

Table 1
Soil Sampling Results
Ferguson (OWP) #2 F-12Y
Red Mesa Field
Colorado Energy & Carbon Management Commission

Parameter	SS01	SS02	SS02	SS03	ECMC Table 915-1 Standard	Units
	6/17/2021	6/17/2021	9/18/2023	9/18/2023		
Sample Location	Wellhead	Flowline	Wellhead Excavation	Wellhead Excavation	NA	NA
Latitude/Longitude	37.067393, -108.130475	37.067246, -108.130289	37.067401, -108.130472	37.067398, -108.130501	NA	NA
Laboratory ID	2106157-01	2106157-02	2309187-01	2309187-02	NA	NA
Depth	2.5	2.5	3.0	3.5	NA	feet bgs
PID	0.4	0.3	0.4	0.2	NA	ppm
Conductivity	1.780	0.592	-	-	<4	mmhos/cm
pH	7.50	7.75	-	-	6-8.3	pH units
SAR	0.45	2.83	-	-	<6	no units
Calcium	242	35.1	-	-	NA	mg/L
Magnesium	41.0	12.4	-	-	NA	mg/L
Sodium	28.8	76.6	-	-	NA	mg/L
Arsenic	4.51	2.72	-	-	0.68 or 1.25x BG	mg/kg
Barium	201	218	-	-	15,000 or 1.25x BG	mg/kg
Cadmium	<5.00	<5.00	-	-	71 or 1.25x BG	mg/kg
Chromium (VI)	-	-	-	-	0.3 or 1.25x BG	mg/kg
Total Chromium	14.8	13.4	-	-	NA	mg/kg
Copper	164	17.0	-	-	3,100 or 1.25x BG	mg/kg
Lead	954	<10.0	-	-	400 or 1.25x BG	mg/kg
Nickel	12.2	11.5	-	-	1,500 or 1.25x BG	mg/kg
Selenium	<20.0	<20.0	-	-	390 or 1.25x BG	mg/kg
Silver	<1.00	<1.00	-	-	390 or 1.25x BG	mg/kg
Zinc	491	32.8	-	-	23,000 or 1.25x BG	mg/kg
Boron	1.46	1.47	-	-	2	mg/L
TPH (GRO)	<10.0	<10.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	1,780	35.1	29.2	35.2	NA	mg/kg
TPH (EXT DRO)	844	19.1	15.3	30.7	NA	mg/kg
Total TPH	2,624	54.2	44.5	65.9	500	mg/kg
Benzene	0.0486	<0.0250	-	-	1.2	mg/kg
Toluene	0.304	0.0616	-	-	490	mg/kg
Ethylbenzene	0.0370	<0.0250	-	-	5.8	mg/kg
Total Xylenes	0.0913	<0.0250	-	-	58	mg/kg
1,3,5-trimethylbenzene	<0.0250	<0.0250	-	-	27	mg/kg
1,2,4-trimethylbenzene	0.0339	<0.0250	-	-	30	mg/kg
Naphthalene	0.0410	<0.0250	-	-	2	mg/kg
2-methylnaphthalene	1.97	<0.023	-	-	24	mg/kg
1-methylnaphthalene	1.39	<0.016	-	-	18	mg/kg
Acenaphthene	<0.235	<0.024	-	-	360	mg/kg
Fluorene	0.233**	<0.014	-	-	240	mg/kg
Anthracene	<0.172	<0.017	-	-	1,800	mg/kg
Fluoranthene	<0.185	<0.019	-	-	240	mg/kg
Pyrene	<0.132	<0.013	-	-	180	mg/kg
Benzo(a)anthracene	<0.230	<0.023	-	-	1.1	mg/kg
Chrysene	<0.172	<0.017	-	-	110	mg/kg
Benzo(b)fluoranthene	<0.192	<0.019	-	-	1.1	mg/kg
Benzo(k)fluoranthene	<0.157	<0.016	-	-	11	mg/kg
Benzo(a)pyrene	<0.182*	<0.018	-	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.168	<0.017	-	-	1.1	mg/kg
Dibenz(a,h)anthracene	<0.186*	<0.019	-	-	0.11	mg/kg

Notes: SS02 6/17/21 and SS02 9/18/23 are unique samples.

