

**TABLE 1**  
**SOIL SAMPLE FIELD DATA SUMMARY TABLE**  
**MADRIGAL 2-22 WELLHEAD**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
<b>WELLHEAD EXCAVATION SAMPLES</b>								
B01(2-22)@6'	9/11/2024	6	3.3	NS	NO	40.034048	-104.766858	Y
WH01-RISER(2-22)@3'	9/11/2024	3	3.3	NS	NO	40.034047	-104.766843	Y
N Wall	9/11/2024	3	2.6	NS	NO	40.034048	-104.766856	N
E Wall	9/11/2024	3	3.3	NS	NO	40.034039	-104.766845	N
S Wall	9/11/2024	3	0.8	NS	NO	40.034027	-104.766844	N
W Wall	9/11/2024	3	2.4	NS	NO	40.034031	-104.766856	N
FS01	9/11/2024	0.5	1.1	NS	NO	40.034093	-104.766905	N
FS02	9/11/2024	0.5	1.1	NS	NO	40.034069	-104.766784	N
FS03	9/11/2024	0.5	1.6	NS	NO	40.033982	-104.766807	N
FS04	9/11/2024	0.5	1.0	NS	NO	40.034017	-104.766901	N
<b>SEPARATOR RISER SAMPLES</b>								
SEP01-RISER(2-22)@3'	9/27/2024	3	1.0	NS	NO	40.040654	-104.768313	Y
<b>FLOWLINE POTHOLE SAMPLES</b>								
PH01	9/25/2024	4	0.4	NS	NO	40.034237	-104.766648	N
PH02	9/25/2024	5	0.4	NS	NO	40.034828	-104.766725	N
PH03	9/25/2024	5	0.5	NS	NO	40.035418	-104.766877	N
PH04	10/4/2024	5	0.0	NS	NO	40.036848	-104.767229	N
PH05	10/4/2024	5	0.0	NS	NO	40.037120	-104.767315	N
PH06	10/4/2024	5	0.0	NS	NO	40.037384	-104.767388	N
PH07	10/4/2024	5	0.0	NS	NO	40.037635	-104.767431	N
PH08	10/4/2024	5	0.0	NS	NO	40.037905	-104.767503	N
PH09	10/4/2024	5	0.0	NS	NO	40.038168	-104.767562	N
PH10	10/4/2024	5	0.0	NS	NO	40.038463	-104.767633	N
PH11	10/4/2024	5	0.0	NS	NO	40.038692	-104.767693	N
FL01(2-22)@5'	10/4/2024	5	0.0	NS	NO	40.039132	-104.767801	Y
FL02(2-22)@6'	10/4/2024	6	2.3	NS	NO	40.040189	-104.768289	Y
PH14	10/4/2024	5	0.0	NS	NO	40.040318	-104.768337	N
FL03(2-22)@5'	11/1/2024	5	0.0	NS	NO	40.034297	-104.766623	Y
PH15	11/1/2024	5	0.0	NS	NO	40.035143	-104.766814	N
PH16	11/1/2024	5	0.0	NS	NO	40.035680	-104.766953	N
PH17	11/1/2024	5	0.0	NS	NO	40.035967	-104.767005	N
PH18	11/1/2024	5	0.0	NS	NO	40.036241	-104.767067	N
PH19	11/1/2024	5	0.0	NS	NO	40.036508	-104.767137	N
<b>BACKGROUND SOIL SAMPLES</b>								
NATIVE-BG01@3'	9/11/2024	3	0.5	NS	NO	40.034203	-104.766951	Y
NATIVE-BG01@6'	9/11/2024	6	1.6	NS	NO	40.034203	-104.766951	Y
NATIVE-BG02@3'	9/11/2024	3	1.5	NS	NO	40.034237	-104.766809	Y

