:45**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | 510    | 50        |  | mg/kg | 1        | BFD0150 | 04/07/22 | 04/08/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/07/22 14:45**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 12.1   | 96.8 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**SS11@2'**  
**2204123-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/07/22 14:45**

| Analyte                    | Result         | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------------|----------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene       | ND             | 0.00500         | mg/kg | 1        | BFD0400 | 04/20/22 | 04/21/22 | EPA 8270D SIM |       |
| <b>Chrysene</b>            | <b>0.0211</b>  | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>Fluoranthene</b>        | <b>0.00774</b> | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene                     | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>1-Methylnaphthalene</b> | <b>0.263</b>   | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| <b>2-Methylnaphthalene</b> | <b>0.0714</b>  | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/07/22 14:45**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0186 | 55.7 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0232 | 69.7 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/07/22 14:45**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.422</b> | 0.0100          | mg/L  | 1        | BFD0553 | 04/26/22 | 04/27/22 | EPA 6020B |       |

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

Date Sampled: **04/07/22 14:45**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>21.9</b> | 0.0600          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>3.55</b> | 0.0600          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>6.72</b> | 0.0600          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**SS11@2'**  
**2204123-11 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/07/22 14:45**

| Analyte                 | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | <b>0.351</b> | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/07/22 14:45**

| Analyte  | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | <b>83.4</b> |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/07/22 14:45**

| Analyte                   | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | <b>1.40</b> | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

### 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 BFD0149 - EPA 5030 Soil MS

##### Blank (BFD0149-BLK1)

Prepared & Analyzed: 04/07/22

|   |        |        |       |        |  |      |        |  |  |  |  |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| 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> | 0.0386 |        | "     | 0.0400 |  | 96.4 | 50-150 |  |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0413 |        | "     | 0.0400 |  | 103  | 50-150 |  |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0426 |        | "     | 0.0400 |  | 106  | 50-150 |  |  |  |  |

##### LCS (BFD0149-BS1)

Prepared & Analyzed: 04/07/22

|   |        |        |       |        |  |      |        |  |  |  |  |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|--|
| Benzene                                 | 0.112  | 0.0020 | mg/kg | 0.100  |  | 112  | 70-130 |  |  |  |  |
| Toluene                                 | 0.112  | 0.0050 | "     | 0.100  |  | 112  | 70-130 |  |  |  |  |
| Ethylbenzene                            | 0.100  | 0.0050 | "     | 0.100  |  | 100  | 70-130 |  |  |  |  |
| m,p-Xylene                              | 0.194  | 0.010  | "     | 0.200  |  | 97.0 | 70-130 |  |  |  |  |
| o-Xylene                                | 0.0971 | 0.0050 | "     | 0.100  |  | 97.1 | 70-130 |  |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.102  | 0.0050 | "     | 0.100  |  | 102  | 70-130 |  |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.0987 | 0.0050 | "     | 0.100  |  | 98.7 | 70-130 |  |  |  |  |
| Naphthalene                             | 0.0893 | 0.0038 | "     | 0.100  |  | 89.3 | 70-130 |  |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0379 |        | "     | 0.0400 |  | 94.6 | 50-150 |  |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0419 |        | "     | 0.0400 |  | 105  | 50-150 |  |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0418 |        | "     | 0.0400 |  | 105  | 50-150 |  |  |  |  |

##### Matrix Spike (BFD0149-MS1)

Source: 2204108-01

Prepared & Analyzed: 04/07/22

|   |        |        |       |        |    |      |        |  |  |  |  |
|---|--------|--------|-------|--------|----|------|--------|--|--|--|--|
| Benzene                                 | 0.106  | 0.0020 | mg/kg | 0.100  | ND | 106  | 70-130 |  |  |  |  |
| Toluene                                 | 0.105  | 0.0050 | "     | 0.100  | ND | 105  | 70-130 |  |  |  |  |
| Ethylbenzene                            | 0.0963 | 0.0050 | "     | 0.100  | ND | 96.3 | 70-130 |  |  |  |  |
| m,p-Xylene                              | 0.188  | 0.010  | "     | 0.200  | ND | 94.0 | 70-130 |  |  |  |  |
| o-Xylene                                | 0.0930 | 0.0050 | "     | 0.100  | ND | 93.0 | 70-130 |  |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.0950 | 0.0050 | "     | 0.100  | ND | 95.0 | 70-130 |  |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.0928 | 0.0050 | "     | 0.100  | ND | 92.8 | 70-130 |  |  |  |  |
| Naphthalene                             | 0.0768 | 0.0038 | "     | 0.100  | ND | 76.8 | 70-130 |  |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0369 |        | "     | 0.0400 |    | 92.2 | 50-150 |  |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0410 |        | "     | 0.0400 |    | 102  | 50-150 |  |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0416 |        | "     | 0.0400 |    | 104  | 50-150 |  |  |  |  |

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

Project: Fagerberg Release

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**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 BFD0149 - EPA 5030 Soil MS**

| Matrix Spike Dup (BFD0149-MSD1)  | Source: 2204108-01 |        |       | Prepared: 04/07/22 Analyzed: 04/08/22 |    |      |        |       |    |  |
|----------------------------------|--------------------|--------|-------|---------------------------------------|----|------|--------|-------|----|--|
| Benzene                          | 0.108              | 0.0020 | mg/kg | 0.100                                 | ND | 108  | 70-130 | 2.00  | 30 |  |
| Toluene                          | 0.109              | 0.0050 | "     | 0.100                                 | ND | 109  | 70-130 | 2.94  | 30 |  |
| Ethylbenzene                     | 0.0977             | 0.0050 | "     | 0.100                                 | ND | 97.7 | 70-130 | 1.52  | 30 |  |
| m,p-Xylene                       | 0.187              | 0.010  | "     | 0.200                                 | ND | 93.5 | 70-130 | 0.592 | 30 |  |
| o-Xylene                         | 0.0935             | 0.0050 | "     | 0.100                                 | ND | 93.5 | 70-130 | 0.515 | 30 |  |
| 1,2,4-Trimethylbenzene           | 0.0952             | 0.0050 | "     | 0.100                                 | ND | 95.2 | 70-130 | 0.252 | 30 |  |
| 1,3,5-Trimethylbenzene           | 0.0932             | 0.0050 | "     | 0.100                                 | ND | 93.2 | 70-130 | 0.323 | 30 |  |
| Naphthalene                      | 0.0752             | 0.0038 | "     | 0.100                                 | ND | 75.2 | 70-130 | 2.09  | 30 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0373             |        | "     | 0.0400                                |    | 93.3 | 50-150 |       |    |  |
| Surrogate: Toluene-d8            | 0.0417             |        | "     | 0.0400                                |    | 104  | 50-150 |       |    |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0420             |        | "     | 0.0400                                |    | 105  | 50-150 |       |    |  |

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFD0150 - EPA 3550A**

**Blank (BFD0150-BLK1)**

Prepared & Analyzed: 04/07/22

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

**LCS (BFD0150-BS1)**

Prepared: 04/07/22 Analyzed: 04/08/22

|               |     |    |       |     |      |        |  |  |  |  |
|---------------|-----|----|-------|-----|------|--------|--|--|--|--|
| C10-C28 (DRO) | 470 | 50 | mg/kg | 500 | 94.0 | 70-130 |  |  |  |  |
|---------------|-----|----|-------|-----|------|--------|--|--|--|--|

**Matrix Spike (BFD0150-MS1)**

Source: 2204108-01

Prepared: 04/07/22 Analyzed: 04/08/22

|               |     |    |       |     |      |      |        |  |  |  |
|---------------|-----|----|-------|-----|------|------|--------|--|--|--|
| C10-C28 (DRO) | 459 | 50 | mg/kg | 500 | 9.35 | 90.0 | 70-130 |  |  |  |
|---------------|-----|----|-------|-----|------|------|--------|--|--|--|

**Matrix Spike Dup (BFD0150-MSD1)**

Source: 2204108-01

Prepared: 04/07/22 Analyzed: 04/08/22

|               |     |    |       |     |      |      |        |      |    |  |
|---------------|-----|----|-------|-----|------|------|--------|------|----|--|
| C10-C28 (DRO) | 503 | 50 | mg/kg | 500 | 9.35 | 98.6 | 70-130 | 8.96 | 20 |  |
|---------------|-----|----|-------|-----|------|------|--------|------|----|--|

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFD0151 - EPA 5030 Soil MS**

**Blank (BFD0151-BLK1)**

Prepared & Analyzed: 04/08/22

|   |               |         |       |               |  |             |               |  |  |  |
|---|---------------|---------|-------|---------------|--|-------------|---------------|--|--|--|
| Acenaphthene                              | ND            | 0.00500 | mg/kg |               |  |             |               |  |  |  |
| Anthracene                                | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Benzo (a) anthracene                      | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Benzo (a) pyrene                          | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Benzo (b) fluoranthene                    | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Benzo (k) fluoranthene                    | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Chrysene                                  | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Dibenz (a,h) anthracene                   | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Fluoranthene                              | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Fluorene                                  | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Pyrene                                    | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| 1-Methylnaphthalene                       | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| 2-Methylnaphthalene                       | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0182</i> |         | "     | <i>0.0333</i> |  | <i>54.7</i> | <i>40-150</i> |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0177</i> |         | "     | <i>0.0333</i> |  | <i>53.2</i> | <i>40-150</i> |  |  |  |

**LCS (BFD0151-BS1)**

Prepared & Analyzed: 04/08/22

|   |               |         |       |               |  |             |               |  |  |  |
|---|---------------|---------|-------|---------------|--|-------------|---------------|--|--|--|
| Acenaphthene                              | 0.0213        | 0.00500 | mg/kg | 0.0333        |  | 63.9        | 31-137        |  |  |  |
| Anthracene                                | 0.0231        | 0.00500 | "     | 0.0333        |  | 69.2        | 30-120        |  |  |  |
| Benzo (a) anthracene                      | 0.0230        | 0.00500 | "     | 0.0333        |  | 69.0        | 30-120        |  |  |  |
| Benzo (a) pyrene                          | 0.0214        | 0.00500 | "     | 0.0333        |  | 64.1        | 30-120        |  |  |  |
| Benzo (b) fluoranthene                    | 0.0129        | 0.00500 | "     | 0.0333        |  | 38.8        | 30-120        |  |  |  |
| Benzo (k) fluoranthene                    | 0.0264        | 0.00500 | "     | 0.0333        |  | 79.1        | 30-120        |  |  |  |
| Chrysene                                  | 0.0269        | 0.00500 | "     | 0.0333        |  | 80.8        | 30-120        |  |  |  |
| Dibenz (a,h) anthracene                   | 0.0232        | 0.00500 | "     | 0.0333        |  | 69.7        | 30-120        |  |  |  |
| Fluoranthene                              | 0.0224        | 0.00500 | "     | 0.0333        |  | 67.2        | 30-120        |  |  |  |
| Fluorene                                  | 0.0260        | 0.00500 | "     | 0.0333        |  | 77.9        | 30-120        |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0241        | 0.00500 | "     | 0.0333        |  | 72.4        | 30-120        |  |  |  |
| Pyrene                                    | 0.0338        | 0.00500 | "     | 0.0333        |  | 101         | 35-142        |  |  |  |
| 1-Methylnaphthalene                       | 0.0197        | 0.00500 | "     | 0.0333        |  | 59.0        | 35-142        |  |  |  |
| 2-Methylnaphthalene                       | 0.0179        | 0.00500 | "     | 0.0333        |  | 53.8        | 35-142        |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0191</i> |         | "     | <i>0.0333</i> |  | <i>57.4</i> | <i>40-150</i> |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0220</i> |         | "     | <i>0.0333</i> |  | <i>66.0</i> | <i>40-150</i> |  |  |  |

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFD0151 - EPA 5030 Soil MS**

**Matrix Spike (BFD0151-MS1)**

Source: 2204104-01

Prepared & Analyzed: 04/08/22

|                                    |        |         |       |        |    |      |        |  |  |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|
| Acenaphthene                       | 0.0263 | 0.00500 | mg/kg | 0.0333 | ND | 78.9 | 31-137 |  |  |
| Anthracene                         | 0.0221 | 0.00500 | "     | 0.0333 | ND | 66.3 | 30-120 |  |  |
| Benzo (a) anthracene               | 0.0227 | 0.00500 | "     | 0.0333 | ND | 68.0 | 30-120 |  |  |
| Benzo (a) pyrene                   | 0.0215 | 0.00500 | "     | 0.0333 | ND | 64.5 | 30-120 |  |  |
| Benzo (b) fluoranthene             | 0.0202 | 0.00500 | "     | 0.0333 | ND | 60.6 | 30-120 |  |  |
| Benzo (k) fluoranthene             | 0.0236 | 0.00500 | "     | 0.0333 | ND | 70.9 | 30-120 |  |  |
| Chrysene                           | 0.0282 | 0.00500 | "     | 0.0333 | ND | 84.6 | 30-120 |  |  |
| Dibenz (a,h) anthracene            | 0.0221 | 0.00500 | "     | 0.0333 | ND | 66.3 | 30-120 |  |  |
| Fluoranthene                       | 0.0201 | 0.00500 | "     | 0.0333 | ND | 60.3 | 30-120 |  |  |
| Fluorene                           | 0.0251 | 0.00500 | "     | 0.0333 | ND | 75.4 | 30-120 |  |  |
| Indeno (1,2,3-cd) pyrene           | 0.0249 | 0.00500 | "     | 0.0333 | ND | 74.6 | 30-120 |  |  |
| Pyrene                             | 0.0326 | 0.00500 | "     | 0.0333 | ND | 97.7 | 35-142 |  |  |
| 1-Methylnaphthalene                | 0.0185 | 0.00500 | "     | 0.0333 | ND | 55.6 | 15-130 |  |  |
| 2-Methylnaphthalene                | 0.0160 | 0.00500 | "     | 0.0333 | ND | 48.1 | 15-130 |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0187 |         | "     | 0.0333 |    | 56.1 | 40-150 |  |  |
| Surrogate: Fluoranthene-d10        | 0.0210 |         | "     | 0.0333 |    | 62.9 | 40-150 |  |  |

**Matrix Spike Dup (BFD0151-MSD1)**

Source: 2204104-01

Prepared & Analyzed: 04/08/22

|                                    |        |         |       |        |    |      |        |       |    |
|------------------------------------|--------|---------|-------|--------|----|------|--------|-------|----|
| Acenaphthene                       | 0.0235 | 0.00500 | mg/kg | 0.0333 | ND | 70.5 | 31-137 | 11.2  | 30 |
| Anthracene                         | 0.0223 | 0.00500 | "     | 0.0333 | ND | 66.8 | 30-120 | 0.691 | 30 |
| Benzo (a) anthracene               | 0.0224 | 0.00500 | "     | 0.0333 | ND | 67.2 | 30-120 | 1.19  | 30 |
| Benzo (a) pyrene                   | 0.0213 | 0.00500 | "     | 0.0333 | ND | 63.9 | 30-120 | 0.926 | 30 |
| Benzo (b) fluoranthene             | 0.0207 | 0.00500 | "     | 0.0333 | ND | 62.0 | 30-120 | 2.27  | 30 |
| Benzo (k) fluoranthene             | 0.0275 | 0.00500 | "     | 0.0333 | ND | 82.4 | 30-120 | 15.0  | 30 |
| Chrysene                           | 0.0271 | 0.00500 | "     | 0.0333 | ND | 81.3 | 30-120 | 3.98  | 30 |
| Dibenz (a,h) anthracene            | 0.0226 | 0.00500 | "     | 0.0333 | ND | 67.9 | 30-120 | 2.34  | 30 |
| Fluoranthene                       | 0.0205 | 0.00500 | "     | 0.0333 | ND | 61.5 | 30-120 | 1.91  | 30 |
| Fluorene                           | 0.0246 | 0.00500 | "     | 0.0333 | ND | 73.9 | 30-120 | 1.98  | 30 |
| Indeno (1,2,3-cd) pyrene           | 0.0243 | 0.00500 | "     | 0.0333 | ND | 72.8 | 30-120 | 2.37  | 30 |
| Pyrene                             | 0.0310 | 0.00500 | "     | 0.0333 | ND | 92.9 | 35-142 | 5.06  | 30 |
| 1-Methylnaphthalene                | 0.0192 | 0.00500 | "     | 0.0333 | ND | 57.6 | 15-130 | 3.62  | 50 |
| 2-Methylnaphthalene                | 0.0156 | 0.00500 | "     | 0.0333 | ND | 46.7 | 15-130 | 2.97  | 50 |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0186 |         | "     | 0.0333 |    | 55.7 | 40-150 |       |    |
| Surrogate: Fluoranthene-d10        | 0.0216 |         | "     | 0.0333 |    | 64.8 | 40-150 |       |    |

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFD0400 - EPA 5030 Soil MS**

**Blank (BFD0400-BLK1)**

Prepared: 04/20/22 Analyzed: 04/21/22

|   |               |         |       |               |  |             |               |  |  |  |
|---|---------------|---------|-------|---------------|--|-------------|---------------|--|--|--|
| Acenaphthene                              | ND            | 0.00500 | mg/kg |               |  |             |               |  |  |  |
| Anthracene                                | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Benzo (a) anthracene                      | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Benzo (a) pyrene                          | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Benzo (b) fluoranthene                    | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Benzo (k) fluoranthene                    | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Chrysene                                  | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Dibenz (a,h) anthracene                   | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Fluoranthene                              | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Fluorene                                  | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| Pyrene                                    | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| 1-Methylnaphthalene                       | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| 2-Methylnaphthalene                       | ND            | 0.00500 | "     |               |  |             |               |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0264</i> |         | "     | <i>0.0333</i> |  | <i>79.3</i> | <i>40-150</i> |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0310</i> |         | "     | <i>0.0333</i> |  | <i>92.9</i> | <i>40-150</i> |  |  |  |

**LCS (BFD0400-BS1)**

Prepared: 04/20/22 Analyzed: 04/21/22

|   |               |         |       |               |             |               |
|---|---------------|---------|-------|---------------|-------------|---------------|
| Acenaphthene                              | 0.0299        | 0.00500 | mg/kg | 0.0333        | 89.6        | 31-137        |
| Anthracene                                | 0.0292        | 0.00500 | "     | 0.0333        | 87.5        | 30-120        |
| Benzo (a) anthracene                      | 0.0299        | 0.00500 | "     | 0.0333        | 89.7        | 30-120        |
| Benzo (a) pyrene                          | 0.0285        | 0.00500 | "     | 0.0333        | 85.5        | 30-120        |
| Benzo (b) fluoranthene                    | 0.0309        | 0.00500 | "     | 0.0333        | 92.6        | 30-120        |
| Benzo (k) fluoranthene                    | 0.0331        | 0.00500 | "     | 0.0333        | 99.2        | 30-120        |
| Chrysene                                  | 0.0304        | 0.00500 | "     | 0.0333        | 91.3        | 30-120        |
| Dibenz (a,h) anthracene                   | 0.0174        | 0.00500 | "     | 0.0333        | 52.1        | 30-120        |
| Fluoranthene                              | 0.0307        | 0.00500 | "     | 0.0333        | 92.0        | 30-120        |
| Fluorene                                  | 0.0300        | 0.00500 | "     | 0.0333        | 90.0        | 30-120        |
| Indeno (1,2,3-cd) pyrene                  | 0.0112        | 0.00500 | "     | 0.0333        | 33.7        | 30-120        |
| Pyrene                                    | 0.0316        | 0.00500 | "     | 0.0333        | 94.7        | 35-142        |
| 1-Methylnaphthalene                       | 0.0310        | 0.00500 | "     | 0.0333        | 92.9        | 35-142        |
| 2-Methylnaphthalene                       | 0.0257        | 0.00500 | "     | 0.0333        | 77.2        | 35-142        |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0304</i> |         | "     | <i>0.0333</i> | <i>91.3</i> | <i>40-150</i> |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0324</i> |         | "     | <i>0.0333</i> | <i>97.3</i> | <i>40-150</i> |

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFD0400 - EPA 5030 Soil MS**

| <b>Matrix Spike (BFD0400-MS1)</b>         | <b>Source: 2204123-02</b> |         |          | <b>Prepared: 04/20/22 Analyzed: 04/21/22</b> |    |             |               |  |  |  |  |
|---|---------------------------|---------|----------|--|----|-------------|---------------|--|--|--|--|
| Acenaphthene                              | 0.0151                    | 0.00500 | mg/kg    | 0.0333                                       | ND | 45.3        | 31-137        |  |  |  |  |
| Anthracene                                | 0.0161                    | 0.00500 | "        | 0.0333                                       | ND | 48.4        | 30-120        |  |  |  |  |
| Benzo (a) anthracene                      | 0.0156                    | 0.00500 | "        | 0.0333                                       | ND | 46.9        | 30-120        |  |  |  |  |
| Benzo (a) pyrene                          | 0.0140                    | 0.00500 | "        | 0.0333                                       | ND | 41.9        | 30-120        |  |  |  |  |
| Benzo (b) fluoranthene                    | 0.0150                    | 0.00500 | "        | 0.0333                                       | ND | 44.9        | 30-120        |  |  |  |  |
| Benzo (k) fluoranthene                    | 0.0152                    | 0.00500 | "        | 0.0333                                       | ND | 45.5        | 30-120        |  |  |  |  |
| Chrysene                                  | 0.0150                    | 0.00500 | "        | 0.0333                                       | ND | 45.0        | 30-120        |  |  |  |  |
| Dibenz (a,h) anthracene                   | 0.0184                    | 0.00500 | "        | 0.0333                                       | ND | 55.0        | 30-120        |  |  |  |  |
| Fluoranthene                              | 0.0173                    | 0.00500 | "        | 0.0333                                       | ND | 51.8        | 30-120        |  |  |  |  |
| Fluorene                                  | 0.0157                    | 0.00500 | "        | 0.0333                                       | ND | 47.2        | 30-120        |  |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0191                    | 0.00500 | "        | 0.0333                                       | ND | 57.4        | 30-120        |  |  |  |  |
| Pyrene                                    | 0.0163                    | 0.00500 | "        | 0.0333                                       | ND | 49.0        | 35-142        |  |  |  |  |
| 1-Methylnaphthalene                       | 0.0149                    | 0.00500 | "        | 0.0333                                       | ND | 44.8        | 15-130        |  |  |  |  |
| 2-Methylnaphthalene                       | 0.0133                    | 0.00500 | "        | 0.0333                                       | ND | 40.0        | 15-130        |  |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0143</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>43.0</i> | <i>40-150</i> |  |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0178</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>53.5</i> | <i>40-150</i> |  |  |  |  |

| <b>Matrix Spike Dup (BFD0400-MSD1)</b>    | <b>Source: 2204123-02</b> |         |          | <b>Prepared: 04/20/22 Analyzed: 04/21/22</b> |    |             |               |      |    |  |  |
|---|---------------------------|---------|----------|--|----|-------------|---------------|------|----|--|--|
| Acenaphthene                              | 0.0165                    | 0.00500 | mg/kg    | 0.0333                                       | ND | 49.4        | 31-137        | 8.64 | 30 |  |  |
| Anthracene                                | 0.0178                    | 0.00500 | "        | 0.0333                                       | ND | 53.4        | 30-120        | 9.78 | 30 |  |  |
| Benzo (a) anthracene                      | 0.0181                    | 0.00500 | "        | 0.0333                                       | ND | 54.3        | 30-120        | 14.6 | 30 |  |  |
| Benzo (a) pyrene                          | 0.0162                    | 0.00500 | "        | 0.0333                                       | ND | 48.6        | 30-120        | 15.0 | 30 |  |  |
| Benzo (b) fluoranthene                    | 0.0170                    | 0.00500 | "        | 0.0333                                       | ND | 50.9        | 30-120        | 12.5 | 30 |  |  |
| Benzo (k) fluoranthene                    | 0.0170                    | 0.00500 | "        | 0.0333                                       | ND | 51.0        | 30-120        | 11.5 | 30 |  |  |
| Chrysene                                  | 0.0177                    | 0.00500 | "        | 0.0333                                       | ND | 53.0        | 30-120        | 16.3 | 30 |  |  |
| Dibenz (a,h) anthracene                   | 0.0200                    | 0.00500 | "        | 0.0333                                       | ND | 60.1        | 30-120        | 8.73 | 30 |  |  |
| Fluoranthene                              | 0.0195                    | 0.00500 | "        | 0.0333                                       | ND | 58.5        | 30-120        | 12.1 | 30 |  |  |
| Fluorene                                  | 0.0176                    | 0.00500 | "        | 0.0333                                       | ND | 52.9        | 30-120        | 11.3 | 30 |  |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0170                    | 0.00500 | "        | 0.0333                                       | ND | 50.9        | 30-120        | 12.1 | 30 |  |  |
| Pyrene                                    | 0.0183                    | 0.00500 | "        | 0.0333                                       | ND | 54.8        | 35-142        | 11.2 | 30 |  |  |
| 1-Methylnaphthalene                       | 0.0175                    | 0.00500 | "        | 0.0333                                       | ND | 52.4        | 15-130        | 15.8 | 50 |  |  |
| 2-Methylnaphthalene                       | 0.0153                    | 0.00500 | "        | 0.0333                                       | ND | 45.9        | 15-130        | 13.8 | 50 |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0211</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>63.3</i> | <i>40-150</i> |      |    |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0199</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>59.7</i> | <i>40-150</i> |      |    |  |  |

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

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

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

**Batch BFD0185 - EPA 3050B**

|  |        |        |      |                                       |        |                                       |        |      |    |  |
|--|--------|--------|------|---------------------------------------|--------|---------------------------------------|--------|------|----|--|
| <b>Blank (BFD0185-BLK1)</b>            |        |        |      | Prepared: 04/11/22 Analyzed: 04/14/22 |        |                                       |        |      |    |  |
| Boron                                  | ND     | 0.0100 | mg/L |                                       |        |                                       |        |      |    |  |
| <b>LCS (BFD0185-BS1)</b>               |        |        |      | Prepared: 04/11/22 Analyzed: 04/14/22 |        |                                       |        |      |    |  |
| Boron                                  | 4.86   | 0.0100 | mg/L | 5.00                                  | 97.2   | 80-120                                |        |      |    |  |
| <b>Duplicate (BFD0185-DUP1)</b>        |        |        |      | Source: 2204053-01                    |        | Prepared: 04/11/22 Analyzed: 04/14/22 |        |      |    |  |
| Boron                                  | 0.0597 | 0.0100 | mg/L | 0.0648                                |        |                                       | 8.19   | 20   |    |  |
| <b>Matrix Spike (BFD0185-MS1)</b>      |        |        |      | Source: 2204053-01                    |        | Prepared: 04/11/22 Analyzed: 04/14/22 |        |      |    |  |
| Boron                                  | 4.96   | 0.0100 | mg/L | 5.00                                  | 0.0648 | 97.8                                  | 75-125 |      |    |  |
| <b>Matrix Spike Dup (BFD0185-MSD1)</b> |        |        |      | Source: 2204053-01                    |        | Prepared: 04/11/22 Analyzed: 04/14/22 |        |      |    |  |
| Boron                                  | 5.03   | 0.0100 | mg/L | 5.00                                  | 0.0648 | 99.3                                  | 75-125 | 1.43 | 25 |  |

**Batch BFD0553 - EPA 3050B**

|                                   |       |        |      |                                       |       |                                       |        |    |  |  |
|-----------------------------------|-------|--------|------|---------------------------------------|-------|---------------------------------------|--------|----|--|--|
| <b>Blank (BFD0553-BLK1)</b>       |       |        |      | Prepared: 04/26/22 Analyzed: 04/27/22 |       |                                       |        |    |  |  |
| Boron                             | ND    | 0.0100 | mg/L |                                       |       |                                       |        |    |  |  |
| <b>LCS (BFD0553-BS1)</b>          |       |        |      | Prepared: 04/26/22 Analyzed: 04/27/22 |       |                                       |        |    |  |  |
| Boron                             | 4.92  | 0.0100 | mg/L | 5.00                                  | 98.4  | 80-120                                |        |    |  |  |
| <b>Duplicate (BFD0553-DUP1)</b>   |       |        |      | Source: 2204123-02                    |       | Prepared: 04/26/22 Analyzed: 04/27/22 |        |    |  |  |
| Boron                             | 0.388 | 0.0100 | mg/L | 0.396                                 |       |                                       | 2.05   | 20 |  |  |
| <b>Matrix Spike (BFD0553-MS1)</b> |       |        |      | Source: 2204123-02                    |       | Prepared: 04/26/22 Analyzed: 04/27/22 |        |    |  |  |
| Boron                             | 5.31  | 0.0100 | mg/L | 5.00                                  | 0.396 | 98.2                                  | 75-125 |    |  |  |

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**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 BFD0553 - EPA 3050B**

**Matrix Spike Dup (BFD0553-MSD1)**

**Source: 2204123-02**

Prepared: 04/26/22 Analyzed: 04/27/22

|       |      |        |      |      |       |      |        |      |    |  |
|-------|------|--------|------|------|-------|------|--------|------|----|--|
| Boron | 5.11 | 0.0100 | mg/L | 5.00 | 0.396 | 94.3 | 75-125 | 3.76 | 25 |  |
|-------|------|--------|------|------|-------|------|--------|------|----|--|

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFD0178 - EPA 3050B**

**Blank (BFD0178-BLK1)**

Prepared: 04/13/22 Analyzed: 04/14/22

|          |    |        |           |  |  |  |  |  |  |
|----------|----|--------|-----------|--|--|--|--|--|--|
| Arsenic  | ND | 0.200  | mg/kg wet |  |  |  |  |  |  |
| Barium   | ND | 0.400  | "         |  |  |  |  |  |  |
| Cadmium  | ND | 0.200  | "         |  |  |  |  |  |  |
| Copper   | ND | 0.400  | "         |  |  |  |  |  |  |
| Lead     | ND | 0.200  | "         |  |  |  |  |  |  |
| Nickel   | ND | 0.400  | "         |  |  |  |  |  |  |
| Selenium | ND | 0.260  | "         |  |  |  |  |  |  |
| Silver   | ND | 0.0200 | "         |  |  |  |  |  |  |
| Zinc     | ND | 0.400  | "         |  |  |  |  |  |  |

**LCS (BFD0178-BS1)**

Prepared: 04/13/22 Analyzed: 04/14/22

|          |      |        |           |      |      |        |
|----------|------|--------|-----------|------|------|--------|
| Arsenic  | 34.3 | 0.200  | mg/kg wet | 40.0 | 85.8 | 80-120 |
| Barium   | 33.5 | 0.400  | "         | 40.0 | 83.7 | 80-120 |
| Cadmium  | 1.72 | 0.200  | "         | 2.00 | 86.1 | 80-120 |
| Copper   | 32.5 | 0.400  | "         | 40.0 | 81.2 | 80-120 |
| Lead     | 16.9 | 0.200  | "         | 20.0 | 84.5 | 80-120 |
| Nickel   | 35.3 | 0.400  | "         | 40.0 | 88.3 | 80-120 |
| Selenium | 3.46 | 0.260  | "         | 4.00 | 86.4 | 80-120 |
| Silver   | 1.66 | 0.0200 | "         | 2.00 | 82.8 | 80-120 |
| Zinc     | 35.2 | 0.400  | "         | 40.0 | 87.9 | 80-120 |

**Duplicate (BFD0178-DUP1)**

Source: 2204039-01

Prepared: 04/13/22 Analyzed: 04/14/22

|          |        |        |           |        |       |    |
|----------|--------|--------|-----------|--------|-------|----|
| Arsenic  | 0.862  | 0.236  | mg/kg dry | 0.820  | 4.97  | 20 |
| Barium   | 17.4   | 0.473  | "         | 17.0   | 2.31  | 20 |
| Cadmium  | 0.0422 | 0.236  | "         | 0.0446 | 5.47  | 20 |
| Copper   | 3.10   | 0.473  | "         | 2.81   | 9.94  | 20 |
| Lead     | 4.99   | 0.236  | "         | 5.07   | 1.48  | 20 |
| Nickel   | 4.19   | 0.473  | "         | 3.84   | 8.72  | 20 |
| Selenium | 0.470  | 0.307  | "         | 0.454  | 3.41  | 20 |
| Silver   | 0.0457 | 0.0236 | "         | 0.0458 | 0.279 | 20 |
| Zinc     | 20.3   | 0.473  | "         | 18.3   | 10.3  | 20 |

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**Total Metals by EPA 6020B - Quality Control**

**Summit Scientific**

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

**Batch BFD0178 - EPA 3050B**

**Matrix Spike (BFD0178-MS1)**

Source: 2204039-01

Prepared: 04/13/22 Analyzed: 04/14/22

|          |      |        |           |      |        |      |        |  |  |  |
|----------|------|--------|-----------|------|--------|------|--------|--|--|--|
| Arsenic  | 44.5 | 0.236  | mg/kg dry | 47.3 | 0.820  | 92.4 | 75-125 |  |  |  |
| Barium   | 57.7 | 0.473  | "         | 47.3 | 17.0   | 86.1 | 75-125 |  |  |  |
| Cadmium  | 2.20 | 0.236  | "         | 2.36 | 0.0446 | 91.2 | 75-125 |  |  |  |
| Copper   | 42.5 | 0.473  | "         | 47.3 | 2.81   | 84.0 | 75-125 |  |  |  |
| Lead     | 24.5 | 0.236  | "         | 23.6 | 5.07   | 82.0 | 75-125 |  |  |  |
| Nickel   | 43.0 | 0.473  | "         | 47.3 | 3.84   | 82.8 | 75-125 |  |  |  |
| Selenium | 4.20 | 0.307  | "         | 4.73 | 0.454  | 79.1 | 75-125 |  |  |  |
| Silver   | 2.06 | 0.0236 | "         | 2.36 | 0.0458 | 85.4 | 75-125 |  |  |  |
| Zinc     | 62.4 | 0.473  | "         | 47.3 | 18.3   | 93.1 | 75-125 |  |  |  |

**Matrix Spike Dup (BFD0178-MSD1)**

Source: 2204039-01

Prepared: 04/13/22 Analyzed: 04/14/22

|          |      |        |           |      |        |      |        |       |    |       |
|----------|------|--------|-----------|------|--------|------|--------|-------|----|-------|
| Arsenic  | 42.8 | 0.236  | mg/kg dry | 47.3 | 0.820  | 88.9 | 75-125 | 3.81  | 25 |       |
| Barium   | 50.3 | 0.473  | "         | 47.3 | 17.0   | 70.3 | 75-125 | 13.8  | 25 | QM-05 |
| Cadmium  | 1.90 | 0.236  | "         | 2.36 | 0.0446 | 78.6 | 75-125 | 14.6  | 25 |       |
| Copper   | 41.1 | 0.473  | "         | 47.3 | 2.81   | 81.1 | 75-125 | 3.33  | 25 |       |
| Lead     | 21.3 | 0.236  | "         | 23.6 | 5.07   | 68.9 | 75-125 | 13.6  | 25 | QM-05 |
| Nickel   | 41.5 | 0.473  | "         | 47.3 | 3.84   | 79.6 | 75-125 | 3.52  | 25 |       |
| Selenium | 4.20 | 0.307  | "         | 4.73 | 0.454  | 79.3 | 75-125 | 0.120 | 25 |       |
| Silver   | 1.78 | 0.0236 | "         | 2.36 | 0.0458 | 73.3 | 75-125 | 14.8  | 25 | QM-05 |
| Zinc     | 60.4 | 0.473  | "         | 47.3 | 18.3   | 88.9 | 75-125 | 3.26  | 25 |       |

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

Project: Fagerberg Release

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFD0249 - 3060A Mod**

**Blank (BFD0249-BLK1)**

Prepared & Analyzed: 04/13/22

Chromium, Hexavalent      ND      0.30 mg/kg wet

**LCS (BFD0249-BS1)**

Prepared & Analyzed: 04/13/22

Chromium, Hexavalent      26.0      0.30 mg/kg wet      25.0      104      80-120

**Duplicate (BFD0249-DUP1)**

**Source: 2204095-09**

Prepared & Analyzed: 04/13/22

Chromium, Hexavalent      ND      0.30 mg/kg dry      ND      20

**Matrix Spike (BFD0249-MS1)**

**Source: 2204095-09**

Prepared & Analyzed: 04/13/22

Chromium, Hexavalent      35.6      0.30 mg/kg dry      29.8      ND      120      75-125

**Matrix Spike Dup (BFD0249-MSD1)**

**Source: 2204095-09**

Prepared & Analyzed: 04/13/22

Chromium, Hexavalent      33.7      0.30 mg/kg dry      29.8      ND      113      75-125      5.50      20

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

Project: Fagerberg Release

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

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

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

**Batch BFD0261 - General Preparation**

**Blank (BFD0261-BLK1)**

Prepared: 04/13/22 Analyzed: 04/16/22

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

**LCS (BFD0261-BS1)**

Prepared: 04/13/22 Analyzed: 04/16/22

|           |      |        |          |      |     |        |
|-----------|------|--------|----------|------|-----|--------|
| Calcium   | 5.88 | 0.0500 | mg/L wet | 5.00 | 118 | 70-130 |
| Magnesium | 5.65 | 0.0500 | "        | 5.00 | 113 | 70-130 |
| Sodium    | 5.66 | 0.0500 | "        | 5.00 | 113 | 70-130 |

**Batch BFD0595 - General Preparation**

**Blank (BFD0595-BLK1)**

Prepared: 04/27/22 Analyzed: 05/03/22

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

**LCS (BFD0595-BS1)**

Prepared: 04/27/22 Analyzed: 05/03/22

|           |      |        |          |      |     |        |
|-----------|------|--------|----------|------|-----|--------|
| Calcium   | 6.14 | 0.0500 | mg/L wet | 5.00 | 123 | 70-130 |
| Magnesium | 5.72 | 0.0500 | "        | 5.00 | 114 | 70-130 |
| Sodium    | 6.18 | 0.0500 | "        | 5.00 | 124 | 70-130 |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

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

**Summit Scientific**

| Analyte | Result | Reporting |       | Spike<br>Level | Source |      | %REC   |     | RPD   |  | Notes |
|---------|--------|-----------|-------|----------------|--------|------|--------|-----|-------|--|-------|
|         |        | Limit     | Units |                | Result | %REC | Limits | RPD | Limit |  |       |

**Batch BFD0195 - General Preparation**

| <b>Duplicate (BFD0195-DUP1)</b> |      | <b>Source: 2204079-01</b> |   |  | <b>Prepared &amp; Analyzed: 04/11/22</b> |  |  |       |  |    |  |
|---------------------------------|------|---------------------------|---|--|--|--|--|-------|--|----|--|
| % Solids                        | 93.8 |                           | % |  | 94.0                                     |  |  | 0.199 |  | 20 |  |

