

TABLE 1
FORMER PEAK 1 TANK BATTERY
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 ⁽⁴⁾ (mg/kg)	Anthracene (mg/kg)	Chrysene (mg/kg)	Fluorene (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	EC (mmhos/cm)	SAR (units)
Residential SSL ^(1,2)			1.2	490	5.8	58	30	27	2	500	1,800	110	240	18	24	<4	<6
Protection of Groundwater SSL ^(1,2,3)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	5.8	9	0.54	0.006	0.019		
AST01 @ 0-6"	3/9/2022	0-6 in. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	NA	NA	NA	NA	NA	NA	NA
SEP01-FL @ 4'	3/9/2022	4 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	NA	NA	NA	NA	NA	NA	NA
MH01-B @ 1'	3/9/2022	1 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	0.00534	0.0198	0.00560	<0.00500	<0.00500	0.138	0.468
MH01-E @ 0.5'	3/9/2022	0.5 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	0.148	0.384
SS01 @ 10'	3/9/2022	10 ft. bgs	0.025	<0.0050	0.14	15	12	7.4	0.28	6,110	0.621	0.104	0.225	4.29	4.02	6.10	17.7
SS02 @ 15'	3/10/2022	15 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	3.50	0.683
SS03 @ 10'	3/10/2022	10 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	2,020	<0.00500	0.0431	<0.00500	<0.00500	<0.00500	1.34	0.271
SS04 @ 5'	3/10/2022	5 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	0.962	0.360
SS06 @ 10'	3/10/2022	10 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	0.828	0.286
SS07 @ 5'	3/10/2022	5 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	NA	NA	NA	NA	NA	NA	NA
SS09 @ 10'	3/10/2022	10 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	0.465	0.161
SS10 @ 5'	3/10/2022	5 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	0.197	0.0237
SS12 @ 10'	3/11/2022	10 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	1.04	0.105
SS13 @ 5'	3/11/2022	5 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	0.274	0.0513
SS15 @ 10'	3/11/2022	10 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	1.35	0.0964
SS16 @ 5'	3/11/2022	5 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	0.358	0.0502
SEP01-DL-B @ 5'	3/10/2022	5 ft. bgs	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	68	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.398	1.24
SEP01-DL-E @ 2.5'	3/10/2022	2.5 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	0.616	1.13
SB01 @ 5'	11/16/2022	5 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	0.778	2.20

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.
- 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

EC = Electrical conductivity

SAR = Sodium adsorption ratio

M = Methylnaphthalene

mg/kg = Milligrams per kilogram

TMB = Trimethylbenzene

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

Sample material was excavated and transported off-site for disposal

ft. = Feet

in. = Inches

bgs = Below ground surface

BOLD = Analytical result is in exceedance of applicable standard.

NA = Constituent not analyzed

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

Sample ID	Date Sampled	Depth	pH (units)	EC (mmhos/cm)	SAR (units)	Boron (mg/L)
Soil Suitability for Reclamation Standard ⁽¹⁾			6-8.3	<4	<6	2
MH01-B @ 1'	3/9/2022	1 ft. bgs	8.21	0.138	0.468	0.864
MH01-E @ 0.5'	3/9/2022	0.5 ft. bgs	8.20	0.148	0.384	0.0987
SS01 @ 10'	3/9/2022	10 ft. bgs	7.99	6.10	17.7	0.0253
SS11 @ 2.5'	3/10/2022	2.5 ft. bgs	7.91	0.308	1.23	0.163
SEP01-DL-B @ 5'	3/10/2022	5 ft. bgs	7.84	0.398	1.24	0.124
SEP01-DL-E @ 2.5'	3/10/2022	2.5 ft. bgs	7.91	0.616	1.13	0.0998

Notes:

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

COGCC = Colorado Oil and Gas Conservation Commission

EC = Electrical conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

mg/L = milligram per liter

ft. = Feet

bgs = Below ground surface

BOLD = Analytical result is in exceedance of applicable standard.

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

TABLE 3
FORMER PEAK 1 TANK BATTERY
SOIL ANALYTICAL RESULTS SUMMARY TABLE
ORGANIC COMPOUNDS - PAHs

Sample ID	Date Sampled	Depth	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benz(a) (mg/kg)	Benzo(a) (mg/kg)	Benzo(b) (mg/kg)	Benzo(k) (mg/kg)	Chrysene (mg/kg)	A,H (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	Pyrene (mg/kg)	1-M (mg/kg)	2-M (mg/kg)
Residential SSL ^(1,2)			360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
Protection of Groundwater SSL ^(1,2,3)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
MH01-B @ 1'	3/9/2022	1 ft. bgs	0.00534	<0.00500	<0.00500	0.0113	0.0187	0.00801	0.0198	<0.00500	0.0683	0.00560	0.00522	0.0530	<0.00500	<0.00500
MH01-E @ 0.5'	3/9/2022	0.5 ft. bgs	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SS01 @ 10'	3/9/2022	10 ft. bgs	<0.0500	0.621	<0.0500	<0.0500	<0.0500	<0.0500	0.104	<0.0500	<0.0500	0.225	<0.0500	<0.0500	4.29	4.02
SS05 @ 2.5'	3/10/2022	2.5 ft. bgs	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP01-DL-B @ 5'	3/10/2022	5 ft. bgs	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP01-DL-E @ 2.5'	3/10/2022	2.5 ft. bgs	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

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.

COGCC = Colorado Oil and Gas Conservation Commission

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

PAHs = Polycyclic aromatic hydrocarbons

Benzo(a) = Benzoanthracene

Benzo(a) = Benzopyrene

Benzo(b) = Benzofluoranthene

Benzo(k) = Benzofluoranthene

A,H = Dibenzoanthracene

1,2,3-CD = Indenopyrene

M = Methylanthralene

mg/kg = Milligrams per kilogram

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

 = Sample material was excavated and transported off-site for disposal

ft. = Feet

bgs = Below ground surface

BOLD = Analytical result is in exceedance of applicable standard.

TABLE 4
FORMER PEAK 1 TANK BATTERY
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)
Residential SSL ^(1,2)			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Protection of Groundwater SSL ^(1,2,3)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
MH01-B @ 1'	3/9/2022	1 ft. bgs	2.29	144	0.608	<0.30 ⁽⁴⁾	9.30	9.93	6.63	0.929	0.0451	37.9
MH01-E @ 0.5'	3/9/2022	0.5 ft. bgs	1.37	75.0	0.268	<0.30 ⁽⁴⁾	8.56	7.13	5.01	0.925	0.0440	38.2
SS01 @ 10'	3/9/2022	10 ft. bgs	2.61	153	<0.241	<0.30 ⁽⁴⁾	5.33	6.64	5.62	0.884	0.0279	22.2
SEP01-DL-B @ 5'	3/10/2022	5 ft. bgs	2.79	179	<0.257	<0.30 ⁽⁴⁾	6.71	7.69	6.67	0.761	0.0278	25.6
SEP01-DL-E @ 2.5'	3/10/2022	2.5 ft. bgs	2.35	173	<0.254	<0.30 ⁽⁴⁾	6.29	7.40	6.07	0.719	0.0367	25.7
BKG01 @ 1'	3/10/2022	1 ft. bgs	2.30	98.7	<0.223	<0.30 ⁽⁴⁾	9.20	8.71	6.35	0.802	0.0489	39.2
BKG01 @ 2.5'	3/10/2022	2.5 ft. bgs	1.98	138	0.234	<0.30 ⁽⁴⁾	6.26	7.76	6.17	0.696	0.0363	24.4
BKG01 @ 4'	3/10/2022	4 ft. bgs	2.18	192	<0.224	<0.30 ⁽⁴⁾	4.72	7.20	5.29	0.653	0.0274	21.0
BKG01 @ 5'	3/10/2022	5 ft. bgs	4.13	285	<0.225	<0.30 ⁽⁴⁾	4.25	6.13	4.61	0.632	0.0273	18.7
BKG01 @ 10'	3/10/2022	10 ft. bgs	2.71	186	<0.225	<0.30 ⁽⁴⁾	4.72	6.69	5.04	0.644	0.0284	19.7
SB02 @ 1'	11/16/2022	1 ft. bgs	NA	NA	<0.200	NA	NA	NA	NA	0.263	NA	NA
SB02 @ 2.5'	11/16/2022	2.5 ft. bgs	NA	NA	0.260	NA	NA	NA	NA	<0.260	NA	NA
SB02 @ 4'	11/16/2022	4 ft. bgs	NA	NA	0.241	NA	NA	NA	NA	<0.260	NA	NA
SB03 @ 0.5'	11/16/2022	0.5 ft. bgs	NA	NA	<0.200	NA	NA	NA	NA	NA	NA	NA
SB03 @ 1'	11/16/2022	1 ft. bgs	NA	NA	0.224	NA	NA	NA	NA	0.611	NA	NA
SB04 @ 0.5'	11/16/2022	0.5 ft. bgs	NA	NA	<0.200	NA	NA	NA	NA	NA	NA	NA
SB04 @ 1'	11/16/2022	1 ft. bgs	NA	NA	<0.200	NA	NA	NA	NA	0.560	NA	NA
SB05 @ 0.5'	11/16/2022	0.5 ft. bgs	NA	NA	<0.200	NA	NA	NA	NA	NA	NA	NA
SB05 @ 1'	11/16/2022	1 ft. bgs	NA	NA	0.230	NA	NA	NA	NA	0.737	NA	NA
BKG02 @ 1'	11/16/2022	1 ft. bgs	2.91	99.5	0.249	<0.30 ⁽⁴⁾	6.63	7.34	4.89	0.232 ⁽⁶⁾	0.0379	24.9
BKG02 @ 2.5'	11/16/2022	2.5 ft. bgs	2.43	94.8	0.172 ⁽⁶⁾	<0.30 ⁽⁴⁾	4.24	4.82	3.53	<0.197 ⁽⁵⁾	0.0244	15.5
BKG02 @ 4'	11/16/2022	4 ft. bgs	2.50	156	0.197 ⁽⁶⁾	<0.30 ⁽⁴⁾	3.32	5.10	3.44	<0.203 ⁽⁵⁾	0.0195 ⁽⁶⁾	14.3
BKG02 @ 5'	11/16/2022	5 ft. bgs	2.98	147	0.234 ⁽⁶⁾	<0.30 ⁽⁴⁾	3.73	5.78	3.96	<0.208 ⁽⁵⁾	0.0219 ⁽⁶⁾	16.7
BKG02 @ 10'	11/16/2022	10 ft. bgs	2.46	104	0.152 ⁽⁶⁾	<0.30 ⁽⁴⁾	3.77	5.65	3.86	<0.200 ⁽⁵⁾	0.0202 ⁽⁶⁾	15.5
BKG03 @ 1'	11/16/2022	1 ft. bgs	2.40	116	0.228 ⁽⁶⁾	<0.30 ⁽⁴⁾	5.28	6.70	4.93	<0.202 ⁽⁵⁾	0.0319	18.6
BKG03 @ 2.5'	11/16/2022	2.5 ft. bgs	2.90	119	0.221 ⁽⁶⁾	<0.30 ⁽⁴⁾	4.57	5.91	4.11	<0.195 ⁽⁵⁾	0.0254	17.7
BKG03 @ 4'	11/16/2022	4 ft. bgs	2.58	142	0.192 ⁽⁶⁾	<0.30 ⁽⁴⁾	3.54	5.47	3.62	<0.193 ⁽⁵⁾	0.0190 ⁽⁶⁾	15.5
BKG03 @ 5'	11/16/2022	5 ft. bgs	5.05	390	0.278	<0.30 ⁽⁴⁾	4.30	7.12	4.66	<0.214 ⁽⁵⁾	0.0254	18.6
BKG03 @ 10'	11/16/2022	10 ft. bgs	4.72	110	0.157 ⁽⁶⁾	<0.30 ⁽⁴⁾	3.59	5.06	3.89	<0.198 ⁽⁵⁾	0.0185 ⁽⁶⁾	14.6
BKG04 @ 1'	11/16/2022	1 ft. bgs	3.21	148	0.304	<0.30 ⁽⁴⁾	6.14	7.20	5.41	<0.215 ⁽⁵⁾	0.0374	22.0
BKG04 @ 2.5'	11/16/2022	2.5 ft. bgs	3.58	190	0.298	<0.30 ⁽⁴⁾	5.00	7.37	4.72	<0.227 ⁽⁵⁾	0.0296	22.2
BKG04 @ 4'	11/16/2022	4 ft. bgs	3.50	244	0.269	<0.30 ⁽⁴⁾	3.71	7.01	4.02	<0.227 ⁽⁵⁾	0.0249 ⁽⁶⁾	17.5
BKG04 @ 5'	11/16/2022	5 ft. bgs	4.27	328	0.491	<0.30 ⁽⁴⁾	14.3	10.6	7.01	<0.237 ⁽⁵⁾	0.0439	42.2
BKG04 @ 10'	11/16/2022	10 ft. bgs	3.03	119	0.186 ⁽⁶⁾	<0.30 ⁽⁴⁾	4.36	6.10	4.62	<0.212 ⁽⁵⁾	0.0238 ⁽⁶⁾	16.9
BKG05 @ 1'	11/16/2022	1 ft. bgs	3.17	119	0.248	<0.30 ⁽⁴⁾	5.95	7.97	5.03	<0.200 ⁽⁵⁾	0.0421	21.5
BKG05 @ 2.5'	11/16/2022	2.5 ft. bgs	3.02	168	0.312	<0.30 ⁽⁴⁾	4.17	6.00	4.21	<0.200 ⁽⁵⁾	0.0269	18.4
BKG05 @ 4'	11/16/2022	4 ft. bgs	2.07	173	0.199 ⁽⁶⁾	<0.30 ⁽⁴⁾	4.49	6.04	4.79	0.625	0.0291	20.1
BKG05 @ 5'	11/16/2022	5 ft. bgs	2.77	247	0.242 ⁽⁶⁾	<0.30 ⁽⁴⁾	7.06	7.57	6.52	0.652	0.0343	27.6
BKG05 @ 10'	11/16/2022	10 ft. bgs	4.97	136	0.239 ⁽⁶⁾	<0.30 ⁽⁴⁾	7.02	7.22	7.00	0.658	0.0326	25.7
BKG06 @ 1'	6/12/2023	1 ft. bgs	NA	NA	NA	NA	NA	NA	NA	<0.175 ⁽⁵⁾	NA	NA
BKG06 @ 2.5'	6/12/2023	2.5 ft. bgs	NA	NA	NA	NA	NA	NA	NA	<0.175 ⁽⁵⁾	NA	NA
BKG06 @ 4'	6/12/2023	4 ft. bgs	NA	NA	NA	NA	NA	NA	NA	<0.175 ⁽⁵⁾	NA	NA
BKG06 @ 5'	6/12/2023	5 ft. bgs	NA	NA	NA	NA	NA	NA	NA	<0.175 ⁽⁵⁾	NA	NA
BKG06 @ 10'	6/12/2023	10 ft. bgs	NA	NA	NA	NA	NA	NA	NA	<0.175 ⁽⁵⁾	NA	NA
BKG07 @ 1'	6/12/2023	1 ft. bgs	NA	NA	NA	NA	NA	NA	NA	0.196 ⁽⁶⁾	NA	NA
BKG07 @ 2.5'	6/12/2023	2.5 ft. bgs	NA	NA	NA	NA	NA	NA	NA	<0.175 ⁽⁵⁾	NA	NA
BKG07 @ 4'	6/12/2023	4 ft. bgs	NA	NA	NA	NA	NA	NA	NA	<0.175 ⁽⁵⁾	NA	NA
BKG07 @ 5'	6/12/2023	5 ft. bgs	NA	NA	NA	NA	NA	NA	NA	<0.175 ⁽⁵⁾	NA	NA
BKG07 @ 10'	6/12/2023	10 ft. bgs	NA	NA	NA	NA	NA	NA	NA	<0.175 ⁽⁵⁾	NA	NA
BKG08 @ 1'	6/12/2023	1 ft. bgs	NA	NA	NA	NA	NA	NA	NA	<0.175 ⁽⁵⁾	NA	NA
BKG08 @ 2.5'	6/12/2023	2.5 ft. bgs	NA	NA	NA	NA	NA	NA	NA	<0.175 ⁽⁵⁾	NA	NA
BKG08 @ 4'	6/12/2023	4 ft. bgs	NA	NA	NA	NA	NA	NA	NA	<0.175 ⁽⁵⁾	NA	NA
BKG08 @ 5'	6/12/2023	5 ft. bgs	NA	NA	NA	NA	NA	NA	NA	<0.175 ⁽⁵⁾	NA	NA
BKG08 @ 10'	6/12/2023	10 ft. bgs	NA	NA	NA	NA	NA	NA	NA	<0.175 ⁽⁵⁾	NA	NA
Mean Background Concentration ⁽⁷⁾			3.11	170	0.240	0.30	5.37	6.74	4.87	0.289	0.0295	21.2
1.25x Mean Background Concentration			3.89	213	0.300	0.38	6.72	8.43	6.08	0.362	0.0369	26.5

TABLE 4
FORMER PEAK 1 TANK BATTERY
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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)
Residential SSL ^(1,2)			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Protection of Groundwater SSL ^(1,2,3)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370

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.
- Non-detect value reflects the method detection limit (MDL) provided in the laboratory report.
- Concentration detected but below the Reporting Limit; therefore, result is an estimated concentration.
- Non-detect background results accounted for in the mean background concentration by using the reporting limit.

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, sample material was excavated and transported off-site for disposal

ft. = Feet

bgs = Below ground surface

BOLD = Analytical result is in exceedance of applicable standard.

BOLD = Analytical result is in exceedance of applicable standard, but representative of native material condition. See below evaluation.

NA = Constituent not analyzed

Metal evaluation:

Arsenic:

Concentration used to evaluate arsenic Protection of Groundwater SSL exceedances is the average arsenic background concentration (3.11 mg/kg).

Barium:

Concentration used to evaluate barium Protection of Groundwater SSL exceedances is 1.25 times the average barium background concentration (170 mg/kg x 1.25 = 213 mg/kg).

Cadmium:

The cadmium exceedance observed in MH01-B @ 1' bgs (0.608 mg/kg) was a discrete location and native soil below and adjacent to the former meterhouse excavation location (SB02 - SB05) was observed in compliance with COGCC Table 915-1 standards.

Selenium:

Concentration used to evaluate arsenic Protection of Groundwater SSL exceedances is 1.25 times the average arsenic background concentration (0.289 mg/kg x 1.25 = 0.362 mg/kg).

