

Table 1
Soil Sampling Results
M. Spaulding Centralized Tank Battery
Lone Pine Well Plugging Project
Colorado Oil & Gas Conservation Commission

Parameter	SS01	SS02	SS03	SS04	SS05	COGCC Table 915-1 Standard	Units
	08/19/2021	08/19/2021	08/19/2021	08/19/2021	08/19/2021		
Sample Location	Flowline	Flowline	Flowline	Flowline	Flowline Manifold	NA	NA
Latitude/Longitude	40.71823, -106.4981	40.7185, -106.4979	40.7181, -106.4984	40.71804, -106.4984	40.71829, -106.4983	NA	NA
Laboratory ID	2108209-01	2108209-02	2108209-03	2108209-04	2108209-05	NA	NA
Depth	9	7	7	5	9	NA	feet bgs
PID	353	1.8	1600	1534	954	NA	ppm
Conductivity	1.060	0.430	0.550	0.575	0.990	<4	mmhos/cm
pH	7.63	7.47	6.72	6.79	6.88	6-8.3	pH units
SAR	1.99	0.28	0.18	1.06	1.22	<6	no units
Calcium	112	67.0	77.8	60.0	141	NA	mg/L
Magnesium	11.9	9.61	10.5	12.1	12.0	NA	mg/L
Sodium	82.7	9.39	6.25	34.5	56.4	NA	mg/L
Arsenic	4.23	6.55	3.78	1.71	3.13	0.68	mg/kg
Barium	178	211	177	79.9	178	15000	mg/kg
Cadmium	<5.00	<5.00	<5.00	<5.00	<5.00	71	mg/kg
Chromium (VI)***	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.3	mg/kg
Total Chromium	25.7	24.2	20.1	8.09	25.1	NA	mg/kg
Copper	28.7	27.4	27.1	11.2	22.0	3100	mg/kg
Lead	<10.0	<10.0	<10.0	<10.0	<10.0	400	mg/kg
Nickel	16.3	19.1	12.6	6.38	15.0	1500	mg/kg
Selenium	<20.0	<20.0	<20.0	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	<1.00	<1.00	<1.00	390	mg/kg
Zinc	69.1	71.6	120	21.9	73.5	23000	mg/kg
Boron	<1.20	<1.20	<1.20	<1.20	<1.20	2	mg/L
TPH (GRO)	17.9	<10.0	1130	2250	242	NA	mg/kg
TPH (DRO)	41.9	<10.0	3660	10300	1660	NA	mg/kg
TPH (EXT DRO)	<10.0	<10.0	496	2040	400	NA	mg/kg
Total TPH	59.8	<30.0	5286	14590	2302	500	mg/kg
Benzene	<0.0250	<0.0250	<0.250	0.227	<0.0250	1.2	mg/kg
Toluene	0.0329	<0.0250	<0.250	0.0323	<0.0250	490	mg/kg
Ethylbenzene	0.0804	<0.0250	4.12	5.81	0.629	5.8	mg/kg
Total Xylenes	0.578	<0.0750	<0.750	0.787	0.164	58	mg/kg
1,3,5-trimethylbenzene	0.177	<0.0250	<0.250	0.810	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	0.822	<0.0250	0.278	25.8	0.0543	30	mg/kg
Naphthalene	0.279	<0.0250	10.9	8.46	2.33	2	mg/kg
2-methylnaphthalene	0.905	<0.023	34.7	29.4	9.81	24	mg/kg
1-methylnaphthalene	0.715	<0.016	29.4	25.7	8.68	18	mg/kg
Acenaphthene	<0.024	<0.024	<2.35	<2.35	0.370	360	mg/kg
Fluorene	0.144	<0.014	5.40	5.08	1.75	240	mg/kg
Anthracene	<0.017	<0.017	<1.72	<1.72	<0.172	1800	mg/kg
Fluoranthene	<0.019	<0.019	<1.85	<1.85	0.202	240	mg/kg
Pyrene	0.047	<0.013	1.80	<1.32	0.441	180	mg/kg
Benzo(a)anthracene	<0.023	<0.023	<2.30*	<2.30*	<0.230	1.1	mg/kg
Chrysene	0.061	<0.017	<1.72	<1.72	0.729	110	mg/kg
Benzo(b)fluoranthene	<0.019	<0.019	<1.92*	<1.92*	<0.192	1.1	mg/kg
Benzo(k)fluoranthene	<0.016	<0.016	<1.57	<1.57	<0.157	11	mg/kg
Benzo(a)pyrene	<0.018	<0.018	<1.82*	<1.82*	<0.182*	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.017	<0.017	<1.68*	<1.68*	<0.168	1.1	mg/kg
Dibenz(a,h)anthracene	<0.019	<0.019	<1.86*	<1.86*	<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
M. Spaulding Centralized Tank Battery
Lone Pine Well Plugging Project
Colorado Oil & Gas Conservation Commission