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**MADRIGAL 2-22 WELLHEAD**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
<b>BACKGROUND SOIL SAMPLES</b>								
NATIVE-BG02@6'	9/11/2024	6	2.6	NS	NO	40.034237	-104.766809	Y
NATIVE-BG03@3'	9/11/2024	3	2.7	NS	NO	40.034102	-104.766667	Y
NATIVE-BG03@6'	9/11/2024	6	1.5	NS	NO	40.034102	-104.766667	Y
NATIVE-BG04@3'	9/11/2024	3	5.0	NS	NO	40.033872	-104.766811	Y
NATIVE-BG04@6'	9/11/2024	6	1.6	NS	NO	40.033872	-104.766811	Y
NATIVE-BG05@3'	9/11/2024	3	2.8	NS	NO	40.033877	-104.767028	Y
NATIVE-BG05@6'	9/11/2024	6	3.9	NS	NO	40.033877	-104.767028	Y
NATIVE-BG06@3'	9/11/2024	3	1.3	NS	NO	40.034125	-104.767011	Y
NATIVE-BG06@6'	9/11/2024	6	2.0	NS	NO	40.034125	-104.767011	Y

**Notes:**

ft. - feet  
bgs - below ground surface  
PID - Photoionization detector  
ppm - parts per million  
ppm - parts per million

NS - No Staining  
NO - No Odor  
NA - Not Analyzed/Not Applicable

Shaded Rows are Samples that have been over excavated

Verification sample results have been omitted from the summary table due to updated ECMC instructions. All verification sample results are included in the attached laboratory analytical reports.

**TABLE 2-1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS**  
**MADRIGAL 2-22 WELLHEAD**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample ID	Date	Depth (ft. bgs)	TPH-GRO <sup>+</sup> (mg/kg)	TPH-DRO <sup>+</sup> (mg/kg)	TPH-RRO <sup>+</sup> (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)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
<b>WELLHEAD EXCAVATION SAMPLES</b>												
<b>B01(2-22)@6'</b>	9/11/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
<b>WH01-RISER(2-22)@3'</b>	9/11/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
<b>SEPARATOR RISER SAMPLES</b>												
<b>SEP01-RISER(2-22)@3'</b>	9/27/2024	3	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
<b>FLOWLINE POTHOLE SAMPLES</b>												
<b>FL01(2-22)@5'</b>	10/4/2024	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
<b>FL02(2-22)@6'</b>	10/4/2024	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
<b>FL03(2-22)@5'</b>	11/1/2024	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002

**Notes:**

ECMC - Energy and Carbon Management Commission

PGSSLs - Protection of Groundwater Soil Screening Level Concentrations

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

Verification samples that did not contain these analyses are not included in this table.

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

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

Shaded Rows are Samples that have been over excavated

**TABLE 2-2**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**POLYCYCLIC AROMATIC HYDROCARBONS**  
**MADRIGAL 2-22 WELLHEAD**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample ID	Date	Depth (ft. bgs)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) anthracene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Benzo (a) pyrene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	1-Methyl naphthalene (mg/kg)	2-Methyl naphthalene (mg/kg)	Pyrene (mg/kg)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3
<b>WELLHEAD EXCAVATION SAMPLES</b>																
<b>B01(2-22)@6'</b>	9/11/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
<b>WH01-RISER(2-22)@3'</b>	9/11/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
<b>SEPARATOR RISER SAMPLES</b>																
<b>SEP01-RISER(2-22)@3'</b>	9/27/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
<b>FLOWLINE POTHOLE SAMPLES</b>																
<b>FL01(2-22)@5'</b>	10/4/2024	5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
<b>FL02(2-22)@6'</b>	10/4/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	<0.020
<b>FL03(2-22)@5'</b>	11/1/2024	5	<0.020	<0.020	<b>0.023</b>	<0.020	<0.020	<0.020	0.023	<0.020	0.073	<0.020	<0.020	<0.002	<0.002	0.059

**Notes:**

ECMC - Energy and Carbon Management Commission

PGSSLs - Protection of Groundwater Soil Screening Level Concentrations

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

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

Verification samples that did not contain these analyses are not included in this table.