TABLE 5
FORMER PEAK 1 TANK BATTERY
FIELD DATA SUMMARY TABLE

Sample ID	Date Sampled	Depth	GPS Data ⁽¹⁾ Latitude / Longitude		PDOP Value	VOC Concentration ⁽²⁾ (ppm)
SS01 @ 10'	3/9/2022	10 ft. bgs	NC	NC	NA	385.7
AST01 @ 0-6"	3/9/2022	0-6 in. bgs	40.443916	-104.593346	1.2	0.3
SEP01-FL @ 4'	3/9/2022	4 ft. bgs	40.443953	-104.593800	1.2	0.0
MH01-B @ 1'	3/9/2022	1 ft. bgs	40.443913	-104.593563	1.2	0.2
MH01-N @ 0.5'	3/9/2022	0.5 ft. bgs	40.443921	-104.593575	1.3	0.2
MH01-W @ 0.5'	3/9/2022	0.5 ft. bgs	40.443913	-104.593575	1.2	0.4
MH01-S @ 0.5'	3/9/2022	0.5 ft. bgs	40.443897	-104.593567	1.2	0.2
MH01-E @ 0.5'	3/9/2022	0.5 ft. bgs	40.443906	-104.593565	1.2	4.7
SEP01-DL-B @ 5'	3/10/2022	5 ft. bgs	40.443962	-104.593765	1.7	0.0
SEP01-DL-N @ 2.5'	3/10/2022	2.5 ft. bgs	40.443968	-104.593760	1.8	1.2
SEP01-DL-W @ 2.5'	3/10/2022	2.5 ft. bgs	40.443965	-104.593774	1.8	0.2
SEP01-DL-S @ 2.5'	3/10/2022	2.5 ft. bgs	40.443955	-104.593766	1.9	0.1
SEP01-DL-E @ 2.5'	3/10/2022	2.5 ft. bgs	40.443965	-104.593751	1.6	1.9
SS02 @ 15'	3/10/2022	15 ft. bgs	40.443912	-104.593378	NA	0.0
SS03 @ 10'	3/10/2022	10 ft. bgs	40.443885	-104.593392	1.2	2.9
SS04 @ 5'	3/10/2022	5 ft. bgs	40.443885	-104.593392	1.2	1.3
SS05 @ 2.5'	3/10/2022	2.5 ft. bgs	40.443885	-104.593392	1.2	0.1
SS06 @ 10'	3/10/2022	10 ft. bgs	40.443915	-104.593411	1.2	0.0
SS07 @ 5'	3/10/2022	5 ft. bgs	40.443915	-104.593411	1.2	0.0
SS08 @ 2.5'	3/10/2022	2.5 ft. bgs	40.443915	-104.593411	1.2	0.0
SS09 @ 10'	3/10/2022	10 ft. bgs	40.443927	-104.593372	1.2	0.0
SS10 @ 5'	3/10/2022	5 ft. bgs	40.443927	-104.593372	1.2	0.1
SS11 @ 2.5'	3/10/2022	2.5 ft. bgs	40.443927	-104.593372	1.2	0.0
BKG01 @ 1'	3/10/2022	1 ft. bgs	40.443767	-104.593583	1.2	0.0
BKG01 @ 2.5'	3/10/2022	2.5 ft. bgs	40.443767	-104.593583	1.2	0.0
BKG01 @ 4'	3/10/2022	4 ft. bgs	40.443767	-104.593583	1.2	0.0
BKG01 @ 5'	3/10/2022	5 ft. bgs	40.443767	-104.593583	1.2	0.0
BKG01 @ 10'	3/10/2022	10 ft. bgs	40.443767	-104.593583	1.2	0.0
SS12 @ 10'	3/11/2022	10 ft. bgs	40.443899	-104.593346	1.4	0.0
SS13 @ 5'	3/11/2022	5 ft. bgs	40.443899	-104.593346	1.4	0.0
SS14 @ 2.5'	3/11/2022	2.5 ft. bgs	40.443899	-104.593346	1.4	0.0
SS15 @ 10'	3/11/2022	10 ft. bgs	40.443876	-104.593393	1.4	0.0
SS16 @ 5'	3/11/2022	5 ft. bgs	40.443876	-104.593393	1.4	0.0
SS17 @ 2.5'	3/11/2022	2.5 ft. bgs	40.443876	-104.593393	1.4	0.0
SB01 @ 5'	11/16/2022	5 ft. bgs	40.443912	-104.593422	NC	0.0
SB02 @ 1'	11/16/2022	1 ft. bgs	40.443904	-104.593572	NC	0.0
SB02 @ 2.5'	11/16/2022	2.5 ft. bgs	40.443904	-104.593572	NC	0.0
SB02 @ 4'	11/16/2022	4 ft. bgs	40.443904	-104.593572	NC	0.0
SB03 @ 0.5'	11/16/2022	0.5 ft bgs	40.443926	-104.593570	NC	0.0
SB03 @ 1'	11/16/2022	1 ft. bgs	40.443926	-104.593570	NC	0.0

TABLE 5
FORMER PEAK 1 TANK BATTERY
FIELD DATA SUMMARY TABLE

Sample ID	Date Sampled	Depth	GPS Data ⁽¹⁾ Latitude / Longitude		PDOP Value	VOC Concentration ⁽²⁾ (ppm)
SB04 @ 0.5'	11/16/2022	0.5 ft. bgs	40.443909	-104.593593	NC	0.0
SB04 @ 1'	11/16/2022	1 ft. bgs	40.443909	-104.593593	NC	0.0
SB05 @ 0.5'	11/16/2022	0.5 ft. bgs	40.443886	-104.593571	NC	0.0
SB05 @ 1'	11/16/2022	1 ft. bgs	40.443886	-104.593571	NC	0.0
BKG02 @ 1'	11/16/2022	1 ft. bgs	40.444045	-104.593843	NC	0.0
BKG02 @ 2.5'	11/16/2022	2.5 ft. bgs	40.444045	-104.593843	NC	0.0
BKG02 @ 4'	11/16/2022	4 ft. bgs	40.444045	-104.593843	NC	0.0
BKG02 @ 5'	11/16/2022	5 ft. bgs	40.444045	-104.593843	NC	0.0
BKG02 @ 10'	11/16/2022	10 ft. bgs	40.444045	-104.593843	NC	0.0
BKG03 @ 1'	11/16/2022	1 ft. bgs	40.443842	-104.593725	NC	0.0
BKG03 @ 2.5'	11/16/2022	2.5 ft. bgs	40.443842	-104.593725	NC	0.1
BKG03 @ 4'	11/16/2022	4 ft. bgs	40.443842	-104.593725	NC	0.0
BKG03 @ 5'	11/16/2022	5 ft. bgs	40.443842	-104.593725	NC	0.0
BKG03 @ 10'	11/16/2022	10 ft. bgs	40.443842	-104.593725	NC	0.0
BKG04 @ 1'	11/16/2022	1 ft. bgs	40.443820	-104.593336	NC	0.0
BKG04 @ 2.5'	11/16/2022	2.5 ft. bgs	40.443820	-104.593336	NC	0.0
BKG04 @ 4'	11/16/2022	4 ft. bgs	40.443820	-104.593336	NC	0.0
BKG04 @ 5'	11/16/2022	5 ft. bgs	40.443820	-104.593336	NC	0.0
BKG04 @ 10'	11/16/2022	10 ft. bgs	40.443820	-104.593336	NC	0.0
BKG05 @ 1'	11/16/2022	1 ft. bgs	40.444008	-104.593178	NC	0.0
BKG05 @ 2.5'	11/16/2022	2.5 ft. bgs	40.444008	-104.593178	NC	0.0
BKG05 @ 4'	11/16/2022	4 ft. bgs	40.444008	-104.593178	NC	0.0
BKG05 @ 5'	11/16/2022	5 ft. bgs	40.444008	-104.593178	NC	0.0
BKG05 @ 10'	11/16/2022	10 ft. bgs	40.444008	-104.593178	NC	0.0
BKG06 @ 1'	6/12/2023	1 ft. bgs	40.443844	-104.593651	NC	0.0
BKG06 @ 2.5'	6/12/2023	2.5 ft. bgs	40.443844	-104.593651	NC	0.0
BKG06 @ 4'	6/12/2023	4 ft. bgs	40.443844	-104.593651	NC	0.0
BKG06 @ 5'	6/12/2023	5 ft. bgs	40.443844	-104.593651	NC	0.0
BKG06 @ 10'	6/12/2023	10 ft. bgs	40.443844	-104.593651	NC	0.0
BKG07 @ 1'	6/12/2023	1 ft. bgs	40.443772	-104.593476	NC	0.0
BKG07 @ 2.5'	6/12/2023	2.5 ft. bgs	40.443772	-104.593476	NC	0.0
BKG07 @ 4'	6/12/2023	4 ft. bgs	40.443772	-104.593476	NC	0.2
BKG07 @ 5'	6/12/2023	5 ft. bgs	40.443772	-104.593476	NC	0.0
BKG07 @ 10'	6/12/2023	10 ft. bgs	40.443772	-104.593476	NC	0.0
BKG08 @ 1'	6/12/2023	1 ft. bgs	40.443916	-104.593168	NC	0.3
BKG08 @ 2.5'	6/12/2023	2.5 ft. bgs	40.443916	-104.593168	NC	0.0
BKG08 @ 4'	6/12/2023	4 ft. bgs	40.443916	-104.593168	NC	0.0
BKG08 @ 5'	6/12/2023	5 ft. bgs	40.443916	-104.593168	NC	0.0
BKG08 @ 10'	6/12/2023	10 ft. bgs	40.443916	-104.593168	NC	0.0

TABLE 5
FORMER PEAK 1 TANK BATTERY
FIELD DATA SUMMARY TABLE

Sample ID	Date Sampled	Depth	GPS Data ⁽¹⁾ Latitude / Longitude	PDOP Value	VOC Concentration ⁽²⁾ (ppm)
-----------	--------------	-------	---	---------------	--

Notes:

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum 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

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

= Sample material was excavated and transported off-site for disposal

NC = Data not collected

NA = Not applicable

Attachment A

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 22, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Peak 1 Tank Battery

Work Order #2203161

Enclosed are the results of analyses for samples received by Summit Scientific on 03/09/22 17:57. 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', with a stylized, cursive script.

Paul Shrewsbury

President



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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-FL@4'	2203161-01	Soil	03/09/22 12:05	03/09/22 17:57
AST01@0-6"	2203161-02	Soil	03/09/22 12:35	03/09/22 17:57
SS01@10'	2203161-03	Soil	03/09/22 14:15	03/09/22 17:57
MH01-B@1'	2203161-04	Soil	03/09/22 13:40	03/09/22 17:57
MH01-E@0.5'	2203161-06	Soil	03/09/22 14:05	03/09/22 17:57

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

2203161

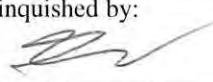
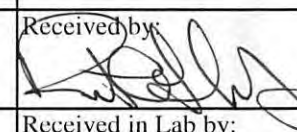
741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933 Fax

Page 1 of 1

Client: PDC / Tasman
Address: 6855 W 119th Ave
City/State/Zip: Broomfield, CO 80020
Phone: Fax:
Sampler Name: Robert Aronoff

Project Manager: Mark Longhurst
E-Mail: mark.longhurst@pdce.com
Project Name: Peak 1 Tank Battery
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:										Special Instructions				
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	BTEXN (S2608)	TPH (C6-C13)	pH, EC, SAR	Baron - HVS	TMBs	PAHs - 915	Metals - 915	Hold							
SEP01-FL@4'	3/9/22	12:05	3			✓			✓					✓	✓			✓								
AST01 @ 0-6"	3/9/22	12:35	3			✓			✓					✓	✓			✓								
SS01 @ 10'	3/9/22	14:15	3			✓			✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
MH01-B@1'		13:40	3			✓			✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
MH01-N@0.5'		14:00	3			✓			✓																✓	
MH01-E@0.5'		14:05	3			✓			✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
MH01-S@0.5'		14:10	3			✓			✓																✓	
MH01-W@0.5'	✓	14:20	3			✓			✓																✓	

Relinquished by: 	Date/Time: 3/9/2022 17:40	Received by: TLB	Date/Time: 3922 1757	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 Hours <input type="checkbox"/>	Notes: RA RA MH01-B@1' Run MH01-B@1' for metals
Relinquished by: TLB	Date/Time: 3922 1757	Received by: 	Date/Time: 3922 1757		
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		

Sample Integrity: Temperature Upon Receipt: 7.7 Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
--	--

S₂

Sample Receipt Checklist

S2 Work Order#

2203161

Client: Peak/Tasman

Client Project ID:

Peak Tank BatteryShipped Via: ☐ H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

Matrix (check all that apply):

☐ Air☒ Soil/Solid☐ Water☐ Other:


(Describe)

Temp (°C)	<u>7.7</u>
-----------	------------

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

 Custodian Printed Name or Initials

3.9.22

Date/Time



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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

SEP01-FL@4'
2203161-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/09/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0172	03/09/22	03/09/22	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: **03/09/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/09/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0173	03/09/22	03/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/09/22 12:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		128 %	30-150		"	"	"	"	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

AST01@0-6"
2203161-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/09/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0172	03/09/22	03/10/22	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: **03/09/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/09/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0173	03/09/22	03/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/09/22 12:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		129 %	30-150		"	"	"	"	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

SS01@10'
2203161-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/09/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.025	0.0020	mg/kg	1	BFC0172	03/09/22	03/10/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.14	0.0050	"	"	"	"	"	"	
Xylenes (total)	15	0.10	"	10	"	"	"	"	
1,2,4-Trimethylbenzene	12	0.050	"	"	"	"	"	"	E
1,3,5-Trimethylbenzene	7.4	0.050	"	"	"	"	"	"	E
Naphthalene	0.28	0.0038	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	410	5.0	"	10	"	"	"	"	

Date Sampled: **03/09/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		68.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		123 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/09/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	5100	50	mg/kg	1	BFC0173	03/09/22	03/10/22	EPA 8015M	
C28-C36 (ORO)	600	50	"	"	"	"	"	"	

Date Sampled: **03/09/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		233 %	30-150		"	"	"	"	S-02

PAH by EPA Method 8270D SIM

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

SS01@10'
2203161-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/09/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.0500	mg/kg	10	BFC0175	03/10/22	03/12/22	EPA 8270D SIM	
Anthracene	0.621	0.0500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.0500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.0500	"	"	"	"	"	"	
Chrysene	0.104	0.0500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0500	"	"	"	"	"	"	
Fluoranthene	ND	0.0500	"	"	"	"	"	"	
Fluorene	0.225	0.0500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0500	"	"	"	"	"	"	
Pyrene	ND	0.0500	"	"	"	"	"	"	
1-Methylnaphthalene	4.29	0.500	"	100	"	"	"	"	
2-Methylnaphthalene	4.02	0.500	"	"	"	"	"	"	

Date Sampled: **03/09/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	52.6 %	40-150	"	"	"	"	"	"	
Surrogate: Fluoranthene-d10	39.2 %	40-150	"	"	"	"	"	"	S-02

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/09/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0253	0.0100	mg/L	1	BFC0211	03/11/22	03/13/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/09/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

SS01@10'
2203161-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.61	0.241	mg/kg dry	1	BFC0192	03/10/22	03/14/22	EPA 6020B
Barium	153	0.481	"	"	"	"	"	"
Cadmium	ND	0.241	"	"	"	"	"	"
Copper	5.33	0.481	"	"	"	"	"	"
Lead	6.64	0.241	"	"	"	"	"	"
Nickel	5.62	0.481	"	"	"	"	"	"
Selenium	0.884	0.313	"	"	"	"	"	"
Silver	0.0279	0.0241	"	"	"	"	"	"
Zinc	22.2	0.481	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/09/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFC0361	03/17/22	03/17/22	EPA 7196A	

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

Date Sampled: **03/09/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	143	0.0601	mg/L dry	1	BFC0202	03/10/22	03/13/22	EPA 6020B	
Magnesium	39.5	0.0601	"	"	"	"	"	"	
Sodium	925	0.0601	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/09/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	17.7	0.00100	units	1	BFC0262	03/14/22	03/14/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/09/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

SS01@10'
2203161-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.1	%	1	BFC0178	03/10/22	03/10/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/09/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.10	0.0100	mmhos/cm	1	BFC0221	03/11/22	03/11/22	EPA 120.1	

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

Date Sampled: **03/09/22 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99		pH Units	1	BFC0222	03/11/22	03/11/22	EPA 9045D	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

MH01-B@1'
2203161-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/09/22 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0172	03/09/22	03/10/22	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: **03/09/22 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/09/22 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0173	03/09/22	03/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/09/22 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		132 %	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

MH01-B@1'
2203161-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/09/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	0.00534	0.00500	mg/kg	1	BFC0175	03/10/22	03/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0113	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0187	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00801	0.00500	"	"	"	"	"	"	
Chrysene	0.0198	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0683	0.00500	"	"	"	"	"	"	
Fluorene	0.00560	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.00522	0.00500	"	"	"	"	"	"	
Pyrene	0.0530	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/09/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	87.6 %	40-150	"	"	"	"	"	"	
Surrogate: Fluoranthene-d10	93.0 %	40-150	"	"	"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/09/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.864	0.0100	mg/L	1	BFC0211	03/11/22	03/13/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/09/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: Peak 1 Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

MH01-B@1'
2203161-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.29	0.254	mg/kg dry	1	BFC0192	03/10/22	03/14/22	EPA 6020B
Barium	144	0.508	"	"	"	"	"	"
Cadmium	0.608	0.254	"	"	"	"	"	"
Copper	9.30	0.508	"	"	"	"	"	"
Lead	9.93	0.254	"	"	"	"	"	"
Nickel	6.63	0.508	"	"	"	"	"	"
Selenium	0.929	0.331	"	"	"	"	"	"
Silver	0.0451	0.0254	"	"	"	"	"	"
Zinc	37.9	0.508	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/09/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFC0361	03/17/22	03/17/22	EPA 7196A	

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

Date Sampled: **03/09/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14.5	0.0636	mg/L dry	1	BFC0202	03/10/22	03/13/22	EPA 6020B	
Magnesium	3.28	0.0636	"	"	"	"	"	"	
Sodium	7.57	0.0636	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/09/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.468	0.00100	units	1	BFC0262	03/14/22	03/14/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/09/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

MH01-B@1'
2203161-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	78.7	%	1	BFC0178	03/10/22	03/10/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/09/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.138	0.0100	mmhos/cm	1	BFC0221	03/11/22	03/11/22	EPA 120.1	

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

Date Sampled: **03/09/22 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BFC0222	03/11/22	03/11/22	EPA 9045D	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

MH01-E@0.5'
2203161-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/09/22 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0172	03/09/22	03/10/22	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: **03/09/22 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/09/22 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0173	03/09/22	03/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/09/22 14:05**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		131 %	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: Peak 1 Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

MH01-E@0.5'
2203161-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/09/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFC0175	03/10/22	03/11/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/09/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		101 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		85.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/09/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0987	0.0100	mg/L	1	BFC0211	03/11/22	03/13/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/09/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Peak 1 Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

MH01-E@0.5'
2203161-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.37	0.224	mg/kg dry	1	BFC0192	03/10/22	03/14/22	EPA 6020B
Barium	75.0	0.448	"	"	"	"	"	"
Cadmium	0.268	0.224	"	"	"	"	"	"
Copper	8.56	0.448	"	"	"	"	"	"
Lead	7.13	0.224	"	"	"	"	"	"
Nickel	5.01	0.448	"	"	"	"	"	"
Selenium	0.925	0.291	"	"	"	"	"	"
Silver	0.0440	0.0224	"	"	"	"	"	"
Zinc	38.2	0.448	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/09/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFC0361	03/17/22	03/17/22	EPA 7196A	

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

Date Sampled: **03/09/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	9.07	0.0560	mg/L dry	1	BFC0202	03/10/22	03/13/22	EPA 6020B	
Magnesium	2.96	0.0560	"	"	"	"	"	"	
Sodium	5.21	0.0560	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/09/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.384	0.00100	units	1	BFC0262	03/14/22	03/14/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/09/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

MH01-E@0.5'
2203161-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.3	%	1	BFC0178	03/10/22	03/10/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/09/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.148	0.0100	mmhos/cm	1	BFC0221	03/11/22	03/11/22	EPA 120.1	

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

Date Sampled: **03/09/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.20		pH Units	1	BFC0222	03/11/22	03/11/22	EPA 9045D	

Summit Scientific

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

Project: Peak 1 Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFC0172 - EPA 5030 Soil MS

Blank (BFC0172-BLK1)

Prepared: 03/09/22 Analyzed: 03/10/22

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	0.0361		"	0.0400		90.2	70-130			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	70-130			

LCS (BFC0172-BS1)

Prepared: 03/09/22 Analyzed: 03/10/22

Benzene	0.0617	0.0020	mg/kg	0.0750		82.3	70-130			
Toluene	0.0644	0.0050	"	0.0750		85.8	70-130			
Ethylbenzene	0.0657	0.0050	"	0.0750		87.6	70-130			
m,p-Xylene	0.140	0.010	"	0.150		93.1	70-130			
o-Xylene	0.0666	0.0050	"	0.0750		88.8	70-130			
1,2,4-Trimethylbenzene	0.0721	0.0050	"	0.0750		96.2	70-130			
1,3,5-Trimethylbenzene	0.0693	0.0050	"	0.0750		92.4	70-130			
Naphthalene	0.0731	0.0038	"	0.0750		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0371		"	0.0400		92.7	70-130			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		99.9	70-130			

Matrix Spike (BFC0172-MS1)

Source: 2203156-01

Prepared: 03/09/22 Analyzed: 03/10/22

Benzene	0.0594	0.0020	mg/kg	0.0750	ND	79.2	70-130			
Toluene	0.0636	0.0050	"	0.0750	ND	84.8	70-130			
Ethylbenzene	0.0659	0.0050	"	0.0750	ND	87.8	70-130			
m,p-Xylene	0.138	0.010	"	0.150	ND	92.0	70-130			
o-Xylene	0.0667	0.0050	"	0.0750	ND	88.9	70-130			
1,2,4-Trimethylbenzene	0.0720	0.0050	"	0.0750	ND	96.0	70-130			
1,3,5-Trimethylbenzene	0.0701	0.0050	"	0.0750	ND	93.5	70-130			
Naphthalene	0.0724	0.0038	"	0.0750	ND	96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0365		"	0.0400		91.4	70-130			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	70-130			

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BFC0172 - EPA 5030 Soil MS

Matrix Spike Dup (BFC0172-MSD1)	Source: 2203156-01			Prepared: 03/09/22 Analyzed: 03/10/22						
Benzene	0.0608	0.0020	mg/kg	0.0750	ND	81.0	70-130	2.25	30	
Toluene	0.0670	0.0050	"	0.0750	ND	89.4	70-130	5.28	30	
Ethylbenzene	0.0678	0.0050	"	0.0750	ND	90.4	70-130	2.87	30	
m,p-Xylene	0.142	0.010	"	0.150	ND	94.6	70-130	2.79	30	
o-Xylene	0.0680	0.0050	"	0.0750	ND	90.7	70-130	2.00	30	
1,2,4-Trimethylbenzene	0.0745	0.0050	"	0.0750	ND	99.3	70-130	3.44	30	
1,3,5-Trimethylbenzene	0.0734	0.0050	"	0.0750	ND	97.8	70-130	4.47	30	
Naphthalene	0.0741	0.0038	"	0.0750	ND	98.8	70-130	2.25	30	
Surrogate: 1,2-Dichloroethane-d4	0.0354		"	0.0400		88.4	70-130			
Surrogate: Toluene-d8	0.0415		"	0.0400		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	70-130			

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

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 BFC0173 - EPA 3550A

Blank (BFC0173-BLK1)

