

TABLE 1
SELTZER FARMS-61S67W /3SENV
SOIL SAMPLE FIELD DATA SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Approximate Depth (feet bgs)	PID (ppm-v)	Visual Observation	Olfactory Observation	Latitude, Longitude	Submitted for Lab Analysis (Y/N)
Produced Water Vault Soil Samples							
PW-B01 @ 5'	8/12/2022	5	6.4	N/S	N/O	39.9957396853832, -104.878745327418	Y
PW-N01 @ 2.5'	8/12/2022	2.5	1.7	N/S	N/O	39.9957522179858, -104.878744040672	N
PW-S01 @ 2.5'	8/12/2022	2.5	1.3	N/S	N/O	39.9957276406548, -104.878745273133	N
PW-E01 @ 2.5'	8/12/2022	2.5	1.4	N/S	N/O	39.9957396290408, -104.878728383892	N
PW-W01 @ 2.5'	8/12/2022	2.5	1.2	N/S	N/O	39.9957419655820, -104.878764200494	Y
PW-B02 @ 7'	8/31/2022	7	1.3	N/S	N/O	39.9957304396912, -104.878748087458	Y
PW-N02 @ 5'	8/31/2022	5	1.3	N/S	N/O	39.995750728542, -104.878744998414	Y
PW-S02 @ 5'	8/31/2022	5	1.4	N/S	N/O	39.9957141458579, -104.878751445958	Y
PW-E02 @ 5'	8/31/2022	5	1.1	N/S	N/O	39.9957281797608, -104.878721143987	Y
PW-W02 @ 5'	8/31/2022	5	0.9	N/S	N/O	39.9957311686419, -104.878777319079	Y
PW-B03 @ 9'	10/10/2022	9	0.8	N/S	N/O	39.9957344168251, -104.878776367405	Y
PW-N03 @ 7'	10/10/2022	7	1.8	N/S	N/O	39.9957732880004, -104.878765005813	Y
PW-S03 @ 7'	10/10/2022	7	1.1	N/S	N/O	39.9957032543467, -104.878777947727	Y
PW-E03 @ 7'	10/10/2022	7	1.8	N/S	N/O	39.9957399880012, -104.878711805829	Y
PW-W03 @ 7'	10/10/2022	7	1.6	N/S	N/O	39.9957331886551, -104.878826460995	Y
PW-W04 @ 7'	10/21/2022	7	0.7	N/S	N/O	39.9957417652429, -104.878816573536	Y
PW-N04 @ 7'	10/31/2022	7	0.3	N/S	N/O	39.9957692880037, -104.878804705804	Y
PW-S04 @ 7'	10/31/2022	7	0.2	N/S	N/O	39.9957012880128, -104.878802205813	Y
PW-W05 @ 7'	10/31/2022	7	0.2	N/S	N/O	39.9957210880113, -104.878819905806	Y
Tank Battery Soil Samples							
AST-B01 @ 2'	8/12/2022	2	0.5	N/S	N/O	39.9957889872756, -104.878782735698	Y
AST-B02 @ 2'	8/12/2022	2	0.6	N/S	N/O	39.9957842431242, -104.878795732608	N
SEP-B01 @ 3'	8/12/2022	3	0.1	N/S	N/O	39.9955457105328, -104.878766511811	Y
SEP-B02 @ 3'	8/12/2022	3	0.1	N/S	N/O	39.9954798202526, -104.878765554594	Y
DL-B01 @ 3'	8/12/2022	3	0.2	N/S	N/O	39.9955708183642, 104.878661063827	N
DL-B02 @ 3'	8/12/2022	3	0.5	N/S	N/O	39.9956465714572, -104.878656637118	N
DL-B03 @ 3'	8/12/2022	3	0.6	N/S	N/O	39.9957419699279, -104.878657870720	N
MH-B01 @ 3"	8/12/2022	0.25	0.1	N/S	N/O	39.9954699758713, -104.878739660251	N
ECD-B01 @ 3"	8/12/2022	0.25	0.4	N/S	N/O	39.9954733247572, -104.878672005300	N
Background Soil Samples							
PW-BG01 @ 2.5'	8/12/2022	2.5	0.4	N/S	N/O	39.9958326146995, -104.878773417597	Y
PW-BG01 @ 5'	8/12/2022	5	0.5	N/S	N/O	39.9958326146995, -104.878773417597	Y
PW-BG02 @ 2.5'	8/12/2022	2.5	0.1	N/S	N/O	39.9954522431968, -104.878787948056	Y
PW-BG02 @ 5'	8/12/2022	5	0.3	N/S	N/O	39.9954522431968, -104.878787948056	Y
PW-BG03 @ 7'	8/31/2022	7	0.1	N/S	N/O	39.9957266241393, -104.878606983921	Y
PW-BG04 @ 9'	10/11/2022	9	1.8	N/S	N/O	39.9958359549279, -104.878737989829	Y
PW-BG05 @ 9'	10/11/2022	9	1.0	N/S	N/O	39.995580866594, -104.878751827613	Y

bgs = below ground surface
PID = photoionization detector
ppm-v = parts per million by volume

