

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
HART-MEMCO 1-22 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)
WELLHEAD EXCAVATION SAMPLES								
N Wall	5/2/2024	4	1.0	NS	NO	40.303573	-104.983281	N
E Wall/WH01-RISER@4'	5/2/2024	4	0.5	NS	NO	40.303567	-104.98327	Y
WH01-RISER@4'-V	5/2/2024	4	0.5	NS	NO	40.303567	-104.98327	Y
S Wall	5/2/2024	4	0.6	NS	NO	40.303542	-104.98328	N
W Wall	5/2/2024	3	0.8	NS	NO	40.303558	-104.983304	N
B01@7'	5/2/2024	7	0.2	NS	NO	40.30356	-104.983283	Y
B01@7'-V	5/2/2024	7	0.2	NS	NO	40.30356	-104.983283	Y
FS01	5/2/2024	0.5	0.0	NS	NO	40.303582	-104.983285	N
FS02	5/2/2024	0.5	0.0	NS	NO	40.303558	-104.983235	N
FS03	5/2/2024	0.5	0.0	NS	NO	40.303524	-104.983282	N
FS04	5/2/2024	0.5	0.1	NS	NO	40.303551	-104.983336	N
FLOWLINE POTHOLE SAMPLES								
PH01	6/12/2024	3	1.8	NS	NO	40.303572	-104.982501	N
PH02	6/12/2024	3	1.3	NS	NO	40.303586	-104.982961	N
FL01@4'	9/12/2024	4	0.7	NS	NO	40.3035953	-104.9820223	Y
SEPARATOR RISER SAMPLES								
SEP01-RISER@4'	6/10/2024	4	0.0	NS	NO	40.303566	-104.981997	Y
BACKGROUND SOIL SAMPLES								
NATIVE-BG01@3'	5/2/2024	3	0.6	NS	NO	40.303686	-104.983288	Y
NATIVE-BG01@6'	5/2/2024	6	0.8	NS	NO	40.303686	-104.983288	Y
NATIVE-BG02@3'	5/2/2024	3	1.2	NS	NO	40.30359	-104.98318	Y
NATIVE-BG02@6'	5/2/2024	6	0.5	NS	NO	40.30359	-104.98318	Y
NATIVE-BG03@3'	5/2/2024	3	0.0	NS	NO	40.303526	-104.98318	Y
NATIVE-BG03@6'	5/2/2024	6	0.1	NS	NO	40.303526	-104.98318	Y
NATIVE-BG04@3'	5/2/2024	3	0.1	NS	NO	40.303487	-104.983278	Y
NATIVE-BG04@6'	5/2/2024	6	0.4	NS	NO	40.303487	-104.983278	Y
NATIVE-BG05@3'	5/2/2024	3	1.2	NS	NO	40.303512	-104.983372	Y
NATIVE-BG05@6'	5/2/2024	6	0.7	NS	NO	40.303512	-104.983372	Y
NATIVE-BG06@3'	5/2/2024	3	0.5	NS	NO	40.303588	-104.983389	Y
NATIVE-BG06@6'	5/2/2024	6	0.2	NS	NO	40.303588	-104.983389	Y

Notes:

ft. - feet

bgs - below ground surface

PID - Photoionization detector

ppm - parts per million

NS - No Staining

NO - No Odor

NA - Not Analyzed/Not Applicable

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
HART-MEMCO 1-22 WELLHEAD
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)
ECMC Table 915-1 Cleanup Concentrations (PGSSLs)			500			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
WELLHEAD EXCAVATION SAMPLES												
WH01-RISER@4'	5/2/2024	4	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
WH01-RISER@4'-V	5/2/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B01@7'	5/2/2024	7	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002
B01@7'-V	5/2/2024	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES												
SEP01-RISER@4'	6/10/2024	4	<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

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

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
HART-MEMCO 1-22 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
WELLHEAD EXCAVATION SAMPLES																
WH01-RISER@4'	5/2/2024	4	<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
WH01-RISER@4'-V	5/2/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B01@7'	5/2/2024	7	<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
B01@7'-V	5/2/2024	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES																
SEP01-RISER@4'	6/10/2024	4	<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