**Batch BFD0422 - General Preparation**

| <b>Duplicate (BFD0422-DUP1)</b> |      | <b>Source: 2204123-02</b> |   |  | <b>Prepared &amp; Analyzed: 04/20/22</b> |  |  |       |  |    |  |
|---------------------------------|------|---------------------------|---|--|--|--|--|-------|--|----|--|
| % Solids                        | 92.4 |                           | % |  | 92.9                                     |  |  | 0.577 |  | 20 |  |

Summit Scientific

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



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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

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

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

**Batch BFD0291 - General Preparation**

**Blank (BFD0291-BLK1)**

Prepared & Analyzed: 04/14/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFD0291-BS1)**

Prepared & Analyzed: 04/14/22

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BFD0291-DUP1)**

Source: 2204037-04

Prepared & Analyzed: 04/14/22

Specific Conductance (EC) 1.15 0.0100 mmhos/cm 1.15 0.435 20

**Batch BFD0596 - General Preparation**

**Blank (BFD0596-BLK1)**

Prepared: 04/27/22 Analyzed: 04/28/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFD0596-BS1)**

Prepared: 04/27/22 Analyzed: 04/28/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BFD0596-DUP1)**

Source: 2204123-02

Prepared: 04/27/22 Analyzed: 04/28/22

Specific Conductance (EC) 2.34 0.0100 mmhos/cm 2.49 6.30 20

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 14:45

**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 BFD0290 - General Preparation**

**LCS (BFD0290-BS1)**

Prepared & Analyzed: 04/14/22

pH 9.10 pH Units 9.18 99.1 95-105

**Duplicate (BFD0290-DUP1)**

Source: 2204037-04

Prepared & Analyzed: 04/14/22

pH 7.94 pH Units 7.85 1.14 20

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
05/23/22 14:45

### Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 28, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Fagerberg Release

Work Order #2204126

Enclosed are the results of analyses for samples received by Summit Scientific on 04/08/22 17:12. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury

President



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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
04/28/22 13:04

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| SS12@0-6" | 2204126-01    | Soil   | 04/08/22 13:37 | 04/08/22 17:12 |
| SS13@0-6" | 2204126-02    | Soil   | 04/08/22 13:38 | 04/08/22 17:12 |
| SS14@0-6" | 2204126-03    | Soil   | 04/08/22 13:39 | 04/08/22 17:12 |
| SS15@4'   | 2204126-04    | Soil   | 04/08/22 13:40 | 04/08/22 17:12 |

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

S<sub>2</sub>

2204126

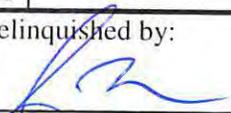
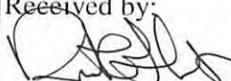
4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310

Page 1 of 1

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: Fagerberg Release  
Sampler Name: J. Marcus Project Number: 1/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 | BTEXN - 8260B      | TPH - (C6 - C36) | 1,2,4 & 1,3,5-TMB | Boron - HWS | pH, EC, SAR |                      |  |  |                                |
| 1  | 5512 @ 0-6"        | 4/8/22       | 1337         | 3               |              |      | X    |       |        | X    |                |       |                    | X                | X                 | X           |             |                      |  |  | pH, EC, SAR by saturated paste |
| 2  | 5513 @ 0-6"        | ↓            | 1338         | 3               |              |      | X    |       |        | X    |                |       |                    | X                | X                 | X           |             |                      |  |  |                                |
| 3  | 5514 @ 0-6"        | ↓            | 1339         | 3               |              |      | X    |       |        | X    |                |       |                    | X                | X                 | X           |             |                      |  |  |                                |
| 4  | 5515 @ 4'          | ↓            | 1340         | 3               |              |      | X    |       |        | X    |                |       |                    |                  |                   |             |             |                      |  |  |                                |
| 5  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |                  |                   |             |             |                      |  |  |                                |
| 6  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |                  |                   |             |             |                      |  |  |                                |
| 7  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |                  |                   |             |             |                      |  |  |                                |
| 8  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |                  |                   |             |             |                      |  |  |                                |
| 9  |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |                  |                   |             |             |                      |  |  |                                |
| 10 |                    |              |              |                 |              |      |      |       |        |      |                |       |                    |                  |                   |             |             |                      |  |  |                                |

|   |                        |  |                        |  |               |
|---|------------------------|--|------------------------|--|---------------|
| Relinquished by:  | Date/Time: 4/8/22 1615 | Received by: Tasman's Lock Box   | Date/Time: 4/8/22 1615 | <b>Turn Around Time</b> (Check)<br>Same Day <input checked="" type="checkbox"/> 72 hours ___<br>24 hours ___ Standard ___<br>48 hours ___<br><b>Sample Integrity:</b><br>Temperature Upon Receipt: 8.1<br>Samples Intact: <input checked="" type="checkbox"/> Yes No | <b>Notes:</b> |
| Relinquished by: Tasman's Lock Box  | Date/Time: 4822 1712   | Received by:  | Date/Time: 4822 1712   |  |               |
| Relinquished by:  | Date/Time:             | Received by:   | Date/Time:             |  |               |

S<sub>2</sub>

2204126

Sample Receipt Checklist

S2 Work Order#

Client: Boctasman Client Project ID: Fagerberg Release

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

-

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C)  Thermometer #

|   | Yes | No | N/A | Comments (if any) |
|---|-----|----|-----|-------------------|
| If samples require cooling, is the temperature < 6 °C <sup>(1)</sup> ?<br><b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.  | -   |    |     | ON ICE            |
| Were all samples received intact <sup>(1)</sup> ?   | -   |    |     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | -   |    |     |                   |
| If custody seals are present, are they intact <sup>(1)</sup> ?  | -   |    |     |                   |
| Are samples due within 48 hours present?  | -   |    |     | Same day          |
| Are water samples with short hold times present?<br>Note the short hold analysis in the comments column<br>- pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen |     |    | -   |                   |
| Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?   | -   |    |     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | -   |    |     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | -   |    |     |                   |
| Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?   | -   |    |     |                   |
| For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>   |     |    | -   |                   |
| Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?<br>Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.  |     |    | -   |                   |
| If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?<br>Record the pH in Comments.  |     |    | -   |                   |
| If dissolved metals are requested, were samples field filtered?   |     |    | -   |                   |
| Additional Comments (if any):   |     |    |     |                   |
|   |     |    |     |                   |

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

Custodian Printed Name

48.22

Date/Time



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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
04/28/22 13:04

**SS12@0-6"**  
**2204126-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/08/22 13:37**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BFD0179 | 04/08/22 | 04/09/22 | 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: **04/08/22 13:37**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 |        | 142 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 103 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 107 %     |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/08/22 13:37**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BFD0180 | 04/08/22 | 04/09/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/08/22 13:37**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl |        | 95.3 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
04/28/22 13:04

**SS12@0-6''**  
**2204126-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/08/22 13:37**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/22/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/08/22 13:37**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 |        | 52.3 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        |        | 53.6 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/08/22 13:37**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.629</b> | 0.0100          | mg/L  | 1        | BFD0553 | 04/26/22 | 04/27/22 | EPA 6020B |       |

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

Date Sampled: **04/08/22 13:37**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>16.1</b> | 0.0508          | mg/L dry | 1        | BFD0497 | 04/22/22 | 04/27/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>2.70</b> | 0.0508          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>2.14</b> | 0.0508          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 04/28/22 13:04

**SS12@0-6''**  
**2204126-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/08/22 13:37**

| Analyte                 | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | <b>0.130</b> | 0.00100         | units | 1        | BFD0607 | 04/27/22 | 04/27/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/08/22 13:37**

| Analyte  | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | <b>98.4</b> |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/08/22 13:37**

| Analyte                   | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | <b>4.11</b> | 0.0100          | mmhos/cm | 1        | BFD0501 | 04/22/22 | 04/25/22 | EPA 120.1 |       |

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: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
04/28/22 13:04

**SS13@0-6''**  
**2204126-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/08/22 13:38**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFD0179 | 04/08/22 | 04/09/22 | 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: **04/08/22 13:38**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 132 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 104 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 104 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/08/22 13:38**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0180 | 04/08/22 | 04/09/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/08/22 13:38**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 97.8 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
04/28/22 13:04

**SS13@0-6''**  
**2204126-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/08/22 13:38**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/22/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/08/22 13:38**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 |        | 52.7 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        |        | 50.2 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/08/22 13:38**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.397</b> | 0.0100          | mg/L  | 1        | BFD0553 | 04/26/22 | 04/27/22 | EPA 6020B |       |

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

Date Sampled: **04/08/22 13:38**

| Analyte          | Result       | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>7.78</b>  | 0.0624          | mg/L dry | 1        | BFD0497 | 04/22/22 | 04/27/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>0.990</b> | 0.0624          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>0.300</b> | 0.0624          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

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: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 04/28/22 13:04

**SS13@0-6''**  
**2204126-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/08/22 13:38**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0269 | 0.00100         | units | 1        | BFD0607 | 04/27/22 | 04/27/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/08/22 13:38**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 80.1   |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/08/22 13:38**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.394  | 0.0100          | mmhos/cm | 1        | BFD0501 | 04/22/22 | 04/25/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
04/28/22 13:04

**SS14@0-6''**  
**2204126-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/08/22 13:39**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFD0179 | 04/08/22 | 04/09/22 | 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: **04/08/22 13:39**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 135 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 103 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 102 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/08/22 13:39**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0180 | 04/08/22 | 04/09/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/08/22 13:39**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 95.9 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
04/28/22 13:04

**SS14@0-6''**  
**2204126-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/08/22 13:39**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/22/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/08/22 13:39**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 |        | 47.2 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        |        | 49.1 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/08/22 13:39**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.413</b> | 0.0100          | mg/L  | 1        | BFD0553 | 04/26/22 | 04/27/22 | EPA 6020B |       |

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

Date Sampled: **04/08/22 13:39**

| Analyte          | Result       | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>10.4</b>  | 0.0508          | mg/L dry | 1        | BFD0497 | 04/22/22 | 04/27/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>1.41</b>  | 0.0508          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>0.282</b> | 0.0508          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 04/28/22 13:04

**SS14@0-6''**  
**2204126-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/08/22 13:39**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0218 | 0.00100         | units | 1        | BFD0607 | 04/27/22 | 04/27/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/08/22 13:39**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 98.4   |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/08/22 13:39**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.475  | 0.0100          | mmhos/cm | 1        | BFD0501 | 04/22/22 | 04/25/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
04/28/22 13:04

**SS15@4'**  
**2204126-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/08/22 13:40**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFD0179 | 04/08/22 | 04/09/22 | 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: **04/08/22 13:40**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 |        | 141 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            |        | 103 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  |        | 107 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/08/22 13:40**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0180 | 04/08/22 | 04/09/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/08/22 13:40**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl |        | 98.8 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
04/28/22 13:04

**SS15@4'**  
**2204126-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/08/22 13:40**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/22/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/08/22 13:40**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 |        | 46.8 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        |        | 47.8 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/08/22 13:40**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.601</b> | 0.0100          | mg/L  | 1        | BFD0553 | 04/26/22 | 04/27/22 | EPA 6020B |       |

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

Date Sampled: **04/08/22 13:40**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>69.8</b> | 0.0609          | mg/L dry | 1        | BFD0497 | 04/22/22 | 04/27/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>7.86</b> | 0.0609          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>2.07</b> | 0.0609          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 04/28/22 13:04

**SS15@4'**  
**2204126-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/08/22 13:40**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0627 | 0.00100         | units | 1        | BFD0607 | 04/27/22 | 04/27/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/08/22 13:40**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 82.1   |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/08/22 13:40**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 2.55   | 0.0100          | mmhos/cm | 1        | BFD0501 | 04/22/22 | 04/25/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
04/28/22 13:04

### 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 BFD0179 - EPA 5030 Soil MS

##### Blank (BFD0179-BLK1)

Prepared: 04/08/22 Analyzed: 04/09/22

|   |        |        |       |        |  |     |        |  |  |  |
|---|--------|--------|-------|--------|--|-----|--------|--|--|--|
| 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> | 0.0562 |        | "     | 0.0400 |  | 141 | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0421 |        | "     | 0.0400 |  | 105 | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0418 |        | "     | 0.0400 |  | 104 | 50-150 |  |  |  |

##### LCS (BFD0179-BS1)

Prepared: 04/08/22 Analyzed: 04/09/22

|   |        |        |       |        |  |      |        |  |  |  |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene                                 | 0.0995 | 0.0020 | mg/kg | 0.100  |  | 99.5 | 70-130 |  |  |  |
| Toluene                                 | 0.106  | 0.0050 | "     | 0.100  |  | 106  | 70-130 |  |  |  |
| Ethylbenzene                            | 0.0916 | 0.0050 | "     | 0.100  |  | 91.6 | 70-130 |  |  |  |
| m,p-Xylene                              | 0.189  | 0.010  | "     | 0.200  |  | 94.7 | 70-130 |  |  |  |
| o-Xylene                                | 0.0982 | 0.0050 | "     | 0.100  |  | 98.2 | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.104  | 0.0050 | "     | 0.100  |  | 104  | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.0980 | 0.0050 | "     | 0.100  |  | 98.0 | 70-130 |  |  |  |
| Naphthalene                             | 0.108  | 0.0038 | "     | 0.100  |  | 108  | 70-130 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0547 |        | "     | 0.0400 |  | 137  | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0414 |        | "     | 0.0400 |  | 104  | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0446 |        | "     | 0.0400 |  | 111  | 50-150 |  |  |  |

##### Matrix Spike (BFD0179-MS1)

Source: 2204125-01

Prepared: 04/08/22 Analyzed: 04/09/22

|   |        |        |       |        |    |      |        |  |  |  |
|---|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene                                 | 0.0936 | 0.0020 | mg/kg | 0.100  | ND | 93.6 | 70-130 |  |  |  |
| Toluene                                 | 0.102  | 0.0050 | "     | 0.100  | ND | 102  | 70-130 |  |  |  |
| Ethylbenzene                            | 0.0909 | 0.0050 | "     | 0.100  | ND | 90.9 | 70-130 |  |  |  |
| m,p-Xylene                              | 0.190  | 0.010  | "     | 0.200  | ND | 95.2 | 70-130 |  |  |  |
| o-Xylene                                | 0.0965 | 0.0050 | "     | 0.100  | ND | 96.5 | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.102  | 0.0050 | "     | 0.100  | ND | 102  | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.0979 | 0.0050 | "     | 0.100  | ND | 97.9 | 70-130 |  |  |  |
| Naphthalene                             | 0.100  | 0.0038 | "     | 0.100  | ND | 100  | 70-130 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0504 |        | "     | 0.0400 |    | 126  | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0412 |        | "     | 0.0400 |    | 103  | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0420 |        | "     | 0.0400 |    | 105  | 50-150 |  |  |  |

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

Project: Fagerberg Release

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 04/28/22 13:04

**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 BFD0179 - EPA 5030 Soil MS**

| <b>Matrix Spike Dup (BFD0179-MSD1)</b>  | <b>Source: 2204125-01</b> |        |          | Prepared: 04/08/22 Analyzed: 04/09/22 |    |            |               |      |    |  |
|---|---------------------------|--------|----------|---------------------------------------|----|------------|---------------|------|----|--|
| Benzene                                 | 0.0982                    | 0.0020 | mg/kg    | 0.100                                 | ND | 98.2       | 70-130        | 4.85 | 30 |  |
| Toluene                                 | 0.108                     | 0.0050 | "        | 0.100                                 | ND | 108        | 70-130        | 5.65 | 30 |  |
| Ethylbenzene                            | 0.0954                    | 0.0050 | "        | 0.100                                 | ND | 95.4       | 70-130        | 4.83 | 30 |  |
| m,p-Xylene                              | 0.199                     | 0.010  | "        | 0.200                                 | ND | 99.3       | 70-130        | 4.12 | 30 |  |
| o-Xylene                                | 0.0996                    | 0.0050 | "        | 0.100                                 | ND | 99.6       | 70-130        | 3.15 | 30 |  |
| 1,2,4-Trimethylbenzene                  | 0.105                     | 0.0050 | "        | 0.100                                 | ND | 105        | 70-130        | 3.47 | 30 |  |
| 1,3,5-Trimethylbenzene                  | 0.102                     | 0.0050 | "        | 0.100                                 | ND | 102        | 70-130        | 3.70 | 30 |  |
| Naphthalene                             | 0.115                     | 0.0038 | "        | 0.100                                 | ND | 115        | 70-130        | 13.7 | 30 |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0503</i>             |        | <i>"</i> | <i>0.0400</i>                         |    | <i>126</i> | <i>50-150</i> |      |    |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0419</i>             |        | <i>"</i> | <i>0.0400</i>                         |    | <i>105</i> | <i>50-150</i> |      |    |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0430</i>             |        | <i>"</i> | <i>0.0400</i>                         |    | <i>107</i> | <i>50-150</i> |      |    |  |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 04/28/22 13:04

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFD0180 - EPA 3550A**

**Blank (BFD0180-BLK1)**

Prepared & Analyzed: 04/08/22

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

**LCS (BFD0180-BS1)**

Prepared & Analyzed: 04/08/22

|               |     |    |       |     |      |        |  |  |  |  |
|---------------|-----|----|-------|-----|------|--------|--|--|--|--|
| C10-C28 (DRO) | 486 | 50 | mg/kg | 500 | 97.2 | 70-130 |  |  |  |  |
|---------------|-----|----|-------|-----|------|--------|--|--|--|--|

**Matrix Spike (BFD0180-MS1)**

Source: 2204125-01

Prepared & Analyzed: 04/08/22

|               |     |    |       |     |      |      |        |  |  |  |
|---------------|-----|----|-------|-----|------|------|--------|--|--|--|
| C10-C28 (DRO) | 462 | 50 | mg/kg | 500 | 21.5 | 88.1 | 70-130 |  |  |  |
|---------------|-----|----|-------|-----|------|------|--------|--|--|--|

**Matrix Spike Dup (BFD0180-MSD1)**

Source: 2204125-01

Prepared & Analyzed: 04/08/22

|               |     |    |       |     |      |      |        |      |    |  |
|---------------|-----|----|-------|-----|------|------|--------|------|----|--|
| C10-C28 (DRO) | 417 | 50 | mg/kg | 500 | 21.5 | 79.0 | 70-130 | 10.4 | 20 |  |
|---------------|-----|----|-------|-----|------|------|--------|------|----|--|

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
04/28/22 13:04

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFD0401 - EPA 5030 Soil MS**

**Blank (BFD0401-BLK1)**

Prepared: 04/20/22 Analyzed: 04/22/22

|   |        |         |       |        |  |      |        |  |  |  |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene                              | ND     | 0.00500 | mg/kg |        |  |      |        |  |  |  |
| Anthracene                                | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (a) anthracene                      | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (a) pyrene                          | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (b) fluoranthene                    | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (k) fluoranthene                    | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Chrysene                                  | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Dibenz (a,h) anthracene                   | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Fluoranthene                              | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Fluorene                                  | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Pyrene                                    | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| 1-Methylnaphthalene                       | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| 2-Methylnaphthalene                       | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0225 |         | "     | 0.0333 |  | 67.6 | 40-150 |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | 0.0213 |         | "     | 0.0333 |  | 63.8 | 40-150 |  |  |  |

**LCS (BFD0401-BS1)**

Prepared: 04/20/22 Analyzed: 04/22/22

|   |        |         |       |        |  |      |        |  |  |  |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene                              | 0.0303 | 0.00500 | mg/kg | 0.0333 |  | 91.0 | 31-137 |  |  |  |
| Anthracene                                | 0.0316 | 0.00500 | "     | 0.0333 |  | 94.7 | 30-120 |  |  |  |
| Benzo (a) anthracene                      | 0.0310 | 0.00500 | "     | 0.0333 |  | 93.1 | 30-120 |  |  |  |
| Benzo (a) pyrene                          | 0.0269 | 0.00500 | "     | 0.0333 |  | 80.7 | 30-120 |  |  |  |
| Benzo (b) fluoranthene                    | 0.0339 | 0.00500 | "     | 0.0333 |  | 102  | 30-120 |  |  |  |
| Benzo (k) fluoranthene                    | 0.0371 | 0.00500 | "     | 0.0333 |  | 111  | 30-120 |  |  |  |
| Chrysene                                  | 0.0289 | 0.00500 | "     | 0.0333 |  | 86.7 | 30-120 |  |  |  |
| Dibenz (a,h) anthracene                   | 0.0162 | 0.00500 | "     | 0.0333 |  | 48.6 | 30-120 |  |  |  |
| Fluoranthene                              | 0.0238 | 0.00500 | "     | 0.0333 |  | 71.5 | 30-120 |  |  |  |
| Fluorene                                  | 0.0314 | 0.00500 | "     | 0.0333 |  | 94.3 | 30-120 |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0173 | 0.00500 | "     | 0.0333 |  | 51.9 | 30-120 |  |  |  |
| Pyrene                                    | 0.0398 | 0.00500 | "     | 0.0333 |  | 120  | 35-142 |  |  |  |
| 1-Methylnaphthalene                       | 0.0237 | 0.00500 | "     | 0.0333 |  | 71.2 | 35-142 |  |  |  |
| 2-Methylnaphthalene                       | 0.0279 | 0.00500 | "     | 0.0333 |  | 83.8 | 35-142 |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0276 |         | "     | 0.0333 |  | 82.8 | 40-150 |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | 0.0256 |         | "     | 0.0333 |  | 76.9 | 40-150 |  |  |  |

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
04/28/22 13:04

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFD0401 - EPA 5030 Soil MS**

| <b>Matrix Spike (BFD0401-MS1)</b>         | <b>Source: 2204126-01</b> |         |          | <b>Prepared: 04/20/22 Analyzed: 04/22/22</b> |    |             |               |  |  |  |
|---|---------------------------|---------|----------|--|----|-------------|---------------|--|--|--|
| Acenaphthene                              | 0.0183                    | 0.00500 | mg/kg    | 0.0333                                       | ND | 55.0        | 31-137        |  |  |  |
| Anthracene                                | 0.0200                    | 0.00500 | "        | 0.0333                                       | ND | 59.9        | 30-120        |  |  |  |
| Benzo (a) anthracene                      | 0.0187                    | 0.00500 | "        | 0.0333                                       | ND | 56.2        | 30-120        |  |  |  |
| Benzo (a) pyrene                          | 0.0182                    | 0.00500 | "        | 0.0333                                       | ND | 54.6        | 30-120        |  |  |  |
| Benzo (b) fluoranthene                    | 0.0236                    | 0.00500 | "        | 0.0333                                       | ND | 70.7        | 30-120        |  |  |  |
| Benzo (k) fluoranthene                    | 0.0234                    | 0.00500 | "        | 0.0333                                       | ND | 70.3        | 30-120        |  |  |  |
| Chrysene                                  | 0.0172                    | 0.00500 | "        | 0.0333                                       | ND | 51.6        | 30-120        |  |  |  |
| Dibenz (a,h) anthracene                   | 0.0150                    | 0.00500 | "        | 0.0333                                       | ND | 44.9        | 30-120        |  |  |  |
| Fluoranthene                              | 0.0158                    | 0.00500 | "        | 0.0333                                       | ND | 47.5        | 30-120        |  |  |  |
| Fluorene                                  | 0.0196                    | 0.00500 | "        | 0.0333                                       | ND | 58.8        | 30-120        |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0221                    | 0.00500 | "        | 0.0333                                       | ND | 66.3        | 30-120        |  |  |  |
| Pyrene                                    | 0.0403                    | 0.00500 | "        | 0.0333                                       | ND | 121         | 35-142        |  |  |  |
| 1-Methylnaphthalene                       | 0.0161                    | 0.00500 | "        | 0.0333                                       | ND | 48.4        | 15-130        |  |  |  |
| 2-Methylnaphthalene                       | 0.0188                    | 0.00500 | "        | 0.0333                                       | ND | 56.4        | 15-130        |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0184</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>55.3</i> | <i>40-150</i> |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0165</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>49.5</i> | <i>40-150</i> |  |  |  |

| <b>Matrix Spike Dup (BFD0401-MSD1)</b>    | <b>Source: 2204126-01</b> |         |          | <b>Prepared: 04/20/22 Analyzed: 04/22/22</b> |    |             |               |      |    |  |
|---|---------------------------|---------|----------|--|----|-------------|---------------|------|----|--|
| Acenaphthene                              | 0.0194                    | 0.00500 | mg/kg    | 0.0333                                       | ND | 58.1        | 31-137        | 5.53 | 30 |  |
| Anthracene                                | 0.0210                    | 0.00500 | "        | 0.0333                                       | ND | 62.9        | 30-120        | 4.92 | 30 |  |
| Benzo (a) anthracene                      | 0.0200                    | 0.00500 | "        | 0.0333                                       | ND | 60.1        | 30-120        | 6.72 | 30 |  |
| Benzo (a) pyrene                          | 0.0219                    | 0.00500 | "        | 0.0333                                       | ND | 65.8        | 30-120        | 18.5 | 30 |  |
| Benzo (b) fluoranthene                    | 0.0251                    | 0.00500 | "        | 0.0333                                       | ND | 75.4        | 30-120        | 6.45 | 30 |  |
| Benzo (k) fluoranthene                    | 0.0280                    | 0.00500 | "        | 0.0333                                       | ND | 84.1        | 30-120        | 17.8 | 30 |  |
| Chrysene                                  | 0.0186                    | 0.00500 | "        | 0.0333                                       | ND | 55.8        | 30-120        | 7.76 | 30 |  |
| Dibenz (a,h) anthracene                   | 0.0145                    | 0.00500 | "        | 0.0333                                       | ND | 43.6        | 30-120        | 3.13 | 30 |  |
| Fluoranthene                              | 0.0173                    | 0.00500 | "        | 0.0333                                       | ND | 51.9        | 30-120        | 8.94 | 30 |  |
| Fluorene                                  | 0.0206                    | 0.00500 | "        | 0.0333                                       | ND | 61.9        | 30-120        | 5.14 | 30 |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0174                    | 0.00500 | "        | 0.0333                                       | ND | 52.3        | 30-120        | 23.5 | 30 |  |
| Pyrene                                    | 0.0399                    | 0.00500 | "        | 0.0333                                       | ND | 120         | 35-142        | 1.00 | 30 |  |
| 1-Methylnaphthalene                       | 0.0180                    | 0.00500 | "        | 0.0333                                       | ND | 53.9        | 15-130        | 10.8 | 50 |  |
| 2-Methylnaphthalene                       | 0.0197                    | 0.00500 | "        | 0.0333                                       | ND | 59.0        | 15-130        | 4.53 | 50 |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0178</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>53.4</i> | <i>40-150</i> |      |    |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0181</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>54.3</i> | <i>40-150</i> |      |    |  |

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 04/28/22 13:04

**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 BFD0553 - EPA 3050B**

**Blank (BFD0553-BLK1)**

Prepared: 04/26/22 Analyzed: 04/27/22

Boron ND 0.0100 mg/L

**LCS (BFD0553-BS1)**

Prepared: 04/26/22 Analyzed: 04/27/22

Boron 4.92 0.0100 mg/L 5.00 98.4 80-120

**Duplicate (BFD0553-DUP1)**

Source: 2204123-02

Prepared: 04/26/22 Analyzed: 04/27/22

Boron 0.388 0.0100 mg/L 0.396 2.05 20

**Matrix Spike (BFD0553-MS1)**

Source: 2204123-02

Prepared: 04/26/22 Analyzed: 04/27/22

Boron 5.31 0.0100 mg/L 5.00 0.396 98.2 75-125

**Matrix Spike Dup (BFD0553-MSD1)**

Source: 2204123-02

Prepared: 04/26/22 Analyzed: 04/27/22

Boron 5.11 0.0100 mg/L 5.00 0.396 94.3 75-125 3.76 25

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 04/28/22 13:04

**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 BFD0497 - General Preparation**

**Blank (BFD0497-BLK1)**

Prepared: 04/22/22 Analyzed: 04/27/22

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

**LCS (BFD0497-BS1)**

Prepared: 04/22/22 Analyzed: 04/27/22

|           |      |        |          |      |     |        |  |  |  |  |
|-----------|------|--------|----------|------|-----|--------|--|--|--|--|
| Calcium   | 5.45 | 0.0500 | mg/L wet | 5.00 | 109 | 70-130 |  |  |  |  |
| Magnesium | 5.61 | 0.0500 | "        | 5.00 | 112 | 70-130 |  |  |  |  |
| Sodium    | 5.61 | 0.0500 | "        | 5.00 | 112 | 70-130 |  |  |  |  |

Summit Scientific

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



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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 04/28/22 13:04

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

**Summit Scientific**

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

**Batch BFD0422 - General Preparation**

**Duplicate (BFD0422-DUP1)**

**Source: 2204123-02**

**Prepared & Analyzed: 04/20/22**

|          |      |  |   |  |      |  |  |       |  |    |  |
|----------|------|--|---|--|------|--|--|-------|--|----|--|
| % Solids | 92.4 |  | % |  | 92.9 |  |  | 0.577 |  | 20 |  |
|----------|------|--|---|--|------|--|--|-------|--|----|--|

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 04/28/22 13:04

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

**Summit Scientific**

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

**Batch BFD0501 - General Preparation**

**Blank (BFD0501-BLK1)**

Prepared: 04/22/22 Analyzed: 04/25/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFD0501-BS1)**

Prepared: 04/22/22 Analyzed: 04/25/22

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BFD0501-DUP1)**

Source: 2204126-01

Prepared: 04/22/22 Analyzed: 04/25/22

Specific Conductance (EC) 3.94 0.0100 mmhos/cm 4.11 4.28 20

Summit Scientific

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

Project: Fagerberg Release

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
04/28/22 13:04

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 24, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Fagerberg Pad

Work Order #2204216

Enclosed are the results of analyses for samples received by Summit Scientific on 04/14/22 17:14. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury

President



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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID  | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|------------|---------------|--------|----------------|----------------|
| SS16@2'    | 2204216-01    | Soil   | 04/14/22 08:50 | 04/14/22 17:14 |
| SS17@2'    | 2204216-02    | Soil   | 04/14/22 09:10 | 04/14/22 17:14 |
| SS18@2'    | 2204216-03    | Soil   | 04/14/22 09:30 | 04/14/22 17:14 |
| SS19@2'    | 2204216-04    | Soil   | 04/14/22 09:50 | 04/14/22 17:14 |
| SS20@4'    | 2204216-05    | Soil   | 04/14/22 10:10 | 04/14/22 17:14 |
| SS21@2.5'  | 2204216-06    | Soil   | 04/14/22 10:29 | 04/14/22 17:14 |
| BKG01@2'   | 2204216-08    | Soil   | 04/14/22 11:00 | 04/14/22 17:14 |
| BKG01@2.5' | 2204216-09    | Soil   | 04/14/22 11:04 | 04/14/22 17:14 |
| BKG01@4'   | 2204216-10    | Soil   | 04/14/22 11:08 | 04/14/22 17:14 |

Summit Scientific

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S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2204216

Client: Pac/Tasman Client Project ID: Fagerberg Pad

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

-

Matrix (Check all that apply)  Air  Soil/Solid  Water  Other

Temp (°C) 5.1 Thermometer # 1

|  | Yes | No | N/A | Comments (if any) |
|--|-----|----|-----|-------------------|
| If samples require cooling, is the temperature < 6 °C <sup>(1)</sup> ?<br><b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.   | -   |    |     | on ICE            |
| Were all samples received intact <sup>(1)</sup> ?  | -   |    |     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?   | -   |    |     |                   |
| If custody seals are present, are they intact <sup>(1)</sup> ?   | -   |    |     |                   |
| Are samples due within 48 hours present?   | -   |    |     | Same day          |
| Are water samples with short hold times present?<br><b>NOTE:</b> The short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen |     |    | -   |                   |
| Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?  | -   |    |     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?  | -   |    |     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?  | -   |    |     |                   |
| Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?  | -   |    |     |                   |
| For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>  |     |    | -   |                   |
| Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?<br>Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.   |     |    | -   |                   |
| If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?<br>Record the pH in Comments.   |     |    | -   |                   |
| If dissolved metals are requested, were samples field filtered?  |     |    | -   |                   |
| Additional Comments (if any):  |     |    |     |                   |
|  |     |    |     |                   |
|  |     |    |     |                   |

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

Custodian Printed Name

4.14.22

Date/Time



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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**SS16@2'**  
**2204216-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/14/22 08:50**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BFD0298 | 04/14/22 | 04/14/22 | 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: **04/14/22 08:50**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0398 | 99.4 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0437 | 109 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0450 | 112 %     |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/14/22 08:50**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BFD0299 | 04/14/22 | 04/14/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/14/22 08:50**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 10.5   | 84.2 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**SS16@2'**  
**2204216-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/14/22 08:50**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/22/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/14/22 08:50**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0160 | 48.0 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0159 | 47.6 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/14/22 08:50**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.378</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

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

Date Sampled: **04/14/22 08:50**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>14.1</b> | 0.0599          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>4.83</b> | 0.0599          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1.59</b> | 0.0599          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

**SS16@2'**  
**2204216-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/14/22 08:50**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0932 | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/14/22 08:50**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 83.4   |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/14/22 08:50**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.13   | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**SS17@2'**  
**2204216-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/14/22 09:10**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFD0298 | 04/14/22 | 04/14/22 | 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: **04/14/22 09:10**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0382 | 95.4 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0427 | 107 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0447 | 112 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/14/22 09:10**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0299 | 04/14/22 | 04/14/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/14/22 09:10**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 10.7   | 85.8 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**SS17@2'**  
**2204216-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/14/22 09:10**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/22/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/14/22 09:10**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0165 | 49.6 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0159 | 47.7 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/14/22 09:10**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.320</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

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

Date Sampled: **04/14/22 09:10**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>16.0</b> | 0.0597          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>3.81</b> | 0.0597          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1.11</b> | 0.0597          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Pad  
 Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

**SS17@2'**  
**2204216-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/14/22 09:10**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0648 | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/14/22 09:10**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 83.7   |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/14/22 09:10**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.648  | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**SS18@2'**  
**2204216-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/14/22 09:30**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFD0298 | 04/14/22 | 04/14/22 | 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: **04/14/22 09:30**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0381 | 95.2 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0426 | 107 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0437 | 109 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/14/22 09:30**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0299 | 04/14/22 | 04/14/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/14/22 09:30**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 10.1   | 81.1 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**SS18@2'**  
**2204216-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/14/22 09:30**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/22/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/14/22 09:30**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0160 | 47.9 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0157 | 47.0 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/14/22 09:30**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.317</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

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

Date Sampled: **04/14/22 09:30**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>29.3</b> | 0.0595          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>5.67</b> | 0.0595          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1.13</b> | 0.0595          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

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: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

**SS18@2'**  
**2204216-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/14/22 09:30**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0501 | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/14/22 09:30**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 84.0   |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/14/22 09:30**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.561  | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

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: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**SS19@2'**  
**2204216-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/14/22 09:50**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BFD0298 | 04/14/22 | 04/14/22 | 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: **04/14/22 09:50**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0383 | 95.7 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0442 | 110 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0450 | 113 %     |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/14/22 09:50**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BFD0299 | 04/14/22 | 04/14/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/14/22 09:50**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 10.6   | 84.7 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**SS19@2'**  
**2204216-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/14/22 09:50**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/22/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/14/22 09:50**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0159 | 47.7 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0157 | 47.2 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/14/22 09:50**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.346</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

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

Date Sampled: **04/14/22 09:50**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>21.0</b> | 0.0595          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>5.08</b> | 0.0595          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1.34</b> | 0.0595          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

**SS19@2'**  
**2204216-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/14/22 09:50**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0681 | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/14/22 09:50**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 84.0   |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/14/22 09:50**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.671  | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**SS20@4'**  
**2204216-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/14/22 10:10**

| Analyte                            | Result        | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------------------------|---------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                            | ND            | 0.0020          | mg/kg | 1        | BFD0298 | 04/14/22 | 04/14/22 | EPA 8260B |       |
| <b>Toluene</b>                     | <b>0.0058</b> | 0.0050          | "     | "        | "       | "        | "        | "         | "     |
| Ethylbenzene                       | ND            | 0.0050          | "     | "        | "       | "        | "        | "         | "     |
| <b>Xylenes (total)</b>             | <b>0.030</b>  | 0.010           | "     | "        | "       | "        | "        | "         | "     |
| <b>1,2,4-Trimethylbenzene</b>      | <b>0.015</b>  | 0.0050          | "     | "        | "       | "        | "        | "         | "     |
| <b>1,3,5-Trimethylbenzene</b>      | <b>0.012</b>  | 0.0050          | "     | "        | "       | "        | "        | "         | "     |
| Naphthalene                        | ND            | 0.0038          | "     | "        | "       | "        | "        | "         | "     |
| <b>Gasoline Range Hydrocarbons</b> | <b>1.2</b>    | 0.50            | "     | "        | "       | "        | "        | "         | "     |

Date Sampled: **04/14/22 10:10**

| Analyte                                 | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0372 | 92.9 %          | 50-150 |          | "     | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>            | 0.0435 | 109 %           | 50-150 |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0456 | 114 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/14/22 10:10**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0299 | 04/14/22 | 04/14/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/14/22 10:10**

| Analyte                       | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|-------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| <i>Surrogate: o-Terphenyl</i> | 10.6   | 84.5 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**SS20@4'**  
**2204216-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/14/22 10:10**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/22/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/14/22 10:10**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0159 | 47.7 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0165 | 49.4 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/14/22 10:10**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.514</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

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

Date Sampled: **04/14/22 10:10**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>53.5</b> | 0.0631          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>4.26</b> | 0.0631          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1.21</b> | 0.0631          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Pad  
 Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

**SS20@4'**  
**2204216-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/14/22 10:10**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0428 | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/14/22 10:10**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 79.2   |                 | %     | 1        | BFD0422 | 04/20/22 | 04/20/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/14/22 10:10**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.641  | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**SS21@2.5'**  
**2204216-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/14/22 10:29**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.261</b> | 0.0100          | mg/L  | 1        | BFD0308 | 04/15/22 | 04/16/22 | EPA 6020B |       |

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

Date Sampled: **04/14/22 10:29**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>106</b>  | 0.0605          | mg/L dry | 1        | BFD0374 | 04/19/22 | 04/22/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>82.1</b> | 0.0605          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>60.1</b> | 0.0605          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Date Sampled: **04/14/22 10:29**

| Analyte                        | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|--------------------------------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| <b>Sodium Adsorption Ratio</b> | <b>1.07</b> | 0.00100         | units | 1        | BFD0509 | 04/23/22 | 04/23/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/14/22 10:29**

| Analyte         | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-----------------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| <b>% Solids</b> | <b>82.7</b> |                 | %     | 1        | BFD0314 | 04/15/22 | 04/15/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/14/22 10:29**

| Analyte                          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Specific Conductance (EC)</b> | <b>1.95</b> | 0.0100          | mmhos/cm | 1        | BFD0419 | 04/20/22 | 04/20/22 | EPA 120.1 |       |