N/S = No Staining
N/O = No Odor

TABLE 2
SELTZER FARMS-61S67W /3SENW
SOIL SAMPLE RESULTS SUMMARY TABLE - VOCs
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Naphthalene (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
COGCC standards for soil (mg/kg) ⁽²⁾		1.2	490	5.8	58	500			2	30	27
Tank Battery Soil Samples											
SEP-B02 @ 3'	8/12/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
SEP-B01 @ 3'	8/12/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
AST-B01 @ 2'	8/12/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
PW-B01 @ 5'	8/12/2022	<0.00200	<0.00200	<0.00200	<0.00200	0.841	936	767	0.00526	<0.00200	<0.00200
PW-W01 @ 2.5'	8/12/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
PW-B02 @ 7'	8/31/2022	NA	NA	NA	NA	<25.0	<25.0	<100	<0.00067	NA	NA
PW-N02 @ 5'	8/31/2022	NA	NA	NA	NA	<25.0	<25.0	<100	<0.00067	NA	NA
PW-S02 @ 5'	8/31/2022	NA	NA	NA	NA	<25.0	<25.0	<100	<0.00067	NA	NA
PW-E02 @ 5'	8/31/2022	NA	NA	NA	NA	<25.0	<25.0	<100	<0.00067	NA	NA
PW-W02 @ 5'	8/31/2022	NA	NA	NA	NA	<25.0	<25.0	<100	<0.00335	NA	NA
PW-B03 @ 9'	10/10/22	NA	NA	NA	NA	<0.200	<25.0	<100	<0.00067	NA	NA
PW-N03 @ 7'	10/10/22	NA	NA	NA	NA	<0.200	<25.0	<100	<0.00067	NA	NA
PW-S03 @ 7'	10/10/22	NA	NA	NA	NA	<0.200	<25.0	<100	<0.00067	NA	NA
PW-E03 @ 7'	10/10/22	NA	NA	NA	NA	<0.200	<25.0	<100	<0.00067	NA	NA
PW-W03 @ 7'	10/10/22	NA	NA	NA	NA	<0.200	<25.0	<100	<0.00067	NA	NA
PW-W04 @ 7'	10/21/22	NA	NA	NA	NA	<0.200	<25.0	<100	<0.00067	NA	NA
PW-N04 @ 7'	10/31/22	NA	NA	NA	NA	<0.200	<25.0	<100	<0.00201	NA	NA
PW-S04 @ 7'	10/31/22	NA	NA	NA	NA	<0.200	<25.0	<100	<0.00201	NA	NA
PW-W05 @ 7'	10/31/22	NA	NA	NA	NA	<0.200	<25.0	<100	<0.00201	NA	NA

Notes:

⁽¹⁾ COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Cleanup Concentrations

NA = Not Analyzed

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

TMB = Trimethylbenzene

TABLE 3
SELTZER FARMS-61S67W /3SENW
SOIL SAMPLE RESULTS SUMMARY TABLE - SOIL SUITABILITY FOR RECLAMATION
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Depth (ft. bgs)	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
COGCC standards for soil (mg/kg) ⁽¹⁾			6 - 8.3	<6	<4	2
<i>Produced Water Vessel Soil Samples</i>						
PW-B01 @ 5'	8/12/2022	5	8.18	3.88	1.44	0.485
PW-W01 @ 2.5'	8/12/2022	2.5	8.23	0.0957	0.198	0.183
<i>Background Soil Samples</i>						
PW-BG01 @ 2.5'	8/12/2022	2.5	8.28	0.275	0.353	0.493
PW-BG01 @ 5'	8/12/2022	5	8.16	0.189	0.317	0.359
PW-BG02 @ 2.5'	8/12/2022	2.5	8.40	2.47	0.480	1.12
PW-BG02 @ 5'	8/12/2022	5	8.49	5.74	0.671	1.21

Notes:

⁽¹⁾ Standards for soil are taken from COGCC Table 915-1, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

