

TABLE 1
McHALE 2-5 WELLHEAD/FLOWLINE
SOIL SAMPLE FIELD DATA SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	GPS PDOP Value	Submitted for Lab Analysis? (Y/N)
WH-B01@6'	2/22/2024	6	1.3	No Staining	No Odor	40.17368517	-104.9117168	NA	Yes
WH-N01@5'	2/22/2024	5	0.9	No Staining	No Odor	40.17370387	-104.9117115	NA	No
WH-S01@5'	2/22/2024	5	1.9	No Staining	No Odor	40.17366957	-104.9117155	NA	No
WH-E01@5'	2/22/2024	5	1.4	No Staining	No Odor	40.17367977	-104.9116910	NA	No
WH-W01@5'	2/22/2024	5	1.5	No Staining	No Odor	40.17367957	-104.9117292	NA	No
WHS-N01@3"	2/22/2024	0.25	0.0	No Staining	No Odor	40.17372848	-104.9117074	NA	No
WHS-S01@3"	2/22/2024	0.25	0.2	No Staining	No Odor	40.17366087	-104.9117115	NA	No
WHS-E01@3"	2/22/2024	0.25	0.0	No Staining	No Odor	40.17367977	-104.9116619	NA	No
WHS-W01@3"	2/22/2024	0.25	0.3	No Staining	No Odor	40.17370547	-104.9117517	NA	No
FL-B01@4'	2/22/2024	4	0.5	No Staining	No Odor	40.17368207	-104.9116954	NA	Yes
WH-B01R@6'	3/18/2024	6	0.0	No Staining	No Odor	40.17368517	-104.9117168	NA	Yes
FL-B01R@4'	3/18/2024	4	0.0	No Staining	No Odor	40.17368207	-104.9116954	NA	Yes
BACKGROUND SOIL SAMPLING									
BG01@3'	2/22/2024	3	2.1	No Staining	No Odor	40.17376277	-104.9117376	NA	Yes
BG01@6'	2/22/2024	6	2.0	No Staining	No Odor	40.17376277	-104.9117376	NA	Yes
BG02@3'	2/22/2024	3	2.3	No Staining	No Odor	40.17372597	-104.9116344	NA	Yes
BG02@6'	2/22/2024	6	2.2	No Staining	No Odor	40.17372597	-104.9116344	NA	Yes
BG03@3'	2/22/2024	3	1.5	No Staining	No Odor	40.17362247	-104.9118194	NA	Yes
BG03@6'	2/22/2024	6	2.0	No Staining	No Odor	40.17362247	-104.9118194	NA	Yes
BG04@3'	2/22/2024	3	1.9	No Staining	No Odor	40.17360807	-104.9116786	NA	Yes
BG04@6'	2/22/2024	6	1.5	No Staining	No Odor	40.17360807	-104.9116786	NA	Yes
BG05@3'	2/22/2024	3	1.5	No Staining	No Odor	40.17364907	-104.9116330	NA	Yes
BG05@6'	2/22/2024	6	1.3	No Staining	No Odor	40.17364907	-104.9116330	NA	Yes
BG06@3'	2/22/2024	3	1.8	No Staining	No Odor	40.17371157	-104.9117819	NA	Yes
BG06@6'	2/22/2024	6	1.6	No Staining	No Odor	40.17371157	-104.9117819	NA	Yes

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Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	GPS PDOP Value	Submitted for Lab Analysis? (Y/N)
BG-07@3'	4/29/2024	3	0.9	No Staining	No Odor	40.17370727	-104.9119260	0.9	Yes
BG-07@6'	4/29/2024	6	1.3	No Staining	No Odor	40.17370727	-104.9119260	0.9	Yes
BG-08@3'	4/29/2024	3	1.2	No Staining	No Odor	40.17376039	-104.9118404	0.8	Yes
BG-08@6'	4/29/2024	6	1.2	No Staining	No Odor	40.17376039	-104.9118404	0.8	Yes
BG-09@3'	4/29/2024	3	0.2	No Staining	No Odor	40.17377421	-104.9116677	0.9	Yes
BG-09@6'	4/29/2024	6	0.3	No Staining	No Odor	40.17377421	-104.9116677	0.9	Yes
BG-10@3'	4/29/2024	3	0.1	No Staining	No Odor	40.17372154	-104.9115526	0.9	Yes
BG-10@6'	4/29/2024	6	0.2	No Staining	No Odor	40.17372154	-104.9115526	0.9	Yes
BG-11@3'	4/29/2024	3	0.3	No Staining	No Odor	40.17358262	-104.9116252	0.9	Yes
BG-11@6'	4/29/2024	6	0.2	No Staining	No Odor	40.17358262	-104.9116252	0.9	Yes