Parameter	SS06	SS07	SS08	SS09	SS10	COGCC Table 915-1 Standard	Units
	08/19/2021	08/19/2021	08/19/2021	08/19/2021	08/19/2021		
Sample Location	Tank Battery	Tank Battery	Tank Battery	Tank Battery	Tank Battery	NA	NA
Latitude/Longitude	40.71811, -106.4982	40.71806, -106.4983	40.71804, -106.4982	40.71793, -106.4984	40.71785, -106.4984	NA	NA
Laboratory ID	2108209-06	2108209-07	2108209-08	2108209-09	2108209-10	NA	NA
Depth	0-1	1-2	0-1	0-0.33	0-0.33	NA	feet bgs
PID	23.3	0.3	0.4	23.4	11.3	NA	ppm
Conductivity	0.604	0.450	0.530	1.150	1.52	<4	mmhos/cm
pH	7.45	7.39	7.56	6.74	6.47	6-8.3	pH units
SAR	0.54	0.64	0.49	0.65	1.69	<6	no units
Calcium	91.2	65.6	75.1	173	201	NA	mg/L
Magnesium	11.7	7.37	9.97	24.2	18.3	NA	mg/L
Sodium	20.7	20.6	17.1	34.4	93.2	NA	mg/L
Arsenic	2.95	1.54	5.09	4.72	10.3	0.68	mg/kg
Barium	182	73.1	719	121	158	15000	mg/kg
Cadmium	<5.00	<5.00	<5.00	<5.00	<5.00	71	mg/kg
Chromium (VI)***	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	Not Analyzed	0.3	mg/kg
Total Chromium	94.9	88.4	50.2	30.8	98.5	NA	mg/kg
Copper	38.7	25.5	64.3	28.6	111	3100	mg/kg
Lead	<10.0	<10.0	10.2	<10.0	23	400	mg/kg
Nickel	46.3	39.7	25.5	15.8	47	1500	mg/kg
Selenium	<20.0	<20.0	<20.0	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	<1.00	<1.00	<1.00	390	mg/kg
Zinc	79.3	32.2	104	46.5	240	23000	mg/kg
Boron	<1.20	<1.20	<1.20	<1.20	<1.20	2	mg/L
TPH (GRO)	<50.0	<50.0	<10.0	65.1	<50.0	NA	mg/kg
TPH (DRO)	143	832	15.5	6960	9460	NA	mg/kg
TPH (EXT DRO)	235	755	<10.0	3090	5140	NA	mg/kg
Total TPH	378	1587	15.5	10115.1	14600	500	mg/kg
Benzene	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	1.2	mg/kg
Toluene	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	490	mg/kg
Ethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	5.8	mg/kg
Total Xylenes	<0.0750	<0.0750	<0.0750	<0.0750	<0.0750	58	mg/kg
1,3,5-trimethylbenzene	<0.0250	<0.0250	<0.0250	0.186	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	<0.0250	<0.0250	<0.0250	0.0341	<0.0250	30	mg/kg
Naphthalene	0.0411	<0.0250	<0.0250	0.0835	0.0395	2	mg/kg
2-methylnaphthalene	<0.226	<0.226	0.066	<0.226	<0.226	24	mg/kg
1-methylnaphthalene	<0.161	<0.161	0.068	0.239	0.415	18	mg/kg
Acenaphthene	<0.235	<0.235	<0.024	<0.235	<0.235	360	mg/kg
Fluorene	<0.142	<0.142	0.014	<0.142	<0.142	240	mg/kg
Anthracene	<0.172	<0.172	<0.017	<0.172	<0.172	1800	mg/kg
Fluoranthene	<0.185	<0.185	<0.019	<0.185	<0.185	240	mg/kg
Pyrene	<0.132	<0.132	<0.013	1.17	1.99	180	mg/kg
Benzo(a)anthracene	<0.230	<0.230	<0.023	<0.230	<0.230	1.1	mg/kg
Chrysene	<0.172	<0.172	<0.017	1.96	2.98	110	mg/kg
Benzo(b)fluoranthene	<0.192	<0.192	<0.019	0.693	<0.192	1.1	mg/kg
Benzo(k)fluoranthene	<0.157	<0.157	<0.016	<0.157	<0.157	11	mg/kg
Benzo(a)pyrene	<0.182*	<0.182*	<0.018	<0.182*	<0.182*	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.168	<0.168	<0.017	<0.168	<0.168	1.1	mg/kg
Dibenz(a,h)anthracene	<0.186*	<0.186*	<0.019	<0.186*	<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
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EXT - Extended
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ppm - parts per million
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** - Value detected below the reporting limit; result is an estimate.

