

TABLE 1
CANEPA 6-21, 22, 24, 25 FACILITY
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)
Tank Battery Soil Samples							
AST-B01 @ 3"	11/4/2024	0.25	0.1	N/S	N/O	40.26256121236976, -104.936034374852	Y
AST-B02 @ 3"	11/4/2024	0.25	0.3	N/S	N/O	40.26258065666834, -104.936037057058	N
AST-B03 @ 3"	11/4/2024	0.25	0.4	N/S	N/O	40.262567096825826, -104.935988442033	Y
AST-B04 @ 3"	11/4/2024	0.25	0.4	N/S	N/O	40.26254944344597, -104.935982742342	N
MH-B01 @ 3"	11/4/2024	0.25	0.6	N/S	N/O	40.26256616623103, -104.935555248619	N
SEP-B01 @ 3"	11/4/2024	0.25	0.7	N/S	N/O	40.26252280369757, -104.935605363121	Y
SEP-B02 @ 4'	11/4/2024	4	1.0	N/S	N/O	40.262529065584864, -104.935543815312	Y
ECD-B01 @ 3"	11/4/2024	0.25	0.9	N/S	N/O	40.26258128758711, -104.936390610632	N
ECD-B02 @ 3"	11/4/2024	0.25	0.5	N/S	N/O	40.262558099522536, -104.936392619284	N
Produced Water Vault Soil Samples							
PW-B01 @ 6'	11/4/2024	6	0.9	N/S	N/O	40.262560803635566, -104.935938973971	Y
PW-N01 @ 5'	11/4/2024	5	0.7	N/S	N/O	40.2625710731237, -104.935947054716	Y
PW-E01 @ 5'	11/4/2024	5	0.6	N/S	N/O	40.26256022086073, -104.935930522181	N
PW-S01 @ 5'	11/4/2024	5	0.7	N/S	N/O	40.26255283786586, -104.935940672018	N
PW-W01 @ 5'	11/4/2024	5	0.8	N/S	N/O	40.26256019608826, -104.935948648789	N
PW-B02 @ 6'	11/4/2024	6	1.5	N/S	N/O	40.262551507542696, -104.935892827977	Y
PW-S02 @ 5'	11/4/2024	5	1.3	Slight HC Staining	N/O	40.26254643060043, -104.935892160829	Y
PW-E02 @ 5'	11/4/2024	5	1.2	N/S	N/O	40.26255386200463, -104.935882424355	N
PW-N02 @ 5'	11/4/2024	5	1.1	N/S	N/O	40.26256288780824, -104.935894800248	N
PW-W02 @ 5'	11/4/2024	5	1.2	N/S	N/O	40.26255619866674, -104.935910427217	N
Background Soil Samples							
AST-BG01 @ 3"	11/4/2024	0.25	0.7	N/S	N/O	40.262350280456076, -104.935899658677	Y
AST-BG02 @ 3"	11/4/2024	0.25	1.2	N/S	N/O	40.26234934566232, -104.936038256424	Y
AST-BG03 @ 3"	11/4/2024	0.25	0.3	N/S	N/O	40.26233642563969, -104.936161276027	Y
Canepa 6-15 Wellhead Background Soil Samples							
WH-BG01 @ 3'	11/4/2024	3	0.4	N/S	N/O	40.25992967388767, -104.928799119673	Y
WH-BG01 @ 6'	11/4/2024	6	0.7	N/S	N/O	40.25992967388767, -104.928799119673	Y
WH-BG02 @ 3'	11/4/2024	3	1.4	N/S	N/O	40.25986403322885, -104.929134979882	Y
WH-BG02 @ 6'	11/4/2024	6	1.2	N/S	N/O	40.25986403322885, -104.929134979882	Y
WH-BG03 @ 3'	11/4/2024	3	1.0	N/S	N/O	40.259492668870415, -104.928988404377	Y
WH-BG03 @ 6'	11/4/2024	6	1.6	N/S	N/O	40.259492668870415, -104.928988404377	Y
WH-BG04 @ 3'	11/4/2024	3	0.9	N/S	N/O	40.25963418719041, -104.928780146371	Y
WH-BG04 @ 6'	11/4/2024	6	0.8	N/S	N/O	40.25963418719041, -104.928780146371	Y