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

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

**SS21@2.5'**  
**2204216-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/14/22 10:29**

| Analyte   | Result      | Reporting |          | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|           |             | Limit     | Units    |          |         |          |          |           |       |
| <b>pH</b> | <b>7.75</b> |           | pH Units | 1        | BFD0420 | 04/20/22 | 04/20/22 | EPA 9045D |       |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**BKG01@2'**  
**2204216-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/14/22 11:00**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Boron   | 0.321  | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **04/14/22 11:00**

| Analyte  | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Arsenic  | 5.98   | 0.243           | mg/kg dry | 1        | BFD0316 | 04/15/22 | 04/21/22 | EPA 6020B |       |
| Barium   | 295    | 0.487           | "         | "        | "       | "        | "        | "         |       |
| Cadmium  | 0.965  | 0.243           | "         | "        | "       | "        | "        | "         |       |
| Copper   | 12.7   | 0.487           | "         | "        | "       | "        | "        | "         |       |
| Lead     | 8.05   | 0.243           | "         | "        | "       | "        | "        | "         |       |
| Nickel   | 16.2   | 0.487           | "         | "        | "       | "        | "        | "         |       |
| Selenium | 1.02   | 0.316           | "         | "        | "       | "        | "        | "         |       |
| Silver   | 0.0486 | 0.0243          | "         | "        | "       | "        | "        | "         |       |
| Zinc     | 51.3   | 0.487           | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/14/22 11:00**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BFD0405 | 04/20/22 | 04/20/22 | EPA 7196A |       |

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

Date Sampled: **04/14/22 11:00**

| Analyte   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Calcium   | 25.5   | 0.0608          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| Magnesium | 6.00   | 0.0608          | "        | "        | "       | "        | "        | "         |       |
| Sodium    | 0.938  | 0.0608          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

**BKG01@2'**  
**2204216-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/14/22 11:00**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0434 | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/14/22 11:00**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 82.2   |                 | %     | 1        | BFD0314 | 04/15/22 | 04/15/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/14/22 11:00**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.485  | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**BKG01@2.5'**  
**2204216-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/14/22 11:04**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.381</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **04/14/22 11:04**

| Analyte         | Result        | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|---------------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>Arsenic</b>  | <b>6.08</b>   | 0.245           | mg/kg dry | 1        | BFD0316 | 04/15/22 | 04/21/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>202</b>    | 0.490           | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>0.265</b>  | 0.245           | "         | "        | "       | "        | "        | "         |       |
| <b>Copper</b>   | <b>12.9</b>   | 0.490           | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>8.25</b>   | 0.245           | "         | "        | "       | "        | "        | "         |       |
| <b>Nickel</b>   | <b>15.6</b>   | 0.490           | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>1.07</b>   | 0.319           | "         | "        | "       | "        | "        | "         |       |
| <b>Silver</b>   | <b>0.0485</b> | 0.0245          | "         | "        | "       | "        | "        | "         |       |
| <b>Zinc</b>     | <b>51.4</b>   | 0.490           | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/14/22 11:04**

| Analyte              | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| Chromium, Hexavalent | ND     | 0.30            | mg/kg dry | 1        | BFD0405 | 04/20/22 | 04/20/22 | EPA 7196A |       |

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

Date Sampled: **04/14/22 11:04**

| Analyte          | Result       | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>17.5</b>  | 0.0613          | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>5.58</b>  | 0.0613          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>0.945</b> | 0.0613          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

**BKG01@2.5'**  
**2204216-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/14/22 11:04**

| Analyte                 | Result        | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|---------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | <b>0.0504</b> | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/14/22 11:04**

| Analyte  | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | <b>81.6</b> |                 | %     | 1        | BFD0314 | 04/15/22 | 04/15/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/14/22 11:04**

| Analyte                   | Result       | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | <b>0.534</b> | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**BKG01@4'**  
**2204216-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/14/22 11:08**

| Analyte      | Result       | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|              |              | Limit     |  |       |          |         |          |          |           |       |
| <b>Boron</b> | <b>0.636</b> | 0.0100    |  | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

**Total Metals by EPA 6020B**

Date Sampled: **04/14/22 11:08**

| Analyte         | Result        | Reporting |  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------|---------------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
|                 |               | Limit     |  |           |          |         |          |          |           |       |
| <b>Arsenic</b>  | <b>7.67</b>   | 0.251     |  | mg/kg dry | 1        | BFD0316 | 04/15/22 | 04/21/22 | EPA 6020B |       |
| <b>Barium</b>   | <b>187</b>    | 0.502     |  | "         | "        | "       | "        | "        | "         |       |
| <b>Cadmium</b>  | <b>0.811</b>  | 0.251     |  | "         | "        | "       | "        | "        | "         |       |
| <b>Copper</b>   | <b>11.6</b>   | 0.502     |  | "         | "        | "       | "        | "        | "         |       |
| <b>Lead</b>     | <b>8.29</b>   | 0.251     |  | "         | "        | "       | "        | "        | "         |       |
| <b>Nickel</b>   | <b>14.2</b>   | 0.502     |  | "         | "        | "       | "        | "        | "         |       |
| <b>Selenium</b> | <b>0.973</b>  | 0.326     |  | "         | "        | "       | "        | "        | "         |       |
| <b>Silver</b>   | <b>0.0471</b> | 0.0251    |  | "         | "        | "       | "        | "        | "         |       |
| <b>Zinc</b>     | <b>50.8</b>   | 0.502     |  | "         | "        | "       | "        | "        | "         |       |

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **04/14/22 11:08**

| Analyte              | Result | Reporting |  | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|----------------------|--------|-----------|--|-----------|----------|---------|----------|----------|-----------|-------|
|                      |        | Limit     |  |           |          |         |          |          |           |       |
| Chromium, Hexavalent | ND     | 0.30      |  | mg/kg dry | 1        | BFD0405 | 04/20/22 | 04/20/22 | EPA 7196A |       |

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

Date Sampled: **04/14/22 11:08**

| Analyte          | Result      | Reporting |  | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------|--|----------|----------|---------|----------|----------|-----------|-------|
|                  |             | Limit     |  |          |          |         |          |          |           |       |
| <b>Calcium</b>   | <b>34.3</b> | 0.0627    |  | mg/L dry | 1        | BFD0595 | 04/27/22 | 05/03/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>9.04</b> | 0.0627    |  | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>2.16</b> | 0.0627    |  | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

**BKG01@4'**  
**2204216-10 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/14/22 11:08**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0848 | 0.00100         | units | 1        | BFE0043 | 05/03/22 | 05/03/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/14/22 11:08**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 79.7   |                 | %     | 1        | BFD0314 | 04/15/22 | 04/15/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/14/22 11:08**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 2.51   | 0.0100          | mmhos/cm | 1        | BFD0596 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

### 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 BFD0298 - EPA 5030 Soil MS

##### Blank (BFD0298-BLK1)

Prepared & Analyzed: 04/14/22

|   |        |        |       |        |  |      |        |  |  |  |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| 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> | 0.0376 |        | "     | 0.0400 |  | 94.0 | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0436 |        | "     | 0.0400 |  | 109  | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0447 |        | "     | 0.0400 |  | 112  | 50-150 |  |  |  |

##### LCS (BFD0298-BS1)

Prepared & Analyzed: 04/14/22

|   |        |        |       |        |  |      |        |  |  |  |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene                                 | 0.118  | 0.0020 | mg/kg | 0.100  |  | 118  | 70-130 |  |  |  |
| Toluene                                 | 0.120  | 0.0050 | "     | 0.100  |  | 120  | 70-130 |  |  |  |
| Ethylbenzene                            | 0.0858 | 0.0050 | "     | 0.100  |  | 85.8 | 70-130 |  |  |  |
| m,p-Xylene                              | 0.164  | 0.010  | "     | 0.200  |  | 82.2 | 70-130 |  |  |  |
| o-Xylene                                | 0.0843 | 0.0050 | "     | 0.100  |  | 84.3 | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.0873 | 0.0050 | "     | 0.100  |  | 87.3 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.0848 | 0.0050 | "     | 0.100  |  | 84.8 | 70-130 |  |  |  |
| Naphthalene                             | 0.0764 | 0.0038 | "     | 0.100  |  | 76.4 | 70-130 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0374 |        | "     | 0.0400 |  | 93.4 | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0441 |        | "     | 0.0400 |  | 110  | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0444 |        | "     | 0.0400 |  | 111  | 50-150 |  |  |  |

##### Matrix Spike (BFD0298-MS1)

Source: 2204216-01

Prepared & Analyzed: 04/14/22

|   |        |        |       |        |    |      |        |  |  |  |
|---|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene                                 | 0.125  | 0.0020 | mg/kg | 0.100  | ND | 125  | 70-130 |  |  |  |
| Toluene                                 | 0.125  | 0.0050 | "     | 0.100  | ND | 125  | 70-130 |  |  |  |
| Ethylbenzene                            | 0.0878 | 0.0050 | "     | 0.100  | ND | 87.8 | 70-130 |  |  |  |
| m,p-Xylene                              | 0.170  | 0.010  | "     | 0.200  | ND | 85.0 | 70-130 |  |  |  |
| o-Xylene                                | 0.0865 | 0.0050 | "     | 0.100  | ND | 86.5 | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.0910 | 0.0050 | "     | 0.100  | ND | 91.0 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.0877 | 0.0050 | "     | 0.100  | ND | 87.7 | 70-130 |  |  |  |
| Naphthalene                             | 0.0781 | 0.0038 | "     | 0.100  | ND | 78.1 | 70-130 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0378 |        | "     | 0.0400 |    | 94.6 | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0437 |        | "     | 0.0400 |    | 109  | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0448 |        | "     | 0.0400 |    | 112  | 50-150 |  |  |  |

Summit Scientific

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

Project: Fagerberg Pad  
 Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFD0299 - EPA 3550A**

**Blank (BFD0299-BLK1)**

Prepared & Analyzed: 04/14/22

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

**LCS (BFD0299-BS1)**

Prepared & Analyzed: 04/14/22

|               |     |    |       |     |      |        |  |  |  |  |
|---------------|-----|----|-------|-----|------|--------|--|--|--|--|
| C10-C28 (DRO) | 389 | 50 | mg/kg | 500 | 77.8 | 70-130 |  |  |  |  |
|---------------|-----|----|-------|-----|------|--------|--|--|--|--|

**Matrix Spike (BFD0299-MS1)**

Source: 2204216-01

Prepared & Analyzed: 04/14/22

|               |     |    |       |     |      |      |        |  |  |  |
|---------------|-----|----|-------|-----|------|------|--------|--|--|--|
| C10-C28 (DRO) | 388 | 50 | mg/kg | 500 | 11.2 | 75.3 | 70-130 |  |  |  |
|---------------|-----|----|-------|-----|------|------|--------|--|--|--|

**Matrix Spike Dup (BFD0299-MSD1)**

Source: 2204216-01

Prepared & Analyzed: 04/14/22

|               |     |    |       |     |      |      |        |       |    |  |
|---------------|-----|----|-------|-----|------|------|--------|-------|----|--|
| C10-C28 (DRO) | 387 | 50 | mg/kg | 500 | 11.2 | 75.1 | 70-130 | 0.214 | 20 |  |
|---------------|-----|----|-------|-----|------|------|--------|-------|----|--|

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFD0401 - EPA 5030 Soil MS**

**Blank (BFD0401-BLK1)**

Prepared: 04/20/22 Analyzed: 04/22/22

|   |        |         |       |        |  |      |        |  |  |  |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene                              | ND     | 0.00500 | mg/kg |        |  |      |        |  |  |  |
| Anthracene                                | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (a) anthracene                      | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (a) pyrene                          | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (b) fluoranthene                    | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (k) fluoranthene                    | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Chrysene                                  | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Dibenz (a,h) anthracene                   | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Fluoranthene                              | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Fluorene                                  | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Pyrene                                    | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| 1-Methylnaphthalene                       | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| 2-Methylnaphthalene                       | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0225 |         | "     | 0.0333 |  | 67.6 | 40-150 |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | 0.0213 |         | "     | 0.0333 |  | 63.8 | 40-150 |  |  |  |

**LCS (BFD0401-BS1)**

Prepared: 04/20/22 Analyzed: 04/22/22

|   |        |         |       |        |  |      |        |  |  |  |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene                              | 0.0303 | 0.00500 | mg/kg | 0.0333 |  | 91.0 | 31-137 |  |  |  |
| Anthracene                                | 0.0316 | 0.00500 | "     | 0.0333 |  | 94.7 | 30-120 |  |  |  |
| Benzo (a) anthracene                      | 0.0310 | 0.00500 | "     | 0.0333 |  | 93.1 | 30-120 |  |  |  |
| Benzo (a) pyrene                          | 0.0269 | 0.00500 | "     | 0.0333 |  | 80.7 | 30-120 |  |  |  |
| Benzo (b) fluoranthene                    | 0.0339 | 0.00500 | "     | 0.0333 |  | 102  | 30-120 |  |  |  |
| Benzo (k) fluoranthene                    | 0.0371 | 0.00500 | "     | 0.0333 |  | 111  | 30-120 |  |  |  |
| Chrysene                                  | 0.0289 | 0.00500 | "     | 0.0333 |  | 86.7 | 30-120 |  |  |  |
| Dibenz (a,h) anthracene                   | 0.0162 | 0.00500 | "     | 0.0333 |  | 48.6 | 30-120 |  |  |  |
| Fluoranthene                              | 0.0238 | 0.00500 | "     | 0.0333 |  | 71.5 | 30-120 |  |  |  |
| Fluorene                                  | 0.0314 | 0.00500 | "     | 0.0333 |  | 94.3 | 30-120 |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0173 | 0.00500 | "     | 0.0333 |  | 51.9 | 30-120 |  |  |  |
| Pyrene                                    | 0.0398 | 0.00500 | "     | 0.0333 |  | 120  | 35-142 |  |  |  |
| 1-Methylnaphthalene                       | 0.0237 | 0.00500 | "     | 0.0333 |  | 71.2 | 35-142 |  |  |  |
| 2-Methylnaphthalene                       | 0.0279 | 0.00500 | "     | 0.0333 |  | 83.8 | 35-142 |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0276 |         | "     | 0.0333 |  | 82.8 | 40-150 |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | 0.0256 |         | "     | 0.0333 |  | 76.9 | 40-150 |  |  |  |

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFD0401 - EPA 5030 Soil MS**

| <b>Matrix Spike (BFD0401-MS1)</b>         | <b>Source: 2204126-01</b> |         |          | <b>Prepared: 04/20/22 Analyzed: 04/22/22</b> |    |             |               |  |  |  |
|---|---------------------------|---------|----------|--|----|-------------|---------------|--|--|--|
| Acenaphthene                              | 0.0183                    | 0.00500 | mg/kg    | 0.0333                                       | ND | 55.0        | 31-137        |  |  |  |
| Anthracene                                | 0.0200                    | 0.00500 | "        | 0.0333                                       | ND | 59.9        | 30-120        |  |  |  |
| Benzo (a) anthracene                      | 0.0187                    | 0.00500 | "        | 0.0333                                       | ND | 56.2        | 30-120        |  |  |  |
| Benzo (a) pyrene                          | 0.0182                    | 0.00500 | "        | 0.0333                                       | ND | 54.6        | 30-120        |  |  |  |
| Benzo (b) fluoranthene                    | 0.0236                    | 0.00500 | "        | 0.0333                                       | ND | 70.7        | 30-120        |  |  |  |
| Benzo (k) fluoranthene                    | 0.0234                    | 0.00500 | "        | 0.0333                                       | ND | 70.3        | 30-120        |  |  |  |
| Chrysene                                  | 0.0172                    | 0.00500 | "        | 0.0333                                       | ND | 51.6        | 30-120        |  |  |  |
| Dibenz (a,h) anthracene                   | 0.0150                    | 0.00500 | "        | 0.0333                                       | ND | 44.9        | 30-120        |  |  |  |
| Fluoranthene                              | 0.0158                    | 0.00500 | "        | 0.0333                                       | ND | 47.5        | 30-120        |  |  |  |
| Fluorene                                  | 0.0196                    | 0.00500 | "        | 0.0333                                       | ND | 58.8        | 30-120        |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0221                    | 0.00500 | "        | 0.0333                                       | ND | 66.3        | 30-120        |  |  |  |
| Pyrene                                    | 0.0403                    | 0.00500 | "        | 0.0333                                       | ND | 121         | 35-142        |  |  |  |
| 1-Methylnaphthalene                       | 0.0161                    | 0.00500 | "        | 0.0333                                       | ND | 48.4        | 15-130        |  |  |  |
| 2-Methylnaphthalene                       | 0.0188                    | 0.00500 | "        | 0.0333                                       | ND | 56.4        | 15-130        |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0184</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>55.3</i> | <i>40-150</i> |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0165</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>49.5</i> | <i>40-150</i> |  |  |  |

| <b>Matrix Spike Dup (BFD0401-MSD1)</b>    | <b>Source: 2204126-01</b> |         |          | <b>Prepared: 04/20/22 Analyzed: 04/22/22</b> |    |             |               |      |    |  |
|---|---------------------------|---------|----------|--|----|-------------|---------------|------|----|--|
| Acenaphthene                              | 0.0194                    | 0.00500 | mg/kg    | 0.0333                                       | ND | 58.1        | 31-137        | 5.53 | 30 |  |
| Anthracene                                | 0.0210                    | 0.00500 | "        | 0.0333                                       | ND | 62.9        | 30-120        | 4.92 | 30 |  |
| Benzo (a) anthracene                      | 0.0200                    | 0.00500 | "        | 0.0333                                       | ND | 60.1        | 30-120        | 6.72 | 30 |  |
| Benzo (a) pyrene                          | 0.0219                    | 0.00500 | "        | 0.0333                                       | ND | 65.8        | 30-120        | 18.5 | 30 |  |
| Benzo (b) fluoranthene                    | 0.0251                    | 0.00500 | "        | 0.0333                                       | ND | 75.4        | 30-120        | 6.45 | 30 |  |
| Benzo (k) fluoranthene                    | 0.0280                    | 0.00500 | "        | 0.0333                                       | ND | 84.1        | 30-120        | 17.8 | 30 |  |
| Chrysene                                  | 0.0186                    | 0.00500 | "        | 0.0333                                       | ND | 55.8        | 30-120        | 7.76 | 30 |  |
| Dibenz (a,h) anthracene                   | 0.0145                    | 0.00500 | "        | 0.0333                                       | ND | 43.6        | 30-120        | 3.13 | 30 |  |
| Fluoranthene                              | 0.0173                    | 0.00500 | "        | 0.0333                                       | ND | 51.9        | 30-120        | 8.94 | 30 |  |
| Fluorene                                  | 0.0206                    | 0.00500 | "        | 0.0333                                       | ND | 61.9        | 30-120        | 5.14 | 30 |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0174                    | 0.00500 | "        | 0.0333                                       | ND | 52.3        | 30-120        | 23.5 | 30 |  |
| Pyrene                                    | 0.0399                    | 0.00500 | "        | 0.0333                                       | ND | 120         | 35-142        | 1.00 | 30 |  |
| 1-Methylnaphthalene                       | 0.0180                    | 0.00500 | "        | 0.0333                                       | ND | 53.9        | 15-130        | 10.8 | 50 |  |
| 2-Methylnaphthalene                       | 0.0197                    | 0.00500 | "        | 0.0333                                       | ND | 59.0        | 15-130        | 4.53 | 50 |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0178</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>53.4</i> | <i>40-150</i> |      |    |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0181</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>54.3</i> | <i>40-150</i> |      |    |  |

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

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

**Summit Scientific**

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

**Batch BFD0308 - EPA 3050B**

|  |       |        |      |                                       |       |                                       |        |      |    |  |
|--|-------|--------|------|---------------------------------------|-------|---------------------------------------|--------|------|----|--|
| <b>Blank (BFD0308-BLK1)</b>            |       |        |      | Prepared: 04/15/22 Analyzed: 04/16/22 |       |                                       |        |      |    |  |
| Boron                                  | ND    | 0.0100 | mg/L |                                       |       |                                       |        |      |    |  |
| <b>LCS (BFD0308-BS1)</b>               |       |        |      | Prepared: 04/15/22 Analyzed: 04/16/22 |       |                                       |        |      |    |  |
| Boron                                  | 5.16  | 0.0100 | mg/L | 5.00                                  | 103   | 80-120                                |        |      |    |  |
| <b>Duplicate (BFD0308-DUP1)</b>        |       |        |      | <b>Source: 2204141-01</b>             |       | Prepared: 04/15/22 Analyzed: 04/16/22 |        |      |    |  |
| Boron                                  | 0.192 | 0.0100 | mg/L | 0.200                                 |       |                                       | 3.78   | 20   |    |  |
| <b>Matrix Spike (BFD0308-MS1)</b>      |       |        |      | <b>Source: 2204141-01</b>             |       | Prepared: 04/15/22 Analyzed: 04/16/22 |        |      |    |  |
| Boron                                  | 5.48  | 0.0100 | mg/L | 5.00                                  | 0.200 | 106                                   | 75-125 |      |    |  |
| <b>Matrix Spike Dup (BFD0308-MSD1)</b> |       |        |      | <b>Source: 2204141-01</b>             |       | Prepared: 04/15/22 Analyzed: 04/16/22 |        |      |    |  |
| Boron                                  | 5.20  | 0.0100 | mg/L | 5.00                                  | 0.200 | 100                                   | 75-125 | 5.23 | 25 |  |

**Batch BFD0555 - EPA 3050B**

|                                   |       |        |      |                                       |       |                                       |        |    |  |  |
|-----------------------------------|-------|--------|------|---------------------------------------|-------|---------------------------------------|--------|----|--|--|
| <b>Blank (BFD0555-BLK1)</b>       |       |        |      | Prepared: 04/26/22 Analyzed: 05/02/22 |       |                                       |        |    |  |  |
| Boron                             | ND    | 0.0100 | mg/L |                                       |       |                                       |        |    |  |  |
| <b>LCS (BFD0555-BS1)</b>          |       |        |      | Prepared: 04/26/22 Analyzed: 05/02/22 |       |                                       |        |    |  |  |
| Boron                             | 5.34  | 0.0100 | mg/L | 5.00                                  | 107   | 80-120                                |        |    |  |  |
| <b>Duplicate (BFD0555-DUP1)</b>   |       |        |      | <b>Source: 2204216-01</b>             |       | Prepared: 04/26/22 Analyzed: 05/02/22 |        |    |  |  |
| Boron                             | 0.369 | 0.0100 | mg/L | 0.378                                 |       |                                       | 2.40   | 20 |  |  |
| <b>Matrix Spike (BFD0555-MS1)</b> |       |        |      | <b>Source: 2204216-01</b>             |       | Prepared: 04/26/22 Analyzed: 05/02/22 |        |    |  |  |
| Boron                             | 5.15  | 0.0100 | mg/L | 5.00                                  | 0.378 | 95.5                                  | 75-125 |    |  |  |

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

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

**Summit Scientific**

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

**Batch BFD0555 - EPA 3050B**

**Matrix Spike Dup (BFD0555-MSD1)**

**Source: 2204216-01**

Prepared: 04/26/22 Analyzed: 05/02/22

|       |      |        |      |      |       |      |        |      |    |  |
|-------|------|--------|------|------|-------|------|--------|------|----|--|
| Boron | 5.21 | 0.0100 | mg/L | 5.00 | 0.378 | 96.6 | 75-125 | 1.01 | 25 |  |
|-------|------|--------|------|------|-------|------|--------|------|----|--|

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

**Total Metals by EPA 6020B - Quality Control**

**Summit Scientific**

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

**Batch BFD0316 - EPA 3050B**

**Blank (BFD0316-BLK1)**

Prepared: 04/15/22 Analyzed: 04/21/22

|          |    |        |           |  |  |  |  |  |  |  |
|----------|----|--------|-----------|--|--|--|--|--|--|--|
| Arsenic  | ND | 0.200  | mg/kg wet |  |  |  |  |  |  |  |
| Barium   | ND | 0.400  | "         |  |  |  |  |  |  |  |
| Cadmium  | ND | 0.200  | "         |  |  |  |  |  |  |  |
| Copper   | ND | 0.400  | "         |  |  |  |  |  |  |  |
| Lead     | ND | 0.200  | "         |  |  |  |  |  |  |  |
| Nickel   | ND | 0.400  | "         |  |  |  |  |  |  |  |
| Selenium | ND | 0.260  | "         |  |  |  |  |  |  |  |
| Silver   | ND | 0.0200 | "         |  |  |  |  |  |  |  |
| Zinc     | ND | 0.400  | "         |  |  |  |  |  |  |  |

**LCS (BFD0316-BS1)**

Prepared: 04/15/22 Analyzed: 04/21/22

|          |      |        |           |      |      |        |
|----------|------|--------|-----------|------|------|--------|
| Arsenic  | 35.2 | 0.200  | mg/kg wet | 40.0 | 88.0 | 80-120 |
| Barium   | 33.1 | 0.400  | "         | 40.0 | 82.8 | 80-120 |
| Cadmium  | 1.76 | 0.200  | "         | 2.00 | 87.9 | 80-120 |
| Copper   | 32.9 | 0.400  | "         | 40.0 | 82.3 | 80-120 |
| Lead     | 16.5 | 0.200  | "         | 20.0 | 82.6 | 80-120 |
| Nickel   | 32.4 | 0.400  | "         | 40.0 | 80.9 | 80-120 |
| Selenium | 3.55 | 0.260  | "         | 4.00 | 88.9 | 80-120 |
| Silver   | 1.66 | 0.0200 | "         | 2.00 | 82.9 | 80-120 |
| Zinc     | 36.2 | 0.400  | "         | 40.0 | 90.4 | 80-120 |

**Duplicate (BFD0316-DUP1)**

Source: 2204183-01

Prepared: 04/15/22 Analyzed: 04/21/22

|          |        |        |           |        |        |    |
|----------|--------|--------|-----------|--------|--------|----|
| Arsenic  | 4.97   | 0.239  | mg/kg dry | 5.04   | 1.57   | 20 |
| Barium   | 105    | 0.477  | "         | 105    | 0.129  | 20 |
| Cadmium  | 0.223  | 0.239  | "         | 0.224  | 0.435  | 20 |
| Copper   | 9.36   | 0.477  | "         | 9.28   | 0.918  | 20 |
| Lead     | 8.18   | 0.239  | "         | 8.18   | 0.0701 | 20 |
| Nickel   | 11.2   | 0.477  | "         | 11.0   | 1.32   | 20 |
| Selenium | 0.899  | 0.310  | "         | 0.898  | 0.165  | 20 |
| Silver   | 0.0200 | 0.0239 | "         | 0.0221 | 10.2   | 20 |
| Zinc     | 38.9   | 0.477  | "         | 38.4   | 1.34   | 20 |

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

Project: Fagerberg Pad

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BFD0316 - EPA 3050B**

| <b>Matrix Spike (BFD0316-MS1)</b> | <b>Source: 2204183-01</b> |        |           | <b>Prepared: 04/15/22 Analyzed: 04/21/22</b> |        |      |        |  |  |  |  |       |
|-----------------------------------|---------------------------|--------|-----------|--|--------|------|--------|--|--|--|--|-------|
| Arsenic                           | 48.1                      | 0.239  | mg/kg dry | 47.7   | 5.04   | 90.3 | 75-125 |  |  |  |  |       |
| Barium                            | 142                       | 0.477  | "         | 47.7   | 105    | 77.6 | 75-125 |  |  |  |  |       |
| Cadmium                           | 2.49                      | 0.239  | "         | 2.39   | 0.224  | 94.9 | 75-125 |  |  |  |  |       |
| Copper                            | 43.4                      | 0.477  | "         | 47.7   | 9.28   | 71.6 | 75-125 |  |  |  |  | QM-05 |
| Lead                              | 22.9                      | 0.239  | "         | 23.9   | 8.18   | 61.8 | 75-125 |  |  |  |  | QM-05 |
| Nickel                            | 48.9                      | 0.477  | "         | 47.7   | 11.0   | 79.3 | 75-125 |  |  |  |  |       |
| Selenium                          | 4.52                      | 0.310  | "         | 4.77   | 0.898  | 75.9 | 75-125 |  |  |  |  |       |
| Silver                            | 2.10                      | 0.0239 | "         | 2.39   | 0.0221 | 87.0 | 75-125 |  |  |  |  |       |
| Zinc                              | 74.2                      | 0.477  | "         | 47.7   | 38.4   | 75.1 | 75-125 |  |  |  |  |       |

| <b>Matrix Spike Dup (BFD0316-MSD1)</b> | <b>Source: 2204183-01</b> |        |           | <b>Prepared: 04/15/22 Analyzed: 04/21/22</b> |        |      |        |       |    |  |  |       |
|--|---------------------------|--------|-----------|--|--------|------|--------|-------|----|--|--|-------|
| Arsenic                                | 49.6                      | 0.239  | mg/kg dry | 47.7   | 5.04   | 93.4 | 75-125 | 2.99  | 25 |  |  |       |
| Barium                                 | 144                       | 0.477  | "         | 47.7   | 105    | 81.0 | 75-125 | 1.13  | 25 |  |  |       |
| Cadmium                                | 2.04                      | 0.239  | "         | 2.39   | 0.224  | 76.3 | 75-125 | 19.6  | 25 |  |  |       |
| Copper                                 | 45.0                      | 0.477  | "         | 47.7   | 9.28   | 74.8 | 75-125 | 3.49  | 25 |  |  | QM-05 |
| Lead                                   | 23.1                      | 0.239  | "         | 23.9   | 8.18   | 62.7 | 75-125 | 0.907 | 25 |  |  | QM-05 |
| Nickel                                 | 50.6                      | 0.477  | "         | 47.7   | 11.0   | 83.0 | 75-125 | 3.57  | 25 |  |  |       |
| Selenium                               | 4.65                      | 0.310  | "         | 4.77   | 0.898  | 78.6 | 75-125 | 2.78  | 25 |  |  |       |
| Silver                                 | 2.12                      | 0.0239 | "         | 2.39   | 0.0221 | 88.0 | 75-125 | 1.17  | 25 |  |  |       |
| Zinc                                   | 76.6                      | 0.477  | "         | 47.7   | 38.4   | 80.0 | 75-125 | 3.06  | 25 |  |  |       |

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: Fagerberg Pad

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BFD0405 - 3060A Mod**

**Blank (BFD0405-BLK1)**

Prepared & Analyzed: 04/20/22

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BFD0405-BS1)**

Prepared & Analyzed: 04/20/22

Chromium, Hexavalent      29.4      0.30    mg/kg wet      25.0      117      80-120

**Duplicate (BFD0405-DUP1)**

**Source: 2204188-01**

Prepared & Analyzed: 04/20/22

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BFD0405-MS1)**

**Source: 2204188-01**

Prepared & Analyzed: 04/20/22

Chromium, Hexavalent      26.2      0.30    mg/kg dry      25.6      ND      102      75-125

**Matrix Spike Dup (BFD0405-MSD1)**

**Source: 2204188-01**

Prepared & Analyzed: 04/20/22

Chromium, Hexavalent      28.3      0.30    mg/kg dry      25.6      ND      110      75-125      7.71      20

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

**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 BFD0374 - General Preparation**

**Blank (BFD0374-BLK1)**

Prepared: 04/19/22 Analyzed: 04/22/22

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

**LCS (BFD0374-BS1)**

Prepared: 04/19/22 Analyzed: 04/22/22

|           |      |        |          |      |     |        |
|-----------|------|--------|----------|------|-----|--------|
| Calcium   | 5.65 | 0.0500 | mg/L wet | 5.00 | 113 | 70-130 |
| Magnesium | 5.67 | 0.0500 | "        | 5.00 | 113 | 70-130 |
| Sodium    | 5.25 | 0.0500 | "        | 5.00 | 105 | 70-130 |

**Batch BFD0595 - General Preparation**

**Blank (BFD0595-BLK1)**

Prepared: 04/27/22 Analyzed: 05/03/22

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

**LCS (BFD0595-BS1)**

Prepared: 04/27/22 Analyzed: 05/03/22

|           |      |        |          |      |     |        |
|-----------|------|--------|----------|------|-----|--------|
| Calcium   | 6.14 | 0.0500 | mg/L wet | 5.00 | 123 | 70-130 |
| Magnesium | 5.72 | 0.0500 | "        | 5.00 | 114 | 70-130 |
| Sodium    | 6.18 | 0.0500 | "        | 5.00 | 124 | 70-130 |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

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

**Summit Scientific**

| Analyte | Result | Reporting |       | Spike<br>Level | Source |      | %REC   |     | RPD   |  | Notes |
|---------|--------|-----------|-------|----------------|--------|------|--------|-----|-------|--|-------|
|         |        | Limit     | Units |                | Result | %REC | Limits | RPD | Limit |  |       |

**Batch BFD0314 - General Preparation**

| <b>Duplicate (BFD0314-DUP1)</b> |      | <b>Source: 2204170-01</b> |   |  | <b>Prepared &amp; Analyzed: 04/15/22</b> |  |       |    |
|---------------------------------|------|---------------------------|---|--|--|--|-------|----|
| % Solids                        | 88.1 |                           | % |  | 88.3                                     |  | 0.194 | 20 |

**Batch BFD0422 - General Preparation**

| <b>Duplicate (BFD0422-DUP1)</b> |      | <b>Source: 2204123-02</b> |   |  | <b>Prepared &amp; Analyzed: 04/20/22</b> |  |       |    |
|---------------------------------|------|---------------------------|---|--|--|--|-------|----|
| % Solids                        | 92.4 |                           | % |  | 92.9                                     |  | 0.577 | 20 |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

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

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

**Batch BFD0419 - General Preparation**

**Blank (BFD0419-BLK1)**

Prepared & Analyzed: 04/20/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFD0419-BS1)**

Prepared & Analyzed: 04/20/22

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

**Duplicate (BFD0419-DUP1)**

Source: 2204141-01

Prepared & Analyzed: 04/20/22

Specific Conductance (EC) 3.82 0.0100 mmhos/cm 3.84 0.627 20

**Batch BFD0596 - General Preparation**

**Blank (BFD0596-BLK1)**

Prepared: 04/27/22 Analyzed: 04/28/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFD0596-BS1)**

Prepared: 04/27/22 Analyzed: 04/28/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BFD0596-DUP1)**

Source: 2204123-02

Prepared: 04/27/22 Analyzed: 04/28/22

Specific Conductance (EC) 2.34 0.0100 mmhos/cm 2.49 6.30 20

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/24/22 07:29

**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 BFD0420 - General Preparation**

**LCS (BFD0420-BS1)**

Prepared & Analyzed: 04/20/22

pH 9.02 pH Units 9.18 98.3 95-105

**Duplicate (BFD0420-DUP1)**

Source: 2204141-01

Prepared & Analyzed: 04/20/22

pH 7.69 pH Units 7.66 0.391 20

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
05/24/22 07:29

### Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
- 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 23, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Fagerberg Pad

Work Order #2204229

Enclosed are the results of analyses for samples received by Summit Scientific on 04/15/22 17:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury

President



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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:53

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| SS23@7'   | 2204229-01    | Soil   | 04/15/22 11:20 | 04/15/22 17:30 |
| GW01      | 2204229-02    | Water  | 04/15/22 11:25 | 04/15/22 17:30 |

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.*

2204229

# Summit Scientific

S<sub>2</sub>

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: *Fagerberg Pad*  
 Sampler Name: *Boyce Goldrude* 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 | GBTEXN - 8260B     | TPH - (C6 - C36) | pH, EC, SAR | Boron - HWS | VOC - 915 | PAH - 915 | Metals - 915 |                      |                              |   |  |
| 1  | <i>SS23@7'</i>     | <i>4-15-22</i> | <i>1120</i>  | <i>3</i>        |              |                  | <i>X</i> |       |          |      |                |       |                    | <i>X</i>         | <i>X</i>    |             |           |           |              |                      | <i>1,2,4 &amp; 1,2,5 TMB</i> | pH, EC, SAR by saturated paste                    |  |
| 2  | <i>GW01</i>        | <i>4</i>       | <i>1125</i>  | <i>3</i>        |              |                  | <i>X</i> |       | <i>X</i> |      |                |       |                    | <i>X</i>         |             |             |           |           |              |                      |                              | <i>just BTEXN, 1,2,4 &amp; 1,3,5 TMB for GW01</i> |  |
| 3  |                    |                |              |                 |              |                  |          |       |          |      |                |       |                    |                  |             |             |           |           |              |                      |                              |   |  |
| 4  |                    |                |              |                 |              |                  |          |       |          |      |                |       |                    |                  |             |             |           |           |              |                      |                              |   |  |
| 5  |                    |                |              |                 |              |                  |          |       |          |      |                |       |                    |                  |             |             |           |           |              |                      |                              |   |  |
| 6  |                    |                |              |                 |              |                  |          |       |          |      |                |       |                    |                  |             |             |           |           |              |                      |                              |   |  |
| 7  |                    |                |              |                 |              |                  |          |       |          |      |                |       |                    |                  |             |             |           |           |              |                      |                              |   |  |
| 8  |                    |                |              |                 |              |                  |          |       |          |      |                |       |                    |                  |             |             |           |           |              |                      |                              |   |  |
| 9  |                    |                |              |                 |              |                  |          |       |          |      |                |       |                    |                  |             |             |           |           |              |                      |                              |   |  |
| 10 |                    |                |              |                 |              |                  |          |       |          |      |                |       |                    |                  |             |             |           |           |              |                      |                              |   |  |

|   |                                |                                       |                                |   |                   |
|---|--------------------------------|---------------------------------------|--------------------------------|---|-------------------|
| Relinquished by: <i>Boyce Goldrude</i>    | Date/Time: <i>4/15/22 1610</i> | Received by: <i>Tasman's Lock Box</i> | Date/Time: <i>4/15/22 1610</i> | Turn Around Time (Check)  | Notes:            |
|   |                                |                                       |                                | Same Day <input checked="" type="checkbox"/> 72 hours                               |                   |
|   |                                |                                       |                                | 24 hours <input type="checkbox"/> Standard <input type="checkbox"/>                 |                   |
| Relinquished by: <i>Tasman's Lock Box</i> | Date/Time: <i>4/15/22 1730</i> | Received by: <i>[Signature]</i>       | Date/Time: <i>4/15/22 1730</i> | 48 hours <input type="checkbox"/>   | Sample Integrity: |
|   |                                |                                       |                                | Temperature Upon Receipt: <i>5.6</i>  |                   |
| Relinquished by:                          | Date/Time:                     | Received by:                          | Date/Time:                     | Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                   |