Notes:

ft. bgs = Feet below ground surface

PID = Photoionization detector

ppm = Parts per million

GPS = Global positioning system

PDOP = Position dilution of precision

NA = GPS data not available

TABLE 2
McHALE 2-5 WELLHEAD/FLOWLINE
SOIL SAMPLE RESULTS SUMMARY TABLE - VOCs
KERR-McGEE OIL AND GAS ONSHORE LP

Soil Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TVPH-GRO (mg/kg)	TEPH-DRO (mg/kg)	TEPH-ORO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
ECMC standards for soil (mg/kg) ⁽¹⁾		0.0026	0.69	0.78	9.9	0.0038	500			0.0081	0.0087
ECMC standards for soil (mg/kg) ⁽²⁾		1.2	490	5.8	58	2	500			30	27
WH-B01@6'	2/22/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<0.200	<25.0	<100	<0.00200	<0.00200
FL-B01@4'	2/22/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<0.200	<25.0	<100	<0.00200	<0.00200

Notes:

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

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

ECMC = Colorado Energy and Carbon Management Commission

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

mg/kg = Milligrams per kilogram

TVPH - GRO = Total volatile petroleum hydrocarbons - gasoline range organics

TEPH - DRO = Total extractable petroleum hydrocarbons - diesel range organics

TEPH - ORO = Total extractable petroleum hydrocarbons - oil range organics

1,2,4 - TMB = 1,2,4 - Trimethylbenzene

1,3,5 - TMB = 1,3,5 - Trimethylbenzene

TABLE 3
McHALE 2-5 WELLHEAD/FLOWLINE
SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs
KERR-McGEE OIL AND GAS ONSHORE LP

Soil Sample Location	Date	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)A (mg/kg)	Benzo(b)F (mg/kg)	Benzo(k)F (mg/kg)	Benzo(a)P (mg/kg)	Chrysene (mg/kg)	D (a,h) A (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	1,2,3-CD (mg/kg)	1-M (mg/kg)	2-M (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
ECMC standards for soil (mg/kg) ⁽¹⁾		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	0.0038	1.3
ECMC standards for soil (mg/kg) ⁽²⁾		360	1,800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	2	180
WH-B01@6'	2/22/2024	<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	<0.002	<0.020
FL-B01@4'	2/22/2024	<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	<0.002	<0.020

Notes:

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

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mg/kg = Milligrams per kilogram

