

TABLE 1
BINDER 10-28
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)
Wellhead Soil Samples							
WH-B01 @ 8'	1/19/24	8	5.2	N/S	N/O	40.3693834383504, -104.895608257163	Y
WH-N01 @ 7'	1/19/24	7	4.8	N/S	N/O	40.3693956673824, -104.89561371222	N
WH-S01 @ 7'	1/19/24	7	1.1	N/S	N/O	40.3693721224588, -104.895605705818	N
WH-E01 @ 7'	1/19/24	7	3.6	N/S	N/O	40.3693857853663, -104.895593598354	N
WH-W01 @ 7'	1/19/24	7	0.4	N/S	N/O	40.3693846805171, -104.895622047119	N
WHS-N01 @ 3"	1/19/24	0.25	0.8	N/S	N/O	40.3694170383466, -104.895619157156	N
WHS-S01 @ 3"	1/19/24	0.25	0.6	N/S	N/O	40.3693449383563, -104.895618157165	N
WHS-E01 @ 3"	1/19/24	0.25	0.8	N/S	N/O	40.3693942578437, -104.895554458827	N
WHS-W01 @ 3"	1/19/24	0.25	1.2	N/S	N/O	40.3693812361754, -104.895648685472	N
Flowline Soil Samples							
FL-B01 @ 6'	1/19/24	6	4.3	N/S	N/O	40.3693845383516, -104.895627357159	Y
FL-B02 @ 5'	1/22/24	5	0.5	N/S	N/O	40.3704778250759, -104.897217888468	Y
Wellhead Background Soil Samples							
WH-BG01 @ 3'	1/22/24	3	0.3	N/S	N/O	40.3694987893776, -104.895651509454	Y
WH-BG01 @ 6'	1/22/24	6	0.2	N/S	N/O	40.3694987893776, -104.895651509454	Y
WH-BG02 @ 3'	1/22/24	3	0.1	N/S	N/O	40.3694305068689, -104.895472868674	Y
WH-BG02 @ 6'	1/22/24	6	0.3	N/S	N/O	40.3694305068689, -104.895472868674	Y
WH-BG03 @ 3'	1/22/24	3	0.3	N/S	N/O	40.3692864695362, -104.89555246012	Y
WH-BG03 @ 6'	1/22/24	6	0.4	N/S	N/O	40.3692864695362, -104.89555246012	Y
WH-BG04 @ 3'	1/22/24	3	0.2	N/S	N/O	40.3693348379268, -104.895731223718	Y
WH-BG04 @ 6'	1/22/24	6	0.2	N/S	N/O	40.3693348379268, -104.895731223718	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
BINDER 10-28
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)
ECMC standards for soil (mg/kg) ⁽¹⁾		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
ECMC standards for soil (mg/kg) ⁽²⁾		1.2	490	5.8	58	500			2	30	27
Wellhead Soil Samples											
WH-B01 @ 8'	1/19/24	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
Flowline Soil Samples											
FL-B01 @ 6'	1/19/24	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
FL-B02 @ 5'	1/22/24	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<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 and 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
BINDER 10-28
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 (mg/kg) ⁽¹⁾</i>			6 - 8.3	<6	<4	2
<i>Site Specific Background Limits</i>			8.43	2.84	2.78	.274
Wellhead Soil Samples						
WH-B01 @ 8'	1/19/24	8	8.14	0.741	0.464	0.278
Flowline Soil Samples						
FL-B01 @ 6'	1/19/24	6	8.31*	1.29	0.305	0.219
FL-B02 @ 5'	1/22/24	5	8.03	0.323	0.195	<0.0999
Wellhead Background Soil Samples						
WH-BG01 @ 3'	1/22/24	3	8.18	1.97	1.46	0.184
WH-BG01 @ 6'	1/22/24	6	8.13	1.05	1.58	0.215
WH-BG02 @ 3'	1/22/24	3	8.40	2.46	0.695	0.199
WH-BG02 @ 6'	1/22/24	6	8.18	0.765	2.78	0.197
WH-BG03 @ 3'	1/22/24	3	8.40	0.794	0.484	0.182
WH-BG03 @ 6'	1/22/24	6	8.32	2.40	1.04	0.102
WH-BG04 @ 3'	1/22/24	3	8.43	2.45	0.654	0.274
WH-BG04 @ 6'	1/22/24	6	8.24	2.84	1.83	0.202

Notes:

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

ECMC = Energy and 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

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

TABLE 4
BINDER 10-28
SOIL VAPOR DATA SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Soil Vapor Point ID	Date	Time	Methane (%)	Carbon Dioxide (%)	Carbon Monoxide (PPM)	Oxygen (%)	Hydrogen Sulfide (PPM)	Sample Collected (Y or N)
SVP-01 @ 10'	1/22/2024	0900	0.0	0.4	1	20.8	1	N
SVP-02 @ 10'	1/22/2024	0902	0.0	0.5	1	20.8	1	N
SVP-03 @ 5'	1/22/2024	0905	0.0	1.1	0	20.5	1	N
SVP-04 @ 5'	1/22/2024	0908	0.0	0.9	0	20.6	1	N

% = percentage

ppm = parts per million