

Table 1
Soil Sampling Results
Margaret Spaulding (OWP) #7
Lone Pine Well Plugging Project
Colorado Oil & Gas Conservation Commission

Parameter	SS01 07/28/2021	SS02 07/28/2021	SS03 07/28/2021	SS01 Background 07/28/2021	COGCC Table 915-1 Standard	Units
Sample Location	Wellhead	Pumping Unit	Flowline	Background	NA	NA
Latitude/Longitude	40.71427, -106.493	40.71462, -106.4926	40.71419, -106.4931	40.71514, -106.4963	NA	NA
Laboratory ID	2107317-01	2107317-02	2107317-03	2107315-01	NA	NA
Depth	2.5	0-0.5	3	0-0.66	NA	feet bgs
PID	0.3	0.6	0.3	0.0	NA	ppm
Conductivity	0.448	0.276	0.761	0.286	<4	mmhos/cm
pH	6.80	7.29	7.30	5.60	6-8.3	pH units
SAR	1.52	0.31	1.01	0.16	<6	no units
Calcium	50.2	40.6	102	36.4	NA	mg/L
Magnesium	6.43	7.55	14.3	10.3	NA	mg/L
Sodium	42.9	8.09	41.3	4.22	NA	mg/L
Arsenic	<1.00*	<1.00*	<1.00*	2.04	0.68	mg/kg
Barium	66.3	109	173	146	15000	mg/kg
Cadmium	<5.00	<5.00	<5.00	<5.00	71	mg/kg
Chromium (VI)***	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.3	mg/kg
Total Chromium	18.3	32.9	33.7	25.0	NA	mg/kg
Copper	16.7	36.1	31.2	27.5	3100	mg/kg
Lead	<10.0	<10.0	<10.0	<10.0	400	mg/kg
Nickel	9.55	17.3	16.7	13.0	1500	mg/kg
Selenium	<20.0	<20.0	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	<1.00	<1.00	390	mg/kg
Zinc	41.6	65.1	66.1	64.8	23000	mg/kg
Boron	<1.20	<1.20	<1.20	<1.20	2	mg/L
TPH (GRO)	<50.0	<10.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	230	<10.0	<10.0	<10.0	NA	mg/kg
TPH (EXT DRO)	252	<10.0	<10.0	<10.0	NA	mg/kg
Total TPH	482	<30.0	<30.0	<30.0	500	mg/kg
Benzene	<0.0250	<0.0250	<0.0250	<0.0250	1.2	mg/kg
Toluene	<0.0250	<0.0250	<0.0250	<0.0250	490	mg/kg
Ethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	5.8	mg/kg
Total Xylenes	<0.0250	<0.0250	<0.0250	<0.0250	58	mg/kg
1,3,5-trimethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	30	mg/kg
Naphthalene	<0.0250	<0.0250	<0.0250	<0.0250	2	mg/kg
2-methylnaphthalene	<0.226	<0.023	<0.023	<0.023	24	mg/kg
1-methylnaphthalene	<0.161	<0.016	<0.016	<0.016	18	mg/kg
Acenaphthene	<0.235	<0.024	<0.024	<0.024	360	mg/kg
Fluorene	<0.142	<0.014	<0.014	<0.014	240	mg/kg
Anthracene	<0.172	<0.017	<0.017	<0.017	1800	mg/kg
Fluoranthene	<0.185	<0.019	<0.019	<0.019	240	mg/kg
Pyrene	<0.132	<0.013	<0.013	<0.013	180	mg/kg
Benzo(a)anthracene	<0.230	<0.023	<0.023	<0.023	1.1	mg/kg
Chrysene	<0.172	<0.017	<0.017	<0.017	110	mg/kg
Benzo(b)fluoranthene	<0.192	<0.019	<0.019	<0.019	1.1	mg/kg
Benzo(k)fluoranthene	<0.157	<0.016	<0.016	<0.016	11	mg/kg
Benzo(a)pyrene	<0.182*	<0.018	<0.018	<0.018	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.168	<0.017	<0.017	<0.017	1.1	mg/kg
Dibenzo(a,h)anthracene	<0.186*	<0.019	<0.019	<0.019	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTX - Benzene, Toluene, Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
EXT - Extended
NA - Not Applicable
ppm - parts per million
bgs - below ground surface
mmhos/cm - millihos per centimeter

mg/L - milligrams per liter
mg/kg - milligrams per kilogram
COGCC - Colorado Oil & Gas Conservation Commission
* - Laboratory detection limit exceeds COGCC Standard
** - Value detected below the reporting limit; result is an estimate.
Bold values exceed COGCC Standard
Values reported below the laboratory detection limit are considered zero in Total TPH calculations.
***Laboratory could only analyze for Total Chromium (not Chromium (IV)) prior to September 2021.