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2204229

Client: Bechtasman Client Project ID: Fagerberg Pad

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

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C)  Thermometer #

|   | Yes | No | N/A | Comments (if any) |
|---|-----|----|-----|-------------------|
| If samples require cooling, is the temperature < 6 °C <sup>(1)</sup> ?<br><b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.  | -   |    |     | on ICE            |
| Were all samples received intact <sup>(1)</sup> ?   | -   |    |     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | -   |    |     |                   |
| If custody seals are present, are they intact <sup>(1)</sup> ?  | -   |    |     |                   |
| Are samples due within 48 hours present?  | -   |    |     | Same day          |
| Are water samples with short hold times present?<br>Note the short hold analysis in the comments column<br>- pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen |     |    | -   |                   |
| Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?   | -   |    |     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | -   |    |     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | -   |    |     |                   |
| Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?   | -   |    |     |                   |
| For volatiles in water – is there headspace present? If yes, contact client and note in narrative.  |     | -  |     |                   |
| Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?<br>Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.  |     |    | -   |                   |
| If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?<br>Record the pH in Comments.  |     |    | -   |                   |
| If dissolved metals are requested, were samples field filtered?   |     |    | -   |                   |
| Additional Comments (if any):   |     |    |     |                   |
|   |     |    |     |                   |

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

[Signature]  
Custodian Printed Name

41522  
Date/Time



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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:53

**SS23@7'**  
**2204229-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/15/22 11:20**

| Analyte                     | Result        | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|---------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND            | 0.0020          | mg/kg | 1        | BFD0329 | 04/15/22 | 04/16/22 | EPA 8260B |       |
| <b>Toluene</b>              | <b>0.0087</b> | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| Ethylbenzene                | ND            | 0.0050          | "     | "        | "       | "        | "        | "         |       |
| <b>Xylenes (total)</b>      | <b>0.011</b>  | 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: **04/15/22 11:20**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0367 | 91.8 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0436 | 109 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0464 | 116 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/15/22 11:20**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0330 | 04/15/22 | 04/16/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/15/22 11:20**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 12.4   | 98.9 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:53

**SS23@7'**  
**2204229-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/15/22 11:20**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/23/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/15/22 11:20**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0189 | 56.7 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0197 | 59.0 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/15/22 11:20**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.372</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

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

Date Sampled: **04/15/22 11:20**

| Analyte          | Result       | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|--------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>13.1</b>  | 0.0659          | mg/L dry | 1        | BFD0497 | 04/22/22 | 04/27/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>3.64</b>  | 0.0659          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>0.989</b> | 0.0659          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Pad  
 Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:53

**SS23@7'**  
**2204229-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/15/22 11:20**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0623 | 0.00100         | units | 1        | BFD0607 | 04/27/22 | 04/27/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/15/22 11:20**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 75.9   |                 | %     | 1        | BFD0481 | 04/22/22 | 04/22/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/15/22 11:20**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.51   | 0.0100          | mmhos/cm | 1        | BFD0501 | 04/22/22 | 04/25/22 | EPA 120.1 |       |

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

Project: Fagerberg Pad

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:53

**GW01**  
**2204229-02 (Water)**

**Summit Scientific**

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

Date Sampled: **04/15/22 11:25**

| Analyte                       | Result     | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-------------------------------|------------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                               |            | Limit     |  |       |          |         |          |          |           |       |
| <b>Benzene</b>                | <b>120</b> | 1.0       |  | ug/l  | 1        | BFD0328 | 04/15/22 | 04/15/22 | EPA 8260B |       |
| <b>Toluene</b>                | <b>690</b> | 100       |  | "     | 100      | "       | "        | 04/15/22 | "         |       |
| <b>Ethylbenzene</b>           | <b>84</b>  | 1.0       |  | "     | 1        | "       | "        | 04/15/22 | "         |       |
| <b>Xylenes (total)</b>        | <b>700</b> | 2.0       |  | "     | "        | "       | "        | 04/15/22 | "         |       |
| <b>Naphthalene</b>            | <b>23</b>  | 1.0       |  | "     | "        | "       | "        | 04/15/22 | "         |       |
| <b>1,2,4-Trimethylbenzene</b> | <b>150</b> | 1.0       |  | "     | "        | "       | "        | "        | "         |       |
| <b>1,3,5-Trimethylbenzene</b> | <b>56</b>  | 1.0       |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/15/22 11:25**

| Analyte                                 | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|   |        | Limit     |  |        |          |       |          |          |        |       |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 13.2   | 99.2 %    |  | 23-173 |          | "     | "        | "        | "      |       |
| <i>Surrogate: Toluene-d8</i>            | 14.8   | 111 %     |  | 20-170 |          | "     | "        | "        | "      |       |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 15.8   | 119 %     |  | 21-167 |          | "     | "        | "        | "      |       |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:53

### 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 BFD0328 - EPA 5030 Water MS

##### Blank (BFD0328-BLK1)

Prepared & Analyzed: 04/15/22

|   |      |     |      |      |  |      |  |        |  |  |  |
|---|------|-----|------|------|--|------|--|--------|--|--|--|
| 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 | "    |      |  |      |  |        |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 12.2 |     | "    | 13.3 |  | 91.7 |  | 23-173 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 14.9 |     | "    | 13.3 |  | 112  |  | 20-170 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 15.4 |     | "    | 13.3 |  | 116  |  | 21-167 |  |  |  |

##### LCS (BFD0328-BS1)

Prepared: 04/15/22 Analyzed: 04/16/22

|   |      |     |      |      |  |      |  |        |  |  |  |
|---|------|-----|------|------|--|------|--|--------|--|--|--|
| Benzene                                 | 36.8 | 1.0 | ug/l | 33.3 |  | 110  |  | 51-132 |  |  |  |
| Toluene                                 | 33.0 | 1.0 | "    | 33.3 |  | 99.0 |  | 51-138 |  |  |  |
| Ethylbenzene                            | 32.1 | 1.0 | "    | 33.3 |  | 96.3 |  | 58-146 |  |  |  |
| m,p-Xylene                              | 61.8 | 2.0 | "    | 66.7 |  | 92.7 |  | 57-144 |  |  |  |
| o-Xylene                                | 30.9 | 1.0 | "    | 33.3 |  | 92.7 |  | 53-146 |  |  |  |
| Naphthalene                             | 27.2 | 1.0 | "    | 33.3 |  | 81.5 |  | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene                  | 33.2 | 1.0 | "    | 33.3 |  | 99.6 |  | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene                  | 31.8 | 1.0 | "    | 33.3 |  | 95.4 |  | 70-130 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 12.6 |     | "    | 13.3 |  | 94.4 |  | 23-173 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 15.0 |     | "    | 13.3 |  | 113  |  | 20-170 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 15.2 |     | "    | 13.3 |  | 114  |  | 21-167 |  |  |  |

##### Matrix Spike (BFD0328-MS1)

Source: 2204226-03

Prepared: 04/15/22 Analyzed: 04/16/22

|   |      |     |      |      |    |      |  |        |  |  |  |
|---|------|-----|------|------|----|------|--|--------|--|--|--|
| Benzene                                 | 38.0 | 1.0 | ug/l | 33.3 | ND | 114  |  | 34-141 |  |  |  |
| Toluene                                 | 39.1 | 1.0 | "    | 33.3 | ND | 117  |  | 27-151 |  |  |  |
| Ethylbenzene                            | 31.4 | 1.0 | "    | 33.3 | ND | 94.1 |  | 29-160 |  |  |  |
| m,p-Xylene                              | 60.6 | 2.0 | "    | 66.7 | ND | 91.0 |  | 20-166 |  |  |  |
| o-Xylene                                | 30.6 | 1.0 | "    | 33.3 | ND | 91.7 |  | 33-159 |  |  |  |
| Naphthalene                             | 27.1 | 1.0 | "    | 33.3 | ND | 81.4 |  | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene                  | 32.9 | 1.0 | "    | 33.3 | ND | 98.8 |  | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene                  | 31.5 | 1.0 | "    | 33.3 | ND | 94.4 |  | 70-130 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 13.0 |     | "    | 13.3 |    | 97.7 |  | 23-173 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 15.3 |     | "    | 13.3 |    | 115  |  | 20-170 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 15.2 |     | "    | 13.3 |    | 114  |  | 21-167 |  |  |  |

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:53

**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 BFD0328 - EPA 5030 Water MS**

**Matrix Spike Dup (BFD0328-MSD1)**

Source: 2204226-03

Prepared: 04/15/22 Analyzed: 04/16/22

|                                  |      |     |      |      |    |      |        |       |    |  |
|----------------------------------|------|-----|------|------|----|------|--------|-------|----|--|
| Benzene                          | 37.3 | 1.0 | ug/l | 33.3 | ND | 112  | 34-141 | 1.62  | 30 |  |
| Toluene                          | 38.4 | 1.0 | "    | 33.3 | ND | 115  | 27-151 | 1.86  | 30 |  |
| Ethylbenzene                     | 31.1 | 1.0 | "    | 33.3 | ND | 93.3 | 29-160 | 0.864 | 30 |  |
| m,p-Xylene                       | 60.3 | 2.0 | "    | 66.7 | ND | 90.4 | 20-166 | 0.595 | 30 |  |
| o-Xylene                         | 31.2 | 1.0 | "    | 33.3 | ND | 93.5 | 33-159 | 1.94  | 30 |  |
| Naphthalene                      | 27.8 | 1.0 | "    | 33.3 | ND | 83.3 | 70-130 | 2.33  | 30 |  |
| 1,2,4-Trimethylbenzene           | 32.8 | 1.0 | "    | 33.3 | ND | 98.3 | 70-130 | 0.518 | 30 |  |
| 1,3,5-Trimethylbenzene           | 31.2 | 1.0 | "    | 33.3 | ND | 93.5 | 70-130 | 0.958 | 30 |  |
| Surrogate: 1,2-Dichloroethane-d4 | 12.2 |     | "    | 13.3 |    | 91.3 | 23-173 |       |    |  |
| Surrogate: Toluene-d8            | 14.7 |     | "    | 13.3 |    | 110  | 20-170 |       |    |  |
| Surrogate: 4-Bromofluorobenzene  | 15.0 |     | "    | 13.3 |    | 112  | 21-167 |       |    |  |

**Batch BFD0329 - EPA 5030 Soil MS**

**Blank (BFD0329-BLK1)**

Prepared: 04/15/22 Analyzed: 04/16/22

|                                  |        |        |       |        |  |      |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene                          | ND     | 0.0020 | mg/kg |        |  |      |        |  |  |  |
| Toluene                          | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| Ethylbenzene                     | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| Xylenes (total)                  | ND     | 0.010  | "     |        |  |      |        |  |  |  |
| 1,2,4-Trimethylbenzene           | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| 1,3,5-Trimethylbenzene           | ND     | 0.0050 | "     |        |  |      |        |  |  |  |
| Naphthalene                      | ND     | 0.0038 | "     |        |  |      |        |  |  |  |
| Gasoline Range Hydrocarbons      | ND     | 0.50   | "     |        |  |      |        |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0380 |        | "     | 0.0400 |  | 95.0 | 50-150 |  |  |  |
| Surrogate: Toluene-d8            | 0.0442 |        | "     | 0.0400 |  | 111  | 50-150 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0462 |        | "     | 0.0400 |  | 116  | 50-150 |  |  |  |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:53

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

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

**Batch BFD0329 - EPA 5030 Soil MS**

**LCS (BFD0329-BS1)**

Prepared: 04/15/22 Analyzed: 04/16/22

|                                  |        |        |       |        |  |      |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene                          | 0.109  | 0.0020 | mg/kg | 0.100  |  | 109  | 70-130 |  |  |  |
| Toluene                          | 0.107  | 0.0050 | "     | 0.100  |  | 107  | 70-130 |  |  |  |
| Ethylbenzene                     | 0.0873 | 0.0050 | "     | 0.100  |  | 87.3 | 70-130 |  |  |  |
| m,p-Xylene                       | 0.168  | 0.010  | "     | 0.200  |  | 83.9 | 70-130 |  |  |  |
| o-Xylene                         | 0.0861 | 0.0050 | "     | 0.100  |  | 86.1 | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene           | 0.0880 | 0.0050 | "     | 0.100  |  | 88.0 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene           | 0.0847 | 0.0050 | "     | 0.100  |  | 84.7 | 70-130 |  |  |  |
| Naphthalene                      | 0.0731 | 0.0038 | "     | 0.100  |  | 73.1 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0368 |        | "     | 0.0400 |  | 92.0 | 50-150 |  |  |  |
| Surrogate: Toluene-d8            | 0.0446 |        | "     | 0.0400 |  | 112  | 50-150 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0450 |        | "     | 0.0400 |  | 112  | 50-150 |  |  |  |

**Matrix Spike (BFD0329-MS1)**

Source: 2204229-01

Prepared: 04/15/22 Analyzed: 04/16/22

|                                  |        |        |       |        |         |      |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|---------|------|--------|--|--|--|
| Benzene                          | 0.107  | 0.0020 | mg/kg | 0.100  | ND      | 107  | 70-130 |  |  |  |
| Toluene                          | 0.139  | 0.0050 | "     | 0.100  | 0.00870 | 130  | 70-130 |  |  |  |
| Ethylbenzene                     | 0.0875 | 0.0050 | "     | 0.100  | ND      | 87.5 | 70-130 |  |  |  |
| m,p-Xylene                       | 0.171  | 0.010  | "     | 0.200  | 0.00771 | 81.5 | 70-130 |  |  |  |
| o-Xylene                         | 0.0866 | 0.0050 | "     | 0.100  | 0.00312 | 83.5 | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene           | 0.0895 | 0.0050 | "     | 0.100  | 0.00348 | 86.0 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene           | 0.0865 | 0.0050 | "     | 0.100  | ND      | 86.5 | 70-130 |  |  |  |
| Naphthalene                      | 0.0705 | 0.0038 | "     | 0.100  | ND      | 70.5 | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0372 |        | "     | 0.0400 |         | 93.0 | 50-150 |  |  |  |
| Surrogate: Toluene-d8            | 0.0458 |        | "     | 0.0400 |         | 114  | 50-150 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0463 |        | "     | 0.0400 |         | 116  | 50-150 |  |  |  |

**Matrix Spike Dup (BFD0329-MSD1)**

Source: 2204229-01

Prepared: 04/15/22 Analyzed: 04/16/22

|                                  |        |        |       |        |         |      |        |       |    |
|----------------------------------|--------|--------|-------|--------|---------|------|--------|-------|----|
| Benzene                          | 0.104  | 0.0020 | mg/kg | 0.100  | ND      | 104  | 70-130 | 2.10  | 30 |
| Toluene                          | 0.137  | 0.0050 | "     | 0.100  | 0.00870 | 128  | 70-130 | 1.26  | 30 |
| Ethylbenzene                     | 0.0857 | 0.0050 | "     | 0.100  | ND      | 85.7 | 70-130 | 2.08  | 30 |
| m,p-Xylene                       | 0.168  | 0.010  | "     | 0.200  | 0.00771 | 80.0 | 70-130 | 1.81  | 30 |
| o-Xylene                         | 0.0852 | 0.0050 | "     | 0.100  | 0.00312 | 82.1 | 70-130 | 1.61  | 30 |
| 1,2,4-Trimethylbenzene           | 0.0905 | 0.0050 | "     | 0.100  | 0.00348 | 87.1 | 70-130 | 1.17  | 30 |
| 1,3,5-Trimethylbenzene           | 0.0858 | 0.0050 | "     | 0.100  | ND      | 85.8 | 70-130 | 0.836 | 30 |
| Naphthalene                      | 0.0729 | 0.0038 | "     | 0.100  | ND      | 72.9 | 70-130 | 3.39  | 30 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0380 |        | "     | 0.0400 |         | 95.1 | 50-150 |       |    |
| Surrogate: Toluene-d8            | 0.0462 |        | "     | 0.0400 |         | 115  | 50-150 |       |    |
| Surrogate: 4-Bromofluorobenzene  | 0.0468 |        | "     | 0.0400 |         | 117  | 50-150 |       |    |

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

Project: Fagerberg Pad

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:53

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BFD0330 - EPA 3550A**

**Blank (BFD0330-BLK1)**

Prepared: 04/15/22 Analyzed: 04/16/22

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

**LCS (BFD0330-BS1)**

Prepared: 04/15/22 Analyzed: 04/16/22

|               |     |    |       |     |      |      |        |  |  |  |
|---------------|-----|----|-------|-----|------|------|--------|--|--|--|
| C10-C28 (DRO) | 463 | 50 | mg/kg | 500 | 29.9 | 81.5 | 70-130 |  |  |  |
|---------------|-----|----|-------|-----|------|------|--------|--|--|--|

**Matrix Spike (BFD0330-MS1)**

Source: 2204229-01

Prepared: 04/15/22 Analyzed: 04/16/22

|               |     |    |       |     |      |      |        |  |  |  |
|---------------|-----|----|-------|-----|------|------|--------|--|--|--|
| C10-C28 (DRO) | 437 | 50 | mg/kg | 500 | 29.9 | 81.5 | 70-130 |  |  |  |
|---------------|-----|----|-------|-----|------|------|--------|--|--|--|

**Matrix Spike Dup (BFD0330-MSD1)**

Source: 2204229-01

Prepared: 04/15/22 Analyzed: 04/16/22

|               |     |    |       |     |      |      |        |      |    |  |
|---------------|-----|----|-------|-----|------|------|--------|------|----|--|
| C10-C28 (DRO) | 525 | 50 | mg/kg | 500 | 29.9 | 99.0 | 70-130 | 18.2 | 20 |  |
|---------------|-----|----|-------|-----|------|------|--------|------|----|--|

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:53

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFD0401 - EPA 5030 Soil MS**

**Blank (BFD0401-BLK1)**

Prepared: 04/20/22 Analyzed: 04/22/22

|   |        |         |       |        |  |      |        |  |  |  |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene                              | ND     | 0.00500 | mg/kg |        |  |      |        |  |  |  |
| Anthracene                                | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (a) anthracene                      | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (a) pyrene                          | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (b) fluoranthene                    | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (k) fluoranthene                    | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Chrysene                                  | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Dibenz (a,h) anthracene                   | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Fluoranthene                              | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Fluorene                                  | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Pyrene                                    | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| 1-Methylnaphthalene                       | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| 2-Methylnaphthalene                       | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0225 |         | "     | 0.0333 |  | 67.6 | 40-150 |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | 0.0213 |         | "     | 0.0333 |  | 63.8 | 40-150 |  |  |  |

**LCS (BFD0401-BS1)**

Prepared: 04/20/22 Analyzed: 04/22/22

|   |        |         |       |        |  |      |        |  |  |  |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene                              | 0.0303 | 0.00500 | mg/kg | 0.0333 |  | 91.0 | 31-137 |  |  |  |
| Anthracene                                | 0.0316 | 0.00500 | "     | 0.0333 |  | 94.7 | 30-120 |  |  |  |
| Benzo (a) anthracene                      | 0.0310 | 0.00500 | "     | 0.0333 |  | 93.1 | 30-120 |  |  |  |
| Benzo (a) pyrene                          | 0.0269 | 0.00500 | "     | 0.0333 |  | 80.7 | 30-120 |  |  |  |
| Benzo (b) fluoranthene                    | 0.0339 | 0.00500 | "     | 0.0333 |  | 102  | 30-120 |  |  |  |
| Benzo (k) fluoranthene                    | 0.0371 | 0.00500 | "     | 0.0333 |  | 111  | 30-120 |  |  |  |
| Chrysene                                  | 0.0289 | 0.00500 | "     | 0.0333 |  | 86.7 | 30-120 |  |  |  |
| Dibenz (a,h) anthracene                   | 0.0162 | 0.00500 | "     | 0.0333 |  | 48.6 | 30-120 |  |  |  |
| Fluoranthene                              | 0.0238 | 0.00500 | "     | 0.0333 |  | 71.5 | 30-120 |  |  |  |
| Fluorene                                  | 0.0314 | 0.00500 | "     | 0.0333 |  | 94.3 | 30-120 |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0173 | 0.00500 | "     | 0.0333 |  | 51.9 | 30-120 |  |  |  |
| Pyrene                                    | 0.0398 | 0.00500 | "     | 0.0333 |  | 120  | 35-142 |  |  |  |
| 1-Methylnaphthalene                       | 0.0237 | 0.00500 | "     | 0.0333 |  | 71.2 | 35-142 |  |  |  |
| 2-Methylnaphthalene                       | 0.0279 | 0.00500 | "     | 0.0333 |  | 83.8 | 35-142 |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0276 |         | "     | 0.0333 |  | 82.8 | 40-150 |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | 0.0256 |         | "     | 0.0333 |  | 76.9 | 40-150 |  |  |  |

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: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:53

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFD0401 - EPA 5030 Soil MS**

| <b>Matrix Spike (BFD0401-MS1)</b>         | <b>Source: 2204126-01</b> |         |          | <b>Prepared: 04/20/22 Analyzed: 04/22/22</b> |    |             |               |  |  |  |
|---|---------------------------|---------|----------|--|----|-------------|---------------|--|--|--|
| Acenaphthene                              | 0.0183                    | 0.00500 | mg/kg    | 0.0333                                       | ND | 55.0        | 31-137        |  |  |  |
| Anthracene                                | 0.0200                    | 0.00500 | "        | 0.0333                                       | ND | 59.9        | 30-120        |  |  |  |
| Benzo (a) anthracene                      | 0.0187                    | 0.00500 | "        | 0.0333                                       | ND | 56.2        | 30-120        |  |  |  |
| Benzo (a) pyrene                          | 0.0182                    | 0.00500 | "        | 0.0333                                       | ND | 54.6        | 30-120        |  |  |  |
| Benzo (b) fluoranthene                    | 0.0236                    | 0.00500 | "        | 0.0333                                       | ND | 70.7        | 30-120        |  |  |  |
| Benzo (k) fluoranthene                    | 0.0234                    | 0.00500 | "        | 0.0333                                       | ND | 70.3        | 30-120        |  |  |  |
| Chrysene                                  | 0.0172                    | 0.00500 | "        | 0.0333                                       | ND | 51.6        | 30-120        |  |  |  |
| Dibenz (a,h) anthracene                   | 0.0150                    | 0.00500 | "        | 0.0333                                       | ND | 44.9        | 30-120        |  |  |  |
| Fluoranthene                              | 0.0158                    | 0.00500 | "        | 0.0333                                       | ND | 47.5        | 30-120        |  |  |  |
| Fluorene                                  | 0.0196                    | 0.00500 | "        | 0.0333                                       | ND | 58.8        | 30-120        |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0221                    | 0.00500 | "        | 0.0333                                       | ND | 66.3        | 30-120        |  |  |  |
| Pyrene                                    | 0.0403                    | 0.00500 | "        | 0.0333                                       | ND | 121         | 35-142        |  |  |  |
| 1-Methylnaphthalene                       | 0.0161                    | 0.00500 | "        | 0.0333                                       | ND | 48.4        | 15-130        |  |  |  |
| 2-Methylnaphthalene                       | 0.0188                    | 0.00500 | "        | 0.0333                                       | ND | 56.4        | 15-130        |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0184</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>55.3</i> | <i>40-150</i> |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0165</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>49.5</i> | <i>40-150</i> |  |  |  |

| <b>Matrix Spike Dup (BFD0401-MSD1)</b>    | <b>Source: 2204126-01</b> |         |          | <b>Prepared: 04/20/22 Analyzed: 04/22/22</b> |    |             |               |      |    |  |
|---|---------------------------|---------|----------|--|----|-------------|---------------|------|----|--|
| Acenaphthene                              | 0.0194                    | 0.00500 | mg/kg    | 0.0333                                       | ND | 58.1        | 31-137        | 5.53 | 30 |  |
| Anthracene                                | 0.0210                    | 0.00500 | "        | 0.0333                                       | ND | 62.9        | 30-120        | 4.92 | 30 |  |
| Benzo (a) anthracene                      | 0.0200                    | 0.00500 | "        | 0.0333                                       | ND | 60.1        | 30-120        | 6.72 | 30 |  |
| Benzo (a) pyrene                          | 0.0219                    | 0.00500 | "        | 0.0333                                       | ND | 65.8        | 30-120        | 18.5 | 30 |  |
| Benzo (b) fluoranthene                    | 0.0251                    | 0.00500 | "        | 0.0333                                       | ND | 75.4        | 30-120        | 6.45 | 30 |  |
| Benzo (k) fluoranthene                    | 0.0280                    | 0.00500 | "        | 0.0333                                       | ND | 84.1        | 30-120        | 17.8 | 30 |  |
| Chrysene                                  | 0.0186                    | 0.00500 | "        | 0.0333                                       | ND | 55.8        | 30-120        | 7.76 | 30 |  |
| Dibenz (a,h) anthracene                   | 0.0145                    | 0.00500 | "        | 0.0333                                       | ND | 43.6        | 30-120        | 3.13 | 30 |  |
| Fluoranthene                              | 0.0173                    | 0.00500 | "        | 0.0333                                       | ND | 51.9        | 30-120        | 8.94 | 30 |  |
| Fluorene                                  | 0.0206                    | 0.00500 | "        | 0.0333                                       | ND | 61.9        | 30-120        | 5.14 | 30 |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0174                    | 0.00500 | "        | 0.0333                                       | ND | 52.3        | 30-120        | 23.5 | 30 |  |
| Pyrene                                    | 0.0399                    | 0.00500 | "        | 0.0333                                       | ND | 120         | 35-142        | 1.00 | 30 |  |
| 1-Methylnaphthalene                       | 0.0180                    | 0.00500 | "        | 0.0333                                       | ND | 53.9        | 15-130        | 10.8 | 50 |  |
| 2-Methylnaphthalene                       | 0.0197                    | 0.00500 | "        | 0.0333                                       | ND | 59.0        | 15-130        | 4.53 | 50 |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0178</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>53.4</i> | <i>40-150</i> |      |    |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0181</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>54.3</i> | <i>40-150</i> |      |    |  |

Summit Scientific

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

Project: Fagerberg Pad  
 Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:53

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

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

**Batch BFD0555 - EPA 3050B**

|  |       |        |      |                                       |       |                                       |        |      |    |  |
|--|-------|--------|------|---------------------------------------|-------|---------------------------------------|--------|------|----|--|
| <b>Blank (BFD0555-BLK1)</b>            |       |        |      | Prepared: 04/26/22 Analyzed: 05/02/22 |       |                                       |        |      |    |  |
| Boron                                  | ND    | 0.0100 | mg/L |                                       |       |                                       |        |      |    |  |
| <b>LCS (BFD0555-BS1)</b>               |       |        |      | Prepared: 04/26/22 Analyzed: 05/02/22 |       |                                       |        |      |    |  |
| Boron                                  | 5.34  | 0.0100 | mg/L | 5.00                                  |       | 107                                   | 80-120 |      |    |  |
| <b>Duplicate (BFD0555-DUP1)</b>        |       |        |      | Source: 2204216-01                    |       | Prepared: 04/26/22 Analyzed: 05/02/22 |        |      |    |  |
| Boron                                  | 0.369 | 0.0100 | mg/L |                                       | 0.378 |                                       |        | 2.40 | 20 |  |
| <b>Matrix Spike (BFD0555-MS1)</b>      |       |        |      | Source: 2204216-01                    |       | Prepared: 04/26/22 Analyzed: 05/02/22 |        |      |    |  |
| Boron                                  | 5.15  | 0.0100 | mg/L | 5.00                                  | 0.378 | 95.5                                  | 75-125 |      |    |  |
| <b>Matrix Spike Dup (BFD0555-MSD1)</b> |       |        |      | Source: 2204216-01                    |       | Prepared: 04/26/22 Analyzed: 05/02/22 |        |      |    |  |
| Boron                                  | 5.21  | 0.0100 | mg/L | 5.00                                  | 0.378 | 96.6                                  | 75-125 | 1.01 | 25 |  |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:53

**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 BFD0497 - General Preparation**

**Blank (BFD0497-BLK1)**

Prepared: 04/22/22 Analyzed: 04/27/22

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

**LCS (BFD0497-BS1)**

Prepared: 04/22/22 Analyzed: 04/27/22

|           |      |        |          |      |     |        |  |  |  |  |
|-----------|------|--------|----------|------|-----|--------|--|--|--|--|
| Calcium   | 5.45 | 0.0500 | mg/L wet | 5.00 | 109 | 70-130 |  |  |  |  |
| Magnesium | 5.61 | 0.0500 | "        | 5.00 | 112 | 70-130 |  |  |  |  |
| Sodium    | 5.61 | 0.0500 | "        | 5.00 | 112 | 70-130 |  |  |  |  |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:53

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

**Summit Scientific**

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

**Batch BFD0481 - General Preparation**

**Duplicate (BFD0481-DUP1)**

**Source: 2204225-01**

**Prepared & Analyzed: 04/22/22**

|          |      |  |   |  |      |  |  |      |    |  |
|----------|------|--|---|--|------|--|--|------|----|--|
| % Solids | 89.3 |  | % |  | 88.1 |  |  | 1.35 | 20 |  |
|----------|------|--|---|--|------|--|--|------|----|--|

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:53

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

**Summit Scientific**

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

**Batch BFD0501 - General Preparation**

**Blank (BFD0501-BLK1)**

Prepared: 04/22/22 Analyzed: 04/25/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFD0501-BS1)**

Prepared: 04/22/22 Analyzed: 04/25/22

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BFD0501-DUP1)**

Source: 2204126-01

Prepared: 04/22/22 Analyzed: 04/25/22

Specific Conductance (EC) 3.94 0.0100 mmhos/cm 4.11 4.28 20

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:53

### 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 23, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Fagerberg Pad

Work Order #2204273

Enclosed are the results of analyses for samples received by Summit Scientific on 04/18/22 17:14. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', written in a cursive style.

Paul Shrewsbury

President



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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| SS24@4'   | 2204273-01    | Soil   | 04/18/22 12:50 | 04/18/22 17:14 |
| SS25@7'   | 2204273-02    | Soil   | 04/18/22 12:55 | 04/18/22 17:14 |
| SS26@4'   | 2204273-03    | Soil   | 04/18/22 13:00 | 04/18/22 17:14 |
| SS27@7'   | 2204273-04    | Soil   | 04/18/22 13:05 | 04/18/22 17:14 |
| SS28@4'   | 2204273-05    | Soil   | 04/18/22 13:10 | 04/18/22 17:14 |
| SS29@7'   | 2204273-06    | Soil   | 04/18/22 13:15 | 04/18/22 17:14 |
| SS30@4'   | 2204273-07    | Soil   | 04/18/22 13:20 | 04/18/22 17:14 |
| SS31@7'   | 2204273-08    | Soil   | 04/18/22 13:25 | 04/18/22 17:14 |

Summit Scientific

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# Summit Scientific

2204273

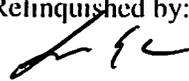
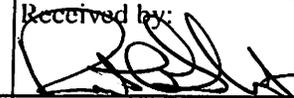
S<sub>2</sub>

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

Page 1 of 1

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: Fagerberg Pad  
Sampler Name: Sam Anderson Project Number:

| 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              | BTEXN - 8260B | TPH - (C6 - C36) | 1,2,4 & 1,3,5-TMB | Boron - HWS | pH, EC, SAR |                      |                                |
| 1  | SS24 e 4'          | 4/14/22      | 1250         | 3               |              |                  | X    |       |        | X    |                |                    | X             | X                | X                 |             |             |                      | pH, EC, SAR by saturated paste |
| 2  | SS25 e 7'          |              | 1255         | 3               |              |                  |      |       |        |      |                |                    | X             | X                | X                 |             |             |                      |                                |
| 3  | SS26 e 4'          |              | 1300         | 3               |              |                  |      |       |        |      |                |                    | X             | X                | X                 |             |             |                      |                                |
| 4  | SS27 e 7'          |              | 1305         | 3               |              |                  |      |       |        |      |                |                    | X             | X                | X                 |             |             |                      |                                |
| 5  | SS28 e 4'          |              | 1310         | 3               |              |                  |      |       |        |      |                |                    | X             | X                | X                 |             |             |                      |                                |
| 6  | SS29 e 7'          |              | 1315         | 3               |              |                  |      |       |        |      |                |                    | X             | X                | X                 |             |             |                      |                                |
| 7  | SS30 e 4'          |              | 1320         | 3               |              |                  |      |       |        |      |                |                    | X             | X                | X                 |             |             |                      |                                |
| 8  | SS31 e 7'          |              | 1325         | 3               |              |                  |      |       |        |      |                |                    | X             | X                | X                 |             |             |                      |                                |
| 9  |                    |              |              |                 |              |                  |      |       |        |      |                |                    |               |                  |                   |             |             |                      |                                |
| 10 |                    |              |              |                 |              |                  |      |       |        |      |                |                    |               |                  |                   |             |             |                      |                                |

|   |                         |  |                         |   |                   |
|---|-------------------------|--|-------------------------|---|-------------------|
| Relinquished by:  | Date/Time:              | Received by: Tasman's Lock Box   | Date/Time:              | Turn Around Time (Check)  | Notes:            |
|   |                         |  |                         | Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>      |                   |
|   |                         |  |                         | 24 hours <input type="checkbox"/> Standard <input type="checkbox"/>                 |                   |
| Relinquished by: Tasman's Lock Box  | Date/Time: 4/18/22 1714 | Received by:  | Date/Time: 4/18/22 1714 | 48 hours <input type="checkbox"/>   | Sample Integrity: |
| Relinquished by:  | Date/Time:              | Received by:   | Date/Time:              | Temperature Upon Receipt: 3.6   |                   |
|   |                         |  |                         | Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                   |

S<sub>2</sub>

2204273

S2 Work Order# \_\_\_\_\_

Sample Receipt Checklist

Client: Poc / Hasman Client Project ID: Fagerberg Pad

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

-

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C)  Thermometer #

|   | Yes | No | N/A | Comments (if any) |
|---|-----|----|-----|-------------------|
| If samples require cooling, is the temperature < 6 °C <sup>(1)</sup> ?<br><b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.  | -   |    |     | on ICE            |
| Were all samples received intact <sup>(1)</sup> ?   | -   |    |     |                   |
| Was adequate sample volume provided <sup>(1)</sup> ?  | -   |    |     |                   |
| If custody seals are present, are they intact <sup>(1)</sup> ?  | -   |    |     |                   |
| Are samples due within 48 hours present?  | -   |    |     | Same day          |
| Are water samples with short hold times present?<br>Note the short hold analysis in the comments column<br>- pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen |     |    | -   |                   |
| Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?   | -   |    |     |                   |
| Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?   | -   |    |     |                   |
| Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?   | -   |    |     |                   |
| Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?   | -   |    |     |                   |
| For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>   |     |    | -   |                   |
| Are samples preserved that require preservation <b>(excluding cooling)</b> <sup>(1)</sup> ?<br>Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.   |     |    | -   |                   |
| If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?<br>Record the pH in Comments.  |     |    | -   |                   |
| If dissolved metals are requested, were samples field filtered?   |     |    | -   |                   |
| <u>Additional Comments (if any):</u>  |     |    |     |                   |
|   |     |    |     |                   |
| <b>(1) If NO, then contact the client before proceeding with analysis and note in case narrative.</b>   |     |    |     |                   |

Custodian Printed Name

41822  
Date/Time



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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS24@4'**  
**2204273-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/18/22 12:50**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BFD0360 | 04/18/22 | 04/18/22 | 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: **04/18/22 12:50**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0436 | 109 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0406 | 101 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0396 | 98.9 %    |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/18/22 12:50**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BFD0361 | 04/18/22 | 04/18/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/18/22 12:50**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 11.3   | 90.5 %    |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS24@4'**  
**2204273-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/18/22 12:50**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/23/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/18/22 12:50**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0162 | 48.7 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0178 | 53.4 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/18/22 12:50**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.495</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

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

Date Sampled: **04/18/22 12:50**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>27.2</b> | 0.0618          | mg/L dry | 1        | BFD0602 | 04/27/22 | 05/04/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>4.16</b> | 0.0618          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1.41</b> | 0.0618          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Pad  
 Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:55

**SS24@4'**  
**2204273-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/18/22 12:50**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0665 | 0.00100         | units | 1        | BFE0077 | 05/04/22 | 05/04/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/18/22 12:50**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 80.9   |                 | %     | 1        | BFD0527 | 04/25/22 | 04/27/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/18/22 12:50**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 2.03   | 0.0100          | mmhos/cm | 1        | BFD0604 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS25@7'**  
**2204273-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/18/22 12:55**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFD0360 | 04/18/22 | 04/18/22 | 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: **04/18/22 12:55**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0417 | 104 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0399 | 99.7 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0401 | 100 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/18/22 12:55**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0361 | 04/18/22 | 04/18/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/18/22 12:55**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 11.0   | 87.8 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS25@7'**  
**2204273-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/18/22 12:55**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/23/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/18/22 12:55**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0148 | 44.4 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0167 | 50.0 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/18/22 12:55**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.425</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

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

Date Sampled: **04/18/22 12:55**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>20.7</b> | 0.0659          | mg/L dry | 1        | BFD0602 | 04/27/22 | 05/04/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>2.38</b> | 0.0659          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1.19</b> | 0.0659          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

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: Fagerberg Pad

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:55

**SS25@7'**  
**2204273-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/18/22 12:55**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0660 | 0.00100         | units | 1        | BFE0077 | 05/04/22 | 05/04/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/18/22 12:55**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 75.9   |                 | %     | 1        | BFD0527 | 04/25/22 | 04/27/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/18/22 12:55**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.35   | 0.0100          | mmhos/cm | 1        | BFD0604 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

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: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS26@4'**  
**2204273-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/18/22 13:00**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFD0360 | 04/18/22 | 04/18/22 | 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: **04/18/22 13:00**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0348 | 86.9 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0480 | 120 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0483 | 121 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/18/22 13:00**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0361 | 04/18/22 | 04/18/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/18/22 13:00**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 10.3   | 82.4 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS26@4'**  
**2204273-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/18/22 13:00**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/23/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/18/22 13:00**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0181 | 54.3 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0200 | 60.1 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/18/22 13:00**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.611</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

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

Date Sampled: **04/18/22 13:00**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>43.8</b> | 0.0618          | mg/L dry | 1        | BFD0602 | 04/27/22 | 05/04/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>4.40</b> | 0.0618          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1.29</b> | 0.0618          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:55

**SS26@4'**  
**2204273-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/18/22 13:00**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0497 | 0.00100         | units | 1        | BFE0077 | 05/04/22 | 05/04/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/18/22 13:00**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 81.0   |                 | %     | 1        | BFD0527 | 04/25/22 | 04/27/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/18/22 13:00**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 2.13   | 0.0100          | mmhos/cm | 1        | BFD0604 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

