

TABLE 1
MCCOY, PHILLIP UNIT E 1A
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)
<i>Initial Wellhead Soil Samples</i>							
WH-B01 @ 6'	5/7/2025	6	1.6	N/S	N/O	40.14347284457858, -104.860223658855	Y
WH-RIS @ 4'	5/7/2025	4	12.2	N/S	Slight HC Odor	40.14345954867063, -104.860223795286	Y
WH-N01 @ 5'	5/7/2025	5	0.9	N/S	N/O	40.143480039152095, -104.860227726033	N
WH-S01 @ 5'	5/7/2025	5	18.5	N/S	Slight HC Odor	40.14346268244225, -104.86020881497	Y
WH-E01 @ 5'	5/7/2025	5	2.2	N/S	N/O	40.14348026559531, -104.860209555766	N
WH-W01 @ 5'	5/7/2025	5	35.4	N/S	Strong HC Odor	40.14346612444521, -104.860231527414	Y
WHS-N01 @ 3"	5/7/2025	0.25	0.4	N/S	N/O	40.14351407789779, -104.86022925394	N
WHS-S01 @ 3"	5/7/2025	0.25	0.9	N/S	N/O	40.14343208337067, -104.860205475071	N
WHS-E01 @ 3"	5/7/2025	0.25	1.6	N/S	N/O	40.1434837655137, -104.860179377291	N
WHS-W01 @ 3"	5/7/2025	0.25	1.1	N/S	N/O	40.14346547588708, -104.860276075452	N

Notes:

bgs = below ground surface
 PID = photoionization detector
 ppm-v = parts per million by volume
 HC = hydrocarbon
BOLD = ECMC Table 915-1 exceedance

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

TABLE 2
MCCOY, PHILLIP UNIT E 1A
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)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
<i>ECMC standards for soil (mg/kg)</i> ⁽¹⁾		0.0026	0.69	0.78	9.9	500			0.0081	0.0087
<i>ECMC standards for soil (mg/kg)</i> ⁽²⁾		1.2	490	5.8	58	500			30	27
Initial Wellhead Soil Samples										
WH-B01 @ 6'	5/7/2025	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	50.1	147	<0.00200	<0.00200
WH-RIS @ 4'	5/7/2025	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
WH-S01 @ 5'	5/7/2025	<0.00200	<0.00200	<0.00200	<0.00200	1.24	<25.0	<100	<0.00200	<0.00200
WH-W01 @ 5'	5/7/2025	<0.00200	<0.00200	<0.00200	<0.00200	0.215	44.8	104	<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

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
MCCOY, PHILLIP UNIT E 1A
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)
<i>ECMC standards for soil⁽¹⁾</i>			6 - 8.3	<6	<4	2
<i>Initial Wellhead Soil Samples</i>						
WH-B01 @ 6'	5/7/2025	6	8.94	1.36	0.517	<0.100
WH-RIS @ 4'	5/7/2025	4	8.27	0.0485	0.244	0.118
WH-S01 @ 5'	5/7/2025	5	8.59	0.780	0.592	0.185
WH-W01 @ 5'	5/7/2025	5	8.34	0.251	0.359	0.162

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 Adsorption Ratio

EC = Electrical Conductivity

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

TABLE 4
MCCOY, PHILLIP UNIT E 1A
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)	Naphthalene (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	0.0038	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	2	180
<i>Initial Wellhead Soil Samples</i>																
WH-B01 @ 6'	5/7/2025	0.003	0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.020
WH-RIS @ 4'	5/7/2025	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.020
WH-S01 @ 5'	5/7/2025	0.047	0.075	0.025	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.024	<0.020	0.007	<0.020
WH-W01 @ 5'	5/7/2025	0.016	0.020	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.002	<0.020

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

TABLE 5
MCCOY, PHILLIP UNIT E 1A
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>Initial Wellhead Soil Samples</i>											
WH-B01 @ 6'	5/7/2025	1.77	<73.1	<0.339	*<0.5	<41.0	<12.5	<23.2	<0.232	<0.714	<330
WH-RIS @ 4'	5/7/2025	2.63	76.9	<0.331	*<0.5	<40.1	<12.2	<22.7	<0.227	<0.697	<322
WH-S01 @ 5'	5/7/2025	3.69	77.3	<0.330	*<0.5	<40.0	<12.2	<22.6	<0.226	<0.696	<322
WH-W01 @ 5'	5/7/2025	3.51	<74.4	<0.345	*<0.5	<41.8	33.2	<23.6	<0.236	<0.726	<336

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

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

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