

Table 1
Soil Sampling Results
Dyehard (OWP) #3A
Red Mesa 21
Colorado Energy & Carbon Management Commission

Parameter	SS01 08/30/2023	SS02 11/02/2023	SS03 11/02/2023	ECMC Table 915-1 Standard	Units
Sample Location	P&A Wellhead	AST	Flowline	NA	NA
Latitude/Longitude	37.109802, -108.103932	37.111239, -108.104475	37.111214, -108.104440	NA	NA
Laboratory ID	2308435-01	2311039-01	2311039-02	NA	NA
Depth	6	1	3.5	NA	feet bgs
PID	71	0.7	1.2	NA	ppm
Conductivity	0.897	16.500	0.515	<4	mmhos/cm
pH	7.97	7.30	7.99	6-8.3	pH units
SAR	2.73	27.3	3.19	<6	no units
Calcium	77.2	641	29.8	NA	mg/L
Magnesium	12.7	71.0	6.71	NA	mg/L
Sodium	98.3	2730	74.0	NA	mg/L
Arsenic	4.88	6.74	4.39	0.68 or 1.25x BG	mg/kg
Barium	237	225	222	15,000 or 1.25x BG	mg/kg
Cadmium	<5.00	<5.00	<5.00	71 or 1.25x BG	mg/kg
Chromium (VI)	<0.250	<0.250	<0.250	0.3 or 1.25x BG	mg/kg
Total Chromium	39.8	21.5	19.4	NA	mg/kg
Copper	22.4	34.2	20.4	3,100 or 1.25x BG	mg/kg
Lead	11.6	17.6	<10.0	400 or 1.25x BG	mg/kg
Nickel	21.4	12.0	11.5	1,500 or 1.25x BG	mg/kg
Selenium	<20.0	<20.0	<20.0	390 or 1.25x BG	mg/kg
Silver	<1.00	<1.00	<1.00	390 or 1.25x BG	mg/kg
Zinc	38.3	47.8	41.2	23,000 or 1.25x BG	mg/kg
Boron	<1.20	1.71	<1.20	2	mg/L
TPH (GRO)	10.4	<10.0	<10.0	NA	mg/kg
TPH (DRO)	117	<10.0	<10.0	NA	mg/kg
TPH (EXT DRO)	42.5	<10.0	<10.0	NA	mg/kg
Total TPH	169.9	<30.0	<30.0	500	mg/kg
Benzene	<0.00885	<0.0250	<0.0250	1.2	mg/kg
Toluene	<0.00670	<0.0250	<0.0250	490	mg/kg
Ethylbenzene	0.0154**	<0.0250	<0.0250	5.8	mg/kg
Total Xylenes	<0.0256	<0.0750	<0.0750	58	mg/kg
1,3,5-trimethylbenzene	0.0461	<0.0250	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	0.0277	<0.0250	<0.0250	30	mg/kg
Naphthalene	<0.015	<0.015	<0.015	2	mg/kg
2-methylnaphthalene	<0.023	<0.023	<0.023	24	mg/kg
1-methylnaphthalene	<0.016	<0.016	<0.016	18	mg/kg
Acenaphthene	<0.024	<0.024	<0.024	360	mg/kg
Fluorene	<0.014	<0.014	<0.014	240	mg/kg
Anthracene	<0.017	<0.017	<0.017	1800	mg/kg
Fluoranthene	<0.019	<0.019	<0.019	240	mg/kg
Pyrene	<0.013	<0.013	<0.013	180	mg/kg
Benzo(a)anthracene	<0.023	<0.023	<0.023	1.1	mg/kg
Chrysene	<0.017	<0.017	<0.017	110	mg/kg
Benzo(b)fluoranthene	<0.019	<0.019	<0.019	1.1	mg/kg
Benzo(k)fluoranthene	<0.016	<0.016	<0.016	11	mg/kg
Benzo(a)pyrene	<0.018	<0.018	<0.018	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.017	<0.017	<0.017	1.1	mg/kg
Dibenz(a,h)anthracene	<0.019	<0.019	<0.019	0.11	mg/kg

Notes:

bgs - below ground surface

mmhos/cm - millihos per centimeter

mg/L - milligrams per liter

mg/kg - milligrams per kilogram

ECMC - Colorado Energy & Carbon Management Commission

** - 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.

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