Prepared: 03/09/22 Analyzed: 03/10/22

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

LCS (BFC0173-BS1)

Prepared: 03/09/22 Analyzed: 03/10/22

C10-C28 (DRO)	630	50	mg/kg	500	126	70-130
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Matrix Spike (BFC0173-MS1)

Source: 2203156-01

Prepared: 03/09/22 Analyzed: 03/10/22

C10-C28 (DRO)	734	50	mg/kg	500	165	114	70-130
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Matrix Spike Dup (BFC0173-MSD1)

Source: 2203156-01

Prepared: 03/09/22 Analyzed: 03/10/22

C10-C28 (DRO)	680	50	mg/kg	500	165	103	70-130	7.68	20
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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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0175 - EPA 5030 Soil MS

Blank (BFC0175-BLK1)

Prepared & Analyzed: 03/10/22

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0308		"	0.0333		92.5	40-150			
Surrogate: Fluoranthene-d10	0.0240		"	0.0333		71.9	40-150			

LCS (BFC0175-BS1)

Prepared & Analyzed: 03/10/22

Acenaphthene	0.0232	0.00500	mg/kg	0.0333		69.6	31-137			
Anthracene	0.0243	0.00500	"	0.0333		72.8	30-120			
Benzo (a) anthracene	0.0253	0.00500	"	0.0333		75.9	30-120			
Benzo (a) pyrene	0.0232	0.00500	"	0.0333		69.7	30-120			
Benzo (b) fluoranthene	0.0239	0.00500	"	0.0333		71.8	30-120			
Benzo (k) fluoranthene	0.0251	0.00500	"	0.0333		75.4	30-120			
Chrysene	0.0256	0.00500	"	0.0333		76.7	30-120			
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333		64.9	30-120			
Fluoranthene	0.0249	0.00500	"	0.0333		74.7	30-120			
Fluorene	0.0238	0.00500	"	0.0333		71.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0135	0.00500	"	0.0333		40.5	30-120			
Pyrene	0.0252	0.00500	"	0.0333		75.5	35-142			
1-Methylnaphthalene	0.0318	0.00500	"	0.0333		95.4	35-142			
2-Methylnaphthalene	0.0339	0.00500	"	0.0333		102	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0348		"	0.0333		104	40-150			
Surrogate: Fluoranthene-d10	0.0279		"	0.0333		83.7	40-150			

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0175 - EPA 5030 Soil MS

Matrix Spike (BFC0175-MS1)			Source: 2203156-01		Prepared & Analyzed: 03/10/22					
Acenaphthene	0.0400	0.00500	mg/kg	0.0333	ND	120	31-137			
Anthracene	0.0244	0.00500	"	0.0333	ND	73.1	30-120			
Benzo (a) anthracene	0.0269	0.00500	"	0.0333	ND	80.8	30-120			
Benzo (a) pyrene	0.0213	0.00500	"	0.0333	ND	64.0	30-120			
Benzo (b) fluoranthene	0.0229	0.00500	"	0.0333	ND	68.8	30-120			
Benzo (k) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.7	30-120			
Chrysene	0.0310	0.00500	"	0.0333	0.00734	70.9	30-120			
Dibenz (a,h) anthracene	0.0134	0.00500	"	0.0333	ND	40.3	30-120			
Fluoranthene	0.0296	0.00500	"	0.0333	ND	88.9	30-120			
Fluorene	0.0337	0.00500	"	0.0333	0.0149	56.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0104	0.00500	"	0.0333	ND	31.2	30-120			
Pyrene	0.0315	0.00500	"	0.0333	ND	94.5	35-142			
1-Methylnaphthalene	0.0294	0.00500	"	0.0333	ND	88.3	15-130			
2-Methylnaphthalene	0.0318	0.00500	"	0.0333	ND	95.5	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0242		"	0.0333		72.5	40-150			
Surrogate: Fluoranthene-d10	0.0319		"	0.0333		95.8	40-150			

Matrix Spike Dup (BFC0175-MSD1)			Source: 2203156-01		Prepared: 03/10/22 Analyzed: 03/11/22					
Acenaphthene	0.0461	0.00500	mg/kg	0.0333	ND	138	31-137	14.2	30	QM-07
Anthracene	0.0307	0.00500	"	0.0333	ND	92.2	30-120	23.1	30	
Benzo (a) anthracene	0.0328	0.00500	"	0.0333	ND	98.3	30-120	19.5	30	
Benzo (a) pyrene	0.0271	0.00500	"	0.0333	ND	81.4	30-120	24.0	30	
Benzo (b) fluoranthene	0.0289	0.00500	"	0.0333	ND	86.6	30-120	22.9	30	
Benzo (k) fluoranthene	0.0266	0.00500	"	0.0333	ND	79.8	30-120	22.4	30	
Chrysene	0.0377	0.00500	"	0.0333	0.00734	91.1	30-120	19.6	30	
Dibenz (a,h) anthracene	0.0171	0.00500	"	0.0333	ND	51.4	30-120	24.4	30	
Fluoranthene	0.0363	0.00500	"	0.0333	ND	109	30-120	20.1	30	
Fluorene	0.0387	0.00500	"	0.0333	0.0149	71.3	30-120	14.0	30	
Indeno (1,2,3-cd) pyrene	0.0130	0.00500	"	0.0333	ND	39.0	30-120	22.1	30	
Pyrene	0.0377	0.00500	"	0.0333	ND	113	35-142	18.0	30	
1-Methylnaphthalene	0.0361	0.00500	"	0.0333	ND	108	15-130	20.3	50	
2-Methylnaphthalene	0.0411	0.00500	"	0.0333	ND	123	15-130	25.5	50	
Surrogate: 2-Methylnaphthalene-d10	0.0339		"	0.0333		102	40-150			
Surrogate: Fluoranthene-d10	0.0397		"	0.0333		119	40-150			

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

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

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

Batch BFC0211 - EPA 3050B

Blank (BFC0211-BLK1)

Prepared: 03/11/22 Analyzed: 03/13/22

Boron	ND	0.0100	mg/L
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LCS (BFC0211-BS1)

Prepared: 03/11/22 Analyzed: 03/13/22

Boron	4.74	0.0100	mg/L	5.00	94.7	80-120
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Duplicate (BFC0211-DUP1)

Source: 2203066-01

Prepared: 03/11/22 Analyzed: 03/13/22

Boron	0.424	0.0100	mg/L	0.436	2.69	20
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Matrix Spike (BFC0211-MS1)

Source: 2203066-01

Prepared: 03/11/22 Analyzed: 03/13/22

Boron	4.99	0.0100	mg/L	5.00	0.436	91.1	75-125
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Matrix Spike Dup (BFC0211-MSD1)

Source: 2203066-01

Prepared: 03/11/22 Analyzed: 03/13/22

Boron	5.36	0.0100	mg/L	5.00	0.436	98.4	75-125	7.06	25
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Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFC0192 - EPA 3050B

Blank (BFC0192-BLK1)

Prepared: 03/10/22 Analyzed: 03/14/22

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 (BFC0192-BS1)

Prepared: 03/10/22 Analyzed: 03/14/22

Arsenic	34.2	0.200	mg/kg wet	40.0	85.4	80-120
Barium	33.2	0.400	"	40.0	83.0	80-120
Cadmium	1.73	0.200	"	2.00	86.5	80-120
Copper	35.6	0.400	"	40.0	89.1	80-120
Lead	17.3	0.200	"	20.0	86.4	80-120
Nickel	34.6	0.400	"	40.0	86.4	80-120
Selenium	3.44	0.260	"	4.00	86.0	80-120
Silver	1.69	0.0200	"	2.00	84.3	80-120
Zinc	34.9	0.400	"	40.0	87.2	80-120

Duplicate (BFC0192-DUP1)

Source: 2203157-01

Prepared: 03/10/22 Analyzed: 03/14/22

Arsenic	3.32	0.225	mg/kg dry	3.43	3.28	20
Barium	26.4	0.450	"	30.9	15.5	20
Cadmium	0.133	0.225	"	0.206	43.1	20
Copper	8.65	0.450	"	8.53	1.41	20
Lead	7.79	0.225	"	7.73	0.681	20
Nickel	7.38	0.450	"	7.84	6.05	20
Selenium	0.722	0.293	"	0.697	3.45	20
Silver	0.0129	0.0225	"	0.0153	17.3	20
Zinc	35.6	0.450	"	37.2	4.26	20

QR-03

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFC0192 - EPA 3050B

Matrix Spike (BFC0192-MS1)		Source: 2203157-01			Prepared: 03/10/22		Analyzed: 03/14/22				
Arsenic	38.5	0.225	mg/kg dry	45.0	3.43	78.0	75-125				
Barium	60.9	0.450	"	45.0	30.9	66.7	75-125				QR-03
Cadmium	2.16	0.225	"	2.25	0.206	86.6	75-125				
Copper	41.9	0.450	"	45.0	8.53	74.2	75-125				QR-03
Lead	24.8	0.225	"	22.5	7.73	75.8	75-125				
Nickel	40.8	0.450	"	45.0	7.84	73.3	75-125				QR-03
Selenium	3.67	0.293	"	4.50	0.697	65.9	75-125				QR-03
Silver	1.72	0.0225	"	2.25	0.0153	75.6	75-125				
Zinc	74.7	0.450	"	45.0	37.2	83.2	75-125				

Matrix Spike Dup (BFC0192-MSD1)		Source: 2203157-01			Prepared: 03/10/22		Analyzed: 03/14/22				
Arsenic	39.4	0.225	mg/kg dry	45.0	3.43	79.9	75-125	2.28	25		
Barium	63.5	0.450	"	45.0	30.9	72.5	75-125	4.19	25		QR-03
Cadmium	1.98	0.225	"	2.25	0.206	78.8	75-125	8.54	25		
Copper	42.9	0.450	"	45.0	8.53	76.4	75-125	2.39	25		
Lead	24.7	0.225	"	22.5	7.73	75.2	75-125	0.566	25		
Nickel	41.7	0.450	"	45.0	7.84	75.3	75-125	2.18	25		
Selenium	3.59	0.293	"	4.50	0.697	64.2	75-125	2.16	25		QR-03
Silver	1.77	0.0225	"	2.25	0.0153	77.8	75-125	2.92	25		
Zinc	78.3	0.450	"	45.0	37.2	91.2	75-125	4.69	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFC0361 - 3060A Mod

Blank (BFC0361-BLK1)

Prepared & Analyzed: 03/17/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFC0361-BS1)

Prepared & Analyzed: 03/17/22

Chromium, Hexavalent 23.8 0.30 mg/kg wet 25.0 95.4 80-120

Duplicate (BFC0361-DUP1)

Source: 2203157-13

Prepared & Analyzed: 03/17/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFC0361-MS1)

Source: 2203157-13

Prepared & Analyzed: 03/17/22

Chromium, Hexavalent 30.9 0.30 mg/kg dry 27.4 ND 113 75-125

Matrix Spike Dup (BFC0361-MSD1)

Source: 2203157-13

Prepared & Analyzed: 03/17/22

Chromium, Hexavalent 27.5 0.30 mg/kg dry 27.4 ND 100 75-125 11.6 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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

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

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

Batch BFC0202 - General Preparation

Blank (BFC0202-BLK1)

Prepared: 03/10/22 Analyzed: 03/13/22

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

LCS (BFC0202-BS1)

Prepared: 03/10/22 Analyzed: 03/13/22

Calcium	5.07	0.0500	mg/L wet	5.00	101	70-130
Magnesium	5.12	0.0500	"	5.00	102	70-130
Sodium	5.00	0.0500	"	5.00	100	70-130

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

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

Summit Scientific

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

Batch BFC0178 - General Preparation

Duplicate (BFC0178-DUP1)		Source: 2203121-01		Prepared & Analyzed: 03/10/22						
% Solids	86.6		%		86.8			0.237	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

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

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

Batch BFC0221 - General Preparation

Blank (BFC0221-BLK1)

Prepared & Analyzed: 03/11/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFC0221-BS1)

Prepared & Analyzed: 03/11/22

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BFC0221-DUP1)

Source: 2203106-01

Prepared & Analyzed: 03/11/22

Specific Conductance (EC) 0.644 0.0100 mmhos/cm 0.646 0.310 20

Summit Scientific

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

Project: Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

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

Summit Scientific

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

Batch BFC0222 - General Preparation

LCS (BFC0222-BS1)

Prepared & Analyzed: 03/11/22

pH	9.18	pH Units	9.18	100	95-105
----	------	----------	------	-----	--------

Duplicate (BFC0222-DUP1)

Source: 2203106-01

Prepared & Analyzed: 03/11/22

pH	8.09	pH Units	8.13	0.493	20
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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: Peak 1 Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/22/22 15:10

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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

April 25, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

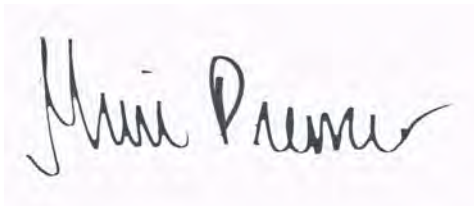
Denver, CO 80203

RE: Peak 1 Tank Battery

Work Order #2203177

Enclosed are the results of analyses for samples received by Summit Scientific on 03/10/22 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Muri Premer", is shown on a light pink background.

Muri Premer For Paul Shrewsbury

President



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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01-DL-B@5'	2203177-01	Soil	03/10/22 10:20	03/10/22 16:45
SEP01-DL-E@2.5'	2203177-05	Soil	03/10/22 10:28	03/10/22 16:45
BKG01@1'	2203177-06	Soil	03/10/22 14:30	03/10/22 16:45
BKG01@2.5'	2203177-07	Soil	03/10/22 14:35	03/10/22 16:45
BKG01@4'	2203177-08	Soil	03/10/22 14:40	03/10/22 16:45
BKG01@5'	2203177-09	Soil	03/10/22 14:45	03/10/22 16:45
BKG01@10'	2203177-10	Soil	03/10/22 14:55	03/10/22 16:45
SS02@15'	2203177-11	Soil	03/10/22 09:30	03/10/22 16:45
SS03@10'	2203177-12	Soil	03/10/22 12:10	03/10/22 16:45
SS04@5'	2203177-13	Soil	03/10/22 12:15	03/10/22 16:45
SS05@2.5'	2203177-14	Soil	03/10/22 12:20	03/10/22 16:45
SS06@10'	2203177-15	Soil	03/10/22 13:35	03/10/22 16:45
SS07@5'	2203177-16	Soil	03/10/22 13:40	03/10/22 16:45
SS09@10'	2203177-18	Soil	03/10/22 13:55	03/10/22 16:45
SS10@5'	2203177-19	Soil	03/10/22 14:00	03/10/22 16:45
SS11@2.5'	2203177-20	Soil	03/10/22 14:05	03/10/22 16:45

Summit Scientific

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

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

2203177.1

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: Peak 2 Tank Battery

Sampler Name: David Vig.

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	pH, EC, SAR	Boron - HWS	TMBs (1,2,4)&(1,3,5)	PAH - 915	Metals - 915		
1	SEP01-DL-B05'	3/10/22	1020	3			X			X				X	X	X	X	X	X	X	
2	SEP01-DL-N02.5'		1022	3			X			X										X	
3	SEP01-DL-W02.5'		1024	3			X			X										X	
4	SEP01-DL-S02.5'		1026	3			X			X										X	
5	SEP01-DL-E02.5'		1028	3			X			X			X	X	X	X	X	X	X		
6	BK60101'		1430	1			X			X										X	
7	BK60102.5'		1435	1			X			X										X	
8	BK60104'		1440	1			X			X										X	
9	BK60105'		1445	1			X			X										X	
10	BK601010'		1455	1			X			X										X	

Relinquished by:	Date/Time: 3/10/22 1645	Received by: Tasman's Lock Box RCH	Date/Time: 3/10/22 1645	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours ___ 24 hours ___ Standard ___ 48 hours ___ Sample Integrity: Temperature Upon Receipt: 4.3 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by: Tasman's Lock Box	Date/Time:	Received by:	Date/Time: 3/10/22 1645		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

52

303-277-9310

Page 2 of 2

Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions				
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	pH, EC, SAR	Boron - HWS	TMBs (1,2,4)&(1,3,5)	PAH - 915	Metals - 915		pH, EC, SAR by saturated paste				
1	S502 @ 15'	3/10/22	0930	3			X			X			X	X			X								
2	S503 @ 10'		1210	3			X			X			X	X			X								
3	S504 @ 5'		1215	3			X			X			X	X			X								
4	S505 @ 2.5'		1220	1			X			X										X					
5	S506 @ 10'		1335	3			X			X			X	X			X								
6	S507 @ 5'		1340	3			X			X			X	X			X								
7	S508 @ 2.5'		1345	1			X			X										X					
8	S509 @ 10'		1355	3			X			X			X	X			X								
9	S510 @ 5'		1400	3			X			X			X	X			X								
10	S511 @ 2.5'	✓	1405	1			X			X					X	X									
Relinquished by:		Date/Time:		Received by:		Date/Time:		Turn Around Time		(Check)		Notes:													
Tasman's Lock Box		3/10/22 1645		Tasman's Lock Box		3/10/22 1645		Same Day		X												72 hours		—	
Tasman's Lock Box				Tasman's Lock Box		3/10/22 1645		24 hours		—												Standard		—	
Relinquished by:		Date/Time:		Received by:		Date/Time:		Sample Integrity:		Temperature Upon Receipt:															
Tasman's Lock Box				Tasman's Lock Box		3/10/22 1645		48 hours		—		43													
Relinquished by:		Date/Time:		Received by:		Date/Time:		Samples Intact:		(Yes) No															

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2203177

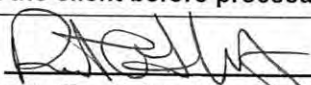
Client: Port Tasman Client Project ID: Peak 1 Tank BatteryShipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Temp (°C)	4.3
-----------	-----

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same day
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

 Custodian Printed Name or Initials

 3-1-0-22
 Date/Time



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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SEP01-DL-B@5'
2203177-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0208	03/10/22	03/10/22	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: **03/10/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	68	50	mg/kg	1	BFC0209	03/10/22	03/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		120 %	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SEP01-DL-B@5'
2203177-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFC0210	03/11/22	03/12/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/10/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		43.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/10/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.124	0.0100	mg/L	1	BFC0211	03/11/22	03/13/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/10/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Peak 1 Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SEP01-DL-B@5'
2203177-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.79	0.257	mg/kg dry	1	BFC0217	03/11/22	03/15/22	EPA 6020B
Barium	179	0.514	"	"	"	"	"	"
Cadmium	ND	0.257	"	"	"	"	"	"
Copper	6.71	0.514	"	"	"	"	"	"
Lead	7.69	0.257	"	"	"	"	"	"
Nickel	6.67	0.514	"	"	"	"	"	"
Selenium	0.761	0.334	"	"	"	"	"	"
Silver	0.0278	0.0257	"	"	"	"	"	"
Zinc	25.6	0.514	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/10/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFC0361	03/17/22	03/17/22	EPA 7196A	

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

Date Sampled: **03/10/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.4	0.0642	mg/L dry	1	BFC0226	03/11/22	03/15/22	EPA 6020B	
Magnesium	10.5	0.0642	"	"	"	"	"	"	
Sodium	30.5	0.0642	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.24	0.00100	units	1	BFC0330	03/16/22	03/16/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SEP01-DL-B@5'
2203177-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	77.8	%	1	BFC0287	03/15/22	03/15/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.398	0.0100	mmhos/cm	1	BFC0250	03/14/22	03/14/22	EPA 120.1	

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

Date Sampled: **03/10/22 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BFC0249	03/14/22	03/14/22	EPA 9045D	

Summit Scientific

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



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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SEP01-DL-E@2.5'
2203177-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/22 10:28**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0208	03/10/22	03/10/22	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: **03/10/22 10:28**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		91.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/22 10:28**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0209	03/10/22	03/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/22 10:28**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		121 %	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SEP01-DL-E@2.5'
2203177-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFC0210	03/11/22	03/12/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/10/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		40.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/10/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0998	0.0100	mg/L	1	BFC0211	03/11/22	03/13/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/10/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Peak 1 Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SEP01-DL-E@2.5'
2203177-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.35	0.254	mg/kg dry	1	BFC0217	03/11/22	03/15/22	EPA 6020B
Barium	173	0.508	"	"	"	"	"	"
Cadmium	ND	0.254	"	"	"	"	"	"
Copper	6.29	0.508	"	"	"	"	"	"
Lead	7.40	0.254	"	"	"	"	"	"
Nickel	6.07	0.508	"	"	"	"	"	"
Selenium	0.719	0.330	"	"	"	"	"	"
Silver	0.0367	0.0254	"	"	"	"	"	"
Zinc	25.7	0.508	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/10/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFC0361	03/17/22	03/17/22	EPA 7196A	

