

# **TABLES**

**TABLE 1**  
**AGGREGATE STATE 24 22 25-9HZ O SA**  
**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)
<b>Soil Samples</b>							
<b>Initial Waste Characterization @ 3"</b>	<b>1/28/2025</b>	<b>0.25</b>	<b>9999</b>	<b>HC Staining</b>	<b>HC Odor</b>	<b>40.15079857882477, -104.778514993115</b>	<b>Y</b>
<b>SS-01 @ 10'</b>	<b>2/26/2025</b>	<b>10</b>	<b>491.5</b>	<b>N/S</b>	<b>HC Odor</b>	<b>40.1507801904939, -104.778529076596</b>	<b>Y</b>
SS-N01 @ 2'	2/26/2025	2	3.4	N/S	N/O	40.1508165082814, -104.778522929922	Y
SS-N01 @ 7'	2/26/2025	7	4.2	N/S	N/O	40.1508165082814, -104.778522929922	Y
SS-E01 @ 2'	2/26/2025	2	1.7	N/S	N/O	40.1508075839756, -104.778475332324	Y
SS-E01 @ 7'	2/26/2025	7	0.6	N/S	N/O	40.1508075839756, -104.778475332324	Y
SS-S02 @ 2'	2/26/2025	2	1.4	N/S	N/O	40.1507711525816, -104.778509276750	Y
SS-S01 @ 7'	2/26/2025	7	3.2	N/S	N/O	40.1507721968280, -104.778527163563	Y
SS-W01 @ 2'	2/26/2025	2	2.0	N/S	N/O	40.1507962454237, -104.778540675677	Y
SS-W01 @ 7'	2/26/2025	7	3.8	N/S	N/O	40.1507962454237, -104.778540675677	Y

**Notes:**

bgs = below ground surface

PID = photoionization detector

ppm-v = parts per million by volume

HC = hydrocarbon

**BOLD** = ECMC Table 915-1 exceedances remaining

N/S = No Staining

N/O = No Odor

**TABLE 2**  
**AGGREGATE STATE 24 22 25-9HZ O SA**  
**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)<sup>(1)</sup></i>		<b>0.0026</b>	<b>0.69</b>	<b>0.78</b>	<b>9.9</b>	<b>500</b>			<b>0.0038</b>	<b>0.0081</b>	<b>0.0087</b>
<i>ECMC standards for soil (mg/kg)<sup>(2)</sup></i>		<b>1.2</b>	<b>490</b>	<b>5.8</b>	<b>58</b>	<b>500</b>			<b>2</b>	<b>30</b>	<b>27</b>
<b>Soil Samples</b>											
Initial Waste Characterization @ 3"	1/28/2025	<b>2.71</b>	<b>49.7</b>	<b>15.0</b>	<b>190</b>	<b>5520</b>	<b>24000</b>	<b>5470</b>	<b>11.6</b>	<b>101</b>	<b>36.3</b>
SS-01 @ 10'	2/26/2025	<b>6.71</b>	<b>44.4</b>	<b>4.96</b>	<b>106</b>	<b>2180</b>	<b>393</b>	<b>&lt;100</b>	<b>0.510</b>	<b>24.5</b>	<b>7.21</b>
SS-N01 @ 2'	2/26/2025	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00354	<0.00200	<0.00200
SS-N01 @ 7'	2/26/2025	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00339	<0.00200	<0.00200
SS-E01 @ 2'	2/26/2025	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00348	<0.00200	<0.00200
SS-E01 @ 7'	2/26/2025	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00339	<0.00200	<0.00200
SS-S02 @ 2'	2/26/2025	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00348	<0.00200	<0.00200
SS-S01 @ 7'	2/26/2025	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00361	<0.00200	<0.00200
SS-W01 @ 2'	2/26/2025	0.00234	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00366	<0.00200	<0.00200
SS-W01 @ 7'	2/26/2025	0.00214	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00357	<0.00200	<0.00200

**Notes:**

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

<sup>(2)</sup> 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

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

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**  
**AGGREGATE STATE 24 22 25-9HZ O SA**  
**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) <sup>(1)</sup></i>			<b>6 - 8.3</b>	<b>&lt;6</b>	<b>&lt;4</b>	<b>2</b>
<b>Soil Samples</b>						
Initial Waste Characterization @ 3"	1/28/2025	0.25	8.14	0.864	0.611	0.329
SS-01 @ 10'	2/26/2025	10	7.90	0.694	0.128	<0.0991
SS-N01 @ 2'	2/26/2025	2	8.24	0.197	0.146	<0.0988
SS-N01 @ 7'	2/26/2025	7	7.92	0.352	0.103	<0.0982
SS-E01 @ 2'	2/26/2025	2	8.29	0.399	0.223	<0.102
SS-E01 @ 7'	2/26/2025	7	8.07	0.908	0.196	<0.0987
SS-S02 @ 2'	2/26/2025	2	7.63	0.282	0.188	<0.101
SS-S01 @ 7'	2/26/2025	7	<b>8.32</b>	0.722	0.251	0.131
SS-W01 @ 2'	2/26/2025	2	7.92	0.127	0.0906	<0.0991
SS-W01 @ 7'	2/26/2025	7	7.39	1.81	0.0822	<0.0986