Shaded Rows are Samples that have been over excavated

**TABLE 2-3  
SOIL SAMPLE ANALYTICAL RESULTS  
SOIL SUITABILITY FOR RECLAMATION  
MADRIGAL 2-22 WELLHEAD  
WELD COUNTY, COLORADO  
KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample ID	Date	Depth (ft. bgs)	EC (mmhos/cm)	SAR	pH	Boron (mg/L)
ECMC Table 915-1 Cleanup Concentrations			4	6	6-8.3	2
Site-Specific Background Limits			15.8	2.83	8.30	1.46
<b>WELLHEAD EXCAVATION SAMPLES</b>						
<b>B01(2-22)@6'</b>	9/11/2024	6	1.04	1.60	8.22	0.503
<b>B01(2-22)@6'-V</b>	9/11/2024	6	NA	NA	<b>8.36</b>	NA
<b>WH01-RISER(2-22)@3'</b>	9/11/2024	3	0.719	1.34	8.15	0.427
<b>WH01-RISER(2-22)@3'-V</b>	9/11/2024	3	NA	NA	<b>8.34</b>	NA
<b>SEPARATOR RISER SAMPLES</b>						
<b>SEP01-RISER(2-22)@3'</b>	9/27/2024	3	0.662	0.619	8.12	0.111
<b>FLOWLINE POTHOLE SAMPLES</b>						
<b>FL01(2-22)@5'</b>	10/4/2024	5	0.267	0.113	8.01	<0.101
<b>FL02(2-22)@6'</b>	10/4/2024	6	1.55	<b>6.61</b>	8.16	0.489
<b>FL03(2-22)@5'</b>	11/1/2024	5	0.276	0.0820	8.10	0.111
<b>BACKGROUND SOIL SAMPLES</b>						
<b>NATIVE-BG01@3'</b>	9/11/2024	3	3.23	1.85	8.04	0.341
<b>NATIVE-BG01@6'</b>	9/11/2024	6	1.25	2.83	8.20	0.279
<b>NATIVE-BG02@3'</b>	9/11/2024	3	0.520	1.29	8.30	0.242
<b>NATIVE-BG02@6'</b>	9/11/2024	6	1.47	2.53	8.12	0.478
<b>NATIVE-BG03@3'</b>	9/11/2024	3	1.78	2.24	8.20	0.713
<b>NATIVE-BG03@6'</b>	9/11/2024	6	1.02	2.81	8.16	0.592
<b>NATIVE-BG04@3'</b>	9/11/2024	3	3.75	1.75	8.05	1.46
<b>NATIVE-BG04@6'</b>	9/11/2024	6	3.10	1.69	7.97	0.730
<b>NATIVE-BG05@3'</b>	9/11/2024	3	15.8	2.12	7.88	0.963
<b>NATIVE-BG05@6'</b>	9/11/2024	6	2.38	1.73	8.28	0.266
<b>NATIVE-BG06@3'</b>	9/11/2024	3	6.01	1.57	8.16	0.751
<b>NATIVE-BG06@6'</b>	9/11/2024	6	6.06	1.87	8.26	0.422

**Notes:**

ECMC - Energy and Carbon Management Commission

EC - electrical conductivity

SAR - sodium adsorption ratio

< - less than laboratory reporting limit

-V - verification sample collected in separate bottles

NA - Not Analyzed/Not Applicable

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

\*Exceeds Table 915-1 allowable level but within background

If site-specific backgrounds are less than cleanup concentrations, then cleanup concentration values will be applied.

Shaded Rows are Samples that have been over excavated

Verification sample results have been omitted from the summary table due to updated ECMC instructions.

All verification sample results are included in the attached laboratory analytical reports.

ft - feet

bgs - below ground surface

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

**TABLE 2-4  
SOIL SAMPLE ANALYTICAL RESULTS  
METALS  
MADRIGAL 2-22 WELLHEAD  
WELD COUNTY, COLORADO  
KERR-MCGEE OIL AND GAS ONSHORE, LP**