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

Date Sampled: **03/10/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.8	0.0634	mg/L dry	1	BFC0226	03/11/22	03/15/22	EPA 6020B	
Magnesium	19.5	0.0634	"	"	"	"	"	"	
Sodium	36.3	0.0634	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.13	0.00100	units	1	BFC0330	03/16/22	03/16/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SEP01-DL-E@2.5'
2203177-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	78.8	%	1	BFC0287	03/15/22	03/15/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.616	0.0100	mmhos/cm	1	BFC0250	03/14/22	03/14/22	EPA 120.1	

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

Date Sampled: **03/10/22 10:28**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BFC0249	03/14/22	03/14/22	EPA 9045D	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

BKG01@1'
2203177-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/10/22 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.30	0.223	mg/kg dry	1	BFC0217	03/11/22	03/15/22	EPA 6020B	
Barium	98.7	0.445	"	"	"	"	"	"	
Cadmium	ND	0.223	"	"	"	"	"	"	
Copper	9.20	0.445	"	"	"	"	"	"	
Lead	8.71	0.223	"	"	"	"	"	"	
Nickel	6.35	0.445	"	"	"	"	"	"	
Selenium	0.802	0.289	"	"	"	"	"	"	
Silver	0.0489	0.0223	"	"	"	"	"	"	
Zinc	39.2	0.445	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/10/22 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFC0361	03/17/22	03/17/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.8		%	1	BFC0287	03/15/22	03/15/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

BKG01@2.5'
2203177-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/10/22 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.98	0.224	mg/kg dry	1	BFC0217	03/11/22	03/15/22	EPA 6020B	
Barium	138	0.448	"	"	"	"	"	"	
Cadmium	0.234	0.224	"	"	"	"	"	"	
Copper	6.26	0.448	"	"	"	"	"	"	
Lead	7.76	0.224	"	"	"	"	"	"	
Nickel	6.17	0.448	"	"	"	"	"	"	
Selenium	0.696	0.291	"	"	"	"	"	"	
Silver	0.0363	0.0224	"	"	"	"	"	"	
Zinc	24.4	0.448	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/10/22 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFC0361	03/17/22	03/17/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.2		%	1	BFC0287	03/15/22	03/15/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

BKG01@4'
2203177-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/10/22 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.18	0.224	mg/kg dry	1	BFC0217	03/11/22	03/15/22	EPA 6020B	
Barium	192	0.449	"	"	"	"	"	"	
Cadmium	ND	0.224	"	"	"	"	"	"	
Copper	4.72	0.449	"	"	"	"	"	"	
Lead	7.20	0.224	"	"	"	"	"	"	
Nickel	5.29	0.449	"	"	"	"	"	"	
Selenium	0.653	0.292	"	"	"	"	"	"	
Silver	0.0274	0.0224	"	"	"	"	"	"	
Zinc	21.0	0.449	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/10/22 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFC0361	03/17/22	03/17/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.2		%	1	BFC0287	03/15/22	03/15/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

BKG01@5'
2203177-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/10/22 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.13	0.225	mg/kg dry	1	BFC0217	03/11/22	03/15/22	EPA 6020B	
Barium	285	0.449	"	"	"	"	"	"	
Cadmium	ND	0.225	"	"	"	"	"	"	
Copper	4.25	0.449	"	"	"	"	"	"	
Lead	6.13	0.225	"	"	"	"	"	"	
Nickel	4.61	0.449	"	"	"	"	"	"	
Selenium	0.632	0.292	"	"	"	"	"	"	
Silver	0.0273	0.0225	"	"	"	"	"	"	
Zinc	18.7	0.449	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/10/22 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFC0361	03/17/22	03/17/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.0		%	1	BFC0287	03/15/22	03/15/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

BKG01@10'
2203177-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/10/22 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.71	0.225	mg/kg dry	1	BFC0217	03/11/22	03/15/22	EPA 6020B	
Barium	186	0.450	"	"	"	"	"	"	
Cadmium	ND	0.225	"	"	"	"	"	"	
Copper	4.72	0.450	"	"	"	"	"	"	
Lead	6.69	0.225	"	"	"	"	"	"	
Nickel	5.04	0.450	"	"	"	"	"	"	
Selenium	0.644	0.292	"	"	"	"	"	"	
Silver	0.0284	0.0225	"	"	"	"	"	"	
Zinc	19.7	0.450	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/10/22 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFC0361	03/17/22	03/17/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	88.9		%	1	BFC0287	03/15/22	03/15/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS02@15'
2203177-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/22 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0208	03/10/22	03/10/22	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: **03/10/22 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/22 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0209	03/10/22	03/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/22 09:30**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		122 %	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS02@15'
2203177-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	BFC0507	03/23/22	03/26/22	EPA 8270D SIM	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/10/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		76.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		78.2 %	40-150		"	"	"	"	

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

Date Sampled: **03/10/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.8	0.0656	mg/L dry	1	BFC0522	03/23/22	03/24/22	EPA 6020B	
Magnesium	1.74	0.0656	"	"	"	"	"	"	
Sodium	9.50	0.0656	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.683	0.00100	units	1	BFC0579	03/24/22	03/24/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS02@15'
2203177-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	76.3	%	1	BFC0560	03/24/22	03/24/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/22 09:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.50	0.0100	mmhos/cm	1	BFC0534	03/23/22	03/23/22	EPA 120.1	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS03@10'
2203177-12 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/22 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0208	03/10/22	03/10/22	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: **03/10/22 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		98.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/22 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	1900	50	mg/kg	1	BFC0209	03/10/22	03/10/22	EPA 8015M	
C28-C36 (ORO)	120	50	"	"	"	"	"	"	

Date Sampled: **03/10/22 12:10**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		143 %	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS03@10'
2203177-12 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	BFC0507	03/23/22	03/25/22	EPA 8270D SIM	
Chrysene	0.0431	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/10/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.2 %	40-150		"	"	"	"	

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

Date Sampled: **03/10/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.8	0.0604	mg/L dry	1	BFC0522	03/23/22	03/24/22	EPA 6020B	
Magnesium	1.85	0.0604	"	"	"	"	"	"	
Sodium	3.66	0.0604	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.271	0.00100	units	1	BFC0579	03/24/22	03/24/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS03@10'
2203177-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.7	%	1	BFC0560	03/24/22	03/24/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/22 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.34	0.0100	mmhos/cm	1	BFC0534	03/23/22	03/23/22	EPA 120.1	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS04@5'
2203177-13 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0208	03/10/22	03/10/22	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: **03/10/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		99.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0209	03/10/22	03/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/22 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		116 %	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS04@5'
2203177-13 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	BFC0507	03/23/22	03/25/22	EPA 8270D SIM	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/10/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		43.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		45.7 %	40-150		"	"	"	"	

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

Date Sampled: **03/10/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.4	0.0621	mg/L dry	1	BFC0522	03/23/22	03/24/22	EPA 6020B	
Magnesium	4.11	0.0621	"	"	"	"	"	"	
Sodium	10.4	0.0621	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.360	0.00100	units	1	BFC0579	03/24/22	03/24/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS04@5'
2203177-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.6	%	1	BFC0560	03/24/22	03/24/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/22 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.962	0.0100	mmhos/cm	1	BFC0534	03/23/22	03/23/22	EPA 120.1	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS05@2.5'
2203177-14 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFC0507	03/23/22	03/25/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/10/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		49.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.4 %	40-150		"	"	"	"	

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

Date Sampled: **03/10/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	74.0	0.0627	mg/L dry	1	BFC0522	03/23/22	03/24/22	EPA 6020B	
Magnesium	4.75	0.0627	"	"	"	"	"	"	
Sodium	0.441	0.0627	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS05@2.5'
2203177-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/10/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0134	0.00100	units	1	BFC0579	03/24/22	03/24/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.8		%	1	BFC0560	03/24/22	03/24/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/22 12:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.465	0.0100	mmhos/cm	1	BFC0534	03/23/22	03/23/22	EPA 120.1	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS06@10'
2203177-15 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/22 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0208	03/10/22	03/10/22	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: **03/10/22 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		81.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		81.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/22 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0209	03/10/22	03/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/22 13:35**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		129 %	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS06@10'
2203177-15 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	BFC0507	03/23/22	03/25/22	EPA 8270D SIM	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/10/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		41.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		43.7 %	40-150		"	"	"	"	

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

Date Sampled: **03/10/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.2	0.0637	mg/L dry	1	BFC0522	03/23/22	03/24/22	EPA 6020B	
Magnesium	2.04	0.0637	"	"	"	"	"	"	
Sodium	5.04	0.0637	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.286	0.00100	units	1	BFC0579	03/24/22	03/24/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS06@10'
2203177-15 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	78.5	%	1	BFC0560	03/24/22	03/24/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/22 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.828	0.0100	mmhos/cm	1	BFC0534	03/23/22	03/23/22	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS07@5'
2203177-16 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/22 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0208	03/10/22	03/10/22	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: **03/10/22 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		90.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		96.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/22 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0209	03/10/22	03/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/22 13:40**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		125 %	30-150		"	"	"	"	

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: Peak 1 Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS09@10'
2203177-18 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0208	03/10/22	03/10/22	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: **03/10/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		97.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0209	03/10/22	03/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		121 %	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS09@10'
2203177-18 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	BFC0507	03/23/22	03/25/22	EPA 8270D SIM	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/10/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		40.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		45.2 %	40-150		"	"	"	"	

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

Date Sampled: **03/10/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.5	0.0609	mg/L dry	1	BFC0522	03/23/22	03/24/22	EPA 6020B	
Magnesium	3.93	0.0609	"	"	"	"	"	"	
Sodium	3.66	0.0609	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.161	0.00100	units	1	BFC0579	03/24/22	03/24/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS09@10'
2203177-18 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.0	%	1	BFC0560	03/24/22	03/24/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/22 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.465	0.0100	mmhos/cm	1	BFC0534	03/23/22	03/23/22	EPA 120.1	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS10@5'
2203177-19 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/10/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0208	03/10/22	03/10/22	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: **03/10/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		93.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/10/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0209	03/10/22	03/10/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/10/22 14:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		123 %	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS10@5'
2203177-19 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/10/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	BFC0507	03/23/22	03/25/22	EPA 8270D SIM	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/10/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		50.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.5 %	40-150		"	"	"	"	

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

Date Sampled: **03/10/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	8.04	0.0562	mg/L dry	1	BFC0522	03/23/22	03/24/22	EPA 6020B	
Magnesium	2.87	0.0562	"	"	"	"	"	"	
Sodium	0.308	0.0562	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0237	0.00100	units	1	BFC0579	03/24/22	03/24/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS10@5'
2203177-19 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	89.0	%	1	BFC0560	03/24/22	03/24/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/22 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.197	0.0100	mmhos/cm	1	BFC0534	03/23/22	03/23/22	EPA 120.1	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS11@2.5'
2203177-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/10/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.163	0.0100	mg/L	1	BFC0211	03/11/22	03/13/22	EPA 6020B	

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

Date Sampled: **03/10/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.3	0.0585	mg/L dry	1	BFC0226	03/11/22	03/15/22	EPA 6020B	
Magnesium	6.08	0.0585	"	"	"	"	"	"	
Sodium	24.5	0.0585	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/10/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.23	0.00100	units	1	BFC0330	03/16/22	03/16/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/10/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.5		%	1	BFC0287	03/15/22	03/15/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/10/22 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.308	0.0100	mmhos/cm	1	BFC0250	03/14/22	03/14/22	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

SS11@2.5'
2203177-20 (Soil)

Summit Scientific

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

Date Sampled: **03/10/22 14:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.91			pH Units	1	BFC0249	03/14/22	03/14/22	EPA 9045D	

Summit Scientific

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

Project: Peak 1 Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFC0208 - EPA 5030 Soil MS

Blank (BFC0208-BLK1)

Prepared & Analyzed: 03/10/22

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	0.0398		"	0.0400		99.4	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

LCS (BFC0208-BS1)

Prepared & Analyzed: 03/10/22

Benzene	0.0626	0.0020	mg/kg	0.0750		83.4	70-130			
Toluene	0.0664	0.0050	"	0.0750		88.5	70-130			
Ethylbenzene	0.0680	0.0050	"	0.0750		90.6	70-130			
m,p-Xylene	0.145	0.010	"	0.150		96.6	70-130			
o-Xylene	0.0680	0.0050	"	0.0750		90.6	70-130			
1,2,4-Trimethylbenzene	0.0731	0.0050	"	0.0750		97.4	70-130			
1,3,5-Trimethylbenzene	0.0727	0.0050	"	0.0750		97.0	70-130			
Naphthalene	0.0559	0.0038	"	0.0750		74.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0335		"	0.0400		83.8	50-150			
Surrogate: Toluene-d8	0.0414		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400		94.2	50-150			

Matrix Spike (BFC0208-MS1)

Source: 2203177-01

Prepared & Analyzed: 03/10/22

Benzene	0.0625	0.0020	mg/kg	0.0750	ND	83.3	70-130			
Toluene	0.0647	0.0050	"	0.0750	ND	86.3	70-130			
Ethylbenzene	0.0655	0.0050	"	0.0750	ND	87.3	70-130			
m,p-Xylene	0.137	0.010	"	0.150	ND	91.6	70-130			
o-Xylene	0.0664	0.0050	"	0.0750	ND	88.5	70-130			
1,2,4-Trimethylbenzene	0.0721	0.0050	"	0.0750	ND	96.1	70-130			
1,3,5-Trimethylbenzene	0.0706	0.0050	"	0.0750	ND	94.1	70-130			
Naphthalene	0.0702	0.0038	"	0.0750	ND	93.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0384		"	0.0400		95.9	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.5	50-150			

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BFC0208 - EPA 5030 Soil MS

Matrix Spike Dup (BFC0208-MSD1)		Source: 2203177-01			Prepared & Analyzed: 03/10/22					
Benzene	0.0597	0.0020	mg/kg	0.0750	ND	79.6	70-130	4.47	30	
Toluene	0.0646	0.0050	"	0.0750	ND	86.2	70-130	0.139	30	
Ethylbenzene	0.0676	0.0050	"	0.0750	ND	90.1	70-130	3.20	30	
m,p-Xylene	0.144	0.010	"	0.150	ND	95.8	70-130	4.48	30	
o-Xylene	0.0693	0.0050	"	0.0750	ND	92.4	70-130	4.29	30	
1,2,4-Trimethylbenzene	0.0751	0.0050	"	0.0750	ND	100	70-130	4.08	30	
1,3,5-Trimethylbenzene	0.0740	0.0050	"	0.0750	ND	98.6	70-130	4.65	30	
Naphthalene	0.0728	0.0038	"	0.0750	ND	97.1	70-130	3.61	30	
Surrogate: 1,2-Dichloroethane-d4		0.0369	"	0.0400		92.2	50-150			
Surrogate: Toluene-d8		0.0406	"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene		0.0405	"	0.0400		101	50-150			

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

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 BFC0209 - EPA 3550A

Blank (BFC0209-BLK1)

Prepared & Analyzed: 03/10/22

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

LCS (BFC0209-BS1)

Prepared & Analyzed: 03/10/22

C10-C28 (DRO)	552	50	mg/kg	500	110	70-130
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Matrix Spike (BFC0209-MS1)

Source: 2203177-01

Prepared & Analyzed: 03/10/22

C10-C28 (DRO)	594	50	mg/kg	500	67.6	105	70-130
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Matrix Spike Dup (BFC0209-MSD1)

Source: 2203177-01

Prepared & Analyzed: 03/10/22

C10-C28 (DRO)	580	50	mg/kg	500	67.6	102	70-130	2.40	20
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Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

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 BFC0210 - EPA 5030 Soil MS

Blank (BFC0210-BLK1)

Prepared: 03/11/22 Analyzed: 03/12/22

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0298		"	0.0333		89.4	40-150			
Surrogate: Fluoranthene-d10	0.0274		"	0.0333		82.2	40-150			

LCS (BFC0210-BS1)

Prepared: 03/11/22 Analyzed: 03/12/22

Acenaphthene	0.0297	0.00500	mg/kg	0.0333		89.1	31-137			
Anthracene	0.0297	0.00500	"	0.0333		89.2	30-120			
Benzo (a) anthracene	0.0254	0.00500	"	0.0333		76.3	30-120			
Benzo (a) pyrene	0.0250	0.00500	"	0.0333		75.0	30-120			
Benzo (b) fluoranthene	0.0247	0.00500	"	0.0333		74.2	30-120			
Benzo (k) fluoranthene	0.0316	0.00500	"	0.0333		94.7	30-120			
Chrysene	0.0309	0.00500	"	0.0333		92.6	30-120			
Dibenz (a,h) anthracene	0.0254	0.00500	"	0.0333		76.3	30-120			
Fluoranthene	0.0304	0.00500	"	0.0333		91.2	30-120			
Fluorene	0.0314	0.00500	"	0.0333		94.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0302	0.00500	"	0.0333		90.7	30-120			
Pyrene	0.0310	0.00500	"	0.0333		93.0	35-142			
1-Methylnaphthalene	0.0283	0.00500	"	0.0333		84.9	35-142			
2-Methylnaphthalene	0.0260	0.00500	"	0.0333		77.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0275		"	0.0333		82.5	40-150			
Surrogate: Fluoranthene-d10	0.0317		"	0.0333		95.0	40-150			

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0210 - EPA 5030 Soil MS

Matrix Spike (BFC0210-MS1)

Source: 2203179-05

Prepared: 03/11/22 Analyzed: 03/16/22

Acenaphthene	0.0156	0.00500	mg/kg	0.0333	ND	46.8	31-137		
Anthracene	0.0167	0.00500	"	0.0333	ND	50.0	30-120		
Benzo (a) anthracene	0.0177	0.00500	"	0.0333	ND	53.2	30-120		
Benzo (a) pyrene	0.0142	0.00500	"	0.0333	ND	42.5	30-120		
Benzo (b) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.2	30-120		
Benzo (k) fluoranthene	0.0147	0.00500	"	0.0333	ND	44.0	30-120		
Chrysene	0.0171	0.00500	"	0.0333	ND	51.2	30-120		
Dibenz (a,h) anthracene	0.0160	0.00500	"	0.0333	ND	48.1	30-120		
Fluoranthene	0.0181	0.00500	"	0.0333	ND	54.2	30-120		
Fluorene	0.0165	0.00500	"	0.0333	ND	49.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0142	0.00500	"	0.0333	ND	42.5	30-120		
Pyrene	0.0183	0.00500	"	0.0333	ND	54.9	35-142		
1-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.7	15-130		
2-Methylnaphthalene	0.0215	0.00500	"	0.0333	ND	64.5	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0237		"	0.0333		71.2	40-150		
Surrogate: Fluoranthene-d10	0.0214		"	0.0333		64.3	40-150		

Matrix Spike Dup (BFC0210-MSD1)

Source: 2203179-05

Prepared: 03/11/22 Analyzed: 03/16/22

Acenaphthene	0.0136	0.00500	mg/kg	0.0333	ND	40.8	31-137	13.7	30
Anthracene	0.0207	0.00500	"	0.0333	ND	62.2	30-120	21.7	30
Benzo (a) anthracene	0.0156	0.00500	"	0.0333	ND	46.9	30-120	12.5	30
Benzo (a) pyrene	0.0165	0.00500	"	0.0333	ND	49.4	30-120	15.0	30
Benzo (b) fluoranthene	0.0200	0.00500	"	0.0333	ND	60.0	30-120	25.9	30
Benzo (k) fluoranthene	0.0163	0.00500	"	0.0333	ND	49.0	30-120	10.8	30
Chrysene	0.0219	0.00500	"	0.0333	ND	65.7	30-120	24.7	30
Dibenz (a,h) anthracene	0.0144	0.00500	"	0.0333	ND	43.2	30-120	10.7	30
Fluoranthene	0.0152	0.00500	"	0.0333	ND	45.7	30-120	17.0	30
Fluorene	0.0174	0.00500	"	0.0333	ND	52.2	30-120	5.58	30
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.5	30-120	11.2	30
Pyrene	0.0163	0.00500	"	0.0333	ND	48.8	35-142	11.9	30
1-Methylnaphthalene	0.0217	0.00500	"	0.0333	ND	65.0	15-130	5.25	50
2-Methylnaphthalene	0.0259	0.00500	"	0.0333	ND	77.7	15-130	18.5	50
Surrogate: 2-Methylnaphthalene-d10	0.0160		"	0.0333		47.9	40-150		
Surrogate: Fluoranthene-d10	0.0143		"	0.0333		42.8	40-150		

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0507 - EPA 5030 Soil MS

Blank (BFC0507-BLK1)

Prepared: 03/23/22 Analyzed: 03/25/22

Acenaphthene	ND	0.00500	mg/kg							
Acenaphthene	ND	0.00500	"							
Anthracene	ND	0.00500	"							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0216		"	0.0333	64.8	40-150				
Surrogate: 2-Methylnaphthalene-d10	0.0216		"	0.0333	64.8	40-150				
Surrogate: Fluoranthene-d10	0.0242		"	0.0333	72.7	40-150				
Surrogate: Fluoranthene-d10	0.0242		"	0.0333	72.7	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0507 - EPA 5030 Soil MS

LCS (BFC0507-BS1)