Notes:

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

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

TABLE 2
CANEPA 6-21, 22, 24, 25 FACILITY
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)
<i>ECMC standards for soil (mg/kg)⁽¹⁾</i>		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
<i>ECMC standards for soil (mg/kg)⁽²⁾</i>		1.2	490	5.8	58	500			2	30	27
Tank Battery Soil Samples											
AST-B01 @ 3"	11/4/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	RP	<0.00200	<0.00200
AST-B03 @ 3"	11/4/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	RP	<0.00200	<0.00200
SEP-B01 @ 3"	11/4/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	RP	<0.00200	<0.00200
SEP-B02 @ 4'	11/4/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	RP	<0.00200	<0.00200
Produced Water Vault Soil Samples											
PW-B01 @ 6'	11/4/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	RP	<0.00200	<0.00200
PW-N01 @ 5'	11/4/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	RP	<0.00200	<0.00200
PW-B02 @ 6'	11/4/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	RP	<0.00200	<0.00200
PW-S02 @ 5'	11/4/2024	<0.00200	<0.00200	<0.00200	<0.00200	0.490	<25.0	<100	RP	<0.00200	<0.00200

Notes:

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

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

ECMC = Energy & Carbon Management Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

RP = results pending (analyzed with PAHs)

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
CANEPA 6-21, 22, 24, 25 FACILITY
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)
ECMC standards for soil (mg/kg)⁽¹⁾			6 - 8.3	<6	<4	2
Background Limits			RP	RP	RP	RP
Tank Battery Soil Samples						
AST-B01 @ 3"	11/4/2024	0.25	RP	RP	RP	RP
AST-B03 @ 3"	11/4/2024	0.25	RP	RP	RP	RP
SEP-B01 @ 3"	11/4/2024	0.25	RP	RP	RP	RP
SEP-B02 @ 4'	11/4/2024	4	RP	RP	RP	RP
Produced Water Vault Soil Samples						
PW-B01 @ 6'	11/4/2024	6	RP	RP	RP	RP
PW-N01 @ 5'	11/4/2024	5	RP	RP	RP	RP
PW-B02 @ 6'	11/4/2024	6	RP	RP	RP	RP
PW-S02 @ 5'	11/4/2024	5	RP	RP	RP	RP
Background Soil Samples						
AST-BG01 @ 3"	11/4/2024	0.25	RP	RP	RP	RP
AST-BG02 @ 3"	11/4/2024	0.25	RP	RP	RP	RP
AST-BG03 @ 3"	11/4/2024	0.25	RP	RP	RP	RP
Canepa 6-15 Wellhead Background Soil Samples						
WH-BG01 @ 3'	11/4/2024	3	RP	RP	RP	RP
WH-BG01 @ 6'	11/4/2024	6	RP	RP	RP	RP
WH-BG02 @ 3'	11/4/2024	3	RP	RP	RP	RP
WH-BG02 @ 6'	11/4/2024	6	RP	RP	RP	RP
WH-BG03 @ 3'	11/4/2024	3	RP	RP	RP	RP
WH-BG03 @ 6'	11/4/2024	6	RP	RP	RP	RP
WH-BG04 @ 3'	11/4/2024	3	RP	RP	RP	RP
WH-BG04 @ 6'	11/4/2024	6	RP	RP	RP	RP

Notes:

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

ECMC = Energy & Carbon Management 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

RP = Results Pending

TABLE 4
CANEPA 6-21, 22, 24, 25 FACILITY
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)
<i>ECMC standards for soil (mg/kg)⁽¹⁾</i>		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
<i>ECMC standards for soil (mg/kg)⁽²⁾</i>		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
Tank Battery Soil Samples															
AST-B01 @ 3"	11/4/2024	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
AST-B03 @ 3"	11/4/2024	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
SEP-B01 @ 3"	11/4/2024	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
SEP-B02 @ 4"	11/4/2024	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
Produced Water Vault Soil Samples															
PW-B01 @ 6'	11/4/2024	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
PW-N01 @ 5'	11/4/2024	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
PW-B02 @ 6'	11/4/2024	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP
PW-S02 @ 5'	11/4/2024	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP	RP

Notes:

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

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

ECMC = Energy & Carbon Management Commission

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

mg/kg = milligrams per kilogram

PAH = Polycyclic Aromatic Hydrocarbons

RP = Results Pending

TABLE 5
CANEPA 6-21, 22, 24, 25 FACILITY
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)
<i>ECMC standards for soil (mg/kg) ⁽¹⁾</i>		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
<i>ECMC standards for soil (mg/kg) ⁽²⁾</i>		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
<i>Background Limits (x1.25 buffer applied)</i>		(@3"): 9.58 (@6"): 17.1	(@3"): 330	(@3"): 0.407	NA	25.8	18.1	24.7	0.598	NA	100
Tank Battery Soil Samples											
AST-B01 @ 3"	11/4/2024	3.75*	13.8	<0.0896	RP	<8.96	2.23	1.57	<0.233	<0.0896	<33.2
AST-B03 @ 3"	11/4/2024	2.54*	<8.53	<0.0853	RP	<8.53	1.54	1.58	<0.222	<0.0853	<31.6
SEP-B01 @ 3"	11/4/2024	2.79*	59.5	0.489	RP	<9.21	5.74	7.13	<0.240	<0.0921	53.3
SEP-B01 @ 3" (RERUN 1)	11/4/2024	NA	NA	RP	NA	NA	NA	NA	NA	NA	NA
SEP-B01 @ 3" (RERUN 2)	11/4/2024	NA	NA	RP	NA	NA	NA	NA	NA	NA	NA
SEP-B02 @ 4"	11/4/2024	6.12*	191*	0.201	RP	14.0	10.4	14.8	<0.235	<0.0902	53.6
Produced Water Valt Soil Samples											
PW-B01 @ 6"	11/4/2024	6.27*	195*	0.243	RP	14.6	11.1	16.1	<0.234	<0.0899	56.4
PW-N01 @ 5"	11/4/2024	6.46*	249*	0.218	RP	14.3	11.4	16.7	<0.252	<0.0967	55.9
PW-B02 @ 6"	11/4/2024	5.95*	207*	0.212	RP	13.0	10.1	14.6	<0.220	<0.0847	117
PW-S02 @ 5"	11/4/2024	4.94*	148*	0.166	RP	11.2	8.31	11.3	<0.222	<0.0855	42.6
Background Soil Samples											
AST-BG01 @ 3"	11/4/2024	7.67	213	0.326	RP	20.7	14.5	19.8	0.479	<0.0909	80.1
AST-BG02 @ 3"	11/4/2024	7.18	197	0.288	RP	18.8	13.4	18.6	0.430	<0.0893	77.2
AST-BG03 @ 3"	11/4/2024	7.30	200	0.296	RP	19.3	13.7	18.5	0.444	<0.0887	79.5
Canepa 6-15 Wellhead Background Soil Samples											
WH-BG01 @ 3'	11/4/2024	6.14	264	0.229	RP	13.7	10.4	14.8	<0.246	<0.0945	50.4
WH-BG01 @ 6'	11/4/2024	5.65	171	0.148	RP	10.1	8.77	11.9	<0.236	<0.0909	39.8
WH-BG02 @ 3'	11/4/2024	6.23	170	0.184	RP	11.4	10.3	13.9	<0.221	<0.0851	47.8
WH-BG02 @ 6'	11/4/2024	5.91	127	0.138	RP	12.2	9.57	13.0	<0.239	<0.0919	46.1
WH-BG03 @ 3'	11/4/2024	5.68	203	0.239	RP	13.6	10.5	14.9	<0.226	<0.0867	51.1
WH-BG03 @ 6'	11/4/2024	7.21	133	0.185	RP	12.5	11.2	14.5	<0.224	<0.0863	49.3
WH-BG04 @ 3'	11/4/2024	7.63	182	0.181	RP	13.5	11.5	15.4	<0.221	<0.0850	51.6
WH-BG04 @ 6'	11/4/2024	13.7	180	0.178	RP	<9.18	10.6	11.5	<0.239	<0.0918	<34.0

Notes:

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

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

ECMC = Energy & Carbon Management Commission

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

mg/kg = milligrams per kilogram

NA = Not Analyzed

RP = Results Pending

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

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