Soil Sample ID	Date	Depth (ft. bgs)	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)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
Site-Specific Background Limits <sup>^</sup>			6.24	171	0.230	NA	17.1	15.6	19.5	NA	NA	72.8
<b>WELLHEAD EXCAVATION SAMPLES</b>												
<b>B01(2-22)@6'</b>	9/11/2024	6	4.64*	121*	0.146	<0.489	<9.70	8.14	10.9	<0.252	<0.0970	36.4
<b>WH01-RISER(2-22)@3'</b>	9/11/2024	3	1.56*	55.6	<0.0919	<0.495	<9.19	4.10	3.91	<0.239	<0.0919	<34.0
<b>SEPARATOR RISER SAMPLES</b>												
<b>SEP01-RISER(2-22)@3'</b>	9/27/2024	3	2.70*	70.8	0.157	<0.306	<9.10	6.68	5.84	<0.237	<0.0910	<33.7
<b>FLOWLINE POTHOLE SAMPLES</b>												
<b>FL01(2-22)@5'</b>	10/4/2024	5	2.18*	60.1	<0.0891	<0.238	<8.91	4.84	5.03	<0.232	<0.0891	<33.0
<b>FL02(2-22)@6'</b>	10/4/2024	6	2.53*	76.1	0.120	<0.346	<8.83	7.00	6.62	<0.230	<0.0883	<32.7
<b>FL03(2-22)@5'</b>	11/1/2024	5	3.64*	56.5	0.112	<0.292	<8.40	7.40	5.81	<0.218	<0.0840	<31.1
<b>BACKGROUND SOIL SAMPLES</b>												
<b>NATIVE-BG01@3'</b>	9/11/2024	3	1.18	32.4	<0.0881	<0.311	<8.81	4.38	2.48	<0.229	<0.0881	<32.6
<b>NATIVE-BG01@6'</b>	9/11/2024	6	0.955	30.2	<0.0889	<0.320	<8.89	2.75	2.41	<0.231	<0.0889	<32.9
<b>NATIVE-BG02@3'</b>	9/11/2024	3	1.15	30.4	<0.0920	<0.293	<9.20	3.41	2.55	<0.239	<0.0920	<34.0
<b>NATIVE-BG02@6'</b>	9/11/2024	6	1.39	39.1	<0.0950	<0.330	<9.50	3.89	3.09	<0.247	<0.0950	<35.2
<b>NATIVE-BG03@3'</b>	9/11/2024	3	1.02	54.7	<0.0864	<0.318	<8.64	3.70	3.32	<0.225	<0.0864	<32.0
<b>NATIVE-BG03@6'</b>	9/11/2024	6	1.77	37.8	0.108	<0.418	<9.13	7.36	3.34	<0.237	<0.0913	<33.8
<b>NATIVE-BG04@3'</b>	9/11/2024	3	1.46	41.1	<0.0914	<0.452	<9.14	3.55	3.46	<0.238	<0.0914	<33.8
<b>NATIVE-BG04@6'</b>	9/11/2024	6	1.38	35.1	<0.0892	<0.437	<8.92	6.99	3.33	<0.232	<0.0892	<33.0
<b>NATIVE-BG05@3'</b>	9/11/2024	3	1.53	36.7	<0.0906	<0.400	<9.06	3.81	3.47	<0.236	<0.0906	<33.5
<b>NATIVE-BG05@6'</b>	9/11/2024	6	4.49	73.3	0.154	<0.278	13.3	12.5	15.3	<0.224	<0.0863	58.2
<b>NATIVE-BG06@3'</b>	9/11/2024	3	4.99	137	0.184	<0.388	13.7	11.1	15.6	<0.248	<0.0953	53.9
<b>NATIVE-BG06@6'</b>	9/11/2024	6	1.34	43.0	<0.0903	<0.406	<9.03	4.38	5.85	<0.235	<0.0903	<33.4

**Notes:**

ECMC - Energy and Carbon Management Commission

PGSSLs - Protection of Groundwater Soil Screening Level Concentrations

ft - feet

bgs - below ground surface

mg/kg - milligrams per kilogram

< - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

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

\*Exceeds Table 915-1 allowable level but within background

<sup>^</sup> - site-specific background is shown as 1.25x maximum background to account for analytical variability

If site-specific backgrounds are less than cleanup concentrations, then cleanup concentration values will be applied.

Shaded Rows are Samples that have been over excavated

Verification samples that did not contain these analyses are not included in this table.