Prepared: 03/23/22 Analyzed: 03/25/22

Acenaphthene	0.0190	0.00500	mg/kg	0.0333	57.1	31-137
Acenaphthene	0.0190	0.00500	"	0.0333	57.1	31-137
Anthracene	0.0203	0.00500	"	0.0333	61.0	30-120
Anthracene	0.0203	0.00500	"	0.0333	61.0	30-120
Benzo (a) anthracene	0.0201	0.00500	"	0.0333	60.3	30-120
Benzo (a) anthracene	0.0201	0.00500	"	0.0333	60.3	30-120
Benzo (a) pyrene	0.0246	0.00500	"	0.0333	73.9	30-120
Benzo (a) pyrene	0.0246	0.00500	"	0.0333	73.9	30-120
Benzo (b) fluoranthene	0.0214	0.00500	"	0.0333	64.3	30-120
Benzo (b) fluoranthene	0.0214	0.00500	"	0.0333	64.3	30-120
Benzo (k) fluoranthene	0.0260	0.00500	"	0.0333	78.0	30-120
Benzo (k) fluoranthene	0.0260	0.00500	"	0.0333	78.0	30-120
Chrysene	0.0239	0.00500	"	0.0333	71.6	30-120
Chrysene	0.0239	0.00500	"	0.0333	71.6	30-120
Dibenz (a,h) anthracene	0.0263	0.00500	"	0.0333	79.0	30-120
Dibenz (a,h) anthracene	0.0263	0.00500	"	0.0333	79.0	30-120
Fluoranthene	0.0223	0.00500	"	0.0333	66.9	30-120
Fluoranthene	0.0223	0.00500	"	0.0333	66.9	30-120
Fluorene	0.0214	0.00500	"	0.0333	64.1	30-120
Fluorene	0.0214	0.00500	"	0.0333	64.1	30-120
Indeno (1,2,3-cd) pyrene	0.0391	0.00500	"	0.0333	117	30-120
Indeno (1,2,3-cd) pyrene	0.0391	0.00500	"	0.0333	117	30-120
Pyrene	0.0250	0.00500	"	0.0333	74.9	35-142
Pyrene	0.0250	0.00500	"	0.0333	74.9	35-142
1-Methylnaphthalene	0.0185	0.00500	"	0.0333	55.5	35-142
1-Methylnaphthalene	0.0185	0.00500	"	0.0333	55.5	35-142
2-Methylnaphthalene	0.0160	0.00500	"	0.0333	48.0	35-142
2-Methylnaphthalene	0.0160	0.00500	"	0.0333	48.0	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0174		"	0.0333	52.3	40-150
Surrogate: 2-Methylnaphthalene-d10	0.0174		"	0.0333	52.3	40-150
Surrogate: Fluoranthene-d10	0.0213		"	0.0333	63.8	40-150
Surrogate: Fluoranthene-d10	0.0213		"	0.0333	63.8	40-150

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0507 - EPA 5030 Soil MS

Matrix Spike (BFC0507-MS1)

Source: 2203177-11

Prepared: 03/23/22 Analyzed: 03/26/22

Acenaphthene	0.0296	0.00500	mg/kg	0.0333	ND	88.9	31-137
Acenaphthene	0.0296	0.00500	"	0.0333	ND	88.9	31-137
Anthracene	0.0294	0.00500	"	0.0333	ND	88.1	30-120
Anthracene	0.0294	0.00500	"	0.0333	ND	88.1	30-120
Benzo (a) anthracene	0.0316	0.00500	"	0.0333	ND	94.8	30-120
Benzo (a) anthracene	0.0316	0.00500	"	0.0333	ND	94.8	30-120
Benzo (a) pyrene	0.0296	0.00500	"	0.0333	ND	88.7	30-120
Benzo (a) pyrene	0.0296	0.00500	"	0.0333	ND	88.7	30-120
Benzo (b) fluoranthene	0.0315	0.00500	"	0.0333	ND	94.5	30-120
Benzo (b) fluoranthene	0.0315	0.00500	"	0.0333	ND	94.5	30-120
Benzo (k) fluoranthene	0.0288	0.00500	"	0.0333	ND	86.4	30-120
Benzo (k) fluoranthene	0.0288	0.00500	"	0.0333	ND	86.4	30-120
Chrysene	0.0310	0.00500	"	0.0333	ND	93.0	30-120
Chrysene	0.0310	0.00500	"	0.0333	ND	93.0	30-120
Dibenz (a,h) anthracene	0.0210	0.00500	"	0.0333	ND	63.1	30-120
Dibenz (a,h) anthracene	0.0210	0.00500	"	0.0333	ND	63.1	30-120
Fluoranthene	0.0289	0.00500	"	0.0333	ND	86.7	30-120
Fluoranthene	0.0289	0.00500	"	0.0333	ND	86.7	30-120
Fluorene	0.0290	0.00500	"	0.0333	ND	87.1	30-120
Fluorene	0.0290	0.00500	"	0.0333	ND	87.1	30-120
Indeno (1,2,3-cd) pyrene	0.0218	0.00500	"	0.0333	ND	65.4	30-120
Indeno (1,2,3-cd) pyrene	0.0218	0.00500	"	0.0333	ND	65.4	30-120
Pyrene	0.0314	0.00500	"	0.0333	ND	94.1	35-142
Pyrene	0.0314	0.00500	"	0.0333	ND	94.1	35-142
1-Methylnaphthalene	0.0268	0.00500	"	0.0333	ND	80.4	15-130
1-Methylnaphthalene	0.0268	0.00500	"	0.0333	ND	80.4	15-130
2-Methylnaphthalene	0.0265	0.00500	"	0.0333	ND	79.4	15-130
2-Methylnaphthalene	0.0265	0.00500	"	0.0333	ND	79.4	15-130
Surrogate: 2-Methylnaphthalene-d10	0.0238		"	0.0333		71.5	40-150
Surrogate: 2-Methylnaphthalene-d10	0.0238		"	0.0333		71.5	40-150
Surrogate: Fluoranthene-d10	0.0285		"	0.0333		85.6	40-150
Surrogate: Fluoranthene-d10	0.0285		"	0.0333		85.6	40-150

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0507 - EPA 5030 Soil MS

Matrix Spike Dup (BFC0507-MSD1)

Source: 2203177-11

Prepared: 03/23/22 Analyzed: 03/26/22

Acenaphthene	0.0259	0.00500	mg/kg	0.0333	ND	77.8	31-137	13.3	30
Acenaphthene	0.0259	0.00500	"	0.0333	ND	77.8	31-137	13.3	30
Anthracene	0.0293	0.00500	"	0.0333	ND	87.8	30-120	0.297	30
Anthracene	0.0293	0.00500	"	0.0333	ND	87.8	30-120	0.297	30
Benzo (a) anthracene	0.0290	0.00500	"	0.0333	ND	86.9	30-120	8.79	30
Benzo (a) anthracene	0.0290	0.00500	"	0.0333	ND	86.9	30-120	8.79	30
Benzo (a) pyrene	0.0276	0.00500	"	0.0333	ND	82.8	30-120	6.87	30
Benzo (a) pyrene	0.0276	0.00500	"	0.0333	ND	82.8	30-120	6.87	30
Benzo (b) fluoranthene	0.0295	0.00500	"	0.0333	ND	88.4	30-120	6.70	30
Benzo (b) fluoranthene	0.0295	0.00500	"	0.0333	ND	88.4	30-120	6.70	30
Benzo (k) fluoranthene	0.0276	0.00500	"	0.0333	ND	82.9	30-120	4.19	30
Benzo (k) fluoranthene	0.0276	0.00500	"	0.0333	ND	82.9	30-120	4.19	30
Chrysene	0.0292	0.00500	"	0.0333	ND	87.7	30-120	5.81	30
Chrysene	0.0292	0.00500	"	0.0333	ND	87.7	30-120	5.81	30
Dibenz (a,h) anthracene	0.0200	0.00500	"	0.0333	ND	60.1	30-120	4.85	30
Dibenz (a,h) anthracene	0.0200	0.00500	"	0.0333	ND	60.1	30-120	4.85	30
Fluoranthene	0.0286	0.00500	"	0.0333	ND	85.7	30-120	1.21	30
Fluoranthene	0.0286	0.00500	"	0.0333	ND	85.7	30-120	1.21	30
Fluorene	0.0253	0.00500	"	0.0333	ND	75.8	30-120	13.9	30
Fluorene	0.0253	0.00500	"	0.0333	ND	75.8	30-120	13.9	30
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333	ND	62.1	30-120	5.19	30
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333	ND	62.1	30-120	5.19	30
Pyrene	0.0287	0.00500	"	0.0333	ND	86.1	35-142	8.84	30
Pyrene	0.0287	0.00500	"	0.0333	ND	86.1	35-142	8.84	30
1-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	69.9	15-130	14.0	50
1-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	69.9	15-130	14.0	50
2-Methylnaphthalene	0.0219	0.00500	"	0.0333	ND	65.8	15-130	18.7	50
2-Methylnaphthalene	0.0219	0.00500	"	0.0333	ND	65.8	15-130	18.7	50
Surrogate: 2-Methylnaphthalene-d10	0.0239		"	0.0333		71.8	40-150		
Surrogate: 2-Methylnaphthalene-d10	0.0239		"	0.0333		71.8	40-150		
Surrogate: Fluoranthene-d10	0.0281		"	0.0333		84.2	40-150		
Surrogate: Fluoranthene-d10	0.0281		"	0.0333		84.2	40-150		

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

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

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

Batch BFC0211 - EPA 3050B

Blank (BFC0211-BLK1)

Prepared: 03/11/22 Analyzed: 03/13/22

Boron ND 0.0100 mg/L

LCS (BFC0211-BS1)

Prepared: 03/11/22 Analyzed: 03/13/22

Boron 4.74 0.0100 mg/L 5.00 94.7 80-120

Duplicate (BFC0211-DUP1)

Source: 2203066-01

Prepared: 03/11/22 Analyzed: 03/13/22

Boron 0.424 0.0100 mg/L 0.436 2.69 20

Matrix Spike (BFC0211-MS1)

Source: 2203066-01

Prepared: 03/11/22 Analyzed: 03/13/22

Boron 4.99 0.0100 mg/L 5.00 0.436 91.1 75-125

Matrix Spike Dup (BFC0211-MSD1)

Source: 2203066-01

Prepared: 03/11/22 Analyzed: 03/13/22

Boron 5.36 0.0100 mg/L 5.00 0.436 98.4 75-125 7.06 25

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFC0217 - EPA 3050B

Blank (BFC0217-BLK1)

Prepared: 03/11/22 Analyzed: 03/15/22

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 (BFC0217-BS1)

Prepared: 03/11/22 Analyzed: 03/15/22

Arsenic	38.2	0.200	mg/kg wet	40.0	95.4	80-120
Barium	36.4	0.400	"	40.0	91.0	80-120
Cadmium	2.06	0.200	"	2.00	103	80-120
Copper	37.5	0.400	"	40.0	93.6	80-120
Lead	20.0	0.200	"	20.0	99.9	80-120
Nickel	36.5	0.400	"	40.0	91.3	80-120
Selenium	3.55	0.260	"	4.00	88.7	80-120
Silver	2.00	0.0200	"	2.00	100	80-120
Zinc	42.2	0.400	"	40.0	106	80-120

Duplicate (BFC0217-DUP1)

Source: 2203174-01

Prepared: 03/11/22 Analyzed: 03/15/22

Arsenic	0.819	0.208	mg/kg dry	1.03	23.2	20	QR-03
Barium	58.4	0.417	"	68.7	16.3	20	
Cadmium	0.0858	0.208	"	0.104	19.5	20	
Copper	2.46	0.417	"	2.67	8.37	20	
Lead	3.14	0.208	"	3.69	16.1	20	
Nickel	2.39	0.417	"	2.74	13.4	20	
Selenium	0.225	0.271	"	0.256	12.7	20	
Silver	0.0131	0.0208	"	0.0150	13.6	20	
Zinc	11.3	0.417	"	11.9	4.96	20	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFC0217 - EPA 3050B

Matrix Spike (BFC0217-MS1)		Source: 2203174-01			Prepared: 03/11/22 Analyzed: 03/15/22					
Arsenic	39.4	0.208	mg/kg dry	41.7	1.03	92.0	75-125			
Barium	97.5	0.417	"	41.7	68.7	69.0	75-125			QR-03
Cadmium	2.11	0.208	"	2.08	0.104	96.1	75-125			
Copper	40.7	0.417	"	41.7	2.67	91.3	75-125			
Lead	22.4	0.208	"	20.8	3.69	89.6	75-125			
Nickel	39.4	0.417	"	41.7	2.74	88.1	75-125			
Selenium	3.67	0.271	"	4.17	0.256	81.9	75-125			
Silver	1.91	0.0208	"	2.08	0.0150	90.7	75-125			
Zinc	55.3	0.417	"	41.7	11.9	104	75-125			

Matrix Spike Dup (BFC0217-MSD1)		Source: 2203174-01			Prepared: 03/11/22 Analyzed: 03/15/22					
Arsenic	39.6	0.208	mg/kg dry	41.7	1.03	92.6	75-125	0.638	25	
Barium	91.0	0.417	"	41.7	68.7	53.5	75-125	6.83	25	QR-03
Cadmium	2.05	0.208	"	2.08	0.104	93.2	75-125	2.88	25	
Copper	40.5	0.417	"	41.7	2.67	90.8	75-125	0.505	25	
Lead	21.7	0.208	"	20.8	3.69	86.4	75-125	3.00	25	
Nickel	39.5	0.417	"	41.7	2.74	88.3	75-125	0.190	25	
Selenium	3.50	0.271	"	4.17	0.256	78.0	75-125	4.56	25	
Silver	1.85	0.0208	"	2.08	0.0150	88.1	75-125	2.95	25	
Zinc	54.3	0.417	"	41.7	11.9	102	75-125	1.92	25	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFC0361 - 3060A Mod

Blank (BFC0361-BLK1)

Prepared & Analyzed: 03/17/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFC0361-BS1)

Prepared & Analyzed: 03/17/22

Chromium, Hexavalent 23.8 0.30 mg/kg wet 25.0 95.4 80-120

Duplicate (BFC0361-DUP1)

Source: 2203157-13

Prepared & Analyzed: 03/17/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFC0361-MS1)

Source: 2203157-13

Prepared & Analyzed: 03/17/22

Chromium, Hexavalent 30.9 0.30 mg/kg dry 27.4 ND 113 75-125

Matrix Spike Dup (BFC0361-MSD1)

Source: 2203157-13

Prepared & Analyzed: 03/17/22

Chromium, Hexavalent 27.5 0.30 mg/kg dry 27.4 ND 100 75-125 11.6 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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

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

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

Batch BFC0226 - General Preparation

Blank (BFC0226-BLK1)

Prepared: 03/11/22 Analyzed: 03/15/22

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

LCS (BFC0226-BS1)

Prepared: 03/11/22 Analyzed: 03/15/22

Calcium	5.36	0.0500	mg/L wet	5.00	107	70-130
Magnesium	5.50	0.0500	"	5.00	110	70-130
Sodium	5.27	0.0500	"	5.00	105	70-130

Batch BFC0522 - General Preparation

Blank (BFC0522-BLK1)

Prepared: 03/23/22 Analyzed: 03/24/22

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

LCS (BFC0522-BS1)

Prepared: 03/23/22 Analyzed: 03/24/22

Calcium	5.60	0.0500	mg/L wet	5.00	112	70-130
Magnesium	6.03	0.0500	"	5.00	121	70-130
Sodium	6.03	0.0500	"	5.00	121	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: Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

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

Summit Scientific

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

Batch BFC0287 - General Preparation

Duplicate (BFC0287-DUP1)

Source: 2203021-01

Prepared & Analyzed: 03/15/22

% Solids	85.5	%		85.3		0.253	20
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Batch BFC0560 - General Preparation

Duplicate (BFC0560-DUP1)

Source: 2203177-11

Prepared & Analyzed: 03/24/22

% Solids	74.4	%		76.3		2.55	20
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Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

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

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

Batch BFC0250 - General Preparation

Blank (BFC0250-BLK1)

Prepared & Analyzed: 03/14/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFC0250-BS1)

Prepared & Analyzed: 03/14/22

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BFC0250-DUP1)

Source: 2203112-01

Prepared & Analyzed: 03/14/22

Specific Conductance (EC) 0.768 0.0100 mmhos/cm 0.779 1.42 20

Batch BFC0534 - General Preparation

Blank (BFC0534-BLK1)

Prepared & Analyzed: 03/23/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFC0534-BS1)

Prepared & Analyzed: 03/23/22

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BFC0534-DUP2)

Source: 2202085-01

Prepared & Analyzed: 03/23/22

Specific Conductance (EC) 0.268 0.0100 mmhos/cm 0.269 0.522 20

Summit Scientific

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

Project: Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

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

Summit Scientific

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

Batch BFC0249 - General Preparation

LCS (BFC0249-BS1)

Prepared & Analyzed: 03/14/22

pH	9.00	pH Units	9.18	98.0	95-105
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Duplicate (BFC0249-DUP1)

Source: 2203112-01

Prepared & Analyzed: 03/14/22

pH	8.08	pH Units	8.02	0.745	20
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Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
04/25/22 14:13

Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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

March 31, 2022

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Peak 1 Tank Battery

Work Order #2203181

Enclosed are the results of analyses for samples received by Summit Scientific on 03/11/22 11:40. 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', with a stylized, cursive script.

Paul Shrewsbury For Muri Premer
Project Manager



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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS12@10'	2203181-01	Soil	03/11/22 09:20	03/11/22 11:40
SS13@5'	2203181-02	Soil	03/11/22 09:25	03/11/22 11:40
SS15@10'	2203181-04	Soil	03/11/22 09:50	03/11/22 11:40
SS16@5'	2203181-05	Soil	03/11/22 09:55	03/11/22 11:40


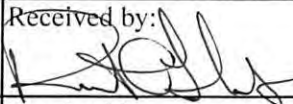
Summit Scientific

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

Summit Scientific

303-277-9310

Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	pH, EC, SAR	Boron - HWS	TMBs (1,2,4)&(1,3,5)	PAH - 915	Metals - 915		pH, EC, SAR by saturated paste 4018	
1	SS12 @ 10'	3/11/22 ↓	0920	3			X			X			X	X			X					
2	SS13 @ 5'		0925	3			X			X			X	X			X					
3	SS14 @ 2.5'		0930	1			X			X												X
4	SS15 @ 10'		0950	3			X			X			X	X			X					
5	SS16 @ 5'		0955	3			X			X			X	X			X					
6	SS17 @ 2.5'		1000	1			X			X												X
7																						
8																						
9																						
10																						
Relinquished by: 		Date/Time: 3/11/22 1140	Received by: Tasman's Lock Box		Date/Time:		Turn Around Time (Check)		Notes:													
Relinquished by: Tasman's Lock Box		Date/Time:	Received by: 		Date/Time: 3/11/22 1140		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: 3.9													
									Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No													

S₂2/2
Sample Receipt Checklist

S2 Work Order#

2203181

Client: PortasmanClient Project ID: Peak Tank BatteryShipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

Matrix (check all that apply):

☐

Air

☒

Soil/Solid

☐

Water

☐

Other:

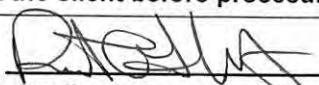
(Describe)

Temp (°C)

4.3

Thermometer ID: G86A9201901378

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ICE
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
If custody seals are present, are they intact ⁽¹⁾ ?	-			
Are samples with holding times due within 48 hours sample due within 48 hours present?	-			Same day
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	-			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	-			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			-	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	
Additional Comments (if any):				
<p>⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.</p>				


 Custodian Printed Name or Initials
3-10-22
Date/Time



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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

SS12@10'
2203181-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFC0230	03/11/22	03/12/22	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: **03/11/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/11/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0231	03/11/22	03/11/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/11/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.1 %	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

SS12@10'
2203181-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	BFC0507	03/23/22	03/26/22	EPA 8270D SIM	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/11/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		70.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		68.2 %	40-150		"	"	"	"	

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

Date Sampled: **03/11/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.0	0.0616	mg/L dry	1	BFC0522	03/23/22	03/24/22	EPA 6020B	
Magnesium	4.06	0.0616	"	"	"	"	"	"	
Sodium	2.91	0.0616	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/11/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.105	0.00100	units	1	BFC0579	03/24/22	03/24/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/11/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

SS12@10'
2203181-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.2	%	1	BFC0560	03/24/22	03/24/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/11/22 09:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.04	0.0100	mmhos/cm	1	BFC0534	03/23/22	03/23/22	EPA 120.1	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

SS13@5'
2203181-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/22 09:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0230	03/11/22	03/12/22	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: **03/11/22 09:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		96.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/11/22 09:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0231	03/11/22	03/11/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/11/22 09:25**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		92.0 %	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

SS13@5'
2203181-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	BFC0507	03/23/22	03/26/22	EPA 8270D SIM	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/11/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		61.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		59.7 %	40-150		"	"	"	"	

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

Date Sampled: **03/11/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	47.1	0.0620	mg/L dry	1	BFC0522	03/23/22	03/24/22	EPA 6020B	
Magnesium	3.29	0.0620	"	"	"	"	"	"	
Sodium	1.35	0.0620	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/11/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0513	0.00100	units	1	BFC0579	03/24/22	03/24/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/11/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