Bold values exceed COGCC Standard

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prior to September 2021.

Table 1 (continued)
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Parameter	SS11	SS12	SS13	SS14	SS15	COGCC Table 915-1 Standard	Units
	08/19/2021	08/19/2021	08/31/2021	09/01/2021	09/01/2021		
Sample Location	Tank Battery	Surface Discharge	Flowline	Flowline	Flowline	NA	NA
Latitude/Longitude	40.71781, -106.4984	40.7183, -106.4992	40.71754, -106.4979	40.71755, -106.4994	40.71769, -106.4992	NA	NA
Laboratory ID	2108209-11	2108209-12	2109048-01	2109048-02	2109048-03	NA	NA
Depth	0-0.33	0-0.25	6.5	5	8	NA	feet bgs
PID	43	0.3	12.0	0.0	0.0	NA	ppm
Conductivity	0.455	0.860	0.519	0.462	0.269	<4	mmhos/cm
pH	6.85	7.46	7.13	6.90	7.71	6-8.3	pH units
SAR	0.26	0.21	1.58	0.30	0.57	<6	no units
Calcium	115	127	50.6	72.3	33.6	NA	mg/L
Magnesium	9.68	16.6	10.9	13.4	7.30	NA	mg/L
Sodium	11.0	9.57	47.5	10.5	14.1	NA	mg/L
Arsenic	9.32	8.15	6.15	4.36	3.56	0.68	mg/kg
Barium	103	954	150	157	224	15000	mg/kg
Cadmium	<5.00	<5.00	<5.00	<5.00	<5.00	71	mg/kg
Chromium (VI)***	Not Analyzed	Not Analyzed	<0.250	<0.250	<0.250	0.3	mg/kg
Total Chromium	45.9	32.4	22.3	24.0	23.1	NA	mg/kg
Copper	292	13.9	19.8	20.5	23.8	3100	mg/kg
Lead	30.5	<10.0	<10.0	<10.0	<10.0	400	mg/kg
Nickel	22.5	18.1	14.8	13.9	12.5	1500	mg/kg
Selenium	<20.0	<20.0	<20.0	<20.0	<20.0	390	mg/kg
Silver	<1.00	<1.00	<1.00	<1.00	<1.00	390	mg/kg
Zinc	288	54.8	44.8	53.5	53.4	23000	mg/kg
Boron	<1.20	<1.20	<1.20	<1.20	<1.20	2	mg/L
TPH (GRO)	83.9	<10.0	<50.0	<10.0	<10.0	NA	mg/kg
TPH (DRO)	8240	<10.0	9790	48.4	<10.0	NA	mg/kg