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

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
HART-MEMCO 1-22 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			1.15	2.79	8.52	0.748
WELLHEAD EXCAVATION SAMPLES						
WH01-RISER@4'	5/2/2024	4	0.506	2.29	8.22	0.583
WH01-RISER@4'-V	5/2/2024	4	NA	NA	8.53	NA
B01@7'	5/2/2024	7	0.685	4.57	9.29	0.560
B01@7'-V	5/2/2024	7	NA	NA	8.29	NA
SEPARATOR RISER SAMPLES						
SEP01-RISER@4'	6/10/2024	4	0.296	0.147	8.48*	0.369
BACKGROUND SAMPLES						
NATIVE-BG01@3'	5/2/2024	3	0.391	1.10	8.29	0.683
NATIVE-BG01@6'	5/2/2024	6	0.404	1.48	8.44	0.409
NATIVE-BG02@3'	5/2/2024	3	0.408	0.610	8.30	0.608
NATIVE-BG02@6'	5/2/2024	6	0.672	0.699	8.14	0.654
NATIVE-BG03@3'	5/2/2024	3	1.07	1.46	8.13	0.609
NATIVE-BG03@6'	5/2/2024	6	0.922	2.07	8.24	0.600
NATIVE-BG04@3'	5/2/2024	3	0.408	1.00	8.33	0.517
NATIVE-BG04@6'	5/2/2024	6	1.08	2.33	8.27	0.606
NATIVE-BG05@3'	5/2/2024	3	1.15	1.63	8.21	0.720
NATIVE-BG05@6'	5/2/2024	6	0.989	2.79	8.45	0.748
NATIVE-BG06@3'	5/2/2024	3	0.402	0.516	8.52	0.534
NATIVE-BG06@6'	5/2/2024	6	0.511	0.926	8.41	0.233

Notes:

ECMC - Energy and Carbon Management Commission

EC - electrical conductivity

SAR - sodium adsorption ratio

< - 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

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

ft - feet

bgs - below ground surface

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
HART-MEMCO 1-22 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			5.54	214	0.398	0	16.3	13.9	24.4	0.35	0	70.7
WELLHEAD EXCAVATION SAMPLES												
WH01-RISER@4'	5/2/2024	4	4.43*	173*	0.245	<0.393	15.3	12.9	16.7	<0.232	<0.0890	66.9
WH01-RISER@4'-V	5/2/2024	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B01@7'	5/2/2024	7	4.28*	155*	0.265	<0.260	12.4	11.1	17.3	<0.222	<0.0855	60.2
B01@7'-V	5/2/2024	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR RISER SAMPLES												
SEP01-RISER@4'	6/10/2024	4	4.02*	160*	0.303	<0.432	13.9	11.5	15.6	0.343*	<0.0941	58.2
BACKGROUND SAMPLES												
NATIVE-BG01@3'	5/2/2024	3	4.79	184	0.341	<0.363	16.0	10.9	18.7	0.262	<0.0922	64.8
NATIVE-BG01@6'	5/2/2024	6	3.44	117	0.211	<0.415	<9.80	8.17	13.6	<0.255	<0.0980	48.5
NATIVE-BG02@3'	5/2/2024	3	5.08	172	0.333	<0.371	14.7	10.7	17.3	0.330	<0.0977	62.1
NATIVE-BG02@6'	5/2/2024	6	5.02	162	0.398	<0.416	15.4	13.9	18.2	0.350	<0.0905	70.7
NATIVE-BG03@3'	5/2/2024	3	4.51	185	0.320	<0.366	12.2	9.65	15.0	<0.229	<0.0881	54.2
NATIVE-BG03@6'	5/2/2024	6	5.54	214	0.351	<0.418	15.4	11.4	24.4	0.232	<0.0859	66.7
NATIVE-BG04@3'	5/2/2024	3	4.81	171	0.345	<0.428	16.3	11.8	19.2	<0.247	<0.0950	69.7
NATIVE-BG04@6'	5/2/2024	6	4.03	142	0.287	<0.407	12.7	10.3	0.8	<0.228	<0.0879	59.5
NATIVE-BG05@3'	5/2/2024	3	4.56	162	0.387	<0.325	14.4	10.6	17.8	<0.256	<0.0985	60.8
NATIVE-BG05@6'	5/2/2024	6	3.88	137	0.174	<0.483	11.0	9.14	14.6	<0.230	<0.0884	58.0
NATIVE-BG06@3'	5/2/2024	3	4.07	145	0.227	<0.368	13.5	9.08	15.7	0.299	<0.0922	55.9
NATIVE-BG06@6'	5/2/2024	6	3.87	137	0.248	<0.395	10.8	9.36	14.9	<0.248	<0.0953	51.2

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

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