SS13@5'
2203181-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.6	%	1	BFC0560	03/24/22	03/24/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/11/22 09:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.274	0.0100	mmhos/cm	1	BFC0534	03/23/22	03/23/22	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

SS15@10'
2203181-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/22 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0230	03/11/22	03/12/22	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: **03/11/22 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		96.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/11/22 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0231	03/11/22	03/11/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/11/22 09:50**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		87.8 %	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

SS15@10'
2203181-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	BFC0507	03/23/22	03/25/22	EPA 8270D SIM	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/11/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		48.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		52.9 %	40-150		"	"	"	"	

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

Date Sampled: **03/11/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.7	0.0646	mg/L dry	1	BFC0522	03/23/22	03/24/22	EPA 6020B	
Magnesium	2.12	0.0646	"	"	"	"	"	"	
Sodium	1.65	0.0646	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/11/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0964	0.00100	units	1	BFC0579	03/24/22	03/24/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/11/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

SS15@10'
2203181-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	77.5	%	1	BFC0560	03/24/22	03/24/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/11/22 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.35	0.0100	mmhos/cm	1	BFC0534	03/23/22	03/23/22	EPA 120.1	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

SS16@5'
2203181-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **03/11/22 09:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFC0230	03/11/22	03/12/22	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: **03/11/22 09:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **03/11/22 09:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFC0231	03/11/22	03/11/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **03/11/22 09:55**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		87.7 %	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

SS16@5'
2203181-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **03/11/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	BFC0507	03/23/22	03/25/22	EPA 8270D SIM	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **03/11/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		45.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		45.0 %	40-150		"	"	"	"	

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

Date Sampled: **03/11/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	44.5	0.0626	mg/L dry	1	BFC0522	03/23/22	03/24/22	EPA 6020B	
Magnesium	3.82	0.0626	"	"	"	"	"	"	
Sodium	1.30	0.0626	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **03/11/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0502	0.00100	units	1	BFC0579	03/24/22	03/24/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/11/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

SS16@5'
2203181-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.9	%	1	BFC0560	03/24/22	03/24/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/11/22 09:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.358	0.0100	mmhos/cm	1	BFC0534	03/23/22	03/23/22	EPA 120.1	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFC0230 - EPA 5030 Soil MS

Blank (BFC0230-BLK1)

Prepared: 03/11/22 Analyzed: 03/12/22

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	0.0392		"	0.0400		98.1	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

LCS (BFC0230-BS1)

Prepared: 03/11/22 Analyzed: 03/12/22

Benzene	0.0589	0.0020	mg/kg	0.0750		78.5	70-130			
Toluene	0.0622	0.0050	"	0.0750		83.0	70-130			
Ethylbenzene	0.0606	0.0050	"	0.0750		80.8	70-130			
m,p-Xylene	0.129	0.010	"	0.150		86.1	70-130			
o-Xylene	0.0627	0.0050	"	0.0750		83.6	70-130			
1,2,4-Trimethylbenzene	0.0670	0.0050	"	0.0750		89.3	70-130			
1,3,5-Trimethylbenzene	0.0656	0.0050	"	0.0750		87.4	70-130			
Naphthalene	0.0553	0.0038	"	0.0750		73.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0414		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		97.9	50-150			

Matrix Spike (BFC0230-MS1)

Source: 2203181-01

Prepared: 03/11/22 Analyzed: 03/12/22

Benzene	0.0584	0.0020	mg/kg	0.0750	ND	77.8	70-130			
Toluene	0.0641	0.0050	"	0.0750	ND	85.4	70-130			
Ethylbenzene	0.0658	0.0050	"	0.0750	ND	87.8	70-130			
m,p-Xylene	0.140	0.010	"	0.150	ND	93.2	70-130			
o-Xylene	0.0669	0.0050	"	0.0750	ND	89.2	70-130			
1,2,4-Trimethylbenzene	0.0730	0.0050	"	0.0750	ND	97.3	70-130			
1,3,5-Trimethylbenzene	0.0711	0.0050	"	0.0750	ND	94.8	70-130			
Naphthalene	0.0692	0.0038	"	0.0750	ND	92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0415		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.6	50-150			

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BFC0230 - EPA 5030 Soil MS

Matrix Spike Dup (BFC0230-MSD1)	Source: 2203181-01			Prepared: 03/11/22 Analyzed: 03/12/22						
Benzene	0.0602	0.0020	mg/kg	0.0750	ND	80.3	70-130	3.14	30	
Toluene	0.0658	0.0050	"	0.0750	ND	87.8	70-130	2.68	30	
Ethylbenzene	0.0674	0.0050	"	0.0750	ND	89.9	70-130	2.39	30	
m,p-Xylene	0.141	0.010	"	0.150	ND	94.3	70-130	1.24	30	
o-Xylene	0.0688	0.0050	"	0.0750	ND	91.8	70-130	2.92	30	
1,2,4-Trimethylbenzene	0.0752	0.0050	"	0.0750	ND	100	70-130	3.00	30	
1,3,5-Trimethylbenzene	0.0728	0.0050	"	0.0750	ND	97.0	70-130	2.34	30	
Naphthalene	0.0695	0.0038	"	0.0750	ND	92.7	70-130	0.562	30	
Surrogate: 1,2-Dichloroethane-d4	0.0402		"	0.0400		100	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.6	50-150			

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFC0231 - EPA 3550A

Blank (BFC0231-BLK1)

Prepared: 03/11/22 Analyzed: 03/12/22

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

LCS (BFC0231-BS1)

Prepared: 03/11/22 Analyzed: 03/12/22

C10-C28 (DRO)	547	50	mg/kg	500	109	70-130					
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Matrix Spike (BFC0231-MS1)

Source: 2203181-01

Prepared: 03/11/22 Analyzed: 03/12/22

C10-C28 (DRO)	434	50	mg/kg	500	23.5	82.1	70-130				
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Matrix Spike Dup (BFC0231-MSD1)

Source: 2203181-01

Prepared: 03/11/22 Analyzed: 03/12/22

C10-C28 (DRO)	428	50	mg/kg	500	23.5	80.9	70-130	1.39	20		
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Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0507 - EPA 5030 Soil MS

Blank (BFC0507-BLK1)

Prepared: 03/23/22 Analyzed: 03/25/22

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0216		"	0.0333		64.8	40-150			
Surrogate: Fluoranthene-d10	0.0242		"	0.0333		72.7	40-150			

LCS (BFC0507-BS1)

Prepared: 03/23/22 Analyzed: 03/25/22

Acenaphthene	0.0190	0.00500	mg/kg	0.0333		57.1	31-137			
Anthracene	0.0203	0.00500	"	0.0333		61.0	30-120			
Benzo (a) anthracene	0.0201	0.00500	"	0.0333		60.3	30-120			
Benzo (a) pyrene	0.0246	0.00500	"	0.0333		73.9	30-120			
Benzo (b) fluoranthene	0.0214	0.00500	"	0.0333		64.3	30-120			
Benzo (k) fluoranthene	0.0260	0.00500	"	0.0333		78.0	30-120			
Chrysene	0.0239	0.00500	"	0.0333		71.6	30-120			
Dibenz (a,h) anthracene	0.0263	0.00500	"	0.0333		79.0	30-120			
Fluoranthene	0.0223	0.00500	"	0.0333		66.9	30-120			
Fluorene	0.0214	0.00500	"	0.0333		64.1	30-120			
Indeno (1,2,3-cd) pyrene	0.0391	0.00500	"	0.0333		117	30-120			
Pyrene	0.0250	0.00500	"	0.0333		74.9	35-142			
1-Methylnaphthalene	0.0185	0.00500	"	0.0333		55.5	35-142			
2-Methylnaphthalene	0.0160	0.00500	"	0.0333		48.0	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0174		"	0.0333		52.3	40-150			
Surrogate: Fluoranthene-d10	0.0213		"	0.0333		63.8	40-150			

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFC0507 - EPA 5030 Soil MS

Matrix Spike (BFC0507-MS1)

Source: 2203177-11

Prepared: 03/23/22 Analyzed: 03/26/22

Acenaphthene	0.0296	0.00500	mg/kg	0.0333	ND	88.9	31-137		
Anthracene	0.0294	0.00500	"	0.0333	ND	88.1	30-120		
Benzo (a) anthracene	0.0316	0.00500	"	0.0333	ND	94.8	30-120		
Benzo (a) pyrene	0.0296	0.00500	"	0.0333	ND	88.7	30-120		
Benzo (b) fluoranthene	0.0315	0.00500	"	0.0333	ND	94.5	30-120		
Benzo (k) fluoranthene	0.0288	0.00500	"	0.0333	ND	86.4	30-120		
Chrysene	0.0310	0.00500	"	0.0333	ND	93.0	30-120		
Dibenz (a,h) anthracene	0.0210	0.00500	"	0.0333	ND	63.1	30-120		
Fluoranthene	0.0289	0.00500	"	0.0333	ND	86.7	30-120		
Fluorene	0.0290	0.00500	"	0.0333	ND	87.1	30-120		
Indeno (1,2,3-cd) pyrene	0.0218	0.00500	"	0.0333	ND	65.4	30-120		
Pyrene	0.0314	0.00500	"	0.0333	ND	94.1	35-142		
1-Methylnaphthalene	0.0268	0.00500	"	0.0333	ND	80.4	15-130		
2-Methylnaphthalene	0.0265	0.00500	"	0.0333	ND	79.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0238		"	0.0333		71.5	40-150		
Surrogate: Fluoranthene-d10	0.0285		"	0.0333		85.6	40-150		

Matrix Spike Dup (BFC0507-MSD1)

Source: 2203177-11

Prepared: 03/23/22 Analyzed: 03/26/22

Acenaphthene	0.0259	0.00500	mg/kg	0.0333	ND	77.8	31-137	13.3	30
Anthracene	0.0293	0.00500	"	0.0333	ND	87.8	30-120	0.297	30
Benzo (a) anthracene	0.0290	0.00500	"	0.0333	ND	86.9	30-120	8.79	30
Benzo (a) pyrene	0.0276	0.00500	"	0.0333	ND	82.8	30-120	6.87	30
Benzo (b) fluoranthene	0.0295	0.00500	"	0.0333	ND	88.4	30-120	6.70	30
Benzo (k) fluoranthene	0.0276	0.00500	"	0.0333	ND	82.9	30-120	4.19	30
Chrysene	0.0292	0.00500	"	0.0333	ND	87.7	30-120	5.81	30
Dibenz (a,h) anthracene	0.0200	0.00500	"	0.0333	ND	60.1	30-120	4.85	30
Fluoranthene	0.0286	0.00500	"	0.0333	ND	85.7	30-120	1.21	30
Fluorene	0.0253	0.00500	"	0.0333	ND	75.8	30-120	13.9	30
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333	ND	62.1	30-120	5.19	30
Pyrene	0.0287	0.00500	"	0.0333	ND	86.1	35-142	8.84	30
1-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	69.9	15-130	14.0	50
2-Methylnaphthalene	0.0219	0.00500	"	0.0333	ND	65.8	15-130	18.7	50
Surrogate: 2-Methylnaphthalene-d10	0.0239		"	0.0333		71.8	40-150		
Surrogate: Fluoranthene-d10	0.0281		"	0.0333		84.2	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

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

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

Batch BFC0522 - General Preparation

Blank (BFC0522-BLK1)

Prepared: 03/23/22 Analyzed: 03/24/22

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

LCS (BFC0522-BS1)

Prepared: 03/23/22 Analyzed: 03/24/22

Calcium	5.60	0.0500	mg/L wet	5.00	112	70-130
Magnesium	6.03	0.0500	"	5.00	121	70-130
Sodium	6.03	0.0500	"	5.00	121	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: Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

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

Summit Scientific

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

Batch BFC0560 - General Preparation

Duplicate (BFC0560-DUP1)

Source: 2203177-11

Prepared & Analyzed: 03/24/22

% Solids	74.4	%	76.3	2.55	20
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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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

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

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

Batch BFC0534 - General Preparation

Blank (BFC0534-BLK1)

Prepared & Analyzed: 03/23/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFC0534-BS1)

Prepared & Analyzed: 03/23/22

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BFC0534-DUP2)

Source: 2202085-01

Prepared & Analyzed: 03/23/22

Specific Conductance (EC) 0.268 0.0100 mmhos/cm 0.269 0.522 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: Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
03/31/22 09:45

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

August 31, 2023

Mark Longhurst

PDC Energy

1775 Sherman St. STE. 3000

Denver, CO 80203

RE: Peak 1 Tank Battery

Work Order #2211294

Enclosed are the results of analyses for samples received by Summit Scientific on 11/16/22 17:08. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



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

Project: Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@5'	2211294-01	Soil	11/16/22 10:22	11/16/22 17:08
SB02@1'	2211294-02	Soil	11/16/22 10:33	11/16/22 17:08
SB02@2.5'	2211294-03	Soil	11/16/22 10:38	11/16/22 17:08
SB02@4'	2211294-04	Soil	11/16/22 10:43	11/16/22 17:08
SB03@1'	2211294-05	Soil	11/16/22 10:18	11/16/22 17:08
SB04@1'	2211294-08	Soil	11/16/22 10:32	11/16/22 17:08
SB05@1'	2211294-11	Soil	11/16/22 10:53	11/16/22 17:08
BKG02@1'	2211294-14	Soil	11/16/22 11:14	11/16/22 17:08
BKG02@2.5'	2211294-15	Soil	11/16/22 11:19	11/16/22 17:08
BKG02@4'	2211294-16	Soil	11/16/22 11:22	11/16/22 17:08
BKG02@5'	2211294-17	Soil	11/16/22 11:26	11/16/22 17:08
BKG02@10'	2211294-18	Soil	11/16/22 11:36	11/16/22 17:08
BKG03@1'	2211294-19	Soil	11/16/22 11:04	11/16/22 17:08
BKG03@2.5'	2211294-20	Soil	11/16/22 11:09	11/16/22 17:08
BKG03@4'	2211294-21	Soil	11/16/22 11:11	11/16/22 17:08
BKG03@5'	2211294-22	Soil	11/16/22 11:14	11/16/22 17:08
BKG03@10'	2211294-23	Soil	11/16/22 11:22	11/16/22 17:08
BKG04@1'	2211294-24	Soil	11/16/22 11:38	11/16/22 17:08
BKG04@2.5'	2211294-25	Soil	11/16/22 11:41	11/16/22 17:08
BKG04@4'	2211294-26	Soil	11/16/22 11:44	11/16/22 17:08
BKG04@5'	2211294-27	Soil	11/16/22 11:48	11/16/22 17:08
BKG04@10'	2211294-28	Soil	11/16/22 11:54	11/16/22 17:08
BKG05@1'	2211294-29	Soil	11/16/22 11:55	11/16/22 17:08
BKG05@2.5'	2211294-30	Soil	11/16/22 12:01	11/16/22 17:08
BKG05@4'	2211294-31	Soil	11/16/22 12:08	11/16/22 17:08
BKG05@5'	2211294-32	Soil	11/16/22 12:12	11/16/22 17:08
BKG05@10'	2211294-33	Soil	11/16/22 12:29	11/16/22 17:08

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB03@0.5'	2211294-34	Soil	11/16/22 10:17	11/16/22 17:08
SB04@0.5'	2211294-35	Soil	11/16/22 10:31	11/16/22 17:08
SB05@0.5'	2211294-36	Soil	11/16/22 10:51	11/16/22 17:08

Case Narrative

Robert Aronoff requested Selenium be added to samples SB02 @ 1', SB02 @ 2.5' SB02 @ 4',
SB03 @ 1', SB04 @ 1', and SB05 @ 1' on 8/29/23.

This report includes those results.

Summit Scientific

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

Summit Scientific

S₂

22112ay.1

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

Client: PDC PS CIVITAS / Tasman Project Manager: Mark Longhurst ~~Sam Vogt / Jacob Evans~~ Page 1 of 4
Address: 6855 W 119th Ave E-Mail: svogt@tasman-geo.com / jevans@tasman-geo.com
City/State/Zip: Broomfield/ CO/ 80020
Phone: 303-487-1228 Project Name: Peak 1 Tank Battery
Sampler Name: Mike Connolly Project Number: NA

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5-TMB	Boron - HWS	EC, SAR	PAHs	Cadmium	On Hold	
1	SB01 @ 5'	11/16/22	1022	3			X			X			X	X	X		X	X			
2	SB02 @ 1'		1033	1														X			
3	SB02 @ 2.5'		1038	1														X			
4	SB02 @ 4'		1043	1														X			
5	SB03 @ 1'		1018	1															X		
6	SB03 @ 2.5'		1025	1															X		
7	SB03 @ 4'		1030	1															X		
8	SB04 @ 1'		1032	1															X		
9	SB04 @ 2.5'		1035	1															X		
10	SB04 @ 4'		1040	1															X		

Relinquished by: <u>M. Connolly</u>	Date/Time: <u>11/16/22</u> <u>1415</u>	Received by: <u>Tasman's Lock Box</u>	Date/Time: <u>11/16/22</u> <u>1415</u>	Turn Around Time (Check) Same Day <u> </u> 72 hours <u> </u> 24 hours <u> </u> Standard <u>X</u> 48 hours <u> </u> Sample Integrity: Temperature Upon Receipt: <u>8.0</u> Samples Intact: <u>Yes</u> No	Notes: ★ - Just anthracene, chrysene, fluorene, 1-M, 3-M
Relinquished by: <u>Tasman's Lock Box</u>	Date/Time: <u>11/16/22</u> <u>1718</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/16/22</u> <u>1708</u>		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Summit Scientific

S₂

2211294.2

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310

Page 2 of 4

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: Peak 1 Tank Battery

Sampler Name: M. Connolly

Project Number: NA


					Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5-TMB	Boron - HWS	pH, EC, SAR	Metals	On Hold		pH, EC, SAR by saturated paste	
1	SB05 @ 1'	11/16/22	1053	1			X			X										X		
2	SB05 @ 2.5'		1058	1																X		
3	SB05 @ 4'		1103	1																X		
4	BKGO2 @ 1'		1114	1														X				
5	BKGO2 @ 2.5'		1119	1														X				
6	BKGO2 @ 4'		1122	1														X				
7	BKGO2 @ 5'		1126	1														X				
8	BKGO2 @ 10'		1136	1														X				
9	BKGO3 @ 1'		1104	1														X				
10	BKGO3 @ 2.5'		1109	1														X				

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes:
M. Connolly	11/16/22 1415	Tasman's Lock Box	11/16/22 1415	Same Day	72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours	Standard	
Tasman's Lock Box	11/16/22 1708		11/16/22 1708	48 hours		
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:		
				Temperature Upon Receipt: 8.0		
				Samples Intact: Yes No		

2211294.3

Page 3 of 4

Project Name: Peak 1 Tank Battery
Project Number: NA

					Preservative				Matrix				Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	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	Metals				pH, EC, SAR by saturated paste
1	BKG03 @ 4'	11/16/22	1111	1			X			X									X			
2	BKG03 @ 5'		1114	1															X			
3	BKG03 @ 10'		1122	1															X			
4	BKG04 @ 1'		1130	1															X			
5	BKG04 @ 2.5'		1141	1															X			
6	BKG04 @ 4'		1144	1															X			
7	BKG04 @ 5'		1148	1															X			
8	BKG04 @ 10'		1154	1															X			
9	BKG05 @ 1'		1155	1															X			
10	BKG05 @ 2.5'		1201	1															X			
Relinquished by:		Date/Time:		Received by:		Date/Time:		Turn Around Time		(Check)		Notes:										
M. Conroy		11/16/22		Tasman's Lock Box		11/16/22		Same Day		72 hours												
		1415				1415		24 hours		Standard												
								48 hours														
Relinquished by:		Date/Time:		Received by:		Date/Time:		Sample Integrity:														
Tasman's Lock Box		11/16/22				11/16/22																
		1708				1708																
Relinquished by:		Date/Time:		Received by:		Date/Time:		Temperature Upon Receipt:														
								8.0														
								Samples Intact: Yes		No												

Summit Scientific

S₂

2211294.4

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

Page 4 of 4

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:	Peak 1 Tank Battery
Sampler Name:	M. Connolly	Project Number:	NA

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEXN - 8260B	TPH - (C6 - C36)	1,2,4 & 1,3,5-TMB	Boron - HWS	pH, EC, SAR	Metals	Cadmium		
1	BKGOS @ 4'	11/16/22	1208	1			X			X								X			pH, EC, SAR by saturated paste
2	BKGOS @ 5'		1212	1			X			X							X				
3	BKGOS @ 10'		1229	1			X			X							X				
4	SBOS @ 0.5'		1017	1			X			X									X		
5	SBOS @ 0.5'		1031	1			X			X									X		
6	SBOS @ 0.5'		1051	1			X			X									X		
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check) Same Day _____ 72 hours _____ 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ Sample Integrity: Temperature Upon Receipt: <u>8.0</u> Samples Intact: (Yes) No	Notes:
<i>M. Connolly</i>	11/16/22 1415	Tasman's Lock Box	11/16/22 1415		
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Tasman's Lock Box	11/16/22 1708	<i>[Signature]</i>	11/16/22 1708		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