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: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS27@7'**  
**2204273-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/18/22 13:05**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFD0360 | 04/18/22 | 04/18/22 | 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: **04/18/22 13:05**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0374 | 93.4 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0480 | 120 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0475 | 119 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/18/22 13:05**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0361 | 04/18/22 | 04/18/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/18/22 13:05**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 10.4   | 83.0 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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



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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS27@7'**  
**2204273-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/18/22 13:05**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/23/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/18/22 13:05**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0192 | 57.5 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0201 | 60.2 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/18/22 13:05**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.429</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

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

Date Sampled: **04/18/22 13:05**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>16.8</b> | 0.0613          | mg/L dry | 1        | BFD0602 | 04/27/22 | 05/04/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>2.42</b> | 0.0613          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1.21</b> | 0.0613          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

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: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:55

**SS27@7'**  
**2204273-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/18/22 13:05**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0731 | 0.00100         | units | 1        | BFE0077 | 05/04/22 | 05/04/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/18/22 13:05**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 81.6   |                 | %     | 1        | BFD0527 | 04/25/22 | 04/27/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/18/22 13:05**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.08   | 0.0100          | mmhos/cm | 1        | BFD0604 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS28@4'**  
**2204273-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/18/22 13:10**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFD0360 | 04/18/22 | 04/18/22 | 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: **04/18/22 13:10**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0373 | 93.2 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0474 | 118 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0482 | 120 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/18/22 13:10**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0361 | 04/18/22 | 04/18/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/18/22 13:10**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 10.2   | 81.7 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS28@4'**  
**2204273-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/18/22 13:10**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/23/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/18/22 13:10**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0189 | 56.8 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0198 | 59.5 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/18/22 13:10**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.466</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

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

Date Sampled: **04/18/22 13:10**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>59.6</b> | 0.0615          | mg/L dry | 1        | BFD0602 | 04/27/22 | 05/04/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>4.22</b> | 0.0615          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1.11</b> | 0.0615          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:55

**SS28@4'**  
**2204273-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/18/22 13:10**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0375 | 0.00100         | units | 1        | BFE0077 | 05/04/22 | 05/04/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/18/22 13:10**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 81.3   |                 | %     | 1        | BFD0527 | 04/25/22 | 04/27/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/18/22 13:10**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.826  | 0.0100          | mmhos/cm | 1        | BFD0604 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS29@7'**  
**2204273-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/18/22 13:15**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFD0360 | 04/18/22 | 04/18/22 | 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: **04/18/22 13:15**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0381 | 95.2 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0474 | 119 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0467 | 117 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/18/22 13:15**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0361 | 04/18/22 | 04/18/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/18/22 13:15**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 10.7   | 85.4 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS29@7'**  
**2204273-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/18/22 13:15**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/23/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/18/22 13:15**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0156 | 46.9 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0172 | 51.6 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/18/22 13:15**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.477</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

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

Date Sampled: **04/18/22 13:15**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>38.4</b> | 0.0628          | mg/L dry | 1        | BFD0602 | 04/27/22 | 05/04/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>4.75</b> | 0.0628          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1.73</b> | 0.0628          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:55

**SS29@7'**  
**2204273-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/18/22 13:15**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0701 | 0.00100         | units | 1        | BFE0077 | 05/04/22 | 05/04/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/18/22 13:15**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 79.6   |                 | %     | 1        | BFD0527 | 04/25/22 | 04/27/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/18/22 13:15**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 1.03   | 0.0100          | mmhos/cm | 1        | BFD0604 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS30@4'**  
**2204273-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/18/22 13:20**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFD0360 | 04/18/22 | 04/18/22 | 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: **04/18/22 13:20**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0368 | 92.0 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0476 | 119 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0483 | 121 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/18/22 13:20**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0361 | 04/18/22 | 04/18/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/18/22 13:20**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 10.4   | 83.0 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS30@4'**  
**2204273-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/18/22 13:20**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/23/22 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/18/22 13:20**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0187 | 56.2 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0156 | 46.7 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/18/22 13:20**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.522</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

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

Date Sampled: **04/18/22 13:20**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>97.3</b> | 0.0620          | mg/L dry | 1        | BFD0602 | 04/27/22 | 05/04/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>5.82</b> | 0.0620          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>1.58</b> | 0.0620          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Pad  
 Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:55

**SS30@4'**  
**2204273-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/18/22 13:20**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 0.0421 | 0.00100         | units | 1        | BFE0077 | 05/04/22 | 05/04/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/18/22 13:20**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 80.7   |                 | %     | 1        | BFD0527 | 04/25/22 | 04/27/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/18/22 13:20**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 2.06   | 0.0100          | mmhos/cm | 1        | BFD0604 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Pad  
Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS31@7'**  
**2204273-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/18/22 13:25**

| Analyte                     | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Benzene                     | ND     | 0.0020          | mg/kg | 1        | BFD0360 | 04/18/22 | 04/18/22 | 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: **04/18/22 13:25**

| Analyte                          | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 1,2-Dichloroethane-d4 | 0.0383 | 95.7 %          | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0470 | 118 %           | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0475 | 119 %           | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/18/22 13:25**

| Analyte       | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| C10-C28 (DRO) | ND     | 50              | mg/kg | 1        | BFD0361 | 04/18/22 | 04/18/22 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50              | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **04/18/22 13:25**

| Analyte                | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: o-Terphenyl | 10.6   | 84.8 %          | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**SS31@7'**  
**2204273-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **04/18/22 13:25**

| Analyte              | Result         | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|----------------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND             | 0.00500         | mg/kg | 1        | BFD0401 | 04/20/22 | 04/23/22 | EPA 8270D SIM |       |
| <b>Chrysene</b>      | <b>0.00614</b> | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND             | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **04/18/22 13:25**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0217 | 65.1 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0157 | 47.0 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **04/18/22 13:25**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.465</b> | 0.0100          | mg/L  | 1        | BFD0555 | 04/26/22 | 05/02/22 | EPA 6020B |       |

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

Date Sampled: **04/18/22 13:25**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>24.0</b> | 0.0608          | mg/L dry | 1        | BFD0602 | 04/27/22 | 05/04/22 | EPA 6020B |       |
| <b>Magnesium</b> | <b>6.05</b> | 0.0608          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>3.83</b> | 0.0608          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:55

**SS31@7'**  
**2204273-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **04/18/22 13:25**

| Analyte                 | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | <b>0.181</b> | 0.00100         | units | 1        | BFE0077 | 05/04/22 | 05/04/22 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/18/22 13:25**

| Analyte  | Result      | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|-------------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | <b>82.2</b> |                 | %     | 1        | BFD0527 | 04/25/22 | 04/27/22 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **04/18/22 13:25**

| Analyte                   | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | <b>3.76</b> | 0.0100          | mmhos/cm | 1        | BFD0604 | 04/27/22 | 04/28/22 | EPA 120.1 |       |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

### 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 BFD0360 - EPA 5030 Soil MS

##### Blank (BFD0360-BLK1)

Prepared & Analyzed: 04/18/22

|                                  |        |        |       |        |  |      |  |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--|--------|--|--|--|
| Benzene                          | ND     | 0.0020 | mg/kg |        |  |      |  |        |  |  |  |
| Toluene                          | ND     | 0.0050 | "     |        |  |      |  |        |  |  |  |
| Ethylbenzene                     | ND     | 0.0050 | "     |        |  |      |  |        |  |  |  |
| Xylenes (total)                  | ND     | 0.010  | "     |        |  |      |  |        |  |  |  |
| 1,2,4-Trimethylbenzene           | ND     | 0.0050 | "     |        |  |      |  |        |  |  |  |
| 1,3,5-Trimethylbenzene           | ND     | 0.0050 | "     |        |  |      |  |        |  |  |  |
| Naphthalene                      | ND     | 0.0038 | "     |        |  |      |  |        |  |  |  |
| Gasoline Range Hydrocarbons      | ND     | 0.50   | "     |        |  |      |  |        |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0412 |        | "     | 0.0400 |  | 103  |  | 50-150 |  |  |  |
| Surrogate: Toluene-d8            | 0.0397 |        | "     | 0.0400 |  | 99.2 |  | 50-150 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0396 |        | "     | 0.0400 |  | 99.1 |  | 50-150 |  |  |  |

##### LCS (BFD0360-BS1)

Prepared & Analyzed: 04/18/22

|                                  |        |        |       |        |  |      |  |        |  |  |  |
|----------------------------------|--------|--------|-------|--------|--|------|--|--------|--|--|--|
| Benzene                          | 0.0591 | 0.0020 | mg/kg | 0.0750 |  | 78.8 |  | 70-130 |  |  |  |
| Toluene                          | 0.0619 | 0.0050 | "     | 0.0750 |  | 82.5 |  | 70-130 |  |  |  |
| Ethylbenzene                     | 0.0609 | 0.0050 | "     | 0.0750 |  | 81.2 |  | 70-130 |  |  |  |
| m,p-Xylene                       | 0.127  | 0.010  | "     | 0.150  |  | 84.6 |  | 70-130 |  |  |  |
| o-Xylene                         | 0.0614 | 0.0050 | "     | 0.0750 |  | 81.9 |  | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene           | 0.0660 | 0.0050 | "     | 0.0750 |  | 88.0 |  | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene           | 0.0627 | 0.0050 | "     | 0.0750 |  | 83.6 |  | 70-130 |  |  |  |
| Naphthalene                      | 0.0713 | 0.0038 | "     | 0.0750 |  | 95.1 |  | 70-130 |  |  |  |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0416 |        | "     | 0.0400 |  | 104  |  | 50-150 |  |  |  |
| Surrogate: Toluene-d8            | 0.0400 |        | "     | 0.0400 |  | 100  |  | 50-150 |  |  |  |
| Surrogate: 4-Bromofluorobenzene  | 0.0423 |        | "     | 0.0400 |  | 106  |  | 50-150 |  |  |  |

##### Matrix Spike (BFD0360-MS1)

Source: 2204271-01

Prepared: 04/18/22 Analyzed: 04/19/22

|                                  |        |        |       |        |       |      |  |        |  |  |          |
|----------------------------------|--------|--------|-------|--------|-------|------|--|--------|--|--|----------|
| Benzene                          | 0.214  | 0.0020 | mg/kg | 0.0750 | 0.157 | 76.4 |  | 70-130 |  |  |          |
| Toluene                          | 2.33   | 0.0050 | "     | 0.0750 | 2.74  | NR   |  | 70-130 |  |  | E, QM-07 |
| Ethylbenzene                     | 0.818  | 0.0050 | "     | 0.0750 | 1.19  | NR   |  | 70-130 |  |  | E, QM-07 |
| m,p-Xylene                       | 2.72   | 0.010  | "     | 0.150  | 3.96  | NR   |  | 70-130 |  |  | E, QM-07 |
| o-Xylene                         | 1.83   | 0.0050 | "     | 0.0750 | 2.55  | NR   |  | 70-130 |  |  | E, QM-07 |
| 1,2,4-Trimethylbenzene           | 2.06   | 0.0050 | "     | 0.0750 | 2.75  | NR   |  | 70-130 |  |  | E, QM-07 |
| 1,3,5-Trimethylbenzene           | 0.811  | 0.0050 | "     | 0.0750 | 0.899 | NR   |  | 70-130 |  |  | E, QM-07 |
| Naphthalene                      | 0.228  | 0.0038 | "     | 0.0750 | 0.177 | 67.4 |  | 70-130 |  |  | QM-07    |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0458 |        | "     | 0.0400 |       | 115  |  | 50-150 |  |  |          |
| Surrogate: Toluene-d8            | 0.0296 |        | "     | 0.0400 |       | 74.0 |  | 50-150 |  |  |          |
| Surrogate: 4-Bromofluorobenzene  | 0.0791 |        | "     | 0.0400 |       | 198  |  | 50-150 |  |  | S-02     |

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:55

**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 BFD0360 - EPA 5030 Soil MS**

| <b>Matrix Spike Dup (BFD0360-MSD1)</b>  | <b>Source: 2204271-01</b> |        |          | <b>Prepared: 04/18/22 Analyzed: 04/19/22</b> |       |             |               |      |    |             |
|---|---------------------------|--------|----------|--|-------|-------------|---------------|------|----|-------------|
| Benzene                                 | 0.338                     | 0.0020 | mg/kg    | 0.0750                                       | 0.157 | 242         | 70-130        | 45.0 | 30 | QM-07       |
| Toluene                                 | 2.65                      | 0.0050 | "        | 0.0750                                       | 2.74  | NR          | 70-130        | 13.1 | 30 | E, QM-07    |
| Ethylbenzene                            | 0.905                     | 0.0050 | "        | 0.0750                                       | 1.19  | NR          | 70-130        | 10.1 | 30 | E, QM-07    |
| m,p-Xylene                              | 3.22                      | 0.010  | "        | 0.150  | 3.96  | NR          | 70-130        | 16.9 | 30 | E, QM-07    |
| o-Xylene                                | 1.92                      | 0.0050 | "        | 0.0750                                       | 2.55  | NR          | 70-130        | 4.89 | 30 | E, QM-07    |
| 1,2,4-Trimethylbenzene                  | 2.13                      | 0.0050 | "        | 0.0750                                       | 2.75  | NR          | 70-130        | 3.34 | 30 | E, QM-07    |
| 1,3,5-Trimethylbenzene                  | 0.790                     | 0.0050 | "        | 0.0750                                       | 0.899 | NR          | 70-130        | 2.69 | 30 | E, QM-07    |
| Naphthalene                             | 0.246                     | 0.0038 | "        | 0.0750                                       | 0.177 | 91.3        | 70-130        | 7.57 | 30 |             |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0403</i>             |        | <i>"</i> | <i>0.0400</i>                                |       | <i>101</i>  | <i>50-150</i> |      |    |             |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0246</i>             |        | <i>"</i> | <i>0.0400</i>                                |       | <i>61.6</i> | <i>50-150</i> |      |    |             |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0836</i>             |        | <i>"</i> | <i>0.0400</i>                                |       | <i>209</i>  | <i>50-150</i> |      |    | <i>S-02</i> |

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: Fagerberg Pad  
 Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:55

**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 BFD0361 - EPA 3550A**

**Blank (BFD0361-BLK1)**

Prepared & Analyzed: 04/18/22

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

**LCS (BFD0361-BS1)**

Prepared: 04/18/22 Analyzed: 04/19/22

|               |     |    |       |     |     |      |        |  |  |  |
|---------------|-----|----|-------|-----|-----|------|--------|--|--|--|
| C10-C28 (DRO) | 462 | 50 | mg/kg | 500 | 294 | 92.3 | 70-130 |  |  |  |
|---------------|-----|----|-------|-----|-----|------|--------|--|--|--|

**Matrix Spike (BFD0361-MS1)**

Source: 2204271-01

Prepared: 04/18/22 Analyzed: 04/19/22

|               |     |    |       |     |     |     |        |  |  |  |
|---------------|-----|----|-------|-----|-----|-----|--------|--|--|--|
| C10-C28 (DRO) | 806 | 50 | mg/kg | 500 | 294 | 102 | 70-130 |  |  |  |
|---------------|-----|----|-------|-----|-----|-----|--------|--|--|--|

**Matrix Spike Dup (BFD0361-MSD1)**

Source: 2204271-01

Prepared: 04/18/22 Analyzed: 04/19/22

|               |     |    |       |     |     |      |        |      |    |  |
|---------------|-----|----|-------|-----|-----|------|--------|------|----|--|
| C10-C28 (DRO) | 786 | 50 | mg/kg | 500 | 294 | 98.4 | 70-130 | 2.45 | 20 |  |
|---------------|-----|----|-------|-----|-----|------|--------|------|----|--|

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFD0401 - EPA 5030 Soil MS**

**Blank (BFD0401-BLK1)**

Prepared: 04/20/22 Analyzed: 04/22/22

|   |        |         |       |        |  |      |        |  |  |  |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene                              | ND     | 0.00500 | mg/kg |        |  |      |        |  |  |  |
| Anthracene                                | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (a) anthracene                      | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (a) pyrene                          | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (b) fluoranthene                    | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Benzo (k) fluoranthene                    | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Chrysene                                  | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Dibenz (a,h) anthracene                   | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Fluoranthene                              | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Fluorene                                  | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Pyrene                                    | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| 1-Methylnaphthalene                       | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| 2-Methylnaphthalene                       | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0225 |         | "     | 0.0333 |  | 67.6 | 40-150 |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | 0.0213 |         | "     | 0.0333 |  | 63.8 | 40-150 |  |  |  |

**LCS (BFD0401-BS1)**

Prepared: 04/20/22 Analyzed: 04/22/22

|   |        |         |       |        |  |      |        |  |  |  |
|---|--------|---------|-------|--------|--|------|--------|--|--|--|
| Acenaphthene                              | 0.0303 | 0.00500 | mg/kg | 0.0333 |  | 91.0 | 31-137 |  |  |  |
| Anthracene                                | 0.0316 | 0.00500 | "     | 0.0333 |  | 94.7 | 30-120 |  |  |  |
| Benzo (a) anthracene                      | 0.0310 | 0.00500 | "     | 0.0333 |  | 93.1 | 30-120 |  |  |  |
| Benzo (a) pyrene                          | 0.0269 | 0.00500 | "     | 0.0333 |  | 80.7 | 30-120 |  |  |  |
| Benzo (b) fluoranthene                    | 0.0339 | 0.00500 | "     | 0.0333 |  | 102  | 30-120 |  |  |  |
| Benzo (k) fluoranthene                    | 0.0371 | 0.00500 | "     | 0.0333 |  | 111  | 30-120 |  |  |  |
| Chrysene                                  | 0.0289 | 0.00500 | "     | 0.0333 |  | 86.7 | 30-120 |  |  |  |
| Dibenz (a,h) anthracene                   | 0.0162 | 0.00500 | "     | 0.0333 |  | 48.6 | 30-120 |  |  |  |
| Fluoranthene                              | 0.0238 | 0.00500 | "     | 0.0333 |  | 71.5 | 30-120 |  |  |  |
| Fluorene                                  | 0.0314 | 0.00500 | "     | 0.0333 |  | 94.3 | 30-120 |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0173 | 0.00500 | "     | 0.0333 |  | 51.9 | 30-120 |  |  |  |
| Pyrene                                    | 0.0398 | 0.00500 | "     | 0.0333 |  | 120  | 35-142 |  |  |  |
| 1-Methylnaphthalene                       | 0.0237 | 0.00500 | "     | 0.0333 |  | 71.2 | 35-142 |  |  |  |
| 2-Methylnaphthalene                       | 0.0279 | 0.00500 | "     | 0.0333 |  | 83.8 | 35-142 |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | 0.0276 |         | "     | 0.0333 |  | 82.8 | 40-150 |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | 0.0256 |         | "     | 0.0333 |  | 76.9 | 40-150 |  |  |  |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BFD0401 - EPA 5030 Soil MS**

| <b>Matrix Spike (BFD0401-MS1)</b>         | <b>Source: 2204126-01</b> |         |          | <b>Prepared: 04/20/22 Analyzed: 04/22/22</b> |    |             |               |  |  |  |
|---|---------------------------|---------|----------|--|----|-------------|---------------|--|--|--|
| Acenaphthene                              | 0.0183                    | 0.00500 | mg/kg    | 0.0333                                       | ND | 55.0        | 31-137        |  |  |  |
| Anthracene                                | 0.0200                    | 0.00500 | "        | 0.0333                                       | ND | 59.9        | 30-120        |  |  |  |
| Benzo (a) anthracene                      | 0.0187                    | 0.00500 | "        | 0.0333                                       | ND | 56.2        | 30-120        |  |  |  |
| Benzo (a) pyrene                          | 0.0182                    | 0.00500 | "        | 0.0333                                       | ND | 54.6        | 30-120        |  |  |  |
| Benzo (b) fluoranthene                    | 0.0236                    | 0.00500 | "        | 0.0333                                       | ND | 70.7        | 30-120        |  |  |  |
| Benzo (k) fluoranthene                    | 0.0234                    | 0.00500 | "        | 0.0333                                       | ND | 70.3        | 30-120        |  |  |  |
| Chrysene                                  | 0.0172                    | 0.00500 | "        | 0.0333                                       | ND | 51.6        | 30-120        |  |  |  |
| Dibenz (a,h) anthracene                   | 0.0150                    | 0.00500 | "        | 0.0333                                       | ND | 44.9        | 30-120        |  |  |  |
| Fluoranthene                              | 0.0158                    | 0.00500 | "        | 0.0333                                       | ND | 47.5        | 30-120        |  |  |  |
| Fluorene                                  | 0.0196                    | 0.00500 | "        | 0.0333                                       | ND | 58.8        | 30-120        |  |  |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0221                    | 0.00500 | "        | 0.0333                                       | ND | 66.3        | 30-120        |  |  |  |
| Pyrene                                    | 0.0403                    | 0.00500 | "        | 0.0333                                       | ND | 121         | 35-142        |  |  |  |
| 1-Methylnaphthalene                       | 0.0161                    | 0.00500 | "        | 0.0333                                       | ND | 48.4        | 15-130        |  |  |  |
| 2-Methylnaphthalene                       | 0.0188                    | 0.00500 | "        | 0.0333                                       | ND | 56.4        | 15-130        |  |  |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0184</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>55.3</i> | <i>40-150</i> |  |  |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0165</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>49.5</i> | <i>40-150</i> |  |  |  |

| <b>Matrix Spike Dup (BFD0401-MSD1)</b>    | <b>Source: 2204126-01</b> |         |          | <b>Prepared: 04/20/22 Analyzed: 04/22/22</b> |    |             |               |      |    |  |
|---|---------------------------|---------|----------|--|----|-------------|---------------|------|----|--|
| Acenaphthene                              | 0.0194                    | 0.00500 | mg/kg    | 0.0333                                       | ND | 58.1        | 31-137        | 5.53 | 30 |  |
| Anthracene                                | 0.0210                    | 0.00500 | "        | 0.0333                                       | ND | 62.9        | 30-120        | 4.92 | 30 |  |
| Benzo (a) anthracene                      | 0.0200                    | 0.00500 | "        | 0.0333                                       | ND | 60.1        | 30-120        | 6.72 | 30 |  |
| Benzo (a) pyrene                          | 0.0219                    | 0.00500 | "        | 0.0333                                       | ND | 65.8        | 30-120        | 18.5 | 30 |  |
| Benzo (b) fluoranthene                    | 0.0251                    | 0.00500 | "        | 0.0333                                       | ND | 75.4        | 30-120        | 6.45 | 30 |  |
| Benzo (k) fluoranthene                    | 0.0280                    | 0.00500 | "        | 0.0333                                       | ND | 84.1        | 30-120        | 17.8 | 30 |  |
| Chrysene                                  | 0.0186                    | 0.00500 | "        | 0.0333                                       | ND | 55.8        | 30-120        | 7.76 | 30 |  |
| Dibenz (a,h) anthracene                   | 0.0145                    | 0.00500 | "        | 0.0333                                       | ND | 43.6        | 30-120        | 3.13 | 30 |  |
| Fluoranthene                              | 0.0173                    | 0.00500 | "        | 0.0333                                       | ND | 51.9        | 30-120        | 8.94 | 30 |  |
| Fluorene                                  | 0.0206                    | 0.00500 | "        | 0.0333                                       | ND | 61.9        | 30-120        | 5.14 | 30 |  |
| Indeno (1,2,3-cd) pyrene                  | 0.0174                    | 0.00500 | "        | 0.0333                                       | ND | 52.3        | 30-120        | 23.5 | 30 |  |
| Pyrene                                    | 0.0399                    | 0.00500 | "        | 0.0333                                       | ND | 120         | 35-142        | 1.00 | 30 |  |
| 1-Methylnaphthalene                       | 0.0180                    | 0.00500 | "        | 0.0333                                       | ND | 53.9        | 15-130        | 10.8 | 50 |  |
| 2-Methylnaphthalene                       | 0.0197                    | 0.00500 | "        | 0.0333                                       | ND | 59.0        | 15-130        | 4.53 | 50 |  |
| <i>Surrogate: 2-Methylnaphthalene-d10</i> | <i>0.0178</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>53.4</i> | <i>40-150</i> |      |    |  |
| <i>Surrogate: Fluoranthene-d10</i>        | <i>0.0181</i>             |         | <i>"</i> | <i>0.0333</i>                                |    | <i>54.3</i> | <i>40-150</i> |      |    |  |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:55

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

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

**Batch BFD0555 - EPA 3050B**

**Blank (BFD0555-BLK1)**

Prepared: 04/26/22 Analyzed: 05/02/22

Boron ND 0.0100 mg/L

**LCS (BFD0555-BS1)**

Prepared: 04/26/22 Analyzed: 05/02/22

Boron 5.34 0.0100 mg/L 5.00 107 80-120

**Duplicate (BFD0555-DUP1)**

Source: 2204216-01

Prepared: 04/26/22 Analyzed: 05/02/22

Boron 0.369 0.0100 mg/L 0.378 2.40 20

**Matrix Spike (BFD0555-MS1)**

Source: 2204216-01

Prepared: 04/26/22 Analyzed: 05/02/22

Boron 5.15 0.0100 mg/L 5.00 0.378 95.5 75-125

**Matrix Spike Dup (BFD0555-MSD1)**

Source: 2204216-01

Prepared: 04/26/22 Analyzed: 05/02/22

Boron 5.21 0.0100 mg/L 5.00 0.378 96.6 75-125 1.01 25

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:55

**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 BFD0602 - General Preparation**

**Blank (BFD0602-BLK1)**

Prepared: 04/27/22 Analyzed: 05/04/22

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

**LCS (BFD0602-BS1)**

Prepared: 04/27/22 Analyzed: 05/04/22

|           |      |        |          |      |      |        |
|-----------|------|--------|----------|------|------|--------|
| Calcium   | 5.39 | 0.0500 | mg/L wet | 5.00 | 108  | 70-130 |
| Magnesium | 4.83 | 0.0500 | "        | 5.00 | 96.5 | 70-130 |
| Sodium    | 4.81 | 0.0500 | "        | 5.00 | 96.2 | 70-130 |

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:55

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

**Summit Scientific**

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

**Batch BFD0527 - General Preparation**

**Duplicate (BFD0527-DUP1)**

**Source: 2204265-01**

Prepared: 04/25/22 Analyzed: 04/27/22

|          |      |  |   |  |      |  |  |      |  |    |  |
|----------|------|--|---|--|------|--|--|------|--|----|--|
| % Solids | 85.7 |  | % |  | 87.0 |  |  | 1.45 |  | 20 |  |
|----------|------|--|---|--|------|--|--|------|--|----|--|

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]  
 Project Manager: Mark Longhurst

**Reported:**  
 05/23/22 13:55

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

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

**Batch BFD0604 - General Preparation**

**Blank (BFD0604-BLK1)**

Prepared: 04/27/22 Analyzed: 04/28/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BFD0604-BS1)**

Prepared: 04/27/22 Analyzed: 04/28/22

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BFD0604-DUP1)**

**Source: 2204273-01**

Prepared: 04/27/22 Analyzed: 04/28/22

Specific Conductance (EC) 2.10 0.0100 mmhos/cm 2.03 3.00 20

Summit Scientific

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

Project: Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
05/23/22 13:55

### Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 20, 2023

Mark Longhurst

Tasman Geosciences

6855 W. 119th Ave.

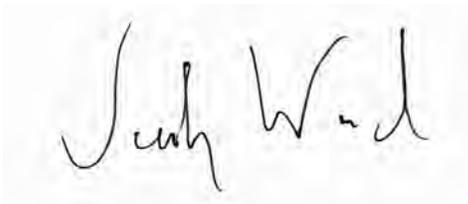
Broomfield, CO 80020

RE: PDC - Fagerberg Pad

Work Order #2307157

Enclosed are the results of analyses for samples received by Summit Scientific on 07/10/23 17:33. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a long horizontal stroke at the end.

Jacob Wood For Paul Shrewsbury

President



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

Project: PDC - Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

### ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|-----------|---------------|--------|----------------|----------------|
| SB01@0-6" | 2307157-01    | Soil   | 07/10/23 09:28 | 07/10/23 17:33 |
| SB02@0-6" | 2307157-07    | Soil   | 07/10/23 10:33 | 07/10/23 17:33 |
| SB02@1'   | 2307157-08    | Soil   | 07/10/23 10:35 | 07/10/23 17:33 |
| SB03@0-6" | 2307157-13    | Soil   | 07/10/23 10:46 | 07/10/23 17:33 |
| SB03@1'   | 2307157-14    | Soil   | 07/10/23 10:49 | 07/10/23 17:33 |
| SB04@0-6" | 2307157-19    | Soil   | 07/10/23 11:04 | 07/10/23 17:33 |
| SB05@0-6" | 2307157-25    | Soil   | 07/10/23 11:22 | 07/10/23 17:33 |
| SB06@0-6" | 2307157-31    | Soil   | 07/10/23 09:38 | 07/10/23 17:33 |
| SB07@0-6" | 2307157-37    | Soil   | 07/10/23 10:00 | 07/10/23 17:33 |
| SB08@0-6" | 2307157-43    | Soil   | 07/10/23 09:54 | 07/10/23 17:33 |

Summit Scientific

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# SUMMIT SCIENTIFIC

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID 2307157.1 Page 1 of 4

|   |  |                                    |  |                         |  |
|---|--|------------------------------------|--|-------------------------|--|
| Client: PDC PDC / Tasman                |  | Project Manager: Mark Longhurst    |  | Send Invoice To:        |  |
| Address: 6855 W 119th Ave               |  | E-Mail: mark.longhurst@PDCE.com    |  | Company: PDC Energy     |  |
| City/State/Zip: Broomfield / CO / 80220 |  | Project Name: <u>Fagerberg Pad</u> |  | Project Name/Location:  |  |
| Phone: 303-487-1228                     |  | Project Number:                    |  | AFE#:                   |  |
| Sampler Name: Jordan Hestmark           |  | Project Number:                    |  | PO/Billing Codes:       |  |
|   |  |                                    |  | Contact: Mark Longhurst |  |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |      |      |       | Matrix |      | Air-Canister # | Other | Analysis Requested |                  |                     |             |         |                   |                  |              |          |      | Special Instructions |   |  |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|----------------|-------|--------------------|------------------|---------------------|-------------|---------|-------------------|------------------|--------------|----------|------|----------------------|---|--|
|    |                    |              |              |                 | HCl          | HNO3 | None | Other | Water  | Soil |                |       | BTEXN - 8260B      | TPH - (C6 - C36) | 1,2,4 & 1,3,5 - TMB | Boron - HWS | EC, SAR | benz(a)anthracene | chrysene, pyrene | flouranthene | 1-M, 2-M | Hold | EC                   |   |  |
| 1  | SBO1 @ 0-6"        | 7/10/23      | 928          | 2               |              |      | X    |       |        | X    |                |       | X                  | X                | X                   | X           | X       | X                 | X                | X            | X        | X    | X                    |   |  |
| 2  | SBO1 @ 1'          |              | 930          | 1               |              |      |      |       |        |      |                |       |                    |                  |                     |             |         |                   |                  |              |          |      | X                    |   |  |
| 3  | SBO1 @ 2'          |              | 932          | 1               |              |      |      |       |        |      |                |       |                    |                  |                     |             |         |                   |                  |              |          |      | X                    |   |  |
| 4  | SBO1 @ 3'          |              | 935          | 1               |              |      |      |       |        |      |                |       |                    |                  |                     |             |         |                   |                  |              |          |      | X                    |   |  |
| 5  | SBO1 @ 4'          |              | 937          | 1               |              |      |      |       |        |      |                |       |                    |                  |                     |             |         |                   |                  |              |          |      | X                    |   |  |
| 6  | SBO1 @ 5'          |              | 939          | 1               |              |      |      |       |        |      |                |       |                    |                  |                     |             |         |                   |                  |              |          |      | X                    |   |  |
| 7  | SBO2 @ 0-6"        |              | 1033         | 1               |              |      |      |       |        |      |                |       |                    |                  |                     |             |         |                   |                  |              |          |      |                      | X |  |
| 8  | SBO2 @ 1'          |              | 1035         | 1               |              |      |      |       |        |      |                |       |                    |                  |                     |             |         |                   |                  |              |          |      |                      | X |  |
| 9  | SBO2 @ 2'          |              | 1037         | 1               |              |      |      |       |        |      |                |       |                    |                  |                     |             |         |                   |                  |              |          |      | X                    |   |  |
| 10 | SBO2 @ 3'          |              | 1039         | 1               |              |      |      |       |        |      |                |       |                    |                  |                     |             |         |                   |                  |              |          |      | X                    |   |  |
| 11 | SBO2 @ 4'          |              | 1041         | 1               |              |      |      |       |        |      |                |       |                    |                  |                     |             |         |                   |                  |              |          |      | X                    |   |  |
| 12 | SBO2 @ 5'          |              | 1043         | 1               |              |      |      |       |        |      |                |       |                    |                  |                     |             |         |                   |                  |              |          |      | X                    |   |  |
| 13 | SBO3 @ 0-6"        |              | 1046         | 1               |              |      |      |       |        |      |                |       |                    |                  |                     |             |         |                   |                  |              |          |      |                      | X |  |
| 14 | SBO3 @ 1'          |              | 1049         | 1               |              |      |      |       |        |      |                |       |                    |                  |                     |             |         |                   |                  |              |          |      |                      | X |  |
| 15 | SBO3 @ 2'          |              | 1052         | 1               |              |      |      |       |        |      |                |       |                    |                  |                     |             |         |                   |                  |              |          |      | X                    |   |  |

|  |   |                   |   |        |
|--|---|-------------------|---|--------|
| Relinquished by: <u>Jordan Hestmark</u> Date/Time: <u>7/10/23 1514</u> | Received by: <u>Tasman Lockbox</u> Date/Time: <u>7/10/23 1514</u> | TAT Business Days | Field DO  | Notes: |
|  |   | Same Day          | Field EC  |        |
| Relinquished by: <u>Tasman Lockbox</u> Date/Time: <u>7/10/23 1733</u>  | Received by: <u>[Signature]</u> Date/Time: <u>7/10/23 1733</u>    | 1 Day             | Field ORP                                       |        |
|  |   | 2 Days            | Field pH  |        |
| Relinquished by: _____ Date/Time: _____                                | Received by: _____ Date/Time: _____                               | 3 Days            | Field Temp.                                     |        |
|  |   | Standard          | Field Turb. <input checked="" type="checkbox"/> |        |
| Temperature Upon Receipt: <u>11.3</u>                                  | Corrected Temperature: <u>e</u>                                   | IR gun #: _____   | HNO3 lot #: _____                               |        |



# SUMMIT SCIENTIFIC

4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID 2307157.3 Page 3 of 4

|   |  |                                    |  |                         |  |
|---|--|------------------------------------|--|-------------------------|--|
| Client: PDC PDC / Tasman                |  | Project Manager: Mark Longhurst    |  | Send Invoice To:        |  |
| Address: 6855 W 119th Ave               |  | E-Mail: mark.longhurst@PDCE.com    |  | Company: PDC Energy     |  |
| City/State/Zip: Broomfield / CO / 80220 |  | Project Name: <u>Fagerberg Pad</u> |  | Project Name/Location:  |  |
| Phone: 303-487-1228                     |  | Project Number:                    |  | AFE#:                   |  |
| Sampler Name: Jordan Hestmark           |  |                                    |  | PO/Billing Codes:       |  |
|   |  |                                    |  | Contact: Mark Longhurst |  |

| ID | Sample Description | Date Sampled | Time Sampled | # of containers | Preservative |      |      |       | Matrix |      | Analysis Requested |       |               |                  |                     |             |         |                   | Special Instructions |              |          |    |      |
|----|--------------------|--------------|--------------|-----------------|--------------|------|------|-------|--------|------|--------------------|-------|---------------|------------------|---------------------|-------------|---------|-------------------|----------------------|--------------|----------|----|------|
|    |                    |              |              |                 | HCl          | HNO3 | None | Other | Water  | Soil | Air-Canister #     | Other | BTEXN - 8260B | TPH - (C6 - C36) | 1,2,4 & 1,3,5 - TMB | Boron - HWS | EC, SAR | benz(a)anthracene | chrysene, pyrene     | flouranthene | 1-M, 2-M | EC | Hold |
| 1  | SB06 @ 0-6"        | 7/10/23      | 938          | 1               |              |      | X    |       |        | X    |                    |       |               |                  |                     |             |         |                   |                      |              |          | X  |      |
| 2  | SB06 @ 1'          |              | 941          |                 |              |      |      |       |        |      |                    |       |               |                  |                     |             |         |                   |                      |              |          |    | X    |
| 3  | SB06 @ 2'          |              | 944          |                 |              |      |      |       |        |      |                    |       |               |                  |                     |             |         |                   |                      |              |          |    | X    |
| 4  | SB06 @ 3'          |              | 947          |                 |              |      |      |       |        |      |                    |       |               |                  |                     |             |         |                   |                      |              |          |    | X    |
| 5  | SB06 @ 4'          |              | 950          |                 |              |      |      |       |        |      |                    |       |               |                  |                     |             |         |                   |                      |              |          |    | X    |
| 6  | SB06 @ 5'          |              | 953          |                 |              |      |      |       |        |      |                    |       |               |                  |                     |             |         |                   |                      |              |          |    | X    |
| 7  | SB07 @ 0-6"        |              | 1000         |                 |              |      |      |       |        |      |                    |       |               |                  |                     |             |         |                   |                      |              |          | X  |      |
| 8  | SB07 @ 1'          |              | 1003         |                 |              |      |      |       |        |      |                    |       |               |                  |                     |             |         |                   |                      |              |          |    | X    |
| 9  | SB07 @ 2'          |              | 1006         |                 |              |      |      |       |        |      |                    |       |               |                  |                     |             |         |                   |                      |              |          |    | X    |
| 10 | SB07 @ 3'          |              | 1009         |                 |              |      |      |       |        |      |                    |       |               |                  |                     |             |         |                   |                      |              |          |    | X    |
| 11 | SB07 @ 4'          |              | 1012         |                 |              |      |      |       |        |      |                    |       |               |                  |                     |             |         |                   |                      |              |          |    | X    |
| 12 | SB07 @ 5'          |              | 1015         |                 |              |      |      |       |        |      |                    |       |               |                  |                     |             |         |                   |                      |              |          |    | X    |
| 13 | SB08 @ 0-6"        |              | 954          |                 |              |      |      |       |        |      |                    |       |               |                  |                     |             |         |                   |                      |              |          | X  |      |
| 14 | SB08 @ 1'          |              | 1018         |                 |              |      |      |       |        |      |                    |       |               |                  |                     |             |         |                   |                      |              |          |    | X    |
| 15 | SB08 @ 2'          |              | 1021         |                 |              |      |      |       |        |      |                    |       |               |                  |                     |             |         |                   |                      |              |          |    | X    |

|  |   |                    |   |             |
|--|---|--------------------|---|-------------|
| Relinquished by: <u>Jordan Hestmark</u> Date/Time: <u>7/10/23 1514</u> | Received by: <u>Tasman Lockbox</u> Date/Time: <u>7/10/23 1514</u> | TAT Business Days  | Field DO  | Notes:      |
| Relinquished by: <u>Tasman Lockbox</u> Date/Time: <u>7/10/23 1723</u>  | Received by: <u>[Signature]</u> Date/Time: <u>7/10/23 1733</u>    | Same Day           | Field EC  |             |
| Relinquished by:   | Received by:  | 1 Day              | Field ORP                                       |             |
| Relinquished by:   | Received by:  | 2 Days             | Field pH  |             |
| Relinquished by:   | Received by:  | 3 Days             | Field Temp.                                     |             |
| Temperature Upon Receipt: <u>11.3</u>                                  | Corrected Temperature: <u>⊖</u>                                   | IR gun #: <u>1</u> | Field Turb. <input checked="" type="checkbox"/> | HNO3 lot #: |