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
BG- Background

bgs - below ground surface
mmhos/cm - millihos per centimeter
mg/L - milligrams per liter
mg/kg - milligrams per kilogram
ECMC - Colorado Energy and Carbon Management Commission
* - Laboratory detection limit exceeds ECMC Standard
** - Value detected below the reporting limit; result is an estimate.
Bold values exceed ECMC Standard
Values reported below the laboratory detection limit are considered zero in Total TPH calculations.

Table 1
Soil Sampling Results
Ferguson (OWP) #2 F-12Y
Red Mesa Field
Colorado Energy & Carbon Management Commission

Parameter	SS04	SS05	SS06	ECMC Table 915-1 Standard	Units
	9/18/2023	9/18/2023	9/18/2023		
Sample Location	Wellhead Excavation	Wellhead Excavation	Wellhead Excavation	NA	NA
Latitude/Longitude	37.067381, -108.130489	37.067383, -108.130518	37.067389, -108.130497	NA	NA
Lab ID	2309187-03	2309187-04	2309187-05	NA	NA
Depth	3.0	3.0	4.5	NA	feet bgs
PID	0.3	0.2	6.8	NA	ppm
Conductivity	-	-	-	<4	mmhos/cm
pH	-	-	-	6-8.3	pH units
SAR	-	-	-	<6	no units
Calcium	-	-	-	NA	mg/L
Magnesium	-	-	-	NA	mg/L
Sodium	-	-	-	NA	mg/L
Arsenic	-	-	-	0.68 or 1.25x BG	mg/kg
Barium	-	-	-	15,000 or 1.25x BG	mg/kg
Cadmium	-	-	-	71 or 1.25x BG	mg/kg
Chromium (VI)	-	-	-	0.3 or 1.25x BG	mg/kg
Total Chromium	-	-	-	NA	mg/kg
Copper	-	-	-	3,100 or 1.25x BG	mg/kg
Lead	-	-	-	400 or 1.25x BG	mg/kg
Nickel	-	-	-	1,500 or 1.25x BG	mg/kg
Selenium	-	-	-	390 or 1.25x BG	mg/kg
Silver	-	-	-	390 or 1.25x BG	mg/kg
Zinc	-	-	-	23,000 or 1.25x BG	mg/kg
Boron	-	-	-	2	mg/L
TPH (GRO)	<10.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	58.8	22.6	167	NA	mg/kg
TPH (EXT DRO)	59.9	16.1	187	NA	mg/kg
Total TPH	118.7	38.7	354	500	mg/kg
Benzene	-	-	-	1.2	mg/kg
Toluene	-	-	-	490	mg/kg
Ethylbenzene	-	-	-	5.8	mg/kg
Total Xylenes	-	-	-	58	mg/kg
1,3,5-trimethylbenzene	-	-	-	27	mg/kg
1,2,4-trimethylbenzene	-	-	-	30	mg/kg
Naphthalene	-	-	-	2	mg/kg
2-methylnaphthalene	-	-	-	24	mg/kg
1-methylnaphthalene	-	-	-	18	mg/kg
Acenaphthene	-	-	-	360	mg/kg
Fluorene	-	-	-	240	mg/kg
Anthracene	-	-	-	1,800	mg/kg
Fluoranthene	-	-	-	240	mg/kg
Pyrene	-	-	-	180	mg/kg
Benzo(a)anthracene	-	-	-	1.1	mg/kg
Chrysene	-	-	-	110	mg/kg
Benzo(b)fluoranthene	-	-	-	1.1	mg/kg
Benzo(k)fluoranthene	-	-	-	11	mg/kg
Benzo(a)pyrene	-	-	-	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	-	-	-	1.1	mg/kg
Dibenz(a,h)anthracene	-	-	-	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
TPH - Total Petroleum Hydrocarbons
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