4/4

Sample Receipt Checklist

S2 Work Order#

2211294

Client: PBC/TasmanClient Project ID: Peak 1 Tank Battery

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

Airbill #:

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

80

Thermometer #

1

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

Custodian Printed Name

Date/Time

11-16-22 1707



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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

SB01@5'
2211294-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/16/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0484	11/18/22	11/20/22	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: **11/16/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0286	71.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/16/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0485	11/18/22	11/19/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/16/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.0	104 %	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

SB01@5'
2211294-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/16/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	BFK0541	11/21/22	11/22/22	EPA 8270D SIM	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/16/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0159	47.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0144	43.3 %	40-150		"	"	"	"	

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

Date Sampled: **11/16/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	64.4	0.0553	mg/L dry	1	BFK0501	11/18/22	11/22/22	EPA 6020B	
Magnesium	18.2	0.0553	"	"	"	"	"	"	
Sodium	77.8	0.0553	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/16/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.20	0.00100	units	1	BFK0573	11/22/22	11/22/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

SB01@5'
2211294-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	90.3	%	1	BFK0516	11/18/22	11/21/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/16/22 10:22**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.778	0.0100	mmhos/cm	1	BFK0534	11/19/22	11/19/22	EPA 120.1	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

SB02@1'
2211294-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 10:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Cadmium	ND	0.200		mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Selenium	0.263	0.260		"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 10:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	87.2			%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

SB02@2.5'
2211294-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 10:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Cadmium	0.260	0.200		mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Selenium	ND	0.260		"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 10:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	80.9			%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

SB02@4'
2211294-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Cadmium	0.241	0.200		mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Selenium	ND	0.260		"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 10:43**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	80.7			%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

SB03@1'
2211294-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 10:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Cadmium	0.224	0.200		mg/kg dry	1	BFL0038	12/01/22	12/03/22	EPA 6020B	
Selenium	0.611	0.260		"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 10:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	83.9			%	1	BFL0092	12/04/22	12/04/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

SB04@1'
2211294-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 10:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Cadmium	ND	0.200		mg/kg dry	1	BFL0038	12/01/22	12/03/22	EPA 6020B	
Selenium	0.560	0.260		"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 10:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	84.9			%	1	BFL0092	12/04/22	12/04/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

SB05@1'
2211294-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 10:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Cadmium	0.230	0.200		mg/kg dry	1	BFL0038	12/01/22	12/03/22	EPA 6020B	
Selenium	0.737	0.260		"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 10:53**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	84.6			%	1	BFL0092	12/04/22	12/04/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG02@1'
2211294-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.91	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	99.5	0.400	"	"	"	"	"	"	
Cadmium	0.249	0.200	"	"	"	"	"	"	
Copper	6.63	0.400	"	"	"	"	"	"	
Lead	7.34	0.200	"	"	"	"	"	"	
Nickel	4.89	0.400	"	"	"	"	"	"	
Silver	0.0379	0.0200	"	"	"	"	"	"	
Zinc	24.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.6		%	1	BFK0498	11/18/22	11/19/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG02@2.5'
2211294-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.43	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	94.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.24	0.400	"	"	"	"	"	"	
Lead	4.82	0.200	"	"	"	"	"	"	
Nickel	3.53	0.400	"	"	"	"	"	"	
Silver	0.0244	0.0200	"	"	"	"	"	"	
Zinc	15.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:19**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	88.7		%	1	BFK0498	11/18/22	11/19/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG02@4'
2211294-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.50	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	156	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.32	0.400	"	"	"	"	"	"	
Lead	5.10	0.200	"	"	"	"	"	"	
Nickel	3.44	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.2		%	1	BFK0498	11/18/22	11/19/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG02@5'
2211294-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.98	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	147	0.400	"	"	"	"	"	"	
Cadmium	0.234	0.200	"	"	"	"	"	"	
Copper	3.73	0.400	"	"	"	"	"	"	
Lead	5.78	0.200	"	"	"	"	"	"	
Nickel	3.96	0.400	"	"	"	"	"	"	
Silver	0.0219	0.0200	"	"	"	"	"	"	
Zinc	16.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:26**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	84.1		%	1	BFK0498	11/18/22	11/19/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG02@10'
2211294-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.46	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	104	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.77	0.400	"	"	"	"	"	"	
Lead	5.65	0.200	"	"	"	"	"	"	
Nickel	3.86	0.400	"	"	"	"	"	"	
Silver	0.0202	0.0200	"	"	"	"	"	"	
Zinc	15.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:36**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.3		%	1	BFK0498	11/18/22	11/19/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG03@1'
2211294-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:04**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.40	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	116	0.400	"	"	"	"	"	"	
Cadmium	0.228	0.200	"	"	"	"	"	"	
Copper	5.28	0.400	"	"	"	"	"	"	
Lead	6.70	0.200	"	"	"	"	"	"	
Nickel	4.93	0.400	"	"	"	"	"	"	
Silver	0.0319	0.0200	"	"	"	"	"	"	
Zinc	18.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:04**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:04**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	86.5		%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG03@2.5'
2211294-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:09**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.90	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	119	0.400	"	"	"	"	"	"	
Cadmium	0.221	0.200	"	"	"	"	"	"	
Copper	4.57	0.400	"	"	"	"	"	"	
Lead	5.91	0.200	"	"	"	"	"	"	
Nickel	4.11	0.400	"	"	"	"	"	"	
Silver	0.0254	0.0200	"	"	"	"	"	"	
Zinc	17.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:09**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:09**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.6		%	1	BFK0498	11/18/22	11/19/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG03@4'
2211294-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:11**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.58	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	142	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.54	0.400	"	"	"	"	"	"	
Lead	5.47	0.200	"	"	"	"	"	"	
Nickel	3.62	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	15.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:11**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:11**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	90.8		%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG03@5'
2211294-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.05	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	390	0.400	"	"	"	"	"	"	
Cadmium	0.278	0.200	"	"	"	"	"	"	
Copper	4.30	0.400	"	"	"	"	"	"	
Lead	7.12	0.200	"	"	"	"	"	"	
Nickel	4.66	0.400	"	"	"	"	"	"	
Silver	0.0254	0.0200	"	"	"	"	"	"	
Zinc	18.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:14**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	81.8		%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG03@10'
2211294-23 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.72	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	110	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.59	0.400	"	"	"	"	"	"	
Lead	5.06	0.200	"	"	"	"	"	"	
Nickel	3.89	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:22**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	88.5		%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG04@1'
2211294-24 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.21	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	148	0.400	"	"	"	"	"	"	
Cadmium	0.304	0.200	"	"	"	"	"	"	
Copper	6.14	0.400	"	"	"	"	"	"	
Lead	7.20	0.200	"	"	"	"	"	"	
Nickel	5.41	0.400	"	"	"	"	"	"	
Silver	0.0374	0.0200	"	"	"	"	"	"	
Zinc	22.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:38**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	81.3		%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG04@2.5'
2211294-25 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:41**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.58	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	190	0.400	"	"	"	"	"	"	
Cadmium	0.298	0.200	"	"	"	"	"	"	
Copper	5.00	0.400	"	"	"	"	"	"	
Lead	7.37	0.200	"	"	"	"	"	"	
Nickel	4.72	0.400	"	"	"	"	"	"	
Silver	0.0296	0.0200	"	"	"	"	"	"	
Zinc	22.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:41**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:41**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	77.1		%	1	BFK0498	11/18/22	11/19/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG04@4'
2211294-26 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.50	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	244	0.400	"	"	"	"	"	"	
Cadmium	0.269	0.200	"	"	"	"	"	"	
Copper	3.71	0.400	"	"	"	"	"	"	
Lead	7.01	0.200	"	"	"	"	"	"	
Nickel	4.02	0.400	"	"	"	"	"	"	
Silver	0.0249	0.0200	"	"	"	"	"	"	
Zinc	17.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:44**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	77.0		%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG04@5'
2211294-27 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.27	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	328	0.400	"	"	"	"	"	"	
Cadmium	0.491	0.200	"	"	"	"	"	"	
Copper	14.3	0.400	"	"	"	"	"	"	
Lead	10.6	0.200	"	"	"	"	"	"	
Nickel	7.01	0.400	"	"	"	"	"	"	
Silver	0.0439	0.0200	"	"	"	"	"	"	
Zinc	42.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:48**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	73.7		%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG04@10'
2211294-28 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:54**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.03	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	119	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.36	0.400	"	"	"	"	"	"	
Lead	6.10	0.200	"	"	"	"	"	"	
Nickel	4.62	0.400	"	"	"	"	"	"	
Silver	0.0238	0.0200	"	"	"	"	"	"	
Zinc	16.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:54**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:54**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	82.5		%	1	BFK0498	11/18/22	11/19/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG05@1'
2211294-29 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.17	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	119	0.400	"	"	"	"	"	"	
Cadmium	0.248	0.200	"	"	"	"	"	"	
Copper	5.95	0.400	"	"	"	"	"	"	
Lead	7.97	0.200	"	"	"	"	"	"	
Nickel	5.03	0.400	"	"	"	"	"	"	
Silver	0.0421	0.0200	"	"	"	"	"	"	
Zinc	21.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.4		%	1	BFK0498	11/18/22	11/19/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG05@2.5'
2211294-30 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 12:01**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.02	0.200	mg/kg dry	1	BFK0488	11/18/22	11/19/22	EPA 6020B	
Barium	168	0.400	"	"	"	"	"	"	
Cadmium	0.312	0.200	"	"	"	"	"	"	
Copper	4.17	0.400	"	"	"	"	"	"	
Lead	6.00	0.200	"	"	"	"	"	"	
Nickel	4.21	0.400	"	"	"	"	"	"	
Silver	0.0269	0.0200	"	"	"	"	"	"	
Zinc	18.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 12:01**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 12:01**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	87.7		%	1	BFK0498	11/18/22	11/19/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG05@4'
2211294-31 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 12:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.07	0.200	mg/kg dry	1	BFK0460	11/17/22	11/18/22	EPA 6020B	
Barium	173	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.49	0.400	"	"	"	"	"	"	
Lead	6.04	0.200	"	"	"	"	"	"	
Nickel	4.79	0.400	"	"	"	"	"	"	
Silver	0.0291	0.0200	"	"	"	"	"	"	
Zinc	20.1	0.400	"	"	"	"	"	"	
Selenium	0.625	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 12:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 12:08**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	89.4		%	1	BFK0498	11/18/22	11/19/22	Calculation	

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG05@5'
2211294-32 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 12:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.77	0.200	mg/kg dry	1	BFK0460	11/17/22	11/18/22	EPA 6020B	
Barium	247	0.400	"	"	"	"	"	"	
Cadmium	0.242	0.200	"	"	"	"	"	"	
Copper	7.06	0.400	"	"	"	"	"	"	
Lead	7.57	0.200	"	"	"	"	"	"	
Nickel	6.52	0.400	"	"	"	"	"	"	
Silver	0.0343	0.0200	"	"	"	"	"	"	
Zinc	27.6	0.400	"	"	"	"	"	"	
Selenium	0.652	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 12:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 12:12**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	82.3		%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

BKG05@10'
2211294-33 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 12:29**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.97	0.200	mg/kg dry	1	BFK0460	11/17/22	11/18/22	EPA 6020B	
Barium	136	0.400	"	"	"	"	"	"	
Cadmium	0.239	0.200	"	"	"	"	"	"	
Copper	7.02	0.400	"	"	"	"	"	"	
Lead	7.22	0.200	"	"	"	"	"	"	
Nickel	7.00	0.400	"	"	"	"	"	"	
Silver	0.0326	0.0200	"	"	"	"	"	"	
Zinc	25.7	0.400	"	"	"	"	"	"	
Selenium	0.658	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **11/16/22 12:29**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFK0513	11/18/22	11/19/22	EPA 7196A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 12:29**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	81.9		%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

SB03@0.5'
2211294-34 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 10:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Cadmium	ND	0.200		mg/kg dry	1	BFK0460	11/17/22	11/18/22	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 10:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	96.1			%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

SB04@0.5'
2211294-35 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 10:31**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Cadmium	ND	0.200		mg/kg dry	1	BFK0460	11/17/22	11/18/22	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 10:31**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	95.1			%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

SB05@0.5'
2211294-36 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **11/16/22 10:51**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Cadmium	ND	0.200		mg/kg dry	1	BFK0460	11/17/22	11/18/22	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/16/22 10:51**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	95.4			%	1	BFK0498	11/18/22	11/19/22	Calculation	

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFK0484 - EPA 5030 Soil MS

Blank (BFK0484-BLK1)

Prepared: 11/18/22 Analyzed: 11/20/22

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	0.0266		"	0.0400		66.5	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		96.9	50-150			

LCS (BFK0484-BS1)

Prepared: 11/18/22 Analyzed: 11/20/22

Benzene	0.0714	0.0020	mg/kg	0.0750		95.2	70-130			
Toluene	0.0685	0.0050	"	0.0750		91.4	70-130			
Ethylbenzene	0.0732	0.0050	"	0.0750		97.6	70-130			
m,p-Xylene	0.152	0.010	"	0.150		102	70-130			
o-Xylene	0.0770	0.0050	"	0.0750		103	70-130			
1,2,4-Trimethylbenzene	0.0853	0.0050	"	0.0750		114	70-130			
1,3,5-Trimethylbenzene	0.0820	0.0050	"	0.0750		109	70-130			
Naphthalene	0.0933	0.0038	"	0.0750		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0305		"	0.0400		76.2	50-150			
Surrogate: Toluene-d8	0.0422		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	50-150			

Matrix Spike (BFK0484-MS1)

Source: 2211294-01

Prepared: 11/18/22 Analyzed: 11/20/22

Benzene	0.0694	0.0020	mg/kg	0.0750	ND	92.6	70-130			
Toluene	0.0687	0.0050	"	0.0750	ND	91.6	70-130			
Ethylbenzene	0.0698	0.0050	"	0.0750	ND	93.0	70-130			
m,p-Xylene	0.145	0.010	"	0.150	ND	96.8	70-130			
o-Xylene	0.0758	0.0050	"	0.0750	ND	101	70-130			
1,2,4-Trimethylbenzene	0.0839	0.0050	"	0.0750	ND	112	70-130			
1,3,5-Trimethylbenzene	0.0796	0.0050	"	0.0750	ND	106	70-130			
Naphthalene	0.0785	0.0038	"	0.0750	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0314		"	0.0400		78.5	50-150			
Surrogate: Toluene-d8	0.0430		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BFK0484 - EPA 5030 Soil MS

Matrix Spike Dup (BFK0484-MSD1)	Source: 2211294-01			Prepared: 11/18/22 Analyzed: 11/20/22						
Benzene	0.0652	0.0020	mg/kg	0.0750	ND	87.0	70-130	6.28	30	
Toluene	0.0640	0.0050	"	0.0750	ND	85.4	70-130	6.96	30	
Ethylbenzene	0.0683	0.0050	"	0.0750	ND	91.0	70-130	2.13	30	
m,p-Xylene	0.141	0.010	"	0.150	ND	94.1	70-130	2.85	30	
o-Xylene	0.0739	0.0050	"	0.0750	ND	98.6	70-130	2.52	30	
1,2,4-Trimethylbenzene	0.0808	0.0050	"	0.0750	ND	108	70-130	3.83	30	
1,3,5-Trimethylbenzene	0.0774	0.0050	"	0.0750	ND	103	70-130	2.71	30	
Naphthalene	0.0745	0.0038	"	0.0750	ND	99.3	70-130	5.29	30	
Surrogate: 1,2-Dichloroethane-d4	0.0296		"	0.0400		73.9	50-150			
Surrogate: Toluene-d8	0.0426		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.5	50-150			

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFK0485 - EPA 3550A

Blank (BFK0485-BLK1)

Prepared: 11/18/22 Analyzed: 11/19/22

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.0		"	12.5	104	30-150				

LCS (BFK0485-BS1)

Prepared: 11/18/22 Analyzed: 11/19/22

C10-C28 (DRO)	506	50	mg/kg	500	101	70-130				
Surrogate: o-Terphenyl	12.8		"	12.5	102	30-150				

Matrix Spike (BFK0485-MS1)

Source: 2211294-01

Prepared: 11/18/22 Analyzed: 11/19/22

C10-C28 (DRO)	494	50	mg/kg	500	28.2	93.1	70-130			
Surrogate: o-Terphenyl	12.4		"	12.5	99.4	30-150				

Matrix Spike Dup (BFK0485-MSD1)

Source: 2211294-01

Prepared: 11/18/22 Analyzed: 11/19/22

C10-C28 (DRO)	456	50	mg/kg	500	28.2	85.6	70-130	7.91	20	
Surrogate: o-Terphenyl	12.9		"	12.5	103	30-150				

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFK0541 - EPA 5030 Soil MS

Blank (BFK0541-BLK1)

Prepared & Analyzed: 11/21/22

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0187		"	0.0333		56.1	40-150			
Surrogate: Fluoranthene-d10	0.0232		"	0.0333		69.6	40-150			

LCS (BFK0541-BS1)

Prepared & Analyzed: 11/21/22

Acenaphthene	0.0327	0.00500	mg/kg	0.0333		98.0	31-137			
Anthracene	0.0329	0.00500	"	0.0333		98.7	30-120			
Benzo (a) anthracene	0.0307	0.00500	"	0.0333		92.0	30-120			
Benzo (a) pyrene	0.0298	0.00500	"	0.0333		89.5	30-120			
Benzo (b) fluoranthene	0.0314	0.00500	"	0.0333		94.1	30-120			
Benzo (k) fluoranthene	0.0335	0.00500	"	0.0333		100	30-120			
Chrysene	0.0345	0.00500	"	0.0333		103	30-120			
Dibenz (a,h) anthracene	0.0303	0.00500	"	0.0333		91.0	30-120			
Fluoranthene	0.0322	0.00500	"	0.0333		96.5	30-120			
Fluorene	0.0326	0.00500	"	0.0333		97.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0284	0.00500	"	0.0333		85.1	30-120			
Pyrene	0.0341	0.00500	"	0.0333		102	35-142			
1-Methylnaphthalene	0.0262	0.00500	"	0.0333		78.6	35-142			
2-Methylnaphthalene	0.0244	0.00500	"	0.0333		73.2	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0274		"	0.0333		82.2	40-150			
Surrogate: Fluoranthene-d10	0.0323		"	0.0333		96.8	40-150			

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFK0541 - EPA 5030 Soil MS

Matrix Spike (BFK0541-MS1)			Source: 2211211-02		Prepared & Analyzed: 11/21/22						
Acenaphthene	0.0140	0.00500	mg/kg	0.0333	ND	41.9	31-137				
Anthracene	0.0137	0.00500	"	0.0333	ND	41.2	30-120				
Benzo (a) anthracene	0.0157	0.00500	"	0.0333	ND	47.0	30-120				
Benzo (a) pyrene	0.0136	0.00500	"	0.0333	ND	40.8	30-120				
Benzo (b) fluoranthene	0.0139	0.00500	"	0.0333	ND	41.6	30-120				
Benzo (k) fluoranthene	0.0143	0.00500	"	0.0333	ND	42.8	30-120				
Chrysene	0.0150	0.00500	"	0.0333	ND	45.1	30-120				
Dibenz (a,h) anthracene	0.0161	0.00500	"	0.0333	ND	48.4	30-120				
Fluoranthene	0.0144	0.00500	"	0.0333	ND	43.3	30-120				
Fluorene	0.0134	0.00500	"	0.0333	ND	40.2	30-120				
Indeno (1,2,3-cd) pyrene	0.0153	0.00500	"	0.0333	ND	46.0	30-120				
Pyrene	0.0156	0.00500	"	0.0333	ND	46.9	35-142				
1-Methylnaphthalene	0.0145	0.00500	"	0.0333	ND	43.4	15-130				
2-Methylnaphthalene	0.0345	0.00500	"	0.0333	ND	104	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0134		"	0.0333		40.2	40-150				
Surrogate: Fluoranthene-d10	0.0151		"	0.0333		45.2	40-150				

Matrix Spike Dup (BFK0541-MSD1)			Source: 2211211-02		Prepared & Analyzed: 11/21/22						
Acenaphthene	0.0147	0.00500	mg/kg	0.0333	ND	44.1	31-137	5.25	30		
Anthracene	0.0141	0.00500	"	0.0333	ND	42.4	30-120	2.76	30		
Benzo (a) anthracene	0.0163	0.00500	"	0.0333	ND	49.0	30-120	4.14	30		
Benzo (a) pyrene	0.0139	0.00500	"	0.0333	ND	41.8	30-120	2.31	30		
Benzo (b) fluoranthene	0.0140	0.00500	"	0.0333	ND	42.0	30-120	1.01	30		
Benzo (k) fluoranthene	0.0144	0.00500	"	0.0333	ND	43.2	30-120	1.01	30		
Chrysene	0.0156	0.00500	"	0.0333	ND	47.0	30-120	4.10	30		
Dibenz (a,h) anthracene	0.0140	0.00500	"	0.0333	ND	41.9	30-120	14.3	30		
Fluoranthene	0.0145	0.00500	"	0.0333	ND	43.6	30-120	0.861	30		
Fluorene	0.0141	0.00500	"	0.0333	ND	42.4	30-120	5.38	30		
Indeno (1,2,3-cd) pyrene	0.0144	0.00500	"	0.0333	ND	43.3	30-120	6.09	30		
Pyrene	0.0154	0.00500	"	0.0333	ND	46.3	35-142	1.20	30		
1-Methylnaphthalene	0.0244	0.00500	"	0.0333	ND	73.2	15-130	51.0	50		QR-02
2-Methylnaphthalene	0.0301	0.00500	"	0.0333	ND	90.4	15-130	13.6	50		
Surrogate: 2-Methylnaphthalene-d10	0.0158		"	0.0333		47.5	40-150				
Surrogate: Fluoranthene-d10	0.0160		"	0.0333		48.1	40-150				