TPH (EXT DRO)	3380	<10.0	3100	89.0	<10.0	NA	mg/kg
Total TPH	11703.9	<30.0	12890	137.4	<30.0	500	mg/kg
Benzene	<0.0250	<0.0250	<0.250	<0.0250	<0.0250	1.2	mg/kg
Toluene	<0.0250	<0.0250	<0.250	<0.0250	<0.0250	490	mg/kg
Ethylbenzene	<0.0250	<0.0250	<0.250	<0.0250	<0.0250	5.8	mg/kg
Total Xylenes	<0.0750	<0.0750	<0.750	<0.0750	<0.0750	58	mg/kg
1,3,5-trimethylbenzene	0.187	<0.0250	<0.250	<0.0250	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	<0.0250	<0.0250	<0.250	<0.0250	<0.0250	30	mg/kg
Naphthalene	0.215	<0.0250	1.79	<0.0250	<0.0250	2	mg/kg
2-methylnaphthalene	<0.226	<0.023	4.85	<0.023	<0.023	24	mg/kg
1-methylnaphthalene	1.26	<0.016	10.3	<0.016	<0.016	18	mg/kg
Acenaphthene	<0.235	<0.024	<0.235	<0.024	<0.024	360	mg/kg
Fluorene	1.37	<0.014	4.48	<0.014	<0.014	240	mg/kg
Anthracene	<0.172	<0.017	<0.172	<0.017	<0.017	1800	mg/kg
Fluoranthene	0.917	<0.019	0.463	<0.019	<0.019	240	mg/kg
Pyrene	2.69	<0.013	1.49	<0.013	<0.013	180	mg/kg
Benzo(a)anthracene	<0.230	<0.023	<0.230	<0.023	<0.023	1.1	mg/kg
Chrysene	4.05	0.048	2.04	<0.017	<0.017	110	mg/kg
Benzo(b)fluoranthene	0.988	<0.019	<0.192	<0.019	<0.019	1.1	mg/kg
Benzo(k)fluoranthene	<0.157	<0.016	<0.157	<0.016	<0.016	11	mg/kg
Benzo(a)pyrene	<0.182*	<0.018	<0.182*	<0.018	<0.018	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.168	<0.017	<0.168	<0.017	<0.017	1.1	mg/kg
Dibenz(a,h)anthracene	<0.186*	<0.019	<0.186*	<0.019	<0.019	0.11	mg/kg

Notes:

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Table 1 (continued)
Soil Sampling Results
M. Spaulding Centralized Tank Battery
Lone Pine Well Plugging Project
Colorado Oil & Gas Conservation Commission

