

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
PALOMBO 23-4L 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	1/28/2025	3	0.1	NS	NO	40.21616	-104.865051	N
E WALL	1/28/2025	3	0.0	NS	NO	40.216153	-104.865044	N
W WALL	1/28/2025	3	0.0	NS	NO	40.216147	-104.865051	N
S WALL	1/28/2025	3	0.0	NS	NO	40.216154	-104.865061	N
B01(23-4L)@6'	1/28/2025	6	3.7	NS	NO	40.216154	-104.865054	Y
B01(23-4L)@6'-V	1/28/2025	6	3.7	NS	NO	40.216154	-104.865054	Y
FS01	1/28/2025	0.5	2.4	NS	NO	40.216241	-104.865025	N
FS02	1/28/2025	0.5	1.3	NS	NO	40.216144	-104.864972	N
FS03	1/28/2025	0.5	2.5	NS	NO	40.216112	-104.865109	N
FS04	1/28/2025	0.5	0.2	NS	NO	40.216156	-104.865119	N
WH01(23-4L)@4'	2/24/2025	4	2.0	NS	NO	40.2161533	-104.8650619	Y
WH01(23-4L)@4'-V	2/24/2025	4	2.0	NS	NO	40.2161533	-104.8650619	Y
FLOWLINE POTHOLE SAMPLES								
PH02(23-4L)@4'	2/24/2025	4	1.2	NS	NO	40.216122	-104.865468	N
PH03(23-4L)@4'	2/24/2025	4	0.5	NS	NO	40.216105	-104.865971	N
PH04(23-4L)@4'	2/24/2025	4	0.2	NS	NO	40.216103	-104.866424	N
PH05(23-4L)@4'	2/24/2025	4	0.2	NS	NO	40.216097	-104.866857	N
SEPERATOR-RISER SAMPLES								
SEP-RISER(23-4L)@4'	2/25/2025	4	0.0	NS	NO	40.216093	-104.867245	Y
	4/10/2025		1.2	NS	NO	40.216093	-104.867245	Y
SEP-RISER(23-4L)@4'-V	2/25/2025	4	0.0	NS	NO	40.216093	-104.867245	Y
BACKGROUND SOIL SAMPLES								
NATIVE-BG01@3'	1/28/2025	3	0.4	NS	NO	40.2163	-104.86508	Y
NATIVE-BG01@6'	1/28/2025	6	0.4	NS	NO	40.2163	-104.86508	Y
NATIVE-BG02@3'	1/28/2025	3	0.5	NS	NO	40.216163	-104.864852	Y
NATIVE-BG02@6'	1/28/2025	6	0.4	NS	NO	40.216163	-104.864852	Y
NATIVE-BG03@3'	1/28/2025	3	0.1	NS	NO	40.215993	-104.864988	Y
NATIVE-BG03@6'	1/28/2025	6	0.1	NS	NO	40.215993	-104.864988	Y
NATIVE-BG04@3'	1/28/2025	3	0.0	NS	NO	40.216188	-104.865201	Y
NATIVE-BG04@6'	1/28/2025	6	0.1	NS	NO	40.216188	-104.865201	Y