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFK0460 - EPA 3050B

Blank (BFK0460-BLK1)

Prepared: 11/17/22 Analyzed: 11/18/22

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

LCS (BFK0460-BS1)

Prepared: 11/17/22 Analyzed: 11/18/22

Arsenic	40.4	0.200	mg/kg wet	40.0	101	80-120
Barium	45.1	0.400	"	40.0	113	80-120
Cadmium	2.29	0.200	"	2.00	115	80-120
Cadmium	2.29	0.200	"	2.00	115	80-120
Copper	40.5	0.400	"	40.0	101	80-120
Lead	21.7	0.200	"	20.0	109	80-120
Nickel	39.4	0.400	"	40.0	98.4	80-120
Silver	2.21	0.0200	"	2.00	110	80-120
Zinc	41.9	0.400	"	40.0	105	80-120
Selenium	3.95	0.260	"	4.00	98.9	80-120

Duplicate (BFK0460-DUP1)

Source: 2211252-01

Prepared: 11/17/22 Analyzed: 11/18/22

Arsenic	1.69	0.200	mg/kg dry	1.73	2.24	20
Barium	24.3	0.400	"	23.7	2.37	20
Cadmium	0.0251	0.200	"	0.0267	6.39	20
Cadmium	0.0251	0.200	"	0.0267	6.39	20
Copper	2.80	0.400	"	2.91	3.81	20
Lead	4.15	0.200	"	4.09	1.40	20
Nickel	5.89	0.400	"	6.11	3.75	20
Silver	0.00666	0.0200	"	0.00687	3.06	20
Zinc	28.2	0.400	"	29.3	3.84	20
Selenium	0.444	0.260	"	0.403	9.75	20

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFK0460 - EPA 3050B

Matrix Spike (BFK0460-MS1)		Source: 2211252-01			Prepared: 11/17/22 Analyzed: 11/18/22					
Arsenic	45.7	0.200	mg/kg dry	48.5	1.73	90.6	75-125			
Barium	66.3	0.400	"	48.5	23.7	87.8	75-125			
Cadmium	2.31	0.200	"	2.43	0.0267	93.9	75-125			
Cadmium	2.31	0.200	"	2.43	0.0267	93.9	75-125			
Copper	48.8	0.400	"	48.5	2.91	94.7	75-125			
Lead	24.2	0.200	"	24.3	4.09	83.0	75-125			
Nickel	51.3	0.400	"	48.5	6.11	93.2	75-125			
Silver	2.11	0.0200	"	2.43	0.00687	86.7	75-125			
Zinc	75.9	0.400	"	48.5	29.3	96.0	75-125			
Selenium	3.05	0.260	"	4.85	0.403	54.5	75-125			QM-05

Matrix Spike Dup (BFK0460-MSD1)		Source: 2211252-01			Prepared: 11/17/22 Analyzed: 11/18/22					
Arsenic	45.3	0.200	mg/kg dry	48.5	1.73	89.8	75-125	0.904	25	
Barium	65.2	0.400	"	48.5	23.7	85.6	75-125	1.61	25	
Cadmium	2.32	0.200	"	2.43	0.0267	94.4	75-125	0.478	25	
Cadmium	2.32	0.200	"	2.43	0.0267	94.4	75-125	0.478	25	
Copper	48.3	0.400	"	48.5	2.91	93.5	75-125	1.13	25	
Lead	24.4	0.200	"	24.3	4.09	83.9	75-125	0.850	25	
Nickel	50.7	0.400	"	48.5	6.11	91.8	75-125	1.36	25	
Silver	2.13	0.0200	"	2.43	0.00687	87.4	75-125	0.766	25	
Zinc	75.1	0.400	"	48.5	29.3	94.2	75-125	1.13	25	
Selenium	3.73	0.260	"	4.85	0.403	68.6	75-125	20.2	25	QM-05

Batch BFK0488 - EPA 3050B

Blank (BFK0488-BLK1)		Prepared: 11/18/22 Analyzed: 11/19/22								
Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
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	"							
Selenium	ND	0.260	"							

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFK0488 - EPA 3050B

LCS (BKF0488-BS1)

Prepared: 11/18/22 Analyzed: 11/19/22

Arsenic	40.4	0.200	mg/kg wet	40.0		101	80-120			
Barium	36.9	0.400	"	40.0		92.2	80-120			
Cadmium	1.81	0.200	"	2.00		90.4	80-120			
Cadmium	1.81	0.200	"	2.00		90.4	80-120			
Copper	40.4	0.400	"	40.0		101	80-120			
Lead	20.2	0.200	"	20.0		101	80-120			
Nickel	38.7	0.400	"	40.0		96.9	80-120			
Selenium	4.49	0.260	"	4.00		112	80-120			
Silver	1.89	0.0200	"	2.00		94.6	80-120			
Zinc	39.3	0.400	"	40.0		98.2	80-120			
Selenium	4.49	0.260	"	4.00		112	80-120			

Duplicate (BKF0488-DUP1)

Source: 2211294-02

Prepared: 11/18/22 Analyzed: 11/19/22

Arsenic	5.40	0.200	mg/kg dry		5.33		1.27	20		
Barium	78.4	0.400	"		76.9		1.95	20		
Cadmium	0.186	0.200	"		0.188		0.736	20		
Cadmium	0.186	0.200	"		0.188		0.736	20		
Copper	7.59	0.400	"		7.46		1.71	20		
Lead	6.23	0.200	"		6.04		2.98	20		
Nickel	6.61	0.400	"		6.49		1.84	20		
Selenium	0.260	0.260	"		0.263		1.40	20		
Silver	0.0307	0.0200	"		0.0312		1.48	20		
Zinc	48.6	0.400	"		47.7		1.72	20		
Selenium	0.260	0.260	"		0.263		1.40	20		

Matrix Spike (BKF0488-MS1)

Source: 2211294-02

Prepared: 11/18/22 Analyzed: 11/19/22

Arsenic	48.4	0.200	mg/kg dry	45.9	5.33	93.8	75-125			
Barium	110	0.400	"	45.9	76.9	71.7	75-125			QM-05
Cadmium	2.02	0.200	"	2.29	0.188	80.0	75-125			
Cadmium	2.02	0.200	"	2.29	0.188	80.0	75-125			
Copper	38.9	0.400	"	45.9	7.46	68.4	75-125			QM-05
Lead	22.3	0.200	"	22.9	6.04	70.9	75-125			QM-05
Nickel	36.9	0.400	"	45.9	6.49	66.2	75-125			QM-05
Selenium	5.15	0.260	"	4.59	0.263	107	75-125			
Silver	1.94	0.0200	"	2.29	0.0312	83.0	75-125			
Zinc	76.0	0.400	"	45.9	47.7	61.6	75-125			QM-05
Selenium	5.15	0.260	"	4.59	0.263	107	75-125			

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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFK0488 - EPA 3050B

Matrix Spike Dup (BFK0488-MSD1)			Source: 2211294-02		Prepared: 11/18/22 Analyzed: 11/19/22						
Arsenic	50.2	0.200	mg/kg dry	45.9	5.33	97.7	75-125	3.64	25		
Barium	119	0.400	"	45.9	76.9	92.3	75-125	8.27	25		
Cadmium	2.22	0.200	"	2.29	0.188	88.6	75-125	9.34	25		
Cadmium	2.22	0.200	"	2.29	0.188	88.6	75-125	9.34	25		
Copper	39.9	0.400	"	45.9	7.46	70.7	75-125	2.68	25		QM-05
Lead	24.2	0.200	"	22.9	6.04	79.0	75-125	8.02	25		
Nickel	38.0	0.400	"	45.9	6.49	68.7	75-125	3.06	25		QM-05
Selenium	5.35	0.260	"	4.59	0.263	111	75-125	3.68	25		
Silver	2.09	0.0200	"	2.29	0.0312	89.6	75-125	7.46	25		
Zinc	78.4	0.400	"	45.9	47.7	66.7	75-125	3.06	25		QM-05
Selenium	5.35	0.260	"	4.59	0.263	111	75-125	3.68	25		

Post Spike (BFK0488-PS1)			Source: 2211294-02		Prepared: 11/18/22 Analyzed: 11/19/22						
Selenium	11.1		ug/l	10.0	0.574	106	75-125				

Batch BFL0038 - EPA 3050B

Blank (BFL0038-BLK1)			Prepared: 12/01/22 Analyzed: 12/03/22								
Cadmium	ND	0.200	mg/kg wet								
Selenium	ND	0.260	"								

LCS (BFL0038-BS1)			Prepared: 12/01/22 Analyzed: 12/03/22								
Cadmium	2.24	0.200	mg/kg wet	2.00		112	80-120				
Selenium	3.82	0.260	"	4.00		95.5	80-120				

Duplicate (BFL0038-DUP1)			Source: 2211294-05		Prepared: 12/01/22 Analyzed: 12/03/22						
Cadmium	0.275	0.200	mg/kg dry		0.224			20.4	20		QR-03
Selenium	0.666	0.260	"		0.611			8.59	20		

Summit Scientific

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

Project: Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BFL0038 - EPA 3050B

Matrix Spike (BFL0038-MS1)		Source: 2211294-05			Prepared: 12/01/22 Analyzed: 12/03/22					
Cadmium	2.14	0.200	mg/kg dry	2.38	0.224	80.3	75-125			
Selenium	4.80	0.260	"	4.77	0.611	87.9	75-125			
Matrix Spike Dup (BFL0038-MSD1)		Source: 2211294-05			Prepared: 12/01/22 Analyzed: 12/03/22					
Cadmium	2.31	0.200	mg/kg dry	2.38	0.224	87.5	75-125	7.77	25	
Selenium	4.51	0.260	"	4.77	0.611	81.7	75-125	6.40	25	
Post Spike (BFL0038-PS1)		Source: 2211294-05			Prepared: 12/01/22 Analyzed: 12/03/22					
Selenium	10.9		ug/l	10.0	1.28	96.1	75-125			

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFK0513 - 3060A Mod

Blank (BFK0513-BLK1)

Prepared: 11/18/22 Analyzed: 11/19/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFK0513-BS1)

Prepared: 11/18/22 Analyzed: 11/19/22

Chromium, Hexavalent 23.8 0.30 mg/kg wet 25.0 95.0 80-120

Duplicate (BFK0513-DUP1)

Source: 2211294-14

Prepared: 11/18/22 Analyzed: 11/19/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFK0513-MS1)

Source: 2211294-14

Prepared: 11/18/22 Analyzed: 11/19/22

Chromium, Hexavalent 29.8 0.30 mg/kg dry 28.9 ND 103 75-125

Matrix Spike Dup (BFK0513-MSD1)

Source: 2211294-14

Prepared: 11/18/22 Analyzed: 11/19/22

Chromium, Hexavalent 29.8 0.30 mg/kg dry 28.9 ND 103 75-125 0.00 20

Summit Scientific

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

Project: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

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

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

Batch BFK0501 - General Preparation

Blank (BFK0501-BLK1)

Prepared: 11/18/22 Analyzed: 11/22/22

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

LCS (BFK0501-BS1)

Prepared: 11/18/22 Analyzed: 11/22/22

Calcium	5.00	0.0500	mg/L wet	5.00	100	70-130
Magnesium	4.45	0.0500	"	5.00	89.1	70-130
Sodium	4.44	0.0500	"	5.00	88.7	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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

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

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

Batch BFK0498 - General Preparation

Duplicate (BFK0498-DUP1)		Source: 2211294-02			Prepared: 11/18/22 Analyzed: 11/19/22						
% Solids	87.4		%		87.2			0.285		20	

Batch BFK0516 - General Preparation

Duplicate (BFK0516-DUP1)		Source: 2210371-01			Prepared: 11/18/22 Analyzed: 11/21/22						
% Solids	98.7		%		99.0			0.281		20	

Batch BFL0092 - General Preparation

Duplicate (BFL0092-DUP1)		Source: 2211294-05			Prepared & Analyzed: 12/04/22						
% Solids	83.7		%		83.9			0.177		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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

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

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

Batch BFK0534 - General Preparation

Blank (BFK0534-BLK1)

Prepared & Analyzed: 11/19/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFK0534-BS1)

Prepared & Analyzed: 11/19/22

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.3 95-105

Duplicate (BFK0534-DUP1)

Source: 2210371-01

Prepared & Analyzed: 11/19/22

Specific Conductance (EC) 0.368 0.0100 mmhos/cm 0.363 1.29 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: Peak 1 Tank Battery
Project Number: [none]
Project Manager: Mark Longhurst

Reported:
08/31/23 10:28

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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 80401

303.277.9310

June 19, 2023

Mark Longhurst

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: PDC - Peak 1 Tank Battery

Work Order # 2306219

Enclosed are the results of analyses for samples received by Summit Scientific on 06/12/23 17:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely". The signature is fluid and cursive, with the first name "Scott" and last name "Sheely" clearly distinguishable.

Scott Sheely For Paul Shrewsbury

President



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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG06@1'	2306219-01	Soil	06/12/23 11:45	06/12/23 17:35
BKG06@2.5'	2306219-02	Soil	06/12/23 11:46	06/12/23 17:35
BKG06@4'	2306219-03	Soil	06/12/23 11:47	06/12/23 17:35
BKG06@5'	2306219-04	Soil	06/12/23 11:48	06/12/23 17:35
BKG06@10'	2306219-05	Soil	06/12/23 11:49	06/12/23 17:35
BKG07@1'	2306219-06	Soil	06/12/23 12:00	06/12/23 17:35
BKG07@2.5'	2306219-07	Soil	06/12/23 12:01	06/12/23 17:35
BKG07@4'	2306219-08	Soil	06/12/23 12:02	06/12/23 17:35
BKG07@5'	2306219-09	Soil	06/12/23 12:03	06/12/23 17:35
BKG07@10'	2306219-10	Soil	06/12/23 12:04	06/12/23 17:35
BKG08@1'	2306219-11	Soil	06/12/23 12:15	06/12/23 17:35
BKG08@2.5'	2306219-12	Soil	06/12/23 12:16	06/12/23 17:35
BKG08@4'	2306219-13	Soil	06/12/23 12:17	06/12/23 17:35
BKG08@5'	2306219-14	Soil	06/12/23 12:18	06/12/23 17:35
BKG08@10'	2306219-15	Soil	06/12/23 12:19	06/12/23 17:35

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.

Client: PDC / Tasman		Send Data To:		Send Invoice To:	
Address: 6855 W 119th Ave		Project Manager: Mark Longhurst		Company: PDC Energy	
City/State/Zip: Broomfield / CO / 80020		E-Mail: mark.longhurst@PDCE.com		Project Name/Location:	
Phone: 303-487-1228		Project Name: Peak 1 Tank Battery		AFE#:	
Sampler Name: Gabe Semenza		Project Number:		PO/Billing Codes:	
				Contact: Mark Longhurst	

					Preservative				Matrix			Analysis Requested						Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	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	Selenium	
1	BKG06 @ 1'	6/12/23	1145	1			X			X								X	
2	BKG06 @ 2.5'		1146				X												
3	BKG06 @ 4'		1147																
4	BKG06 @ 5'		1148																
5	BKG06 @ 10'		1149																
6	BKG07 @ 1'		1200																
7	BKG07 @ 2.5'		1201																
8	BKG07 @ 4'		1202																
9	BKG07 @ 5'		1203																
10	BKG07 @ 10'		1204																
11	BKG08 @ 1'		1215																
12	BKG08 @ 2.5'		1216																
13	BKG08 @ 4'		1217																
14	BKG08 @ 5'		1218																
15	BKG08 @ 10'		1219																

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
G. Semenza	6/12/23 1545	Tasman Lockbox	6/12/23 1545	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Tasman Lockbox	6/12/23 1735	[Signature]	6/12/23 1735	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 17.7		Corrected Temperature: 17.7		IR gun #: 1		HNO3 lot #:

S₂

Sample Receipt Checklist

S2 Work Order# 2306219Client: PortasmanClient Project ID: Peak 1 tank batteryShipped Via: H.D./P.U./FedEx/UPS/USPS/OtherAirbill #:

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

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? ⁽¹⁾ NOTE: 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"/>	NOTE
If custody seals are present, are they intact? ⁽¹⁾	<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? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any): <u>Bags</u>				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name

Date/Time



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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

BKG06@1'
2306219-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	ND	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 11:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	85.1			%	1	BGF0479	06/13/23	06/13/23	Calculation	

Summit Scientific

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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

BKG06@2.5'
2306219-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 11:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	ND	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 11:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	82.4			%	1	BGF0479	06/13/23	06/13/23	Calculation	

Summit Scientific

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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

BKG06@4'
2306219-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 11:47**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	ND	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 11:47**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	84.9			%	1	BGF0479	06/13/23	06/13/23	Calculation	

Summit Scientific

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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

BKG06@5'
2306219-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 11:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	ND	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 11:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	81.7			%	1	BGF0479	06/13/23	06/13/23	Calculation	

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.



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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

BKG06@10'
2306219-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 11:49**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	ND	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 11:49**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.9			%	1	BGF0479	06/13/23	06/13/23	Calculation	

Summit Scientific

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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

BKG07@1'
2306219-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	0.196	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	83.8			%	1	BGF0479	06/13/23	06/13/23	Calculation	

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.



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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

BKG07@2.5'
2306219-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 12:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	ND	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 12:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	83.4			%	1	BGF0479	06/13/23	06/13/23	Calculation	

Summit Scientific

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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

BKG07@4'
2306219-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 12:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	ND	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 12:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	92.9			%	1	BGF0479	06/13/23	06/13/23	Calculation	

Summit Scientific

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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

BKG07@5'
2306219-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 12:03**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	ND	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 12:03**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	87.2			%	1	BGF0479	06/13/23	06/13/23	Calculation	

Summit Scientific

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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

BKG07@10'
2306219-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 12:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	ND	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 12:04**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	89.8			%	1	BGF0479	06/13/23	06/13/23	Calculation	

Summit Scientific

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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

BKG08@1'
2306219-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	ND	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 12:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	82.9			%	1	BGF0479	06/13/23	06/13/23	Calculation	

Summit Scientific

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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

06/19/23 15:50

BKG08@2.5'
2306219-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 12:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	ND	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 12:16**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	79.4			%	1	BGF0479	06/13/23	06/13/23	Calculation	

Summit Scientific

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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

BKG08@4'
2306219-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 12:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	ND	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 12:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	88.6			%	1	BGF0479	06/13/23	06/13/23	Calculation	

Summit Scientific

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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

BKG08@5'
2306219-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 12:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	ND	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 12:18**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	82.4			%	1	BGF0479	06/13/23	06/13/23	Calculation	

Summit Scientific

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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

BKG08@10'
2306219-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/12/23 12:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Selenium	ND	0.260	0.175	mg/kg dry	1	BGF0491	06/14/23	06/18/23	EPA 6020B	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/12/23 12:19**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	79.2			%	1	BGF0479	06/13/23	06/13/23	Calculation	

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.



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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BGF0491 - EPA 3050B

Blank (BGF0491-BLK1)

Prepared: 06/14/23 Analyzed: 06/18/23

Selenium ND 0.260 mg/kg wet

LCS (BGF0491-BS1)

Prepared: 06/14/23 Analyzed: 06/18/23

Selenium 4.19 0.260 mg/kg wet 4.00 105 80-120

Duplicate (BGF0491-DUP1)

Source: 2306219-01

Prepared: 06/14/23 Analyzed: 06/18/23

Selenium ND 0.260 mg/kg dry ND 20

Matrix Spike (BGF0491-MS1)

Source: 2306219-01

Prepared: 06/14/23 Analyzed: 06/18/23

Selenium 3.73 0.260 mg/kg dry 4.70 ND 79.3 75-125

Matrix Spike Dup (BGF0491-MSD1)

Source: 2306219-01

Prepared: 06/14/23 Analyzed: 06/18/23

Selenium 4.37 0.260 mg/kg dry 4.70 ND 93.0 75-125 15.8 25

Summit Scientific

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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]

Project Manager: Mark Longhurst

Reported:

06/19/23 15:50

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

Summit Scientific

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

Batch BGF0479 - General Preparation

Duplicate (BGF0479-DUP1)

Source: 2306219-01

Prepared & Analyzed: 06/13/23

% Solids	83.8	%		85.1		1.57	20
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Summit Scientific

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

Project: PDC - Peak 1 Tank Battery

Project Number: [none]
Project Manager: Mark Longhurst

Reported:
06/19/23 15:50

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