Parameter	SS16	SS17	SS18	SS19	SS01 Background	COGCC Table 915-1 Standard	Units
	09/01/2021	09/01/2021	09/01/2021	09/01/2021	07/28/2021		
Sample Location	Flowline	Flowline	Flowline	Horizontal Separator	Background	NA	NA
Latitude/Longitude	40.71805, -106.4996	40.71785, -106.4994	40.71817, -106.4986	40.71818, -106.4984	40.71514, -106.4963	NA	NA
Laboratory ID	2109048-04	2109048-05	2109048-06	2109048-07	2107315-01	NA	NA
Depth	0-0.33	0-0.33	7	0-0.25	0-0.66	NA	feet bgs
PID	-	-	0.4	1.4	0.0	NA	ppm
Conductivity	1.030	1.480	1.050	0.667	0.286	<4	mmhos/cm
pH	7.37	7.34	7.63	7.49	5.60	6-8.3	pH units
SAR	1.51	0.64	1.28	0.79	0.16	<6	no units
Calcium	138	311	111	100	36.4	NA	mg/L
Magnesium	7.08	18.7	17.2	15.0	10.3	NA	mg/L
Sodium	67.0	42.9	55.0	31.9	4.22	NA	mg/L
Arsenic	2.28	1.63	3.86	4.67	2.04	0.68	mg/kg
Barium	4930	3750	291	233	146	15000	mg/kg
Cadmium	<5.00	<5.00	<5.00	<5.00	<5.00	71	mg/kg
Chromium (VI)***	<0.250	<0.250	<0.250	<0.250	Not Analyzed	0.3	mg/kg
Total Chromium	30.1	23.6	30.3	30.1	25.0	NA	mg/kg
Copper	47.5	31.6	32.4	30.1	27.5	3100	mg/kg
Lead	<10.0	<10.0	<10.0	11.5	<10.0	400	mg/kg
Nickel	13.0	11.4	16.8	17.5	13.0	1500	mg/kg
Selenium	<20.0	<20.0	<20.0	<20.0	<20.0	390	mg/kg
Silver	1.33	<1.00	<1.00	<1.00	<1.00	390	mg/kg
Zinc	400	598	63.1	137	64.8	23000	mg/kg
Boron	<1.20	<1.20	<1.20	<1.20	<1.20	2	mg/L
TPH (GRO)	<100	<100	<10.0	<100	<10.0	NA	mg/kg
TPH (DRO)	20300	20100	<10.0	3290	<10.0	NA	mg/kg
TPH (EXT DRO)	11700	12000	<10.0	2960	<10.0	NA	mg/kg
Total TPH	32000	32100	<30.0	6250	<30.0	500	mg/kg
Benzene	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	1.2	mg/kg
Toluene	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	490	mg/kg
Ethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	5.8	mg/kg
Total Xylenes	<0.0750	<0.0750	<0.0750	<0.0750	<0.0250	58	mg/kg
1,3,5-trimethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	27	mg/kg
1,2,4-trimethylbenzene	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	30	mg/kg
Naphthalene	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	2	mg/kg
2-methylnaphthalene	<1.13	<0.565	<0.023	<0.226	<0.023	24	mg/kg
1-methylnaphthalene	<0.804	<0.402	<0.016	<0.161	<0.016	18	mg/kg
Acenaphthene	<1.18	<0.588	<0.024	<0.235	<0.024	360	mg/kg
Fluorene	<0.712	<0.356	<0.014	<0.142	<0.014	240	mg/kg
Anthracene	<0.858	<0.429	<0.017	<0.172	<0.017	1800	mg/kg
Fluoranthene	<0.926	<0.463	<0.019	<0.185	<0.019	240	mg/kg
Pyrene	4.97	4.96	<0.013	0.555	<0.013	180	mg/kg
Benzo(a)anthracene	<1.15	<0.576	<0.023	<0.230	<0.023	1.1	mg/kg
Chrysene	12.1	10.8	<0.017	0.908	<0.017	110	mg/kg
Benzo(b)fluoranthene	<0.958	<0.479	<0.019	<0.192	<0.019	1.1	mg/kg
Benzo(k)fluoranthene	<0.786	<0.393	<0.016	<0.157	<0.016	11	mg/kg
Benzo(a)pyrene	<0.908*	<0.454*	<0.018	<0.182*	<0.018	0.11	mg/kg
Indeno(1,2,3-cd)pyrene	<0.840	0.499	<0.017	<0.168	<0.017	1.1	mg/kg
Dibenz(a,h)anthracene	<0.928*	<0.464*	<0.019	<0.186*	<0.019	0.11	mg/kg

Notes:

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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.