Benzo(a)A = Benzo(a)anthracene

Benzo(b)F = Benzo(b)fluoranthene

Benzo(k)F = Benzo(k)fluoranthene

Benzo(a)P = Benzo(a)pyrene

D (a,h) A = Dibenzo(a,h)anthracene

1,2,3-CD = Indeno(1,2,3-cd)pyrene

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

TABLE 4
McHALE 2-5 WELLHEAD/FLOWLINE
SOIL SAMPLE RESULTS SUMMARY TABLE - METALS
KERR-McGEE OIL AND GAS ONSHORE LP

Soil Sample Location	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 standards for soil (mg/kg) ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC standards for soil (mg/kg) ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Site-Specific Background Limits			5.45	353.75	0.2575	NA	14.625	24.625	16.25	0.29	NA	53.375
WH-B01@6'	2/22/2024	6	3.26*	75.9	0.128	<0.244	9.50	11.8	11.1	0.175	<0.0911	38.6
FL-B01@4'	2/22/2024	4	3.09*	72.7	0.166	<0.244	<9.05	35.6	9.34	0.177	<0.0905	39.6
FL-B01R@4'	03/18/2024	4	NA	NA	NA	NA	NA	31.8	NA	NA	NA	NA
BACKGROUND SOIL SAMPLING												
BG01@3'	2/22/2024	3	3.40	59.4	<0.0914	<0.244	<9.14	6.41	9.53	<0.0914	<0.0914	<33.8
BG01@6'	2/22/2024	6	3.23	56.7	0.0999	<0.244	<9.17	7.20	8.82	0.114	<0.0917	<33.9
BG02@3'	2/22/2024	3	3.16	57.6	<0.0958	<0.244	<9.58	6.17	8.84	<0.0958	<0.0958	<35.4
BG02@6'	2/22/2024	6	3.06	55.2	<0.0887	<0.244	<8.87	7.68	8.43	<0.0887	<0.0887	<32.8
BG03@3'	2/22/2024	3	4.36	283	0.206	<0.244	10.7	19.7	13.0	0.188	<0.0952	47.9
BG03@6'	2/22/2024	6	3.53	102	<0.0965	<0.245	<9.65	10.8	11.2	0.124	<0.0965	36.4
BG04@3'	2/22/2024	3	3.13	68.6	0.100	<0.244	<9.74	9.87	9.85	0.133	<0.0974	<36.0
BG04@6'	2/22/2024	6	2.93	103	<0.0978	<0.245	10.8	9.40	12.2	<0.0978	<0.0978	42.7
BG05@3'	2/22/2024	3	2.82	57.3	<0.0956	<0.244	<9.56	5.97	8.76	0.113	<0.0956	<35.4
BG05@6'	2/22/2024	6	2.94	56.5	0.119	<0.246	<9.13	7.85	8.29	0.111	<0.0913	<33.8
BG06@3'	2/22/2024	3	2.48	59.7	<0.0876	<0.244	<8.76	5.69	8.98	<0.0876	<0.0876	<32.4
BG06@6'	2/22/2024	6	3.04	58.0	<0.0856	<0.244	<8.56	6.34	9.48	0.109	<0.0856	<31.7
BG-07@3'	4/29/2024	3	2.44	71.0	0.176	<0.164	10.1	7.48	11.5	<0.259	<0.0996	37.1
BG-07@6'	4/29/2024	6	1.96	93.1	0.112	<0.169	11.7	10.3	12.8	<0.234	<0.0902	40.0
BG-08@3'	4/29/2024	3	1.94	53.3	0.108	<0.113	<8.54	5.73	8.77	0.232	<0.0854	<31.6
BG-08@6'	4/29/2024	6	1.57	49.3	0.129	<0.118	<9.03	5.87	8.99	<0.235	<0.0903	<33.4
BG-09@3'	4/29/2024	3	2.66	58.8	0.110	<0.150	<9.35	6.07	10.3	<0.243	<0.0935	<34.6

TABLE 4
McHALE 2-5 WELLHEAD/FLOWLINE
SOIL SAMPLE RESULTS SUMMARY TABLE - METALS
KERR-McGEE OIL AND GAS ONSHORE LP

Soil Sample Location	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 standards for soil (mg/kg) ⁽¹⁾			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
ECMC standards for soil (mg/kg) ⁽²⁾			0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Site-Specific Background Limits			5.45	353.75	0.2575	NA	14.625	24.625	16.25	0.29	NA	53.375
BG-09@6'	4/29/2024	6	1.59	42.7	0.105	<0.0891	<9.55	4.87	7.62	<0.248	<0.0955	<35.3
BG-10@3'	4/29/2024	3	2.45	78.3	0.149	<0.125	8.99	8.03	11.2	0.230	<0.0841	32.4
BG-10@6'	4/29/2024	6	1.66	49.4	0.109	<0.128	<8.83	4.99	8.41	<0.230	<0.0883	<32.7
BG-11@3'	4/29/2024	3	2.23	51.9	0.134	<0.140	<8.96	5.61	9.31	<0.233	<0.0896	<33.2
BG-11@6'	4/29/2024	6	1.48	53.0	0.114	<0.133	<9.64	5.61	9.18	<0.251	<0.0964	<35.7

Notes:

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

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

ECMC = Colorado Energy and Carbon Management Commission

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

mg/kg = Milligrams per kilogram

BOLD = Analytical result is in exceedance of ECMC Table 915-1 soil standards

* Result exceeded the ECMC Table 915-1 standard, but was within site-specific background concentrations x 1.25

Italics = Laboratory minimum detection limit exceeds the ECMC Table 915-1 standard

NA = Constituent not analyzed; no background standard

TABLE 5
McHALE 2-5 WELLHEAD/FLOWLINE
SOIL SAMPLE RESULTS SUMMARY TABLE - SOIL SUITABILITY FOR RECLAMATION
KERR-McGEE OIL AND GAS ONSHORE LP