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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
PALOMBO 23-4L 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												
B01(23-4L)@6'	1/28/2025	6	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
B01(23-4L)@6'-V	1/28/2025	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH01(23-4L)@4'	2/24/2025	4	<0.200	33.0	<100	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.00201
WH01(23-4L)@4'-V	2/24/2025	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR-RISER SAMPLES												
SEP-RISER(23-4L)@4'	2/25/2025	4	<0.200	<25.0	<100	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	4/10/2025	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP-RISER(23-4L)@4'-V	2/25/2025	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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
PALOMBO 23-4L 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																
B01(23-4L)@6'	1/28/2025	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
B01(23-4L)@6'-V	1/28/2025	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH01(23-4L)@4'	2/24/2025	4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000459	<0.00067	<0.00067	<0.00201	<0.00201	0.000875
WH01(23-4L)@4'-V	2/24/2025	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEPARATOR-RISER SAMPLES																
SEP-RISER(23-4L)@4'	2/25/2025	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
	4/10/2025	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SEP-RISER(23-4L)@4'-V	2/25/2025	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
PALOMBO 23-4L 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			0.949	4.82	8.55	0.579
WELLHEAD EXCAVATION SAMPLES						
B01(23-4L)@6'	1/28/2025	6	0.312	0.93	10.1	<0.101
B01(23-4L)@6'-V	1/28/2025	6	NA	NA	11.5	NA
WH01(23-4L)@4'	2/24/2025	4	0.767	2.58	8.24	0.409
WH01(23-4L)@4'-V	2/24/2025	4	NA	NA	8.16	NA
SEPARATOR-RISER SAMPLES						
SEP-RISER(23-4L)@4'	2/25/2025	4	0.481	2.33	8.09	0.228
	4/10/2025	4	NA	NA	NA	NA
SEP-RISER(23-4L)@4'-V	2/25/2025	4	NA	NA	8.34*	NA
BACKGROUND SOIL SAMPLES						
NATIVE-BG01@3'	1/28/2025	3	0.226	2.66	7.69	<0.0993
NATIVE-BG01@6'	1/28/2025	6	0.156	2.71	7.47	<0.101
NATIVE-BG02@3'	1/28/2025	3	0.507	3.87	8.31	0.374
NATIVE-BG02@6'	1/28/2025	6	0.263	2	8.26	<0.0991
NATIVE-BG03@3'	1/28/2025	3	0.823	4.52	8.55	0.34
NATIVE-BG03@6'	1/28/2025	6	0.182	1.3	8.08	<0.0985
NATIVE-BG04@3'	1/28/2025	3	0.949	4.82	8.49	0.579
NATIVE-BG04@6'	1/28/2025	6	0.228	1.84	8.2	<0.100

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
PALOMBO 23-4L 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 [^]			5.64	166	0.158	NA	15.0	12.9	13.0	NA	NA	65.4
WELLHEAD EXCAVATION SAMPLES												
B01(23-4L)@6'	1/28/2025	6	1.29*	15.8	<0.0968	<0.200	<9.68	3.99	1.77	<0.252	<0.0968	<35.8
B01(23-4L)@6'-V	1/28/2025	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WH01(23-4L)@4'	2/24/2025	4	4.19*	185	0.400	<0.5	28.4	70.1	10.6	<0.245	<0.0942	85.2
WH01(23-4L)@4'-V	2/24/2025	4	NA	109	0.332	NA	NA	37.9	NA	NA	NA	NA
			NA	NA	NA	NA	NA	70.6	NA	NA	NA	NA
			NA	NA	NA	NA	NA	62.3	NA	NA	NA	NA
SEPARATOR-RISER SAMPLES												
SEP-RISER(23-4L)@4'	2/25/2025	4	3.16*	87.4*	0.183	NA	10.5	10.3	7.46	<0.229	<0.0882	50.9
	4/10/2025	4	NA	NA	NA	<0.424	NA	NA	NA	NA	NA	NA
SEP-RISER(23-4L)@4'-V	2/25/2025	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BACKGROUND SOIL SAMPLES												
NATIVE-BG01@3'	1/28/2025	3	1.24	24.2	<0.0974	<0.200	<9.74	2.58	1.83	<0.253	<0.0974	<36.0
NATIVE-BG01@6'	1/28/2025	6	0.815	13.9	<0.09300	<0.200	<9.33	1.95	1.37	<0.243	<0.0933	<34.5
NATIVE-BG02@3'	1/28/2025	3	1.03	21.7	<0.0914	<0.200	<9.14	2.58	1.41	<0.238	<0.0914	<33.8
NATIVE-BG02@6'	1/28/2025	6	1.93	14.4	<0.0924	<0.200	<9.24	2.31	1.68	<0.240	<0.0924	<34.2
NATIVE-BG03@3'	1/28/2025	3	2.41	60.7	0.11	<0.21	<9.57	5.6	4.58	<0.249	<0.0957	<35.4
NATIVE-BG03@6'	1/28/2025	6	0.678	11	<0.0960	<0.200	<9.60	2.39	1.34	<0.250	<0.0960	<35.5
NATIVE-BG04@3'	1/28/2025	3	4.51	133	0.126	<0.200	12	10.3	10.4	<0.254	<0.0979	52.3
NATIVE-BG04@6'	1/28/2025	6	1.5	18.9	<0.0976	<0.200	<9.76	2.67	2.12	<0.254	<0.0976	<36.1

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 analytical variability of background

[^] - 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.

*Exceeds Table 915-1 allowable level but within background