

Table 1
Soil Sampling Results
Turner (OWP) #4
Red Mesa 21

Colorado Energy & Carbon Management Commission

Parameter	SS01	SS02	ECMC Table 915-1 Standard	Units
	09/14/2023	11/15/2023		
Sample Location	P&A Wellhead	Flowline	NA	NA
Latitude/Longitude	37.080432, -108.129933	37.080432, -108.130157	NA	NA
Laboratory ID	2309160-01	2311210-01	NA	NA
Depth	4	2.5	NA	feet bgs
PID	0.7	1.6	NA	ppm
Conductivity	0.312	0.558	<4	mmhos/cm
pH	8.27	8.60	6-8.3	pH units
SAR	0.68	3.00	<6	no units
Calcium	36.0	47.1	NA	mg/L
Magnesium	14.7	9.51	NA	mg/L
Sodium	19.1	86.2	NA	mg/L
Arsenic	3.45	4.38	0.68 or 1.25x BG	mg/kg
Barium	347	150	15,000 or 1.25x BG	mg/kg
Cadmium	<5.00	<5.00	71 or 1.25x BG	mg/kg
Chromium (VI)	<0.250	<0.250	0.3 or 1.25x BG	mg/kg
Total Chromium	8.49	11.0	NA	mg/kg
Copper	13.8	12.9	3,100 or 1.25x BG	mg/kg
Lead	<10.0	<10.0	400 or 1.25x BG	mg/kg
Nickel	6.34	8.92	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	21.2	25.8	23,000 or 1.25x BG	mg/kg
Boron	<1.20	<1.20	2	mg/L
TPH (GRO)	<10.0	<10.0	NA	mg/kg
TPH (DRO)	<10.0	<10.0	NA	mg/kg
TPH (EXT DRO)	<10.0	<10.0	NA	mg/kg
Total TPH	<30.0	<30.0	500	mg/kg
Benzene	<0.00885	<0.0250	1.2	mg/kg
Toluene	<0.00670	<0.0250	490	mg/kg
Ethylbenzene	0.00996**	<0.0250	5.8	mg/kg
Total Xylenes	<0.0256	<0.0750	58	mg/kg
1,3,5-trimethylbenzene	0.00454**	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	0.0148**	<0.0250	30	mg/kg
Naphthalene	<0.015	<0.015	2	mg/kg
2-methylnaphthalene	<0.023	<0.023	24	mg/kg
1-methylnaphthalene	<0.016	<0.016	18	mg/kg
Acenaphthene	<0.024	<0.024	360	mg/kg
Fluorene	<0.014	<0.014	240	mg/kg
Anthracene	<0.017	<0.017	1800	mg/kg
Fluoranthene	<0.019	<0.019	240	mg/kg
Pyrene	<0.013	<0.013	180	mg/kg
Benzo(a)anthracene	<0.023	<0.023	1.1	mg/kg
Chrysene	<0.017	<0.017	110	mg/kg
Benzo(b)fluoranthene	<0.019	<0.019	1.1	mg/kg
Benzo(k)fluoranthene	<0.016	<0.016	11	mg/kg
Benzo(a)pyrene	<0.018	<0.018	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.017	<0.017	1.1	mg/kg
Dibenz(a,h)anthracene	<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