Soil Sample Location	Date	Depth (ft. bgs)	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
ECMC standards for soil (mg/kg) ⁽¹⁾			6 - 8.3	< 6	< 4	2
Site-Specific Background Limits			7.42 - 8.39	5.21	2.34	0.293
WH-B01@6'	2/22/2024	6	8.98	13.6	0.396	0.104
FL-B01@4'	2/22/2024	4	7.63	0.300	0.262	<0.0995
WH-B01R@6'	03/18/2024	6	8.78	5.55	NA	NA
BACKGROUND SOIL SAMPLING						
BG01@3'	2/22/2024	3	7.42	0.385	0.0625	<0.101
BG01@6'	2/22/2024	6	7.88	2.99	0.191	0.156
BG02@3'	2/22/2024	3	7.68	0.511	0.0718	<0.0989
BG02@6'	2/22/2024	6	7.86	0.266	0.113	<0.101
BG03@3'	2/22/2024	3	8.08	2.26	2.34	0.202
BG03@6'	2/22/2024	6	8.39	3.29	0.443	0.179
BG04@3'	2/22/2024	3	7.88	0.107	0.134	0.113
BG04@6'	2/22/2024	6	8.33	1.11	0.245	0.293
BG05@3'	2/22/2024	3	7.99	0.243	0.137	<0.100
BG05@6'	2/22/2024	6	7.70	0.470	0.130	0.121
BG06@3'	2/22/2024	3	7.64	0.362	0.0745	<0.100
BG06@6'	2/22/2024	6	7.60	0.379	0.0823	<0.0994
BG-07@3'	4/29/2024	3	7.80	0.227	0.135	0.267
BG-07@6'	4/29/2024	6	7.63	3.47	0.160	0.281
BG-08@3'	4/29/2024	3	7.90	0.781	0.0925	0.173
BG-08@6'	4/29/2024	6	7.87	5.21	0.147	<0.101
BG-09@3'	4/29/2024	3	7.80	0.496	0.0876	0.200
BG-09@6'	4/29/2024	6	7.88	1.83	0.107	<0.102
BG-10@3'	4/29/2024	3	8.03	0.527	0.142	0.143
BG-10@6'	4/29/2024	6	7.80	3.66	0.218	<0.100
BG-11@3'	4/29/2024	3	7.70	0.143	0.0811	0.112
BG-11@6'	4/29/2024	6	7.75	0.318	0.0704	<0.0988

Notes:

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

ECMC = Colorado Energy and Carbon Management Commission

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

ft. bgs = Feet below ground surface

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Adsorption Ratio

EC = Electrical Conductivity

BOLD = Analytical result is in exceedance of ECMC Table 915-1 soil standards

* Result exceeded the ECMC Table 915-1 standard, but was within site-specific background levels

NA = Constituent not analyzed

TABLE 6
McHALE 2-5 WELLHEAD
SOIL VAPOR SCREENING RESULTS SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Screening Location	Date	Time	Depth (ft)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	H ₂ S (ppm)	CO (ppm)
Ambient 01	2/26/2024	9:00	0	0.0	0.0	21.5	0	0
SVP01	2/26/2024	9:02	10	0.0	0.0	21.5	0	0
	2/26/2024	9:04	10	0.0	0.0	21.4	0	0
	2/26/2024	9:06	10	0.0	0.0	21.4	0	0
SVP02	2/26/2024	9:08	10	0.0	0.0	21.1	0	0
	2/26/2024	9:10	10	0.0	0.1	21.1	0	0
	2/26/2024	9:12	10	0.0	0.1	21.0	0	0
SVP03	2/26/2024	9:14	5	0.0	0.0	23.3	0	0
	2/26/2024	9:16	5	0.0	0.1	23.3	0	0
	2/26/2024	9:18	5	0.0	0.0	23.3	0	0
SVP04	2/26/2024	9:20	5	0.0	0.0	20.8	0	0
	2/26/2024	9:22	5	0.0	0.0	20.9	0	0
	2/26/2024	9:24	5	0.0	0.0	20.8	0	0
SVP05	2/26/2024	9:26	5	0.0	0.1	21.2	0	0
	2/26/2024	9:28	5	0.0	0.1	21.3	0	0
	2/26/2024	9:30	5	0.0	0.0	21.3	0	0

Notes:

CH₄ = Methane

CO₂ = Carbon dioxide

O₂ = Oxygen

H₂S = Hydrogen sulfide

CO = Carbon monoxide

% = Percent volume

ppm = Parts per million