S<sub>2</sub>

4/4

Sample Receipt Checklist

S2 Work Order# 2307157

Client: Pocrossman Client Project ID: Fagerberg Pad

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

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C)

Thermometer #

|   | Yes                                 | No                                  | N/A                                 | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, is the temperature < 6°C? <sup>(1)</sup><br><b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | on ice            |
| If custody seals are present, are they intact? <sup>(1)</sup>   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |                   |
| Are samples due within 48 hours present?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                   |
| Are water samples with short hold times present?<br>Note the short hold analysis in the comments column<br>- pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input 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"/>            |                   |
| 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"/>            |                   |
| 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"/>            |                   |
| 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"/>            |                   |
| For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>   | <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, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                   |
| 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):

Bags

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

AS

Custodian Printed Name

7/10/23

Date/Time



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

Project: PDC - Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

**SB01@0-6"**  
**2307157-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **07/10/23 09:28**

| Analyte                     | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|-----------------------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|                             |        | Limit     |  |       |          |         |          |          |           |       |
| Benzene                     | ND     | 0.0020    |  | mg/kg | 1        | BGG0294 | 07/11/23 | 07/12/23 | 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: **07/10/23 09:28**

| Analyte                          | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|----------------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                                  |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: 1,2-Dichloroethane-d4 | 0.0425 | 106 %     |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: Toluene-d8            | 0.0391 | 97.6 %    |  | 50-150 |          | "     | "        | "        | "      |       |
| Surrogate: 4-Bromofluorobenzene  | 0.0382 | 95.6 %    |  | 50-150 |          | "     | "        | "        | "      |       |

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **07/10/23 09:28**

| Analyte       | Result | Reporting |  | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------|--------|-----------|--|-------|----------|---------|----------|----------|-----------|-------|
|               |        | Limit     |  |       |          |         |          |          |           |       |
| C10-C28 (DRO) | ND     | 50        |  | mg/kg | 1        | BGG0295 | 07/11/23 | 07/12/23 | EPA 8015M |       |
| C28-C36 (ORO) | ND     | 50        |  | "     | "        | "       | "        | "        | "         |       |

Date Sampled: **07/10/23 09:28**

| Analyte                | Result | Reporting |  | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------|--------|-----------|--|--------|----------|-------|----------|----------|--------|-------|
|                        |        | Limit     |  |        |          |       |          |          |        |       |
| Surrogate: o-Terphenyl | 16.0   | 128 %     |  | 30-150 |          | "     | "        | "        | "      |       |

**PAH by EPA Method 8270D SIM**

Summit Scientific

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

Project: PDC - Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

**SB01@0-6"**  
**2307157-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **07/10/23 09:28**

| Analyte              | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|----------------------|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| Benzo (a) anthracene | ND     | 0.00500         | mg/kg | 1        | BGG0265 | 07/11/23 | 07/12/23 | EPA 8270D SIM |       |
| Chrysene             | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Fluoranthene         | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| Pyrene               | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 1-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |
| 2-Methylnaphthalene  | ND     | 0.00500         | "     | "        | "       | "        | "        | "             |       |

Date Sampled: **07/10/23 09:28**

| Analyte                            | Result | Reporting Limit | Units  | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|------------------------------------|--------|-----------------|--------|----------|-------|----------|----------|--------|-------|
| Surrogate: 2-Methylnaphthalene-d10 | 0.0181 | 54.4 %          | 40-150 |          | "     | "        | "        | "      |       |
| Surrogate: Fluoranthene-d10        | 0.0182 | 54.7 %          | 40-150 |          | "     | "        | "        | "      |       |

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **07/10/23 09:28**

| Analyte      | Result       | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------|--------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| <b>Boron</b> | <b>0.226</b> | 0.0100          | mg/L  | 1        | BGG0320 | 07/12/23 | 07/15/23 | EPA 6020B |       |

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

Date Sampled: **07/10/23 09:28**

| Analyte          | Result      | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|------------------|-------------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| <b>Calcium</b>   | <b>448</b>  | 0.0552          | mg/L dry | 1        | BGG0431 | 07/14/23 | 07/19/23 | EPA 6020B |       |
| <b>Magnesium</b> | <b>32.5</b> | 0.0552          | "        | "        | "       | "        | "        | "         |       |
| <b>Sodium</b>    | <b>27.1</b> | 0.0552          | "        | "        | "       | "        | "        | "         |       |

**Calculated Analysis**

Summit Scientific

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

Project: PDC - Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

**SB01@0-6"**  
**2307157-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **07/10/23 09:28**

| Analyte                 | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|-------------------------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| Sodium Adsorption Ratio | 4.54   | 0.00100         | units | 1        | BGG0566 | 07/19/23 | 07/19/23 | Calculation |       |

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **07/10/23 09:28**

| Analyte  | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method      | Notes |
|----------|--------|-----------------|-------|----------|---------|----------|----------|-------------|-------|
| % Solids | 90.6   |                 | %     | 1        | BGG0298 | 07/11/23 | 07/11/23 | Calculation |       |

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **07/10/23 09:28**

| Analyte                   | Result | Reporting Limit | Units    | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------------|----------|----------|---------|----------|----------|-----------|-------|
| Specific Conductance (EC) | 0.338  | 0.0100          | mmhos/cm | 1        | BGG0505 | 07/17/23 | 07/17/23 | EPA 120.1 |       |

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

Project: PDC - Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 07/20/23 10:20

**SB02@0-6''**  
**2307157-07 (Soil)**

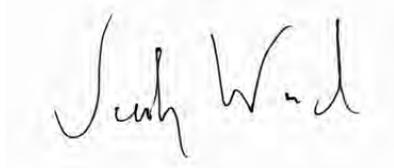
**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **07/10/23 10:33**

| Analyte                   | Result      | Reporting |          | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|-------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|                           |             | Limit     | Units    |          |         |          |          |           |       |
| Specific Conductance (EC) | <b>1.60</b> | 0.0100    | mmhos/cm | 1        | BGG0398 | 07/13/23 | 07/13/23 | EPA 120.1 |       |

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

Project: PDC - Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 07/20/23 10:20

**SB02@1'**  
**2307157-08 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **07/10/23 10:35**

| Analyte                   | Result | Reporting |          | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     | Units    |          |         |          |          |           |       |
| Specific Conductance (EC) | 1.64   | 0.0100    | mmhos/cm | 1        | BGG0398 | 07/13/23 | 07/13/23 | EPA 120.1 |       |

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

Project: PDC - Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 07/20/23 10:20

**SB03@0-6''**  
**2307157-13 (Soil)**

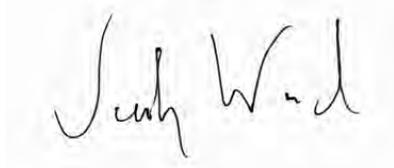
**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **07/10/23 10:46**

| Analyte                   | Result       | Reporting |          | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|                           |              | Limit     | Units    |          |         |          |          |           |       |
| Specific Conductance (EC) | <b>0.959</b> | 0.0100    | mmhos/cm | 1        | BGG0398 | 07/13/23 | 07/13/23 | EPA 120.1 |       |

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

Project: PDC - Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 07/20/23 10:20

**SB03@1'**  
**2307157-14 (Soil)**

**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **07/10/23 10:49**

| Analyte                   | Result | Reporting |          | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     | Units    |          |         |          |          |           |       |
| Specific Conductance (EC) | 1.65   | 0.0100    | mmhos/cm | 1        | BGG0398 | 07/13/23 | 07/13/23 | EPA 120.1 |       |

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 6855 W. 119th Ave.  
 Broomfield CO, 80020

Project: PDC - Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 07/20/23 10:20

**SB04@0-6''**  
**2307157-19 (Soil)**

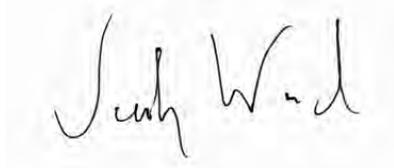
**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **07/10/23 11:04**

| Analyte                   | Result | Reporting |          | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     | Units    |          |         |          |          |           |       |
| Specific Conductance (EC) | 1.07   | 0.0100    | mmhos/cm | 1        | BGG0398 | 07/13/23 | 07/13/23 | EPA 120.1 |       |

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 Broomfield CO, 80020

Project: PDC - Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 07/20/23 10:20

**SB05@0-6''**  
**2307157-25 (Soil)**

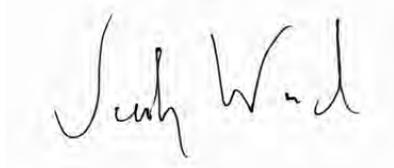
**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **07/10/23 11:22**

| Analyte                   | Result | Reporting |          | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     | Units    |          |         |          |          |           |       |
| Specific Conductance (EC) | 1.48   | 0.0100    | mmhos/cm | 1        | BGG0398 | 07/13/23 | 07/13/23 | EPA 120.1 |       |

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Project: PDC - Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 07/20/23 10:20

**SB06@0-6''**  
**2307157-31 (Soil)**

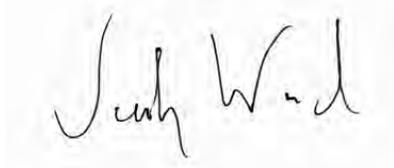
**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **07/10/23 09:38**

| Analyte                   | Result | Reporting |          | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     | Units    |          |         |          |          |           |       |
| Specific Conductance (EC) | 1.73   | 0.0100    | mmhos/cm | 1        | BGG0398 | 07/13/23 | 07/13/23 | EPA 120.1 |       |

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Project: PDC - Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 07/20/23 10:20

**SB07@0-6''**  
**2307157-37 (Soil)**

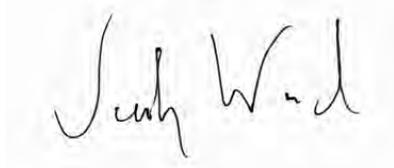
**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **07/10/23 10:00**

| Analyte                   | Result       | Reporting |          | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|                           |              | Limit     | Units    |          |         |          |          |           |       |
| Specific Conductance (EC) | <b>0.825</b> | 0.0100    | mmhos/cm | 1        | BGG0398 | 07/13/23 | 07/13/23 | EPA 120.1 |       |

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Project: PDC - Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
 07/20/23 10:20

**SB08@0-6''**  
**2307157-43 (Soil)**

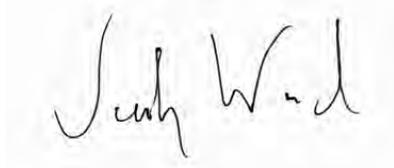
**Summit Scientific**

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013**

Date Sampled: **07/10/23 09:54**

| Analyte                   | Result | Reporting |          | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---------------------------|--------|-----------|----------|----------|---------|----------|----------|-----------|-------|
|                           |        | Limit     | Units    |          |         |          |          |           |       |
| Specific Conductance (EC) | 1.13   | 0.0100    | mmhos/cm | 1        | BGG0398 | 07/13/23 | 07/13/23 | EPA 120.1 |       |

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Broomfield CO, 80020

Project: PDC - Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

### 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 BGG0294 - EPA 5030 Soil MS

##### Blank (BGG0294-BLK1)

Prepared & Analyzed: 07/11/23

|   |        |        |       |        |  |     |        |  |  |  |
|---|--------|--------|-------|--------|--|-----|--------|--|--|--|
| 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> | 0.0450 |        | "     | 0.0400 |  | 112 | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0422 |        | "     | 0.0400 |  | 106 | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0410 |        | "     | 0.0400 |  | 102 | 50-150 |  |  |  |

##### LCS (BGG0294-BS1)

Prepared & Analyzed: 07/11/23

|   |        |        |       |        |  |      |        |  |  |  |
|---|--------|--------|-------|--------|--|------|--------|--|--|--|
| Benzene                                 | 0.143  | 0.0020 | mg/kg | 0.140  |  | 102  | 70-130 |  |  |  |
| Toluene                                 | 0.140  | 0.0050 | "     | 0.140  |  | 99.7 | 70-130 |  |  |  |
| Ethylbenzene                            | 0.136  | 0.0050 | "     | 0.140  |  | 96.8 | 70-130 |  |  |  |
| m,p-Xylene                              | 0.286  | 0.010  | "     | 0.280  |  | 102  | 70-130 |  |  |  |
| o-Xylene                                | 0.135  | 0.0050 | "     | 0.140  |  | 96.6 | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.133  | 0.0050 | "     | 0.140  |  | 95.0 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.130  | 0.0050 | "     | 0.140  |  | 92.7 | 70-130 |  |  |  |
| Naphthalene                             | 0.154  | 0.0038 | "     | 0.140  |  | 110  | 70-130 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0446 |        | "     | 0.0400 |  | 112  | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0410 |        | "     | 0.0400 |  | 102  | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0393 |        | "     | 0.0400 |  | 98.2 | 50-150 |  |  |  |

##### Matrix Spike (BGG0294-MS1)

Source: 2307128-04

Prepared & Analyzed: 07/11/23

|   |        |        |       |        |    |      |        |  |  |  |
|---|--------|--------|-------|--------|----|------|--------|--|--|--|
| Benzene                                 | 0.145  | 0.0020 | mg/kg | 0.140  | ND | 103  | 70-130 |  |  |  |
| Toluene                                 | 0.147  | 0.0050 | "     | 0.140  | ND | 105  | 70-130 |  |  |  |
| Ethylbenzene                            | 0.144  | 0.0050 | "     | 0.140  | ND | 103  | 70-130 |  |  |  |
| m,p-Xylene                              | 0.303  | 0.010  | "     | 0.280  | ND | 108  | 70-130 |  |  |  |
| o-Xylene                                | 0.147  | 0.0050 | "     | 0.140  | ND | 105  | 70-130 |  |  |  |
| 1,2,4-Trimethylbenzene                  | 0.133  | 0.0050 | "     | 0.140  | ND | 95.0 | 70-130 |  |  |  |
| 1,3,5-Trimethylbenzene                  | 0.132  | 0.0050 | "     | 0.140  | ND | 94.3 | 70-130 |  |  |  |
| Naphthalene                             | 0.154  | 0.0038 | "     | 0.140  | ND | 110  | 70-130 |  |  |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 0.0442 |        | "     | 0.0400 |    | 111  | 50-150 |  |  |  |
| <i>Surrogate: Toluene-d8</i>            | 0.0402 |        | "     | 0.0400 |    | 100  | 50-150 |  |  |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | 0.0394 |        | "     | 0.0400 |    | 98.6 | 50-150 |  |  |  |

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

Project: PDC - Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

**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 BGG0294 - EPA 5030 Soil MS**

| <b>Matrix Spike Dup (BGG0294-MSD1)</b>  | <b>Source: 2307128-04</b> |        |          | <b>Prepared &amp; Analyzed: 07/11/23</b> |    |            |               |       |    |  |
|---|---------------------------|--------|----------|--|----|------------|---------------|-------|----|--|
| Benzene                                 | 0.144                     | 0.0020 | mg/kg    | 0.140                                    | ND | 103        | 70-130        | 0.686 | 30 |  |
| Toluene                                 | 0.142                     | 0.0050 | "        | 0.140                                    | ND | 102        | 70-130        | 2.91  | 30 |  |
| Ethylbenzene                            | 0.141                     | 0.0050 | "        | 0.140                                    | ND | 100        | 70-130        | 2.46  | 30 |  |
| m,p-Xylene                              | 0.297                     | 0.010  | "        | 0.280                                    | ND | 106        | 70-130        | 2.15  | 30 |  |
| o-Xylene                                | 0.142                     | 0.0050 | "        | 0.140                                    | ND | 101        | 70-130        | 3.72  | 30 |  |
| 1,2,4-Trimethylbenzene                  | 0.128                     | 0.0050 | "        | 0.140                                    | ND | 91.7       | 70-130        | 3.47  | 30 |  |
| 1,3,5-Trimethylbenzene                  | 0.128                     | 0.0050 | "        | 0.140                                    | ND | 91.1       | 70-130        | 3.42  | 30 |  |
| Naphthalene                             | 0.144                     | 0.0038 | "        | 0.140                                    | ND | 103        | 70-130        | 6.73  | 30 |  |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | <i>0.0434</i>             |        | <i>"</i> | <i>0.0400</i>                            |    | <i>108</i> | <i>50-150</i> |       |    |  |
| <i>Surrogate: Toluene-d8</i>            | <i>0.0402</i>             |        | <i>"</i> | <i>0.0400</i>                            |    | <i>101</i> | <i>50-150</i> |       |    |  |
| <i>Surrogate: 4-Bromofluorobenzene</i>  | <i>0.0406</i>             |        | <i>"</i> | <i>0.0400</i>                            |    | <i>102</i> | <i>50-150</i> |       |    |  |

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6855 W. 119th Ave.  
Broomfield CO, 80020

Project: PDC - Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

**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 BGG0295 - EPA 3550A**

**Blank (BGG0295-BLK1)**

Prepared & Analyzed: 07/11/23

|                                |      |    |       |      |  |     |  |        |  |  |  |
|--------------------------------|------|----|-------|------|--|-----|--|--------|--|--|--|
| C10-C28 (DRO)                  | ND   | 50 | mg/kg |      |  |     |  |        |  |  |  |
| C28-C36 (ORO)                  | ND   | 50 | "     |      |  |     |  |        |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 16.5 |    | "     | 12.5 |  | 132 |  | 30-150 |  |  |  |

**LCS (BGG0295-BS1)**

Prepared & Analyzed: 07/11/23

|                                |      |    |       |      |  |     |  |        |  |  |  |
|--------------------------------|------|----|-------|------|--|-----|--|--------|--|--|--|
| C10-C28 (DRO)                  | 604  | 50 | mg/kg | 500  |  | 121 |  | 70-130 |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 15.9 |    | "     | 12.5 |  | 127 |  | 30-150 |  |  |  |

**Matrix Spike (BGG0295-MS1)**

Source: 2307128-01

Prepared & Analyzed: 07/11/23

|                                |      |    |       |      |      |     |  |        |  |  |  |
|--------------------------------|------|----|-------|------|------|-----|--|--------|--|--|--|
| C10-C28 (DRO)                  | 637  | 50 | mg/kg | 500  | 16.2 | 124 |  | 70-130 |  |  |  |
| Surrogate: <i>o</i> -Terphenyl | 16.3 |    | "     | 12.5 |      | 131 |  | 30-150 |  |  |  |

**Matrix Spike Dup (BGG0295-MSD1)**

Source: 2307128-01

Prepared & Analyzed: 07/11/23

|                                |      |    |       |      |      |     |  |        |      |    |  |
|--------------------------------|------|----|-------|------|------|-----|--|--------|------|----|--|
| C10-C28 (DRO)                  | 569  | 50 | mg/kg | 500  | 16.2 | 111 |  | 70-130 | 11.2 | 20 |  |
| Surrogate: <i>o</i> -Terphenyl | 16.5 |    | "     | 12.5 |      | 132 |  | 30-150 |      |    |  |

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6855 W. 119th Ave.  
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Project: PDC - Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGG0265 - EPA 5030 Soil MS**

**Blank (BGG0265-BLK1)**

Prepared & Analyzed: 07/11/23

|                                    |        |         |       |        |  |      |        |  |  |  |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| Benzo (a) anthracene               | ND     | 0.00500 | mg/kg |        |  |      |        |  |  |  |
| Chrysene                           | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Fluoranthene                       | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Pyrene                             | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| 1-Methylnaphthalene                | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| 2-Methylnaphthalene                | ND     | 0.00500 | "     |        |  |      |        |  |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0306 |         | "     | 0.0333 |  | 91.7 | 40-150 |  |  |  |
| Surrogate: Fluoranthene-d10        | 0.0360 |         | "     | 0.0333 |  | 108  | 40-150 |  |  |  |

**LCS (BGG0265-BS1)**

Prepared & Analyzed: 07/11/23

|                                    |        |         |       |        |  |      |        |  |  |  |
|------------------------------------|--------|---------|-------|--------|--|------|--------|--|--|--|
| Benzo (a) anthracene               | 0.0352 | 0.00500 | mg/kg | 0.0333 |  | 106  | 30-120 |  |  |  |
| Chrysene                           | 0.0339 | 0.00500 | "     | 0.0333 |  | 102  | 30-120 |  |  |  |
| Fluoranthene                       | 0.0343 | 0.00500 | "     | 0.0333 |  | 103  | 30-120 |  |  |  |
| Pyrene                             | 0.0352 | 0.00500 | "     | 0.0333 |  | 106  | 35-142 |  |  |  |
| 1-Methylnaphthalene                | 0.0308 | 0.00500 | "     | 0.0333 |  | 92.3 | 35-142 |  |  |  |
| 2-Methylnaphthalene                | 0.0355 | 0.00500 | "     | 0.0333 |  | 106  | 35-142 |  |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0313 |         | "     | 0.0333 |  | 94.0 | 40-150 |  |  |  |
| Surrogate: Fluoranthene-d10        | 0.0399 |         | "     | 0.0333 |  | 120  | 40-150 |  |  |  |

**Matrix Spike (BGG0265-MS1)**

Source: 2306563-01

Prepared & Analyzed: 07/11/23

|                                    |        |         |       |        |    |      |        |  |  |  |
|------------------------------------|--------|---------|-------|--------|----|------|--------|--|--|--|
| Benzo (a) anthracene               | 0.0256 | 0.00500 | mg/kg | 0.0333 | ND | 76.9 | 30-120 |  |  |  |
| Chrysene                           | 0.0244 | 0.00500 | "     | 0.0333 | ND | 73.1 | 30-120 |  |  |  |
| Fluoranthene                       | 0.0243 | 0.00500 | "     | 0.0333 | ND | 72.8 | 30-120 |  |  |  |
| Pyrene                             | 0.0262 | 0.00500 | "     | 0.0333 | ND | 78.5 | 35-142 |  |  |  |
| 1-Methylnaphthalene                | 0.0218 | 0.00500 | "     | 0.0333 | ND | 65.3 | 15-130 |  |  |  |
| 2-Methylnaphthalene                | 0.0247 | 0.00500 | "     | 0.0333 | ND | 74.0 | 15-130 |  |  |  |
| Surrogate: 2-Methylnaphthalene-d10 | 0.0230 |         | "     | 0.0333 |    | 69.0 | 40-150 |  |  |  |
| Surrogate: Fluoranthene-d10        | 0.0285 |         | "     | 0.0333 |    | 85.5 | 40-150 |  |  |  |

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

Project: PDC - Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BGG0265 - EPA 5030 Soil MS**

| <b>Matrix Spike Dup (BGG0265-MSD1)</b> | <b>Source: 2306563-01</b> |         |       | <b>Prepared &amp; Analyzed: 07/11/23</b> |    |      |        |      |    |  |
|--|---------------------------|---------|-------|--|----|------|--------|------|----|--|
| Benzo (a) anthracene                   | 0.0237                    | 0.00500 | mg/kg | 0.0333                                   | ND | 71.0 | 30-120 | 7.89 | 30 |  |
| Chrysene                               | 0.0219                    | 0.00500 | "     | 0.0333                                   | ND | 65.7 | 30-120 | 10.7 | 30 |  |
| Fluoranthene                           | 0.0221                    | 0.00500 | "     | 0.0333                                   | ND | 66.2 | 30-120 | 9.50 | 30 |  |
| Pyrene                                 | 0.0236                    | 0.00500 | "     | 0.0333                                   | ND | 70.7 | 35-142 | 10.4 | 30 |  |
| 1-Methylnaphthalene                    | 0.0211                    | 0.00500 | "     | 0.0333                                   | ND | 63.4 | 15-130 | 2.95 | 50 |  |
| 2-Methylnaphthalene                    | 0.0210                    | 0.00500 | "     | 0.0333                                   | ND | 63.0 | 15-130 | 16.1 | 50 |  |
| Surrogate: 2-Methylnaphthalene-d10     | 0.0235                    |         | "     | 0.0333                                   |    | 70.5 | 40-150 |      |    |  |
| Surrogate: Fluoranthene-d10            | 0.0258                    |         | "     | 0.0333                                   |    | 77.5 | 40-150 |      |    |  |

Summit Scientific

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

Project: PDC - Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

**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 BGG0320 - EPA 3050B**

**Blank (BGG0320-BLK1)**

Prepared: 07/12/23 Analyzed: 07/14/23

Boron ND 0.0100 mg/L

**LCS (BGG0320-BS1)**

Prepared: 07/12/23 Analyzed: 07/14/23

Boron 5.46 0.0100 mg/L 5.00 109 80-120

**Duplicate (BGG0320-DUP1)**

Source: 2307014-06

Prepared: 07/12/23 Analyzed: 07/14/23

Boron 0.193 0.0100 mg/L 0.195 0.680 20

**Matrix Spike (BGG0320-MS1)**

Source: 2307014-06

Prepared: 07/12/23 Analyzed: 07/14/23

Boron 6.03 0.0100 mg/L 5.00 0.195 117 75-125

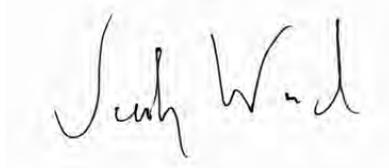
**Matrix Spike Dup (BGG0320-MSD1)**

Source: 2307014-06

Prepared: 07/12/23 Analyzed: 07/14/23

Boron 5.97 0.0100 mg/L 5.00 0.195 115 75-125 0.991 25

Summit Scientific



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

Project: PDC - Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

**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 BGG0431 - General Preparation**

**Blank (BGG0431-BLK1)**

Prepared: 07/14/23 Analyzed: 07/19/23

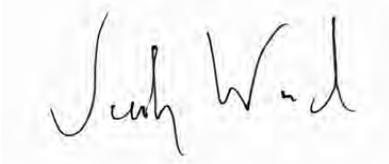
|           |    |        |          |  |  |  |  |  |  |  |
|-----------|----|--------|----------|--|--|--|--|--|--|--|
| Calcium   | ND | 0.0500 | mg/L wet |  |  |  |  |  |  |  |
| Magnesium | ND | 0.0500 | "        |  |  |  |  |  |  |  |
| Sodium    | ND | 0.0500 | "        |  |  |  |  |  |  |  |

**LCS (BGG0431-BS1)**

Prepared: 07/14/23 Analyzed: 07/19/23

|           |      |        |          |      |  |     |        |  |  |  |
|-----------|------|--------|----------|------|--|-----|--------|--|--|--|
| Calcium   | 6.01 | 0.0500 | mg/L wet | 5.00 |  | 120 | 70-130 |  |  |  |
| Magnesium | 5.76 | 0.0500 | "        | 5.00 |  | 115 | 70-130 |  |  |  |
| Sodium    | 5.43 | 0.0500 | "        | 5.00 |  | 109 | 70-130 |  |  |  |

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

Project: PDC - Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

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

**Summit Scientific**

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

**Batch BGG0298 - General Preparation**

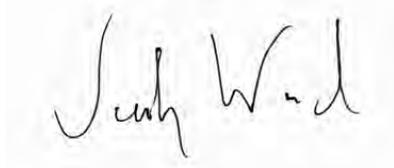
**Duplicate (BGG0298-DUP1)**

**Source: 2307150-02**

Prepared & Analyzed: 07/11/23

|          |      |  |   |  |      |  |  |        |    |  |
|----------|------|--|---|--|------|--|--|--------|----|--|
| % Solids | 91.1 |  | % |  | 91.0 |  |  | 0.0845 | 20 |  |
|----------|------|--|---|--|------|--|--|--------|----|--|

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

Project: PDC - Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

**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 |             |               | Limits | RPD | Limit |  |       |

**Batch BGG0505 - General Preparation**

**Blank (BGG0505-BLK1)**

Prepared & Analyzed: 07/17/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGG0505-BS1)**

Prepared & Analyzed: 07/17/23

Specific Conductance (EC) 0.158 0.0100 mmhos/cm 0.150 105 95-105

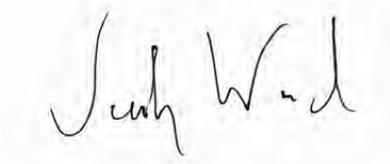
**Duplicate (BGG0505-DUP1)**

Source: 2307157-01

Prepared & Analyzed: 07/17/23

Specific Conductance (EC) 0.335 0.0100 mmhos/cm 0.338 0.773 20

Summit Scientific



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

Project: PDC - Fagerberg Pad

Project Number: [none]

Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

**Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013 - Quality Control**

**Summit Scientific**

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

**Batch BGG0398 - General Preparation**

**Blank (BGG0398-BLK1)**

Prepared & Analyzed: 07/13/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGG0398-BS1)**

Prepared & Analyzed: 07/13/23

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

**Duplicate (BGG0398-DUP1)**

Source: 2306060-10

Prepared & Analyzed: 07/13/23

Specific Conductance (EC) 1.14 0.0100 mmhos/cm 1.14 0.263 20

Summit Scientific

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

Project: PDC - Fagerberg Pad

Project Number: [none]  
Project Manager: Mark Longhurst

**Reported:**  
07/20/23 10:20

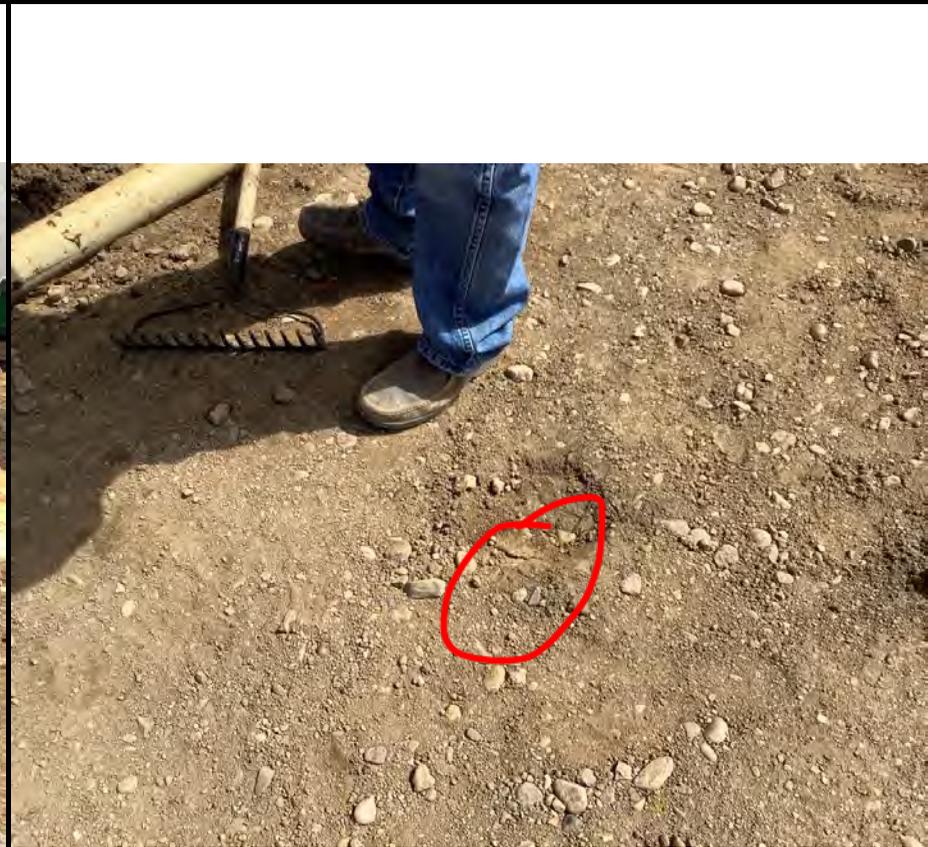
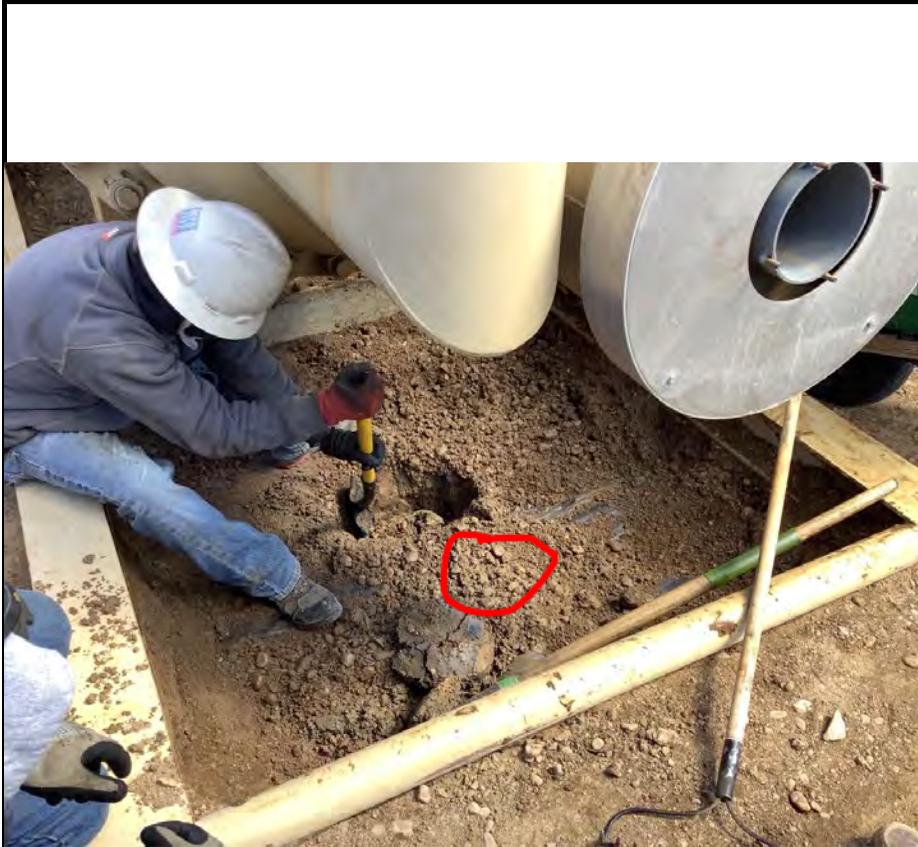
### Notes and Definitions

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



| <b>SITE NAME:</b> Fagerberg Release   |                       |                 |             |                |        |                     | <b>DATE:</b><br>4/08/2022                         | <b>REM. PROJECT #:</b><br>481934 | <b>WEATHER:</b><br>Sunny 50s |               |  |
|---|-----------------------|-----------------|-------------|----------------|--------|---------------------|---|----------------------------------|------------------------------|---------------|--|
| <b>SITE DIRECTIONS:</b> Located at CR35 and CR71  |                       |                 |             |                |        |                     | <b>CLIENT:</b> PDC - Delbert Pace                 |                                  |                              |               |  |
| <b>LEGALS AND LAT/LONG:</b> 40.502490,-104.733780 SWSW SEC 12 TWP 6N RNG 66W MERIDIAN 6 |                       |                 |             |                |        |                     | <b>TASMAN PERSONNEL:</b> Jesse Marcus             |                                  |                              |               |  |
| <b>SOIL TYPES:</b> Clayey Sand - SC   |                       |                 |             |                |        |                     | <b>SURFACE GRADIENT:</b> Northeast                |                                  |                              |               |  |
| <b>SOIL SAMPLING</b>  |                       |                 |             |                |        |                     | <b>FACILITY INFRASTRUCTURE</b>                    |                                  |                              |               |  |
| Date/Time   | Soil Sample ID        | PID (ppm)       | Visual      | Olfactory      | Photo? | Grab or Lab Sample? | EQUIPMENT   |                                  | Quantity                     |               |  |
|   |                       |                 |             |                |        |                     | Above Ground Storage Tank (AST)                   |                                  |                              |               |  |
| 4/7/2022 14:35  | SS01                  | 4608            | No Staining | Strong HC Odor | Yes    | Lab                 | Buried or Partially Buried Vessel                 |                                  |                              |               |  |
| 4/7/2022 14:36  | SS02                  | 0.0             | No Staining | No Odor        | Yes    | Lab                 | Separator   |                                  |                              |               |  |
| 4/7/2022 14:37  | SS03                  | 0.0             | No Staining | No Odor        | Yes    | Lab                 | Emission Control Device (ECD)                     |                                  |                              |               |  |
| 4/7/2022 14:38  | SS04                  | 0.0             | No Staining | No Odor        | Yes    | Lab                 | Dump Line   |                                  |                              |               |  |
| 4/7/2022 14:39  | SS05                  | 0.0             | No Staining | No Odor        | Yes    | Lab                 | Wellhead  |                                  |                              |               |  |
| 4/7/2022 14:40  | SS06                  | 0.0             | No Staining | No Odor        | Yes    | Lab                 | Flowline  |                                  |                              |               |  |
| 4/7/2022 14:41  | SS07                  | 0.0             | No Staining | No Odor        | Yes    | Lab                 | Other:  |                                  |                              |               |  |
| 4/7/2022 14:42  | SS09                  | 0.0             | No Staining | No Odor        | Yes    | Lab                 | Soil Loads Removed                                |                                  |                              |               |  |
| 4/7/2022 14:43  | SS10                  | 0.0             | No Staining | No Odor        | Yes    | Lab                 | <b>IMPACTED SOIL IDENTIFIED?</b>                  |                                  |                              |               |  |
| 4/7/2022 14:44  | SS11@2'               | 1750            | No Staining | Strong HC Odor | Yes    | Lab                 | <b>ESTIMATED VOLUME OF IMPACTS:</b>               |                                  |                              |               |  |
| 4/8/2022 13:03  | GS01@4', B            | 16.9            | No Staining | Slight HC Odor | Yes    | Grab                | <b>Date</b>                                       | <b>Number</b>                    | <b>CY</b>                    |               |  |
| 4/8/2022 13:04  | GS01@1', S            | 48.8            | No Staining | Slight HC Odor | Yes    | Grab                |   |                                  |                              |               |  |
| 4/8/2022 13:06  | GS02@1, E             | 2899            | No Staining | Strong HC Odor | Yes    | Grab                |   |                                  |                              |               |  |
| 4/8/2022 13:08  | GS03@1', N            | 447.7           | No Staining | Strong HC Odor | Yes    | Grab                |   |                                  |                              |               |  |
| 4/8/2022 13:09  | GS04@1, W             | 29.8            | No Staining | Slight HC Odor | Yes    | Grab                |   |                                  |                              |               |  |
| 4/8/2022 13:40  | SS15@4'               | 29.5            | No Staining | Slight HC Odor | Yes    | Lab                 | <b>Total Removed</b>                              |                                  | 0                            | 0             |  |
| 4/8/2022 13:37  | SS12@0-6"             | 0.0             | No Staining | No Odor        | Yes    | Lab                 | <b>Disposal Facility:</b>                         |                                  |                              |               |  |
| 4/8/2022 13:38  | SS13@0-6"             | 0.0             | No Staining | No Odor        | Yes    | Lab                 | <b>Groundwater Recovery</b>                       |                                  |                              |               |  |
| 4/8/2022 13:39  | SS14@0-6"             | 0.0             | No Staining | No Odor        | Yes    | Lab                 | <b>DATE GW ENCOUNTERED:</b>                       |                                  |                              | <b>DEPTH:</b> |  |
|   |                       |                 |             |                |        |                     | <b>GROUNDWATER IN CONTACT WITH IMPACTED SOIL?</b> |                                  |                              |               |  |
|   |                       |                 |             |                |        |                     | <b>LNAPL OR SHEEN OBSERVED ON GW?</b>             |                                  |                              |               |  |
| <b>GROUNDWATER SAMPLING</b>   |                       |                 |             |                |        |                     | <b>Date</b>                                       |                                  | <b>BBLs</b>                  |               |  |
| Date/Time   | Groundwater Sample ID | Depth Collected | Turbid?     | Sheen?         | Odor?  | Photo?              |   |                                  |                              |               |  |
|   |                       |                 |             |                |        |                     |   |                                  |                              |               |  |
|   |                       |                 |             |                |        |                     |   |                                  |                              |               |  |
|   |                       |                 |             |                |        |                     | <b>Total Removed</b>                              |                                  | 0                            |               |  |
|   |                       |                 |             |                |        |                     | <b>Disposal Facility:</b>                         |                                  |                              |               |  |

