

Table 1
Soil Sampling Results
Spaulding, Margaret (OWP) #8
Lone Pine Well Plugging Project
Colorado Oil & Gas Conservation Commission

Parameter	SS01	SS02	SS03	COGCC Table 915-1 Standard	Units
	09/01/2021	09/01/2021	09/01/2021		
Sample Location	Wellhead	Pumping Unit	Flowline	NA	NA
Latitude/Longitude	40.7221, -106.4966	40.72213, -106.4965	40.7218, -106.4965	NA	NA
Laboratory ID	2109055-03	2109055-04	2109055-05	NA	NA
Depth	7	0-0.25	6.5	NA	feet bgs
PID	5.4	0.0	543.3	NA	ppm
Conductivity	3.200	0.735	0.452	<4	mmhos/cm
pH	8.10	7.91	8.06	6-8.3	pH units
SAR	2.04	1.15	2.85	<6	no units
Calcium	198	81.8	29.4	NA	mg/L
Magnesium	18.5	11.0	3.76	NA	mg/L
Sodium	112	41.7	61.7	NA	mg/L
Arsenic	3.96	3.41	4.92	0.68	mg/kg
Barium	239	150	128	15000	mg/kg
Cadmium	<5.00	<5.00	<5.00	71	mg/kg
Chromium (VI)***	<0.250	<0.250	<0.250	0.3	mg/kg
Total Chromium	12.8	13.6	15.1	NA	mg/kg
Copper	23.6	34.4	20.3	3100	mg/kg
Lead	16.4	10.6	<10.0	400	mg/kg
Nickel	11.4	10.0	11.2	1500	mg/kg
Selenium	<20.0	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	<1.00	390	mg/kg
Zinc	53.5	43.0	39.2	23000	mg/kg
Boron	<1.20	<1.20	<1.20	2	mg/L
TPH (GRO)	<10.0	<10.0	1770	NA	mg/kg
TPH (DRO)	138	17.6	11100	NA	mg/kg
TPH (EXT DRO)	67.1	<10.0	2490	NA	mg/kg
Total TPH	205.1	17.6	15360	500	mg/kg
Benzene	<0.0250	<0.0250	<0.250	1.2	mg/kg
Toluene	<0.0250	<0.0250	<0.250	490	mg/kg
Ethylbenzene	<0.0250	<0.0250	2.17	5.8	mg/kg
Total Xylenes	<0.0750	<0.0750	19.8	58	mg/kg
1,3,5-trimethylbenzene	0.0303	<0.0250	7.71	27	mg/kg
1,2,4-trimethylbenzene	0.0432	<0.0250	30.9	30	mg/kg
Naphthalene	<0.0250	<0.0250	13.5	2	mg/kg
2-methylnaphthalene	0.094	<0.023	32.7	24	mg/kg
1-methylnaphthalene	0.108	<0.016	24.3	18	mg/kg
Acenaphthene	<0.024	<0.024	<0.235	360	mg/kg
Fluorene	0.041	<0.014	4.64	240	mg/kg
Anthracene	<0.017	<0.017	<0.172	1800	mg/kg
Fluoranthene	0.060	<0.019	1.31	240	mg/kg
Pyrene	0.072	0.019	1.80	180	mg/kg
Benzo(a)anthracene	<0.023	<0.023	<0.230	1.1	mg/kg
Chrysene	0.095	<0.017	2.04	110	mg/kg
Benzo(b)fluoranthene	<0.019	<0.019	0.668	1.1	mg/kg
Benzo(k)fluoranthene	<0.016	<0.016	<0.157	11	mg/kg
Benzo(a)pyrene	<0.018	<0.018	<0.182*	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.017	<0.017	<0.168	1.1	mg/kg
Dibenz(a,h)anthracene	<0.019	<0.019	<0.186*	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - 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.

Table 1 (continued)
Soil Sampling Results
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Lone Pine Well Plugging Project
Colorado Oil & Gas Conservation Commission

Parameter	SS04	SS05	SS01 Background	COGCC Table 915-1 Standard	Units
	09/01/2021	09/01/2021	07/28/2021		
Sample Location	Flowline	Earthen Pit	Background	NA	NA
Latitude/Longitude	40.72226, -106.4966	40.72161, -106.4966	40.71514, -106.4963	NA	NA
Laboratory ID	2109055-06	2109055-07	2107315-01	NA	NA
Depth	2	0.16-0.83	0-0.66	NA	feet bgs
PID	0.5	0.1	0.0	NA	ppm
Conductivity	0.966	0.965	0.286	<4	mmhos/cm
pH	8.02	7.78	5.60	6-8.3	pH units
SAR	1.80	0.14	0.16	<6	no units
Calcium	120	146	36.4	NA	mg/L
Magnesium	14.3	11.6	10.3	NA	mg/L
Sodium	78.5	6.38	4.22	NA	mg/L
Arsenic	4.72	6.83	2.04	0.68	mg/kg
Barium	125	214	146	15000	mg/kg
Cadmium	<5.00	<5.00	<5.00	71	mg/kg
Chromium (VI)***	<0.250	<0.250	Not Analyzed	0.3	mg/kg
Total Chromium	22.0	19.6	25.0	NA	mg/kg
Copper	16.9	30.6	27.5	3100	mg/kg
Lead	<10.0	10.4	<10.0	400	mg/kg
Nickel	15.3	15.3	13.0	1500	mg/kg
Selenium	<20.0	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	<1.00	390	mg/kg
Zinc	34.0	66.3	64.8	23000	mg/kg
Boron	<1.20	<1.20	<1.20	2	mg/L
TPH (GRO)	<10.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	111	<10.0	<10.0	NA	mg/kg
TPH (EXT DRO)	31.4	<10.0	<10.0	NA	mg/kg
Total TPH	142.4	<30.0	<30.0	500	mg/kg
Benzene	<0.0250	<0.0250	<0.0250	1.2	mg/kg
Toluene	<0.0250	<0.0250	<0.0250	490	mg/kg
Ethylbenzene	<0.0250	<0.0250	<0.0250	5.8	mg/kg
Total Xylenes	<0.0750	<0.0750	<0.0250	58	mg/kg
1,3,5-trimethylbenzene	<0.0250	<0.0250	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	<0.0250	<0.0250	<0.0250	30	mg/kg
Naphthalene	0.0271	<0.0250	<0.0250	2	mg/kg
2-methylnaphthalene	<0.023	<0.023	<0.023	24	mg/kg
1-methylnaphthalene	0.020	<0.016	<0.016	18	mg/kg
Acenaphthene	<0.024	<0.024	<0.024	360	mg/kg
Fluorene	0.073	<0.014	<0.014	240	mg/kg
Anthracene	<0.017	<0.017	<0.017	1800	mg/kg
Fluoranthene	0.384	<0.019	<0.019	240	mg/kg
Pyrene	0.369	<0.013	<0.013	180	mg/kg
Benzo(a)anthracene	<0.023	<0.023	<0.023	1.1	mg/kg
Chrysene	0.366	<0.017	<0.017	110	mg/kg
Benzo(b)fluoranthene	0.146	<0.019	<0.019	1.1	mg/kg
Benzo(k)fluoranthene	<0.016	<0.016	<0.016	11	mg/kg
Benzo(a)pyrene	0.083	<0.018	<0.018	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	0.036	<0.017	<0.017	1.1	mg/kg
Dibenz(a,h)anthracene	<0.019	<0.019	<0.019	0.11	mg/kg

Notes:

PID - Photoionization Detector
SAR - Sodium Adsorption Ratio
BTEX - Benzene, Toluene,
Ethylbenzene, & Total Xylenes
TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
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