ft. bgs = Feet below ground surface

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Absorption Ratio

EC = Electrical Conductivity

TABLE 4
SELTZER FARMS-61S67W /3SENW
SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	1-Methyl-naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3-cd)-pyrene (mg/kg)	Pyrene (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3
COGCC standards for soil (mg/kg) ⁽²⁾		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
Produced Water Vessel Soil Samples															
PW-B01 @ 5'	8/12/2022	0.0696	0.0804	0.0181	0.00675	0.00383	<0.00335	0.00474	<0.00335	0.0271	<0.00335	0.00225	0.0677	<0.00335	0.0128
PW-B02 @ 7'	8/31/2022	<0.00067	<0.00067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-N02 @ 5'	8/31/2022	<0.00067	<0.00067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-S02 @ 5'	8/31/2022	<0.00067	<0.00067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-E02 @ 5'	8/31/2022	<0.00067	<0.00067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-W02 @ 5'	8/31/2022	<0.00335	<0.00335	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-B03 @ 9'	10/10/22	<0.00067	<0.00067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-N03 @ 7'	10/10/22	<0.00067	<0.00067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-S03 @ 7'	10/10/22	<0.00067	<0.00067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-E03 @ 7'	10/10/22	<0.00067	<0.00067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-W03 @ 7'	10/10/22	<0.00067	<0.00067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-W04 @ 7'	10/21/22	<0.00067	<0.00067	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-N04 @ 7'	10/31/22	<0.00201	<0.00201	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-S04 @ 7'	10/31/22	<0.00201	<0.00201	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PW-W05 @ 7'	10/31/22	<0.00201	<0.00201	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

⁽¹⁾ Standards are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Cleanup Concentrations

PAH = Polycyclic Aromatic Hydrocarbons

NA = Not Analyzed

TABLE 5
SELTZER FARMS-61S67W /3SENW
SOIL SAMPLE RESULTS SUMMARY TABLE - METALS
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC standards for soil (mg/kg)⁽¹⁾		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC standards for soil (mg/kg)⁽²⁾		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Produced Water Vessel Soil Samples											
PW-B01 @ 5'	8/12/2022	3.29*	107*	0.129	*<0.5	<7.95	<7.95	<7.95	<0.0795	<0.0795	<79.5
PW-B02 @ 7'	8/31/2022	3.98*	216	NA	NA	NA	NA	NA	NA	NA	NA
PW-N02 @ 5'	8/31/2022	2.81*	72.8	NA	NA	NA	NA	NA	NA	NA	NA
PW-S02 @ 5'	8/31/2022	5.10*	157*	NA	NA	NA	NA	NA	NA	NA	NA
PW-E02 @ 5'	8/31/2022	4.09*	141*	NA	NA	NA	NA	NA	NA	NA	NA
PW-W02 @ 5'	8/31/2022	4.58*	133*	NA	NA	NA	NA	NA	NA	NA	NA
PW-B03 @ 9'	10/10/22	4.24*	277*	NA	NA	NA	NA	NA	NA	NA	NA
PW-N03 @ 7'	10/10/22	4.45*	273*	NA	NA	NA	NA	NA	NA	NA	NA
PW-S03 @ 7'	10/10/22	4.51*	183*	NA	NA	NA	NA	NA	NA	NA	NA
PW-E03 @ 7'	10/10/22	4.21*	153*	NA	NA	NA	NA	NA	NA	NA	NA
PW-W03 @ 7'	10/10/22	4.96*	409	NA	NA	NA	NA	NA	NA	NA	NA
PW-W04 @ 7'	10/21/22	3.90*	533	NA	NA	NA	NA	NA	NA	NA	NA
PW-N04 @ 7'	10/31/22	3.87*	300*	NA	NA	NA	NA	NA	NA	NA	NA
PW-S04 @ 7'	10/31/22	4.27*	181*	NA	NA	NA	NA	NA	NA	NA	NA
PW-W05 @ 7'	10/31/22	4.65*	203*	NA	NA	NA	NA	NA	NA	NA	NA
Background Soil Sample											
PW-BG01 @ 2.5'	8/12/2022	5.18	186	0.169	<0.509	10.7	10.0	11.8	0.144	<0.0737	<73.7
PW-BG01 @ 5'	8/12/2022	5.15	171	0.197	<0.504	10.5	10.4	11.6	0.119	<0.0750	<75.0
PW-BG02 @ 2.5'	8/12/2022	5.63	96.1	0.154	<0.5	10.1	9.56	11.9	0.130	<0.0736	<73.6
PW-BG02 @ 5'	8/12/2022	4.50	172	0.158	<0.514	8.31	<8.16	9.12	0.135	<0.0816	<81.6
PW-BG03 @ 7'	8/31/2022	5.33	78.1	NA	NA	NA	NA	NA	NA	NA	NA
PW-BG04 @ 9'	10/11/22	4.67	283	NA	NA	NA	NA	NA	NA	NA	NA
PW-BG05 @ 9'	10/11/22	5.07	187	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

⁽¹⁾ Standards are taken from COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ Standards for soil are taken from COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

(<) = Analytical result is less than the indicated laboratory report

Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Cleanup Concentrations and background concentrations.

Values presented in ***BOLD** contained concentrations exceeding COGCC Table 915-1 Cleanup Concentrations, but are within background concentrations.

* = compound is in accordance with the COGCC Table 915-1 Footnote 9.

NA = Not Analyzed

Background soil sample **PW-BG03 @ 7'** was utilized to calculate a background concentration for arsenic of **6.66 mg/kg**.

Background soil sample **PW-BG04 @ 9'** was utilized to calculate a background concentration for barium of **353.75 mg/kg**.