Photographic Log



|                               |                |                        |  |
|-------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>          |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>              | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> SS01 |                |                        |  |

|                               |                |                        |  |
|-------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>          |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>              | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> SS02 |                |                        |  |

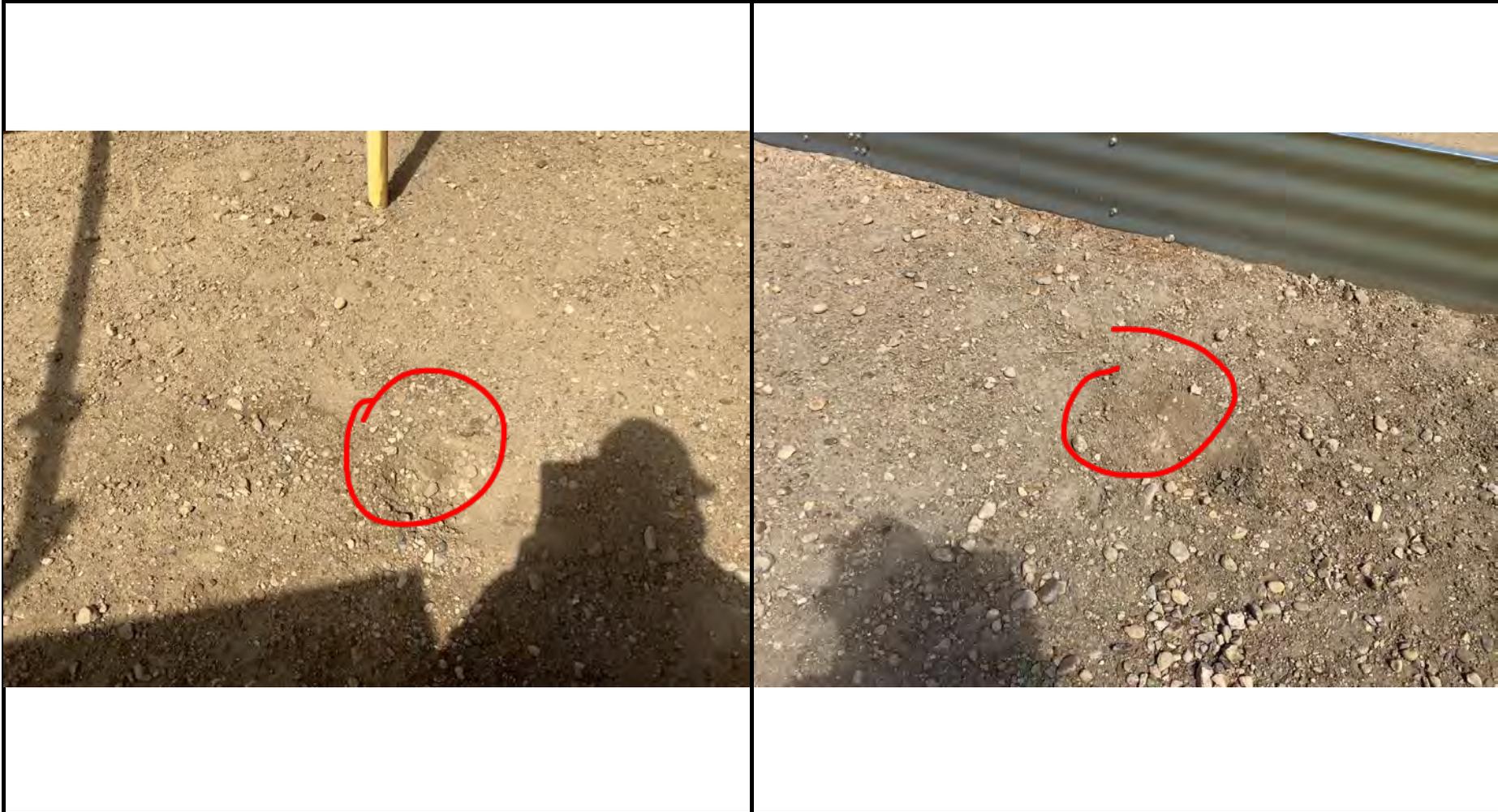
Photographic Log



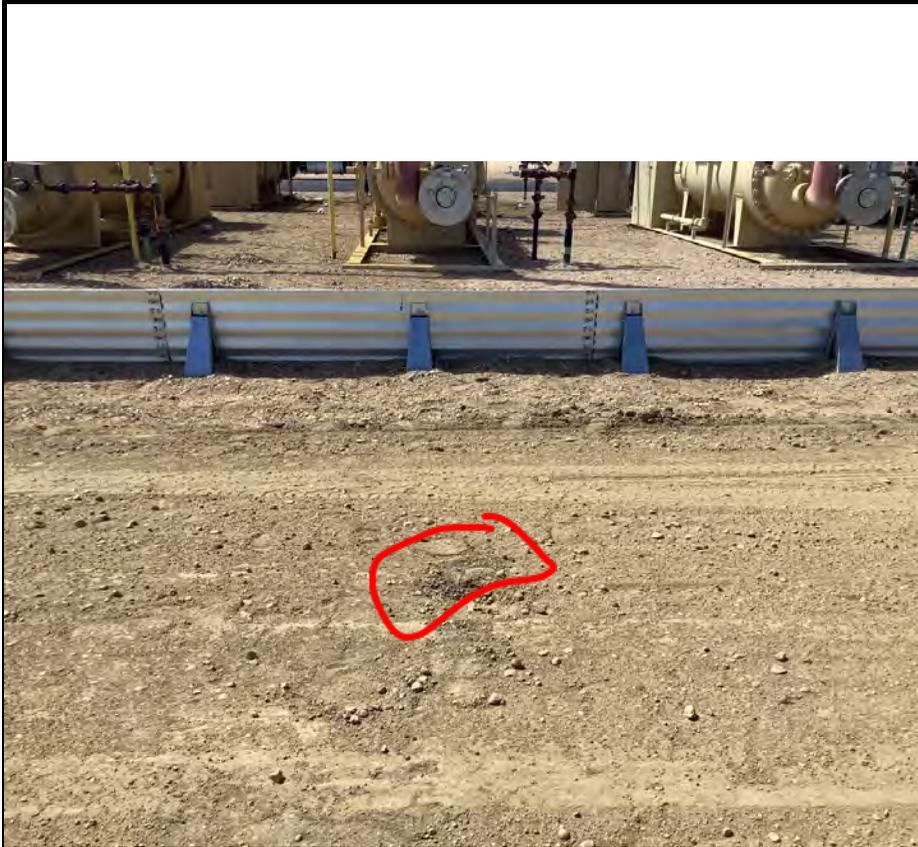
|                               |                |                        |  |
|-------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>          |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>              | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> SS03 |                |                        |  |

|                               |                |                        |  |
|-------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>          |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>              | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> SS04 |                |                        |  |

Photographic Log



|                               |                |                        |  |                               |                |                        |  |
|-------------------------------|----------------|------------------------|--|-------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>          |                | <b>Equipment Type:</b> |  | <b>Equipment ID:</b>          |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>              | <b>Volume:</b> | <b>Contents:</b>       |  | <b>Material:</b>              | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> SS05 |                |                        |  | <b>Notes/Conditions:</b> SS06 |                |                        |  |

**Photographic Log**


|                               |                |                        |  |
|-------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>          |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>              | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> SS07 |                |                        |  |

|                               |                |                        |  |
|-------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>          |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>              | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> SS08 |                |                        |  |



**Photographic Log**


|                                  |                |                        |  |
|----------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>             |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>                 | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> SS11@2' |                |                        |  |

|                               |                |                        |  |
|-------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>          |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>              | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> SS12 |                |                        |  |

Photographic Log



|                               |                |                        |  |                               |                |                        |  |
|-------------------------------|----------------|------------------------|--|-------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>          |                | <b>Equipment Type:</b> |  | <b>Equipment ID:</b>          |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>              | <b>Volume:</b> | <b>Contents:</b>       |  | <b>Material:</b>              | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> SS13 |                |                        |  | <b>Notes/Conditions:</b> SS14 |                |                        |  |

**Photographic Log**

|   |  |                        |  |                      |  |                          |  |                |  |                  |  |
|---|--|------------------------|--|----------------------|--|--------------------------|--|----------------|--|------------------|--|
|  |  |                        |  |                      |  |                          |  |                |  |                  |  |
|   |  |                        |  |                      |  |                          |  |                |  |                  |  |
| <b>Equipment ID:</b>  |  | <b>Equipment Type:</b> |  | <b>Equipment ID:</b> |  | <b>Equipment Type:</b>   |  |                |  |                  |  |
| <b>Material:</b>  |  | <b>Volume:</b>         |  | <b>Contents:</b>     |  | <b>Material:</b>         |  | <b>Volume:</b> |  | <b>Contents:</b> |  |
| <b>Notes/Conditions:</b> SS15@4'  |  |                        |  |                      |  | <b>Notes/Conditions:</b> |  |                |  |                  |  |



| <b>SITE NAME:</b> Fagerberg pad                    |                       |                 |                  |                |        |                     | <b>DATE:</b> 4/15/2022                            | <b>REM. PROJECT #:</b> 481934 | <b>WEATHER:</b> 50s |
|--|-----------------------|-----------------|------------------|----------------|--------|---------------------|---|-------------------------------|---------------------|
| <b>SITE DIRECTIONS:</b> Located at Cr 35 & 71      |                       |                 |                  |                |        |                     | <b>CLIENT:</b> PDC                                |                               |                     |
| <b>LEGALS AND LAT/LONG:</b> 40.502490, -104.733780 |                       |                 |                  |                |        |                     | <b>TASMAN PERSONNEL:</b> Bryce Goldade            |                               |                     |
| <b>SOIL TYPES:</b> Clayey Sand - SC                |                       |                 |                  |                |        |                     | <b>SURFACE GRADIENT:</b> Northeast                |                               |                     |
| <b>SOIL SAMPLING</b>                               |                       |                 |                  |                |        |                     | <b>FACILITY INFRASTRUCTURE</b>                    |                               |                     |
| Date/Time  | Soil Sample ID        | PID (ppm)       | Visual           | Olfactory      | Photo? | Grab or Lab Sample? | EQUIPMENT   |                               | Quantity            |
|  |                       |                 |                  |                |        |                     | Above Ground Storage Tank (AST)                   |                               |                     |
| 4/15/2022 11:20                                    | GS09@5.5'             | 127.3           | HC Staining      | HC Odor        | Yes    | Grab                | Buried or Partially Buried Vessel                 |                               |                     |
| 4/15/2022 11:20                                    | SS23 @ 7'             | 4.7             | No Staining      | Slight HC Odor | Yes    | Lab                 | Separator   |                               |                     |
|  |                       |                 |                  |                |        |                     | Emission Control Device (ECD)                     |                               |                     |
|  |                       |                 |                  |                |        |                     | Dump Line   |                               |                     |
|  |                       |                 |                  |                |        |                     | Wellhead  |                               |                     |
|  |                       |                 |                  |                |        |                     | Flowline  |                               |                     |
|  |                       |                 |                  |                |        |                     | Other:  |                               |                     |
|  |                       |                 |                  |                |        |                     | <b>Soil Loads Removed</b>                         |                               |                     |
|  |                       |                 |                  |                |        |                     | <b>IMPACTED SOIL IDENTIFIED?</b>                  |                               |                     |
|  |                       |                 |                  |                |        |                     | <b>ESTIMATED VOLUME OF IMPACTS:</b>               |                               |                     |
|  |                       |                 |                  |                |        |                     | <b>Date</b>                                       | <b>Number</b>                 | <b>CY</b>           |
|  |                       |                 |                  |                |        |                     | 4/15/2022   | 1                             | 10                  |
|  |                       |                 |                  |                |        |                     |   |                               |                     |
|  |                       |                 |                  |                |        |                     |   |                               |                     |
|  |                       |                 |                  |                |        |                     | <b>Total Removed</b>                              |                               | 10                  |
|  |                       |                 |                  |                |        |                     | <b>Disposal Facility:</b>                         |                               |                     |
|  |                       |                 |                  |                |        |                     | <b>Groundwater Recovery</b>                       |                               |                     |
|  |                       |                 |                  |                |        |                     | <b>DATE GW ENCOUNTERED:</b> 4/15/2022             | <b>DEPTH:</b> 7'              |                     |
|  |                       |                 |                  |                |        |                     | <b>GROUNDWATER IN CONTACT WITH IMPACTED SOIL?</b> |                               |                     |
|  |                       |                 |                  |                |        |                     | <b>LNAPL OR SHEEN OBSERVED ON GW?</b>             |                               |                     |
| <b>GROUNDWATER SAMPLING</b>                        |                       |                 |                  |                |        |                     | <b>Date</b>                                       | <b>BBLs</b>                   |                     |
| Date/Time  | Groundwater Sample ID | Depth Collected | Turbid?          | Sheen?         | Odor?  | Photo?              |   |                               |                     |
| 4/15/2022 11:25                                    | GW01                  | 8               | Medium Turbidity | Light Sheen    | None   | Yes                 |   |                               |                     |
|  |                       |                 |                  |                |        |                     |   |                               |                     |
|  |                       |                 |                  |                |        |                     | <b>Total Removed</b>                              |                               | 0                   |
|  |                       |                 |                  |                |        |                     | <b>Disposal Facility:</b>                         |                               |                     |

## Photographic Log



|  |                |                        |  |                          |                |                        |  |
|--|----------------|------------------------|--|--------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>                                     |                | <b>Equipment Type:</b> |  | <b>Equipment ID:</b>     |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>   | <b>Volume:</b> | <b>Contents:</b>       |  | <b>Material:</b>         | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> GS09 @ 5', SS23 @ 7', GW01 @ 7' |                |                        |  | <b>Notes/Conditions:</b> |                |                        |  |



## TANK BATTERY DECOMMISSIONING FORM

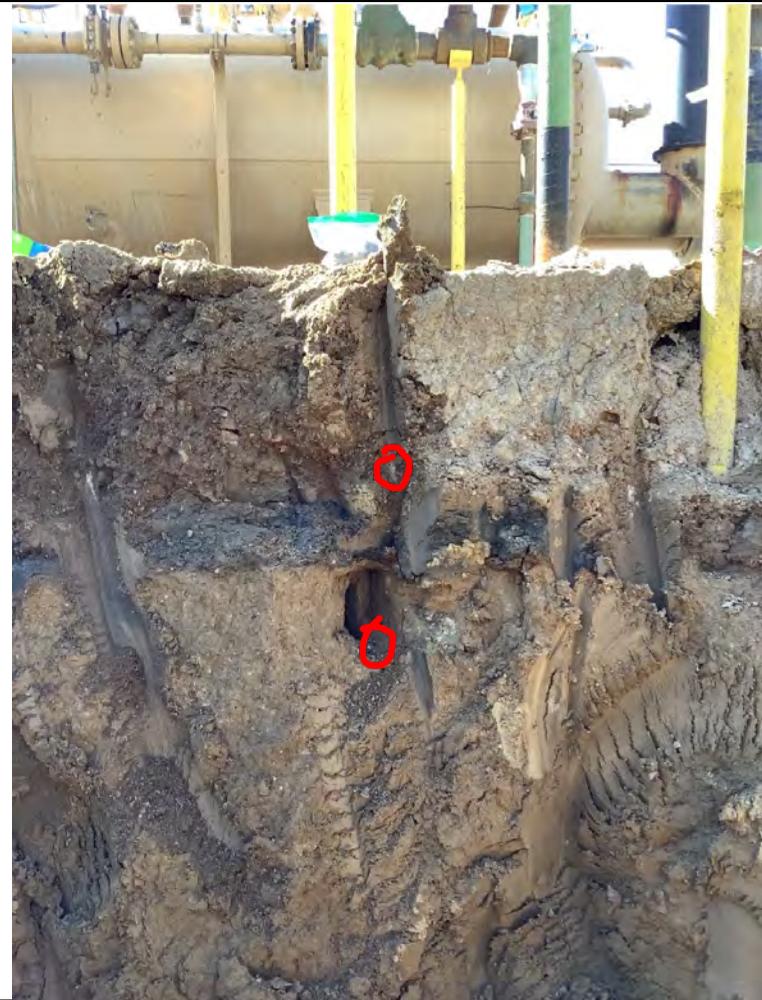
| <b>SITE NAME:</b> Fagerberg Release   |                       |                 |                 |              |        |                     | <b>DATE:</b> 4/14/2022                            | <b>REM. PROJECT #:</b> 481934 | <b>WEATHER:</b> Sunny 36 |    |
|---|-----------------------|-----------------|-----------------|--------------|--------|---------------------|---|-------------------------------|--------------------------|----|
| <b>SITE DIRECTIONS:</b> located at CR35 and CR71  |                       |                 |                 |              |        |                     | <b>CLIENT:</b> PDC                                |                               |                          |    |
| <b>LEGALS AND LAT/LONG:</b> 40.502490,-104.733780 SWSW SEC 12 TWP 6N RNG 66W MERIDIAN 6 |                       |                 |                 |              |        |                     | <b>TASMAN PERSONNEL:</b> Sam Anderson             |                               |                          |    |
| <b>SOIL TYPES:</b> Clayey Sand - SC   |                       |                 |                 |              |        |                     | <b>SURFACE GRADIENT:</b> Northeast                |                               |                          |    |
| SOIL SAMPLING   |                       |                 |                 |              |        |                     | FACILITY INFRASTRUCTURE                           |                               |                          |    |
| Date/Time   | Soil Sample ID        | PID (ppm)       | Visual          | Olfactory    | Photo? | Grab or Lab Sample? | EQUIPMENT   |                               | Quantity                 |    |
|   |                       |                 |                 |              |        |                     | Above Ground Storage Tank (AST)                   |                               |                          |    |
| 4/14/2022 08:50   | SS16 @2'              | 9.6             | No Staining     | No Odor      | Yes    | Lab                 | Buried or Partially Buried Vessel                 |                               |                          |    |
| 4/14/2022 10:15   | GS05@1'               | 1.1             | Organic Content | Organic Odor | Yes    | Grab                | Separator   |                               |                          |    |
| 4/14/2022 09:10   | SS17@2'               | 0.9             | No Staining     | No Odor      | Yes    | Lab                 | Emission Control Device (ECD)                     |                               |                          |    |
| 4/14/2022 10:18   | GS06@1'               | 1.9             | Organic Content | Organic Odor | Yes    | Grab                | Dump Line   |                               |                          |    |
| 4/14/2022 09:30   | SS18@2'               | 1.0             | No Staining     | No Odor      | Yes    | Lab                 | Wellhead  |                               |                          |    |
| 4/14/2022 10:20   | GS07@1'               | 2.4             | Organic Content | Organic Odor | Yes    | Grab                | Flowline  |                               |                          |    |
| 4/14/2022 09:50   | SS19@2'               | 4.5             | No Staining     | No Odor      | Yes    | Lab                 | Other:  |                               |                          |    |
| 4/14/2022 10:22   | GS08 @ 1'             | 1.5             | Organic Content | Organic Odor | Yes    | Grab                | Soil Loads Removed                                |                               |                          |    |
| 4/14/2022 10:10   | SS20@4'               | 3.3             | No Staining     | No Odor      | Yes    | Lab                 | <b>IMPACTED SOIL IDENTIFIED?</b>                  |                               |                          |    |
| 4/14/2022 10:29   | SS21@2.5'             | 0.8             | No Staining     | No Odor      | Yes    | Lab                 | <b>ESTIMATED VOLUME OF IMPACTS:</b>               |                               |                          |    |
| 4/14/2022 10:39   | SS22@2.5'             | 0.4             | No Staining     | No Odor      | Yes    | On-Hold             | <b>Date</b>                                       | <b>Number</b>                 | <b>CY</b>                |    |
| 4/14/2022 11:00   | BKG01@2'              | 0.3             | No Staining     | No Odor      | Yes    | Lab                 | 4/14/2022   | 2                             | 20                       |    |
| 4/14/2022 11:04   | BKG01@2.5'            | 0.4             | No Staining     | No Odor      | Yes    | Lab                 | 4/8/2022  | 2                             | 10                       |    |
| 4/14/2022 11:08   | BKG01@4'              | 0.2             | No Staining     | No Odor      | Yes    | Lab                 |   |                               |                          |    |
| 4/18/2022 12:50   | SS24@4'               | 2.2             | No Staining     | No Odor      | Yes    | Lab                 |   |                               |                          |    |
| 4/18/2022 12:55   | SS25@7'               | 4.1             | No Staining     | No Odor      | Yes    | Lab                 | <b>Total Removed</b>                              |                               | 4                        | 30 |
| 4/18/2022 13:00   | SS26@4'               | 1.8             | No Staining     | No Odor      | Yes    | Lab                 | <b>Disposal Facility:</b> WM - Ault               |                               |                          |    |
| 4/18/2022 13:05   | SS27@7'               | 34.8            | No Staining     | No Odor      | Yes    | Lab                 | <b>Groundwater Recovery</b>                       |                               |                          |    |
| 4/18/2022 13:10   | SS28@4'               | 6.1             | No Staining     | No Odor      | Yes    | Lab                 | <b>DATE GW ENCOUNTERED:</b> 4/15/2022             |                               | <b>DEPTH:</b> 8          |    |
| 4/18/2022 13:15   | SS29@7'               | 1.9             | No Staining     | No Odor      | Yes    | Lab                 | <b>GROUNDWATER IN CONTACT WITH IMPACTED SOIL?</b> |                               |                          |    |
| 4/18/2022 13:20   | SS30@4'               | 3.7             | No Staining     | No Odor      | Yes    | Lab                 |   |                               |                          |    |
| 4/18/2022 13:25   | SS31@7'               | 1.5             | No Staining     | No Odor      | Yes    | Lab                 | <b>LNAPL OR SHEEN OBSERVED ON GW?</b>             |                               |                          |    |
| GROUNDWATER SAMPLING  |                       |                 |                 |              |        |                     | Date  |                               | BBLs                     |    |
| Date/Time   | Groundwater Sample ID | Depth Collected | Turbid?         | Sheen?       | Odor?  | Photo?              |   |                               |                          |    |
|   |                       |                 |                 |              |        |                     |   |                               |                          |    |
|   |                       |                 |                 |              |        |                     |   |                               |                          |    |
|   |                       |                 |                 |              |        |                     | <b>Total Removed</b>                              |                               | 0                        |    |
|   |                       |                 |                 |              |        |                     | <b>Disposal Facility:</b>                         |                               |                          |    |

### Photographic Log

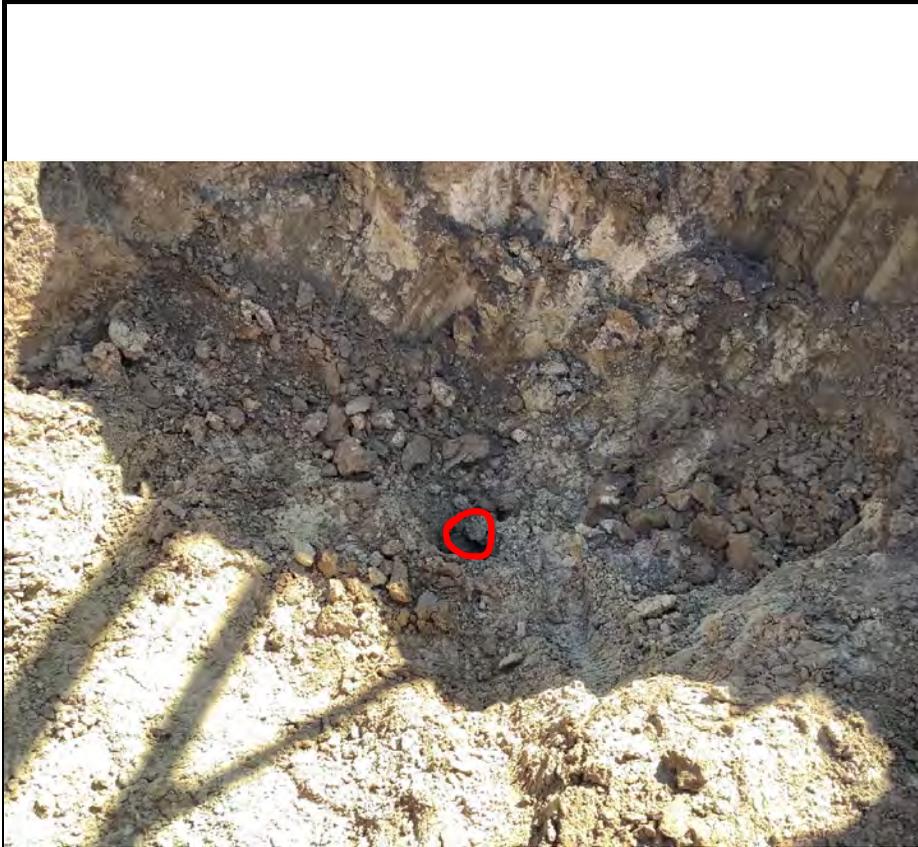


|                                  |                |                        |  |                                  |                |                        |  |
|----------------------------------|----------------|------------------------|--|----------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b> GS05 & SS16 |                | <b>Equipment Type:</b> |  | <b>Equipment ID:</b> GS06 & SS17 |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>                 | <b>Volume:</b> | <b>Contents:</b>       |  | <b>Material:</b>                 | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b>         |                |                        |  | <b>Notes/Conditions:</b>         |                |                        |  |

Photographic Log



|                                  |                |                        |  |                                  |                |                        |  |
|----------------------------------|----------------|------------------------|--|----------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b> GS07 & SS18 |                | <b>Equipment Type:</b> |  | <b>Equipment ID:</b> GS08 & SS19 |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>                 | <b>Volume:</b> | <b>Contents:</b>       |  | <b>Material:</b>                 | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b>         |                |                        |  | <b>Notes/Conditions:</b>         |                |                        |  |

**Photographic Log**


|                           |                |                        |  |                           |                |                        |  |
|---------------------------|----------------|------------------------|--|---------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b> SS20 |                | <b>Equipment Type:</b> |  | <b>Equipment ID:</b> SS21 |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>          | <b>Volume:</b> | <b>Contents:</b>       |  | <b>Material:</b>          | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b>  |                |                        |  | <b>Notes/Conditions:</b>  |                |                        |  |

Photographic Log



|                           |                |                        |  |                            |                |                        |  |
|---------------------------|----------------|------------------------|--|----------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b> SS22 |                | <b>Equipment Type:</b> |  | <b>Equipment ID:</b> BKG01 |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>          | <b>Volume:</b> | <b>Contents:</b>       |  | <b>Material:</b>           | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b>  |                |                        |  | <b>Notes/Conditions:</b>   |                |                        |  |

Photographic Log



|                                |                |                        |  |
|--------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b> SS24 SS25 |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>               | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b>       |                |                        |  |

|                                |                |                        |  |
|--------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b> SS26 SS27 |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>               | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b>       |                |                        |  |

**Photographic Log**


|                                |                |                        |  |
|--------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b> SS28 SS29 |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>               | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b>       |                |                        |  |

|                                |                |                        |  |
|--------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b> SS30 SS31 |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>               | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b>       |                |                        |  |



| <b>SITE NAME:</b> Fagerberg Pad      |                       |                 |             |           |        |                     | <b>DATE:</b> 10/7/2022                            | <b>REM. PROJECT #:</b> | <b>WEATHER:</b><br>50s cloudy |
|--------------------------------------|-----------------------|-----------------|-------------|-----------|--------|---------------------|---|------------------------|-------------------------------|
| <b>SITE DIRECTIONS:</b>              |                       |                 |             |           |        |                     | <b>CLIENT:</b><br>PDC                             |                        |                               |
| <b>LEGALS AND LAT/LONG:</b>          |                       |                 |             |           |        |                     | <b>TASMAN PERSONNEL:</b><br>DV/KS                 |                        |                               |
| <b>SOIL TYPES:</b><br>Lean Clay - CL |                       |                 |             |           |        |                     | <b>SURFACE GRADIENT:</b><br>West                  |                        |                               |
| <b>SOIL SAMPLING</b>                 |                       |                 |             |           |        |                     | <b>FACILITY INFRASTRUCTURE</b>                    |                        |                               |
| Date/Time                            | Soil Sample ID        | PID (ppm)       | Visual      | Olfactory | Photo? | Grab or Lab Sample? | <b>EQUIPMENT</b>                                  |                        | <b>Quantity</b>               |
|                                      |                       |                 |             |           |        |                     | <b>Above Ground Storage Tank (AST)</b>            |                        |                               |
| 10/7/2022 14:30                      | BKG02 @ 0-6"          | 0.0             | No Staining | No Odor   | Yes    | Lab                 | <b>Buried or Partially Buried Vessel</b>          |                        |                               |
| 10/7/2022 14:32                      | BKG03 @ 0-6"          | 0.0             | No Staining | No Odor   | Yes    | Lab                 | <b>Separator</b>                                  |                        |                               |
| 10/7/2022 14:34                      | BKG04 @ 0-6"          | 0.0             | No Staining | No Odor   | Yes    | Lab                 | <b>Emission Control Device (ECD)</b>              |                        |                               |
| 10/7/2022 14:36                      | BKG05 @ 0-6"          | 0.0             | No Staining | No Odor   | Yes    | Lab                 | <b>Dump Line</b>                                  |                        |                               |
| 10/7/2022 14:38                      | BKG06 @ 0-6"          | 0.0             | No Staining | No Odor   | Yes    | Lab                 | <b>Wellhead</b>                                   |                        |                               |
| 10/7/2022 14:40                      | BKG07 @ 0-6"          | 0.0             | No Staining | No Odor   | Yes    | Lab                 | <b>Flowline</b>                                   |                        |                               |
|                                      |                       |                 |             |           |        |                     | <b>Other:</b>                                     |                        |                               |
|                                      |                       |                 |             |           |        |                     | <b>Soil Loads Removed</b>                         |                        |                               |
|                                      |                       |                 |             |           |        |                     | <b>IMPACTED SOIL IDENTIFIED?</b>                  |                        |                               |
|                                      |                       |                 |             |           |        |                     | <b>ESTIMATED VOLUME OF IMPACTS:</b>               |                        |                               |
|                                      |                       |                 |             |           |        |                     | <b>Date</b>                                       | <b>Number</b>          | <b>CY</b>                     |
|                                      |                       |                 |             |           |        |                     |   |                        |                               |
|                                      |                       |                 |             |           |        |                     |   |                        |                               |
|                                      |                       |                 |             |           |        |                     |   |                        |                               |
|                                      |                       |                 |             |           |        |                     |   |                        |                               |
|                                      |                       |                 |             |           |        |                     | <b>Total Removed</b>                              | 0                      | 0                             |
|                                      |                       |                 |             |           |        |                     | <b>Disposal Facility:</b>                         |                        |                               |
|                                      |                       |                 |             |           |        |                     | <b>Groundwater Recovery</b>                       |                        |                               |
|                                      |                       |                 |             |           |        |                     | <b>DATE GW ENCOUNTERED:</b>                       |                        | <b>DEPTH:</b>                 |
|                                      |                       |                 |             |           |        |                     | <b>GROUNDWATER IN CONTACT WITH IMPACTED SOIL?</b> |                        |                               |
|                                      |                       |                 |             |           |        |                     | <b>LNAPL OR SHEEN OBSERVED ON GW?</b>             |                        |                               |
| <b>GROUNDWATER SAMPLING</b>          |                       |                 |             |           |        |                     | <b>Date</b>                                       | <b>BBLS</b>            |                               |
| Date/Time                            | Groundwater Sample ID | Depth Collected | Turbid?     | Sheen?    | Odor?  | Photo?              |   |                        |                               |
|                                      |                       |                 |             |           |        |                     |   |                        |                               |
|                                      |                       |                 |             |           |        |                     |   |                        |                               |
|                                      |                       |                 |             |           |        |                     | <b>Total Removed</b>                              | 0                      |                               |
|                                      |                       |                 |             |           |        |                     | <b>Disposal Facility:</b>                         |                        |                               |

## Photographic Log



|                                |                |                        |  |
|--------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>           |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>               | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> BKG04 |                |                        |  |

|                                |                |                        |  |
|--------------------------------|----------------|------------------------|--|
| <b>Equipment ID:</b>           |                | <b>Equipment Type:</b> |  |
| <b>Material:</b>               | <b>Volume:</b> | <b>Contents:</b>       |  |
| <b>Notes/Conditions:</b> BKG05 |                |                        |  |

Photographic Log

|   |         |           |  |         |           |
|---|---------|-----------|--|---------|-----------|
|  |         |           |  |         |           |
|   |         |           |  |         |           |
| Material:   | Volume: | Contents: | Material:  | Volume: | Contents: |
| Notes/Conditions: BKG06   |         |           | Notes/Conditions: BKG07  |         |           |

**Photographic Log**

|   |  |                                |  |  |                  |                      |
|---|--|--------------------------------|--|--|------------------|----------------------|
|  |  |                                |  |  |                  |                      |
|   |  |                                |  |  |                  | <b>Equipment ID:</b> |
| <b>Material:</b>  |  | <b>Volume:</b>                 | <b>Contents:</b>   |  | <b>Material:</b> |                      |
| <b>Notes/Conditions:</b> BKG02  |  | <b>Notes/Conditions:</b> BKG03 |  |  |                  |                      |



# Borehole Logging Form

|                                  |                                 |                                   |
|----------------------------------|---------------------------------|-----------------------------------|
| BOREHOLE ID: <b>SBO1</b>         | SITE NAME: <b>Fagerberg Pad</b> | CLIENT NAME: <b>PDC ENERGY</b>    |
| Date Completed: <b>7/10/23</b>   | Location:                       |                                   |
| Drilling Company: <b>Tasman</b>  | Surface Completion:             | DTW: <b>—</b> TD: <b>5'</b>       |
| Type of Drill: <b>Hand Auger</b> | Geologist: <b>JH, RY</b>        | Project Manager: <b>B. Nelson</b> |
| Bit Size : <b>2 3/8"</b>         | Logging Method:                 |                                   |

Well Const. Material: **NA**      Screen: **NA**      Riser: **NA**

| Depth (feet) | Well Completion | Sample Type | % Recovery | PID (ppm) | Laboratory Sample        | USCS       | Description  |  |
|--------------|-----------------|-------------|------------|-----------|--------------------------|------------|--|--|
| 1            | ↑<br>NA<br>↓    | ↑           | ↑          | 0.1       | SBO1@0'939<br>SBO1@1'930 | CL         | -0'-2' Brown, sandy clay, trace gravel, low plasticity, dry, no odor |  |
| 2            |                 |             |            | 0.2       |                          |            |  |  |
| 3            |                 | HA          | 100%       | 0.0       | SBO1@2'932               |            | -2'-5' As above, no gravel   |  |
| 4            |                 |             |            |           | 0.2                      | SBO1@3'935 |  |  |
| 5            |                 |             |            |           | 0.2                      | SBO1@4'937 |  |  |
| 6            |                 |             |            |           | SBO1@5'939               |            | - groundwater not encountered.                                       |  |
| 7            |                 |             |            |           |                          |            |  |  |
| 8            |                 |             |            |           |                          |            |  |  |
| 9            |                 |             |            |           |                          |            |  |  |
| 10           |                 |             |            |           |                          |            |  |  |
| 11           |                 |             |            |           |                          |            |  |  |
| 12           |                 |             |            |           |                          |            |  |  |
| 13           |                 |             |            |           |                          |            |  |  |
| 14           |                 |             |            |           |                          |            |  |  |
| 15           |                 |             |            |           |                          |            |  |  |
| 16           |                 |             |            |           |                          |            |  |  |
| 17           |                 |             |            |           |                          |            |  |  |
| 18           |                 |             |            |           |                          |            |  |  |
| 19           |                 |             |            |           |                          |            |  |  |
| 20           |                 |             |            |           |                          |            |  |  |
| 21           |                 |             |            |           |                          |            |  |  |
| 22           |                 |             |            |           |                          |            |  |  |
| 23           |                 |             |            |           |                          |            |  |  |
| 24           |                 |             |            |           |                          |            |  |  |
| 25           |                 |             |            |           |                          |            |  |  |



# Borehole Logging Form

|                                  |                                 |                                   |
|----------------------------------|---------------------------------|-----------------------------------|
| BOREHOLE ID: <b>S302</b>         | SITE NAME: <b>Fagerberg Pad</b> | CLIENT NAME: <b>PDC ENERGY</b>    |
| Date Completed: <b>7/10/23</b>   | Location:                       |                                   |
| Drilling Company: <b>Tasman</b>  | Surface Completion:             | DTW: <b>—</b> TD: <b>5'</b>       |
| Type of Drill: <b>Hand Auger</b> | Geologist: <b>JH, RY</b>        | Project Manager: <b>B. Nelson</b> |
| Bit Size : <b>2 3/8"</b>         | Logging Method:                 |                                   |