**Notes:**

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

ECMC = Energy and Carbon Management Commission

ft. bgs = Feet below ground surface

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

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

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

**TABLE 4**  
**AGGREGATE STATE 24 22 25-9HZ O SA**  
**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)
<b>ECMC standards for soil (mg/kg) <sup>(1)</sup></b>		<b>0.006</b>	<b>0.019</b>	<b>0.55</b>	<b>5.8</b>	<b>0.011</b>	<b>0.24</b>	<b>0.3</b>	<b>2.9</b>	<b>9</b>	<b>0.096</b>	<b>8.9</b>	<b>0.54</b>	<b>0.98</b>	<b>1.3</b>
<b>ECMC standards for soil (mg/kg) <sup>(2)</sup></b>		<b>18</b>	<b>24</b>	<b>360</b>	<b>1,800</b>	<b>1.1</b>	<b>0.11</b>	<b>1.1</b>	<b>11</b>	<b>110</b>	<b>0.11</b>	<b>240</b>	<b>240</b>	<b>1.1</b>	<b>180</b>
<b>Soil Samples</b>															
Initial Waste Characterization @ 3"	1/28/2025	<b>17.9</b>	<b>43.9</b>	<0.200	<0.200	<0.050	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<b>2.74</b>	<0.200	<0.200
SS-01 @ 10'	2/26/2025	<b>0.664</b>	<b>1.74</b>	0.00945	<0.00350	<0.00350	<0.00350	<0.00350	<0.00350	<0.00350	<0.00350	0.00490	0.0710	<0.00350	0.00420
SS-N01 @ 2'	2/26/2025	<0.00354	<0.00354	<0.00354	<0.00354	<0.00354	<0.00354	<0.00354	<0.00354	<0.00354	<0.00354	<0.00354	<0.00354	<0.00354	<0.00354
SS-N01 @ 7'	2/26/2025	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339
SS-E01 @ 2'	2/26/2025	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348
SS-E01 @ 7'	2/26/2025	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339	<0.00339
SS-S02 @ 2'	2/26/2025	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348	<0.00348
SS-S01 @ 7'	2/26/2025	<0.00361	<0.00361	<0.00361	<0.00361	<0.00361	<0.00361	<0.00361	<0.00361	<0.00361	<0.00361	<0.00361	<0.00361	<0.00361	<0.00361
SS-W01 @ 2'	2/26/2025	<0.00366	<0.00366	<0.00366	<0.00366	<0.00366	<0.00366	<0.00366	<0.00366	<0.00366	<0.00366	<0.00366	<0.00366	<0.00366	<0.00366
SS-W01 @ 7'	2/26/2025	<0.00357	<0.00357	<0.00357	<0.00357	<0.00357	<0.00357	<0.00357	<0.00357	<0.00357	<0.00357	<0.00357	<0.00357	<0.00357	<0.00357

**Notes:**

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

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

ECMC = Energy & Carbon Management Commission

mg/kg = milligrams per kilogram

PAH = Polycyclic Aromatic Hydrocarbons

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

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

**TABLE 5**  
**AGGREGATE STATE 24 22 25-9HZ O SA**  
**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) <sup>(1)</sup></i>		<b>0.29</b>	<b>82</b>	<b>0.38</b>	<b>0.00067</b>	<b>46</b>	<b>14</b>	<b>26</b>	<b>0.26</b>	<b>0.8</b>	<b>370</b>
<i>ECMC standards for soil (mg/kg) <sup>(2)</sup></i>		<b>0.68</b>	<b>15,000</b>	<b>71</b>	<b>0.3</b>	<b>3,100</b>	<b>400</b>	<b>1,500</b>	<b>390</b>	<b>390</b>	<b>23,000</b>
<b>Soil Samples</b>											
Initial Waste Characterization @ 3"	11/5/2024	<b>2.29</b>	47.0	<0.0919	*<0.20	<9.19	4.35	6.76	<0.239	<0.0919	<34.0
SS-01 @ 10'	2/26/2025	<b>1.24</b>	31.7	<0.0901	*<0.239	<9.01	2.42	2.24	<0.234	<0.0901	<33.4
SS-N01 @ 2'	2/26/2025	<b>2.13</b>	46.5	<0.0983	*<0.256	<9.83	6.41	4.66	<0.256	<0.0983	<36.4
SS-N01 @ 7'	2/26/2025	<b>2.35</b>	39.8	<0.0848	*<0.283	<8.48	3.38	2.96	<0.220	<0.0848	<31.4
SS-E01 @ 2'	2/26/2025	<b>2.88</b>	49.0	<0.0891	*<0.263	<8.91	4.95	4.79	<0.232	<0.0891	<33.0
SS-E01 @ 7'	2/26/2025	<b>3.60</b>	44.3	0.114	*<0.270	<9.74	4.71	4.35	<0.253	<0.0974	<36.1
SS-S02 @ 2'	2/26/2025	<b>1.92</b>	42.1	<0.0891	*<0.313	<8.91	3.97	3.78	<0.232	<0.0891	<33.0
SS-S01 @ 7'	2/26/2025	<b>2.71</b>	41.8	<0.0851	*<0.265	<8.51	5.17	4.44	<0.221	<0.0851	<31.5
SS-W01 @ 2'	2/26/2025	<b>1.84</b>	38.6	<0.0967	*<0.274	<9.67	3.35	3.24	<0.251	<0.0967	<35.8
SS-W01 @ 7'	2/26/2025	<b>2.28</b>	45.7	<0.0893	*<0.313	<8.93	3.84	3.45	<0.232	<0.0893	<33.1

**Notes:**

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

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

ECMC = Energy and Carbon Management Commission

mg/kg = milligrams per kilogram

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

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

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

