

TABLE 1  
 SOIL SAMPLE FIELD DATA SUMMARY TABLE  
 GOODIN 15N 15N 16N 16N-B6HZ FACILITY  
 WELD COUNTY, COLORADO  
 KERR-MCGEE OIL AND GAS ONSHORE, LP



				Observations				
Sample ID	Approx. Depth (ft bgs)	Date	PID (ppm-v)	Visual (Y/N)	Olfactory (Y/N)	Lab (Y/N)	Lat	Long
<b>Release Location Sample</b>								
SS01	0.25	7/10/2024	NA	Y	Y	Y	40.059217	<b>-104.702265000</b>
<b>Background Sample</b>								
BG01	0.25	7/10/2024	NA	N	N	Y	40.0596510319	-104.702046

**Notes:**

bgs= below ground surface

PID = photoionization detector

ppm-v = parts per million by volume

**BOLD** = exceeds ECMC Table 915-1

TABLE 2  
 SOIL SAMPLE ANALYTICAL RESULTS SUMMARY - VOCs  
 GOODIN 15N 15N 16N 16N-B6HZ FACILITY  
 WELD COUNTY, COLORADO  
 KERR-MCGEE OIL AND GAS ONSHORE, LP



Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO* (mg/kg)	TPH-DRO* (mg/kg)	TPH-RRO* (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	1,2,4-Trimethyl benzene (mg/kg)	1,3,5-Trimethyl benzene (mg/kg)	Naphthalene (mg/kg)
<b>GSSL (1)</b>			<b>500</b>			<b>0.0026</b>	<b>0.69</b>	<b>0.78</b>	<b>9.9</b>	<b>0.0081</b>	<b>0.0087</b>	<b>0.0038</b>
<b>RSSL (2)</b>			<b>500</b>			<b>1.2</b>	<b>490</b>	<b>5.8</b>	<b>9.9</b>	<b>30</b>	<b>27</b>	<b>2</b>
<b>RELEASE LOCATION SAMPLE</b>												
SS01	7/10/2024	0.25	<b>2380</b>	<b>9420</b>	<b>2620</b>	<b>0.330</b>	<b>6.56</b>	<b>2.85</b>	<b>26.1</b>	<b>37.4</b>	<b>5.93</b>	<b>6.46</b>

**Notes:**

ECMC - Energy and Carbon Management Commission

(1) Standards for soil are taken from ECMC Table 915-1 Organic Compounds in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

(2) Standards for soil are taken from ECMC Table 915-1 Organic Compounds in Soils - Residential Soil Screening Level Concentrations (Effective January 15, 2021)

TPH - total petroleum hydrocarbons

GRO - gasoline range organics

DRO - diesel range organics

RRO - residual range organics

\*Allowable level for TPH is 500 mg/kg for combined GRO, DRO, ORO

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

**Bold** - exceeds ECMC Table 915-1 allowable level and background

TABLE 3  
 SOIL SAMPLE ANALYTICAL RESULTS SUMMARY  
 GOODIN 15N 15N 16N 16N-B6HZ FACILITY  
 BERNHARD 4-23A WELLHEAD  
 WELD COUNTY, COLORADO  
 KERR-MCGEE OIL AND GAS ONSHORE, LP



Soil Sample Location	Date Sampled	Depth	Boron (mg/L)	pH	SAR	EC (mmhos/com)
ECMC Soil Suitability for Reclamation <sup>(1)</sup>			2	6-8.3	<6	<4
<b>RELEASE LOCATION SAMPLE</b>						
<b>Max Bkg.</b>			<b>0.448</b>	<b>8.20</b>	<b>0.280</b>	<b>0.600</b>
SS01	7/10/2024	0.25	<0.0997	7.04	0.658	0.270
<b>BACKGROUND SAMPLE</b>						
BG01	7/10/2024	0.25	0.448	8.20	0.280	0.600

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 minimum detection limit

mg/L = milligrams per liter

TABLE 4  
 GOODIN 15N 15N 16N 16N-B6HZ 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)
GSSL (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
RSSL (1)		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
<b>WELLHEAD</b>															
SS01	7/10/2024	19.1	33.7	3.87	<0.200	<0.50	<0.200	<0.200	<0.200	0.457	<0.200	<0.200	4.40	<0.200	0.225

**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

(<) = 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  
 SOIL SAMPLE ANALYTICAL RESULTS SUMMARY TABLE - METALS  
 GOODIN 15N 15N 16N 16N-B6HZ FACILITY  
 WELD COUNTY, COLORADO  
 KERR-MCGEE OIL AND GAS ONSHORE, LP



Soil Sample Location	Date Sampled	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Chromium VI (mg/kg)
GSSL (1)			0.29	82	0.38	46	14	26	0.26	0.8	370	0.000067
RSSL (2)			0.68	15000	71	3100	400	1500	390	390	23000	0.3
Max Bkg x 1.25			5.012	12625	1.147	NA	NA	NA	1.37	NA	NA	NA
<b>WELLHEAD</b>												
SS01	7/10/2024	0.25	2.34	151	<0.0958	<9.58	5.01	5.24	<0.249	<0.0958	<35.5	<0.130
<b>BACKGROUND SAMPLE</b>												
BG01	7/10/2024	0.25	4.01	10100	0.918	11.3	8.02	12.2	1.10	<0.0877	65.1	<0.174

1. Standards for soil are taken from ECMC Table 915-1: Metals in Soils - Protection of Groundwater Soil Screening Level Concentrations (Effective January 15, 2021)

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

ECMC = Energy and Carbon Management Commission

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

mg/kg = milligrams per kilogram

Blue highlight: Highest background concentration x 1.25