

TABLE 1
PARAGON FARMS 42-25 WELLHEAD
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)
REL-B01@3"	07/24/24	0.25	2487	HC Staining	HC Odor	40.11164043	-104.7175871	1.1	Yes
BACKGROUND SOIL SAMPLING									
BG-01@3"	07/24/24	0.25	0.3	No Odor	No Staining	40.11197751	-104.7175553	0.8	Yes
BG-02@3"	07/24/24	0.25	0.2	No Odor	No Staining	40.11136351	-104.7172163	0.8	Yes
BG-03@3"	07/24/24	0.25	0.2	No Odor	No Staining	40.11172528	-104.7171609	0.9	Yes
BG-04@3"	07/24/24	0.25	0.2	No Odor	No Staining	40.11162676	-104.718007	0.7	Yes

Notes:

ft. bgs = Feet below ground surface

PID = Photoionization detector

ppm = Parts per million

HC = Hydrocarbon

GPS = Global positioning system

PDOP = Position dilution of precision

TABLE 2
PARAGON FARMS 42-25 WELLHEAD
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
REL-B01@3"	07/24/24	8.96	44.7	9.62	71.9	5.55	1360	1980	500	22.9	8.86

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

TABLE 3
PARAGON 42-25 WELLHEAD
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
REL-B01@3"	07/24/24	<0.200	0.257	<0.050	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	2.06	<0.200	11.7	23.7	5.55	<0.200

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

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 = Dibenz(a,h)anthracene

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

1-M = 1-Methylnaphthalene

2-M = 2-Methylnaphthalene

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

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

TABLE 4
PARAGON 42-25 WELLHEAD
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			6.1375	110.25	0.39625		12.5	12.325	10.375	0.92375	ND	57.875
REL-B01@3"	7/24/24	0.25	3.52*	111	0.470	PENDING	19.1	7.92	9.43	0.985	<0.0894	33.6
BACKGROUND SOIL SAMPLING												
BG-01@3"	7/24/24	0.25	2.01	66.5	0.139	PENDING	<9.50	8.02	5.49	<0.247	<0.0950	<35.2
BG-02@3"	7/24/24	0.25	2.58	88.2	0.185	PENDING	<8.72	8.91	7.90	<0.227	<0.0872	37.3
BG-03@3"	7/24/24	0.25	2.34	79.0	0.196	PENDING	<9.32	8.78	6.62	<0.242	<0.0932	<34.5
BG-04@3"	7/24/24	0.25	4.91	70.1	0.317	PENDING	10.0	9.86	8.30	0.739	<0.0950	46.3

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 the range of site-specific background concentrations x 1.25

Pending = Analytical results pending final laboratory reporting