Well Const. Material: **NA**      Screen: **NA**      Riser: **NA**

| Depth (feet) | Well Completion | Sample Type | % Recovery | PID (ppm) | Laboratory Sample | USCS       | Description   |  |
|--------------|-----------------|-------------|------------|-----------|-------------------|------------|---|--|
| 1            | ↑<br>NA<br>↓    | ↑           | ↑          | 0.2       | S302@0'10"        | CL         | -0'-2' Brown, sandy clay, trace gravel, low plasticity, dry, no odor. |  |
| 2            |                 |             |            | 0.4       |                   |            |   |  |
| 3            |                 | HA          | 100%       | 0.1       | S302@2'10"        |            | -2'-5' As above, no gravel.   |  |
| 4            |                 | ↓           | ↓          | ↓         | 0.0               | S302@3'10" |   |  |
| 5            |                 |             |            |           | 0.3               | S302@4'10" |   |  |
| 6            |                 |             |            |           | S302@5'10"        |            | -Groundwater not encountered  |  |
| 7            |                 |             |            |           |                   |            |   |  |
| 8            |                 |             |            |           |                   |            |   |  |
| 9            |                 |             |            |           |                   |            |   |  |
| 10           |                 |             |            |           |                   |            |   |  |
| 11           |                 |             |            |           |                   |            |   |  |
| 12           |                 |             |            |           |                   |            |   |  |
| 13           |                 |             |            |           |                   |            |   |  |
| 14           |                 |             |            |           |                   |            |   |  |
| 15           |                 |             |            |           |                   |            |   |  |
| 16           |                 |             |            |           |                   |            |   |  |
| 17           |                 |             |            |           |                   |            |   |  |
| 18           |                 |             |            |           |                   |            |   |  |
| 19           |                 |             |            |           |                   |            |   |  |
| 20           |                 |             |            |           |                   |            |   |  |
| 21           |                 |             |            |           |                   |            |   |  |
| 22           |                 |             |            |           |                   |            |   |  |
| 23           |                 |             |            |           |                   |            |   |  |
| 24           |                 |             |            |           |                   |            |   |  |
| 25           |                 |             |            |           |                   |            |   |  |



# Borehole Logging Form

**BOREHOLE ID:** SB03      **SITE NAME:** Fagerberg Pad      **CLIENT NAME:** PDC ENERGY  
**Date Completed:** 7/10/23      **Location:**  
**Drilling Company:** Tasman      **Surface Completion:**      **DTW:** —      **TD:** 5'  
**Type of Drill:** Hand Auger      **Geologist:** JH, RY      **Project Manager:** B. Nelson  
**Bit Size:** 2 3/8"      **Logging Method:**

**Well Const. Material:** NA      **Screen:** NA      **Riser:** NA

| Depth (feet) | Well Completion | Sample Type | % Recovery | PID (ppm)   | Laboratory Sample | USCS        | Description  |  |
|--------------|-----------------|-------------|------------|-------------|-------------------|-------------|--|--|
| 1            | NA              | HA          | 100%       | 0.4         |                   | CL          | -0'-3' Brown, sandy clay, low plasticity, dry, trace gravel, no odor |  |
|              |                 |             |            | 0.3         | SB03@0'6"1046     |             |  |  |
| 2            |                 |             |            |             | 0.2               | SB03@1'1049 |  |  |
| 3            |                 |             |            |             | 0.5               | SB03@2'1052 |  |  |
| 4            |                 |             |            |             | 0.4               | SB03@3'1055 |  |  |
| 5            |                 |             | 0.2        | SB03@4'1058 |                   |             |  |  |
| 6            |                 |             |            |             | SB03@5'1101       |             | - Groundwater not encountered.                                       |  |
| 7            |                 |             |            |             |                   |             |  |  |
| 8            |                 |             |            |             |                   |             |  |  |
| 9            |                 |             |            |             |                   |             |  |  |
| 10           |                 |             |            |             |                   |             |  |  |
| 11           |                 |             |            |             |                   |             |  |  |
| 12           |                 |             |            |             |                   |             |  |  |
| 13           |                 |             |            |             |                   |             |  |  |
| 14           |                 |             |            |             |                   |             |  |  |
| 15           |                 |             |            |             |                   |             |  |  |
| 16           |                 |             |            |             |                   |             |  |  |
| 17           |                 |             |            |             |                   |             |  |  |
| 18           |                 |             |            |             |                   |             |  |  |
| 19           |                 |             |            |             |                   |             |  |  |
| 20           |                 |             |            |             |                   |             |  |  |
| 21           |                 |             |            |             |                   |             |  |  |
| 22           |                 |             |            |             |                   |             |  |  |
| 23           |                 |             |            |             |                   |             |  |  |
| 24           |                 |             |            |             |                   |             |  |  |
| 25           |                 |             |            |             |                   |             |  |  |



# Borehole Logging Form

|                           |                          |                            |
|---------------------------|--------------------------|----------------------------|
| BOREHOLE ID: SB04         | SITE NAME: Fagerberg Pad | CLIENT NAME: PDC ENERGY    |
| Date Completed: 7/10/23   | Location:                |                            |
| Drilling Company: Tasman  | Surface Completion:      | DTW: ~ TD: 5'              |
| Type of Drill: Hand Auger | Geologist: JH, RY        | Project Manager: B. Nelson |
| Bit Size : 2 3/8"         | Logging Method:          |                            |

Well Const. Material: NA      Screen: NA      Riser: NA

| Depth (feet) | Well Completion | Sample Type | % Recovery | PID (ppm) | Laboratory Sample | USCS | Description                              |
|--------------|-----------------|-------------|------------|-----------|-------------------|------|--|
| 1            | NA              | HA          | 100%       | 0.2       | 1104              | SW   | brown, sand w/ gravel, fine to coarse    |
|              |                 |             |            | 0.0       | SB04@0-6"         |      | poorly sorted, dry, no odor              |
| 2            |                 |             |            | 0.1       | 1107              | CL   | brown clay, low plasticity, dry, no odor |
| 3            |                 |             |            | 0.1       | 1110              |      | as above, medium plasticity (2-5')       |
| 4            |                 |             |            | 0.2       | 1113              |      |  |
| 5            |                 |             | 0.0        |           | SB04@4'           |      |  |
| 6            |                 |             |            |           | 1116              |      |  |
| 7            |                 |             |            |           | SB04@5'           |      |  |
| 8            |                 |             |            |           | 1119              |      |  |
| 9            |                 |             |            |           |                   |      | groundwater not encountered              |
| 10           |                 |             |            |           |                   |      |  |
| 11           |                 |             |            |           |                   |      |  |
| 12           |                 |             |            |           |                   |      |  |
| 13           |                 |             |            |           |                   |      |  |
| 14           |                 |             |            |           |                   |      |  |
| 15           |                 |             |            |           |                   |      |  |
| 16           |                 |             |            |           |                   |      |  |
| 17           |                 |             |            |           |                   |      |  |
| 18           |                 |             |            |           |                   |      |  |
| 19           |                 |             |            |           |                   |      |  |
| 20           |                 |             |            |           |                   |      |  |
| 21           |                 |             |            |           |                   |      |  |
| 22           |                 |             |            |           |                   |      |  |
| 23           |                 |             |            |           |                   |      |  |
| 24           |                 |             |            |           |                   |      |  |
| 25           |                 |             |            |           |                   |      |  |



# Borehole Logging Form

|                                  |                                 |                                   |
|----------------------------------|---------------------------------|-----------------------------------|
| BOREHOLE ID: <b>SB05</b>         | SITE NAME: <b>Fagerberg Pad</b> | CLIENT NAME: <b>PDC ENERGY</b>    |
| Date Completed: <b>7/10/23</b>   | Location:                       |                                   |
| Drilling Company: <b>Tasman</b>  | Surface Completion:             | DTW: <b>—</b> TD: <b>5'</b>       |
| Type of Drill: <b>Hand Auger</b> | Geologist: <b>JH, RY</b>        | Project Manager: <b>B. Nelson</b> |
| Bit Size : <b>2 3/8"</b>         | Logging Method:                 |                                   |

Well Const. Material: **NA**      Screen: **NA**      Riser: **NA**

| Depth (feet) | Well Completion     | Sample Type | % Recovery | PID (ppm)    | Laboratory Sample | USCS | Description  |
|--------------|---------------------|-------------|------------|--------------|-------------------|------|--|
| 1            | ↑<br><b>NA</b><br>↓ | ↑           | ↑          | 0.0          |                   | CL   | 0'-2' Brown sandy clay, trace gravel, low plasticity, dry, no odor |
|              |                     |             |            | 0.1          | SB05@0.6' 1121    |      |  |
| 2            |                     |             |            | 0.3          | SB05@1' 1125      |      |  |
| 3            |                     | HA          | 100%       | 0.2          | SB05@2' 1128      |      | 2'-5' As above, no gravel  |
| 4            |                     |             |            | 0.1          | SB05@3' 1131      |      |  |
| 5            |                     |             | 0.2        | SB05@4' 1134 |                   |      |  |
| 6            |                     |             |            |              | SB05@5' 1137      |      | Groundwater not encountered  |
| 7            |                     |             |            |              |                   |      |  |
| 8            |                     |             |            |              |                   |      |  |
| 9            |                     |             |            |              |                   |      |  |
| 10           |                     |             |            |              |                   |      |  |
| 11           |                     |             |            |              |                   |      |  |
| 12           |                     |             |            |              |                   |      |  |
| 13           |                     |             |            |              |                   |      |  |
| 14           |                     |             |            |              |                   |      |  |
| 15           |                     |             |            |              |                   |      |  |
| 16           |                     |             |            |              |                   |      |  |
| 17           |                     |             |            |              |                   |      |  |
| 18           |                     |             |            |              |                   |      |  |
| 19           |                     |             |            |              |                   |      |  |
| 20           |                     |             |            |              |                   |      |  |
| 21           |                     |             |            |              |                   |      |  |
| 22           |                     |             |            |              |                   |      |  |
| 23           |                     |             |            |              |                   |      |  |
| 24           |                     |             |            |              |                   |      |  |
| 25           |                     |             |            |              |                   |      |  |



# Borehole Logging Form

BOREHOLE ID: **SB06**      SITE NAME: **Fagerberg Pad**      CLIENT NAME: **PDC ENERGY**

Date Completed: **7/10/23**      Location:

Drilling Company: **Tasman**      Surface Completion:      DTW: **NA**      TD: **5'**

Type of Drill: **Hand Auger**      Geologist: **JH, RY**      Project Manager: **B. Nelson**

Bit Size: **2 3/8"**      Logging Method:

Well Const. Material: **NA**      Screen: **NA**      Riser: **NA**

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| Depth (feet) | Well Completion | Sample Type | % Recovery | PID (ppm) | Laboratory Sample # | USCS | Description   |
|--------------|-----------------|-------------|------------|-----------|---------------------|------|---|
| 1            | NA              | HA          | 100%       | 0.0       | SB06@0-6"           | SC   | Brown, clayey sand, fine to coarse, dry, no odor (0-1') |
| 2            |                 |             |            | 0.1       | SB06@1'             | CL   | brown, clay, low plasticity, dry, no odor               |
| 3            |                 |             |            | 0.0       | SB06@2'             |      | as above, medium plasticity                             |
| 4            |                 |             |            | 0.1       | SB06@3'             | CH   | as above, high plasticity (3-5')                        |
| 5            |                 |             |            | 0.2       | SB06@4'             |      |   |
| 6            |                 |             |            |           | SB06@5'             |      | groundwater not encountered                             |
| 7            |                 |             |            |           |                     |      |   |
| 8            |                 |             |            |           |                     |      |   |
| 9            |                 |             |            |           |                     |      |   |
| 10           |                 |             |            |           |                     |      |   |
| 11           |                 |             |            |           |                     |      |   |
| 12           |                 |             |            |           |                     |      |   |
| 13           |                 |             |            |           |                     |      |   |
| 14           |                 |             |            |           |                     |      |   |
| 15           |                 |             |            |           |                     |      |   |
| 16           |                 |             |            |           |                     |      |   |
| 17           |                 |             |            |           |                     |      |   |
| 18           |                 |             |            |           |                     |      |   |
| 19           |                 |             |            |           |                     |      |   |
| 20           |                 |             |            |           |                     |      |   |
| 21           |                 |             |            |           |                     |      |   |
| 22           |                 |             |            |           |                     |      |   |
| 23           |                 |             |            |           |                     |      |   |
| 24           |                 |             |            |           |                     |      |   |
| 25           |                 |             |            |           |                     |      |   |



# Borehole Logging Form

|                                  |                                 |                                   |
|----------------------------------|---------------------------------|-----------------------------------|
| BOREHOLE ID: <b>SB07</b>         | SITE NAME: <b>Fagerberg Pad</b> | CLIENT NAME: <b>PDC ENERGY</b>    |
| Date Completed: <b>7/10/23</b>   | Location:                       |                                   |
| Drilling Company: <b>Tasman</b>  | Surface Completion:             | DTW: <b>NA</b> TD: <b>5</b>       |
| Type of Drill: <b>Hand Auger</b> | Geologist: <b>JH, RY</b>        | Project Manager: <b>B. Nelson</b> |
| Bit Size: <b>2 3/8"</b>          | Logging Method:                 |                                   |

Well Const. Material: **NA** Screen: **NA** Riser: **NA**

| Depth (feet) | Well Completion | Sample Type | % Recovery | PID (ppm) | Laboratory Sample | USCS    | Description  |  |
|--------------|-----------------|-------------|------------|-----------|-------------------|---------|--|--|
| 1            | NA              | HA          | 100%       | 0.0       | 1000              | SW      | brown, sand, fine to coarse, poorly sorted, dry, no odor |  |
| 2            |                 |             |            | 0.0       | SB07@0-6"         | CL      | brown, clay, low plasticity, dry, no odor (1-2')         |  |
| 3            |                 |             |            | 0.0       | 1003              |         | as above, medium plasticity (2-5')                       |  |
| 4            |                 |             |            |           | 0.0               | SB07@2' |  |  |
| 5            |                 |             |            |           | 0.0               | 1006    |  |  |
| 6            |                 |             |            | 0.0       | SB07@3'           |         |  |  |
| 7            |                 |             |            | 0.0       | 1009              |         |  |  |
| 8            |                 |             |            | 0.1       | SB07@4'           |         |  |  |
| 9            |                 |             |            |           | 1012              |         |  |  |
| 10           |                 |             |            |           | SB07@5'           |         |  |  |
| 11           |                 |             |            |           | 1015              |         | groundwater not encountered                              |  |
| 12           |                 |             |            |           |                   |         |  |  |
| 13           |                 |             |            |           |                   |         |  |  |
| 14           |                 |             |            |           |                   |         |  |  |
| 15           |                 |             |            |           |                   |         |  |  |
| 16           |                 |             |            |           |                   |         |  |  |
| 17           |                 |             |            |           |                   |         |  |  |
| 18           |                 |             |            |           |                   |         |  |  |
| 19           |                 |             |            |           |                   |         |  |  |
| 20           |                 |             |            |           |                   |         |  |  |
| 21           |                 |             |            |           |                   |         |  |  |
| 22           |                 |             |            |           |                   |         |  |  |
| 23           |                 |             |            |           |                   |         |  |  |
| 24           |                 |             |            |           |                   |         |  |  |
| 25           |                 |             |            |           |                   |         |  |  |



## Borehole Logging Form

|                           |                          |                            |
|---------------------------|--------------------------|----------------------------|
| BOREHOLE ID: SB08         | SITE NAME: Fagerberg Pad | CLIENT NAME: PDC ENERGY    |
| Date Completed: 7/10/23   | Location:                |                            |
| Drilling Company: Tasman  | Surface Completion:      | DTW: — TD: 5'              |
| Type of Drill: Hand Auger | Geologist: JH, RY        | Project Manager: B. Nelson |
| Bit Size: 2 3/8"          | Logging Method:          |                            |

Well Const. Material: NA      Screen: NA      Riser: NA

| Depth (feet) | Well Completion | Sample Type | % Recovery | PID (ppm) | Laboratory Sample | USCS | Description                               |  |
|--------------|-----------------|-------------|------------|-----------|-------------------|------|---|--|
| 1            | NA              | HA          | 100%       | 0.1       | 954               | SW   | brown, sand w/ gravel, fine to coarse     |  |
|              |                 |             |            | 0.0       | SB08 @ 0-6"       |      | poorly sorted, dry, no odor               |  |
| 2            |                 |             |            | 0.1       | 1018              | CL   | brown, clay, low plasticity, dry, no odor |  |
| 3            |                 |             |            | 0.0       | 1021              |      | as above, medium plasticity (2-5')        |  |
| 4            |                 |             |            |           | 0.1               | 1024 |   |  |
| 5            |                 |             |            |           | 0.2               | 1027 |   |  |
| 6            |                 |             |            |           | SB08 @ 5'         |      | groundwater not encountered               |  |
| 7            |                 |             |            |           | 1030              |      |   |  |
| 8            |                 |             |            |           |                   |      |   |  |
| 9            |                 |             |            |           |                   |      |   |  |
| 10           |                 |             |            |           |                   |      |   |  |
| 11           |                 |             |            |           |                   |      |   |  |
| 12           |                 |             |            |           |                   |      |   |  |
| 13           |                 |             |            |           |                   |      |   |  |
| 14           |                 |             |            |           |                   |      |   |  |
| 15           |                 |             |            |           |                   |      |   |  |
| 16           |                 |             |            |           |                   |      |   |  |
| 17           |                 |             |            |           |                   |      |   |  |
| 18           |                 |             |            |           |                   |      |   |  |
| 19           |                 |             |            |           |                   |      |   |  |
| 20           |                 |             |            |           |                   |      |   |  |
| 21           |                 |             |            |           |                   |      |   |  |
| 22           |                 |             |            |           |                   |      |   |  |
| 23           |                 |             |            |           |                   |      |   |  |
| 24           |                 |             |            |           |                   |      |   |  |
| 25           |                 |             |            |           |                   |      |   |  |



## Borehole Logging Form

|                                   |  |                                  |
|-----------------------------------|--|----------------------------------|
| BOREHOLE ID: <u>BH01</u>          | SITE NAME: <u>Fagerberg Pad</u>        | CLIENT NAME: <u>PDC ENERGY</u>   |
| Date Completed: <u>10/7/2022</u>  | Location: <u>SE of Excavation</u>      |                                  |
| Drilling Company: <u>Tasman</u>   | Surface Completion: <u>Flush Mount</u> | DTW: <u>7'</u> TD: <u>12'</u>    |
| Type of Drill: <u>Direct Push</u> | Geologist: <u>David Vigil</u>          | Project Manager: <u>B.Nelson</u> |
| Bit Size: <u>3"</u>               | Logging Method:                        |                                  |

Well Const. Material: Diameter: 1" Screen: Sch 40 PVC Slotted 0.010 Riser: Sch 40 PVC Blank

| Depth (feet) | Well Completion | Sample Type | % Recovery | PID (ppm) | Laboratory Sample | USCS | Description  |  |
|--------------|-----------------|-------------|------------|-----------|-------------------|------|--|--|
| 1            |                 | HA          | 100%       | 0.0       |                   | CL   | Brown, clay, medium plasticity, dry, no odor                 |  |
| 2            |                 |             |            |           | 0.0               |      |  |  |
| 3            |                 |             |            |           | 0.0               |      |  |  |
| 4            |                 |             |            |           | 0.0               |      |  |  |
| 5            |                 |             |            |           | 0.0               |      |  |  |
| 6            |                 |             |            |           | 0.0               |      |  |  |
| 7            |                 |             | DP         |           | 0.0               |      | CH   | Tan, clay, high plasticity, moist, no odor                       |
| 8            |                 |             |            |           | 0.0               |      | SM   | Tan, silty sand, fine grained, poorly graded, saturated, no odor |
| 9            |                 |             |            |           | 0.0               |      |  |  |
| 10           |                 |             |            |           | 0.1               |      |  |  |
| 11           |                 |             |            |           | 0.0               |      |  |  |
| 12           |                 |             |            |           | 0.0               |      |  |  |
| 13           |                 |             |            |           |                   | CL   | Tan, clay, low plasticity, dry, no odor, iron oxide staining |  |
| 14           |                 |             |            |           |                   |      |  |  |
| 15           |                 |             |            |           |                   |      |  |  |
| 16           |                 |             |            |           |                   |      |  |  |
| 17           |                 |             |            |           |                   |      |  |  |
| 18           |                 |             |            |           |                   |      |  |  |
| 19           |                 |             |            |           |                   |      |  |  |
| 20           |                 |             |            |           |                   |      |  |  |
| 21           |                 |             |            |           |                   |      |  |  |
| 22           |                 |             |            |           |                   |      |  |  |
| 23           |                 |             |            |           |                   |      |  |  |
| 24           |                 |             |            |           |                   |      |  |  |
| 25           |                 |             |            |           |                   |      |  |  |



## Borehole Logging Form

|                                   |  |                                  |
|-----------------------------------|--|----------------------------------|
| BOREHOLE ID: <b>BH02</b>          | SITE NAME: <b>Fagerberg Pad</b>        | CLIENT NAME: <b>PDC ENERGY</b>   |
| Date Completed: <b>10/7/2022</b>  | Location: <b>E of excavation</b>       |                                  |
| Drilling Company: <b>Tasman</b>   | Surface Completion: <b>Flush Mount</b> | DTW: <b>7'</b> TD: <b>12'</b>    |
| Type of Drill: <b>Direct Push</b> | Geologist: <b>David Vigil</b>          | Project Manager: <b>B.Nelson</b> |
| Bit Size: <b>3"</b>               | Logging Method:                        |                                  |

Well Const. Material: Diameter: 1" Screen: Sch 40 PVC Slotted 0.010 Riser: Sch 40 PVC Blank

| Depth (feet) | Well Completion | Sample Type | % Recovery | PID (ppm) | Laboratory Sample | USCS | Description  |   |
|--------------|-----------------|-------------|------------|-----------|-------------------|------|--|---|
| 1            |                 | HA          | 100%       | 0.0       |                   | CL   | 0-6": Brown, clay, medium plasticity, dry, no odor |   |
| 2            |                 |             |            |           | 0.0               |      |  |   |
| 3            |                 |             |            |           | 0.0               |      |  |   |
| 4            |                 |             |            |           | 0.0               |      |  |   |
| 5            |                 |             |            |           | 0.0               |      |  |   |
| 6            |                 |             |            |           | 0.0               |      |  |   |
| 7            |                 |             | DP         | 100%      | 0.0               |      | CH   | 6-7": Tan, sandy clay, high plasticity, moist, no odor                  |
| 8            |                 |             |            |           | 0.0               |      | SM   | 7-12": Tan, silty sand, fine grained, poorly graded, saturated, no odor |
| 9            |                 |             |            |           | 0.0               |      |  |   |
| 10           |                 |             |            |           | 0.0               |      |  |   |
| 11           |                 |             |            |           | 0.0               |      |  |   |
| 12           |                 |             |            |           | 0.0               |      | CL   | 12": Light brown, clay, low plasticity, dry, no odor                    |
| 13           |                 |             |            |           |                   |      |  |   |
| 14           |                 |             |            |           |                   |      |  |   |
| 15           |                 |             |            |           |                   |      |  |   |
| 16           |                 |             |            |           |                   |      |  |   |
| 17           |                 |             |            |           |                   |      |  |   |
| 18           |                 |             |            |           |                   |      |  |   |
| 19           |                 |             |            |           |                   |      |  |   |
| 20           |                 |             |            |           |                   |      |  |   |
| 21           |                 |             |            |           |                   |      |  |   |
| 22           |                 |             |            |           |                   |      |  |   |
| 23           |                 |             |            |           |                   |      |  |   |
| 24           |                 |             |            |           |                   |      |  |   |
| 25           |                 |             |            |           |                   |      |  |   |



TASMAN

Borehole Logging Form

BOREHOLE ID: BH03      SITE NAME: Fagerberg Pad      CLIENT NAME: PDC ENERGY

Date Completed: 10/7/2022      Location: NE of excavation

Drilling Company: Tasman      Surface Completion: Flush Mount      DTW: 4'      TD: 12'

Type of Drill: Direct Push      Geologist: David Vigil      Project Manager: B. Nelson

Bit Size: 3"      Logging Method:

Well Const. Material: Diameter: 1"    Screen: Sch 40 PVC Slotted 0.010    Riser: Sch 40 PVC Blank

| Depth (feet) | Well Completion | Sample Type | % Recovery | PID (ppm) | Laboratory Sample | USCS | Description   |
|--------------|-----------------|-------------|------------|-----------|-------------------|------|---|
| 1            | aa              | HA          | 100%       | 0.0       |                   | CL   | 0-4': Brown clay, medium plasticity, dry, no odor                       |
| 2            | aa              |             |            | 0.0       |                   |      |   |
| 3            | aa              |             |            | 0.0       |                   |      |   |
| 4            | aa              |             |            | 0.0       |                   |      |   |
| 5            | aa              |             |            | 0.0       |                   | SM   | 4-10': Tan, silty sand, fine grained, poorly graded, saturated, no odor |
| 6            | aa              |             |            | 0.0       |                   |      |   |
| 7            | aa              | DP          | 90%        | 0.0       |                   |      |   |
| 8            | aa              |             |            | 0.0       |                   |      |   |
| 9            | aa              |             |            | 0.2       |                   |      |   |
| 10           | aa              |             |            | 0.2       |                   |      |   |
| 11           | aa              |             |            | 0.1       |                   |      |   |
| 12           | aa              |             |            | 0.0       |                   | CL   | 11-12': Light brown clay, low plasticity, dry, no odor                  |
| 13           |                 |             |            |           |                   |      |   |
| 14           |                 |             |            |           |                   |      |   |
| 15           |                 |             |            |           |                   |      |   |
| 16           |                 |             |            |           |                   |      |   |
| 17           |                 |             |            |           |                   |      |   |
| 18           |                 |             |            |           |                   |      |   |
| 19           |                 |             |            |           |                   |      |   |
| 20           |                 |             |            |           |                   |      |   |
| 21           |                 |             |            |           |                   |      |   |
| 22           |                 |             |            |           |                   |      |   |
| 23           |                 |             |            |           |                   |      |   |
| 24           |                 |             |            |           |                   |      |   |
| 25           |                 |             |            |           |                   |      |   |



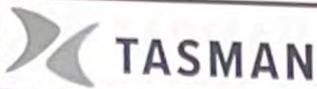
# TASMAN

## Borehole Logging Form

|                                   |  |                                   |
|-----------------------------------|--|-----------------------------------|
| BOREHOLE ID: <b>BH04</b>          | SITE NAME: <b>Fagerberg Pad</b>        | CLIENT NAME: <b>PDC ENERGY</b>    |
| Date Completed: <b>10/7/2022</b>  | Location: <b>NW of excavation</b>      |                                   |
| Drilling Company: <b>Tasman</b>   | Surface Completion: <b>Flush Mount</b> | DTW: <b>4'</b> TD: <b>12'</b>     |
| Type of Drill: <b>Direct Push</b> | Geologist: <b>David Vigil</b>          | Project Manager: <b>B. Nelson</b> |
| Bit Size: <b>3"</b>               | Logging Method:                        |                                   |

Well Const. Material: Diameter: **1"** Screen: **Sch 40 PVC Slotted 0.010** Riser: **Sch 40 PVC Blank**

| Depth (feet) | Well Completion | Sample Type | % Recovery  | PID (ppm)   | Laboratory Sample | USCS      | Description   |
|--------------|-----------------|-------------|-------------|-------------|-------------------|-----------|---|
| 1            |                 | <b>HA</b>   | <b>100%</b> | <b>0.0</b>  |                   | <b>CL</b> | <b>0-4': Brown, clay, medium plasticity, dry, no odor</b>                           |
| 2            |                 |             |             |             | <b>0.0</b>        |           |   |
| 3            |                 |             |             |             | <b>0.0</b>        |           |   |
| 4            |                 |             |             |             | <b>0.0</b>        |           |   |
| 5            |                 |             |             |             | <b>0.0</b>        |           | <b>SM</b>   |
| 6            |                 |             |             |             | <b>0.0</b>        |           | <b>4-10': Tan, silty sand, fine grained, poorly graded, saturated, no odor</b>      |
| 7            |                 |             | <b>DP</b>   | <b>100%</b> | <b>0.0</b>        |           |   |
| 8            |                 |             |             |             | <b>0.0</b>        |           |   |
| 9            |                 |             |             |             | <b>0.0</b>        |           |   |
| 10           |                 |             |             |             | <b>0.0</b>        |           |   |
| 11           |                 |             |             |             | <b>0.0</b>        |           | <b>CL</b>   |
| 12           |                 |             |             |             | <b>0.0</b>        |           | <b>10-12': light brown, clay, low plasticity, dry, no odor, iron oxide staining</b> |
| 13           |                 |             |             |             |                   |           |   |
| 14           |                 |             |             |             |                   |           |   |
| 15           |                 |             |             |             |                   |           |   |
| 16           |                 |             |             |             |                   |           |   |
| 17           |                 |             |             |             |                   |           |   |
| 18           |                 |             |             |             |                   |           |   |
| 19           |                 |             |             |             |                   |           |   |
| 20           |                 |             |             |             |                   |           |   |
| 21           |                 |             |             |             |                   |           |   |
| 22           |                 |             |             |             |                   |           |   |
| 23           |                 |             |             |             |                   |           |   |
| 24           |                 |             |             |             |                   |           |   |
| 25           |                 |             |             |             |                   |           |   |



## Borehole Logging Form

|                                   |  |                                   |
|-----------------------------------|--|-----------------------------------|
| BOREHOLE ID: <u>BH05</u>          | SITE NAME: <u>Fagerberg Pad</u>        | CLIENT NAME: <u>PDC ENERGY</u>    |
| Date Completed: <u>10/7/2022</u>  | Location: <u>WJF excavation</u>        |                                   |
| Drilling Company: <u>Tasman</u>   | Surface Completion: <u>Flush Mount</u> | DTW: <u>6'</u> TD: <u>12'</u>     |
| Type of Drill: <u>Direct Push</u> | Geologist: <u>David Vigil</u>          | Project Manager: <u>B. Nelson</u> |
| Bit Size: <u>3"</u>               | Logging Method:                        |                                   |

Well Const. Material: Diameter: 1" Screen: Sch 40 PVC Slotted 0.010 Riser: Sch 40 PVC Blank

| Depth (feet) | Well Completion           | Sample Type | % Recovery | PID (ppm) | Laboratory Sample | USCS | Description  |   |
|--------------|---------------------------|-------------|------------|-----------|-------------------|------|--|---|
| 1            | [Well Completion Diagram] | NA          | 100%       | 0.2       |                   | CL   | 0-4': Brown, clay, medium plasticity, dry, no odor |   |
| 2            |                           |             |            | 0.4       |                   |      |  |   |
| 3            |                           |             |            | 0.1       |                   |      |  |   |
| 4            |                           |             |            | 0.0       |                   |      |  |   |
| 5            |                           |             |            | 0.0       |                   |      | 4-6': As above, moist                              |   |
| 6            |                           |             |            | 0.0       |                   |      |  |   |
| 7            |                           |             | DP         | 100%      | 0.0               |      | SM   | 6-11': Tan, silty sand, fine grained, poorly graded, saturated, no odor |
| 8            |                           |             |            |           | 0.0               |      |  |   |
| 9            |                           |             |            | 80%       | 0.0               |      |  |   |
| 10           |                           |             |            |           | 0.0               |      |  |   |
| 11           |                           |             |            |           | 0.0               |      |  |   |
| 12           |                           |             |            |           | 0.0               |      | CL   | 11-12': Light brown, clay, low plasticity, dry, no odor                 |
| 13           |                           |             |            |           |                   |      |  |   |
| 14           |                           |             |            |           |                   |      |  |   |
| 15           |                           |             |            |           |                   |      |  |   |
| 16           |                           |             |            |           |                   |      |  |   |
| 17           |                           |             |            |           |                   |      |  |   |
| 18           |                           |             |            |           |                   |      |  |   |
| 19           |                           |             |            |           |                   |      |  |   |
| 20           |                           |             |            |           |                   |      |  |   |
| 21           |                           |             |            |           |                   |      |  |   |
| 22           |                           |             |            |           |                   |      |  |   |
| 23           |                           |             |            |           |                   |      |  |   |
| 24           |                           |             |            |           |                   |      |  |   |
| 25           |                           |             |            |           |                   |      |  |   |



## Borehole Logging Form

|                                   |  |                                   |
|-----------------------------------|--|-----------------------------------|
| BOREHOLE ID: <u>BH06</u>          | SITE NAME: <u>Fagerberg Pad</u>        | CLIENT NAME: <u>PDC ENERGY</u>    |
| Date Completed: <u>10/7/2022</u>  | Location: <u>SW of excavation</u>      |                                   |
| Drilling Company: <u>Tasman</u>   | Surface Completion: <u>Flush Mount</u> | DTW: <u>4.1'</u> TD: <u>12'</u>   |
| Type of Drill: <u>Direct Push</u> | Geologist: <u>David Vigil</u>          | Project Manager: <u>B. Nelson</u> |
| Bit Size: <u>3"</u>               | Logging Method:                        |                                   |

| Well Const. Material: Diameter: 1" Screen: Sch 40 PVC Slotted 0.010 Riser: Sch 40 PVC Blank |                 |             |            |           |                   |      |  |   |
|---|-----------------|-------------|------------|-----------|-------------------|------|--|---|
| Depth (feet)  | Well Completion | Sample Type | % Recovery | PID (ppm) | Laboratory Sample | USCS | Description  |   |
| 1   |                 | HA          | 100%       | 0.0       |                   | CL   | 0-4': Brown, clay, medium plasticity, dry, no odor |   |
| 2   |                 |             |            |           | 0.0               |      |  |   |
| 3   |                 |             |            |           | 0.0               |      |  |   |
| 4   |                 |             |            |           | 0.0               |      |  |   |
| 5   |                 |             |            |           | 0.0               |      | SM   | 4-11': Tan, silty sand, fine grained, poorly graded, saturated, no odor |
| 6   |                 |             |            |           | 0.0               |      |  |   |
| 7   |                 |             | DP         | 100%      | 0.0               |      |  |   |
| 8   |                 |             |            |           | 0.0               |      |  |   |
| 9   |                 |             |            |           | 0.0               |      |  |   |
| 10  |                 |             |            |           | 0.0               |      |  |   |
| 11  |                 |             |            |           | 0.0               |      |  |   |
| 12  |                 |             |            |           | 0.0               |      | CL   | 11-12': Tan, clay, low plasticity, dry, no odor, iron oxide staining    |
| 13  |                 |             |            |           |                   |      |  |   |
| 14  |                 |             |            |           |                   |      |  |   |
| 15  |                 |             |            |           |                   |      |  |   |
| 16  |                 |             |            |           |                   |      |  |   |
| 17  |                 |             |            |           |                   |      |  |   |
| 18  |                 |             |            |           |                   |      |  |   |
| 19  |                 |             |            |           |                   |      |  |   |
| 20  |                 |             |            |           |                   |      |  |   |
| 21  |                 |             |            |           |                   |      |  |   |
| 22  |                 |             |            |           |                   |      |  |   |
| 23  |                 |             |            |           |                   |      |  |   |
| 24  |                 |             |            |           |                   |      |  |   |
| 25  |                 |             |            |           |                   |      |  |   |



## Borehole Logging Form

|                                   |  |                                  |
|-----------------------------------|--|----------------------------------|
| BOREHOLE ID: <u>BH07</u>          | SITE NAME: <u>Fagerberg Pad</u>        | CLIENT NAME: <u>PDC ENERGY</u>   |
| Date Completed: <u>10/7/2022</u>  | Location: <u>S of excavation</u>       |                                  |
| Drilling Company: <u>Tasman</u>   | Surface Completion: <u>Flush Mount</u> | DTW: <u>5'</u> TD: <u>12'</u>    |
| Type of Drill: <u>Direct Push</u> | Geologist: <u>David Vigil</u>          | Project Manager: <u>B.Nelson</u> |
| Bit Size: <u>3"</u>               | Logging Method:                        |                                  |

Well Const. Material: Diameter: 1" Screen: Sch 40 PVC Slotted 0.010 Riser: Sch 40 PVC Blank

| Depth (feet) | Well Completion | Sample Type | % Recovery  | PID (ppm)  | Laboratory Sample | USCS      | Description   |   |
|--------------|-----------------|-------------|-------------|------------|-------------------|-----------|---|---|
| 1            |                 | <u>HA</u>   | <u>100%</u> | <u>0.0</u> |                   | <u>CL</u> | <u>0-4': Brown, clay, medium plasticity, dry, no odor</u> |   |
| 2            |                 | <u>0.0</u>  |             |            |                   |           |   |   |
| 3            |                 | <u>0.0</u>  |             |            |                   |           |   |   |
| 4            |                 | <u>0.0</u>  |             |            |                   |           |   |   |
| 5            |                 | <u>0.0</u>  |             |            |                   |           |   |   |
| 6            |                 | <u>0.0</u>  |             |            |                   |           |   |   |
| 7            |                 | <u>DP</u>   | <u>100%</u> | <u>0.0</u> |                   |           | <u>SM</u>   | <u>4-5': As above, moist</u>  |
| 8            |                 | <u>0.0</u>  |             |            |                   |           |   | <u>5-7': Brown to tan, silty sand, fine grained, poorly graded, saturated no odor</u> |
| 9            |                 | <u>90%</u>  |             |            |                   |           |   | <u>7-8': As above, iron oxide staining</u>  |
| 10           |                 | <u>0.0</u>  |             |            |                   |           |   | <u>8-10': As above, no staining</u>   |
| 11           |                 | <u>0.0</u>  |             |            |                   |           |   |   |
| 12           |                 | <u>0.0</u>  |             |            |                   |           | <u>CL</u>   | <u>11-12': Light brown, clay, low plasticity, dry, no odor</u>                        |
| 13           |                 |             |             |            |                   |           |   |   |
| 14           |                 |             |             |            |                   |           |   |   |
| 15           |                 |             |             |            |                   |           |   |   |
| 16           |                 |             |             |            |                   |           |   |   |
| 17           |                 |             |             |            |                   |           |   |   |
| 18           |                 |             |             |            |                   |           |   |   |
| 19           |                 |             |             |            |                   |           |   |   |
| 20           |                 |             |             |            |                   |           |   |   |
| 21           |                 |             |             |            |                   |           |   |   |
| 22           |                 |             |             |            |                   |           |   |   |
| 23           |                 |             |             |            |                   |           |   |   |
| 24           |                 |             |             |            |                   |           |   |   |
| 25           |                 |             |             |            |                   |           |   |   |