

TABLE 1
BERRY 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Approximate Depth (feet bgs)	PID (ppm-v)	Visual Observation	Olfactory Observation	Latitude, Longitude	Submitted for Lab Analysis (Y/N)
Wellhead Soil Samples							
WH-B01 @ 6'	10/17/22	6	1087	HC Staining	HC Odor	40.2436552085103, -104.908601941397	Y
WH-N01 @ 5'	10/17/22	5	148.1	Slight HC Staining	Slight HC Odor	40.2436595894165, -104.908604844687	Y
WH-S01 @ 5'	10/17/22	5	410.8	Slight HC Staining	HC Odor	40.2436386796058, -104.908606090138	Y
WH-E01 @ 5'	10/17/22	5	34.5	N/S	N/O	40.2436500057285, -104.908589602751	Y
WH-W01 @ 5'	10/17/22	5	50.3	N/S	Slight HC Odor	40.2436474529255, -104.908622719917	Y
WHS-N01 @ 0.25'	10/17/22	0.25	0.7	N/S	N/O	40.2436783606423, -104.908631120634	N
WHS-S01 @ 0.25'	10/17/22	0.25	22.4	N/S	Slight HC Odor	40.243619877933, -104.908594128773	N
WHS-E01 @ 0.25'	10/17/22	0.25	1.6	N/S	N/O	40.2436493863483, -104.908582626545	N
WHS-W01 @ 0.25'	10/17/22	0.25	0.9	N/S	N/O	40.2436484731442, -104.908653607186	N
Flowline Soil Samples							
FL-B01 @ 4'	10/17/22	4	26.7	N/S	N/O	40.2436317677033, -104.908611359715	Y
FL-B02 @ 3'	11/7/22	3	0.8	N/S	N/O	40.2454112000168, -104.909634599926	Y
Wellhead Background Soil Samples							
WH-BG01 @ 3'	10/17/22	3	1.4	N/S	N/O	40.2435130579936, -104.908561851118	Y
WH-BG01 @ 6'	10/17/22	6	1.1	N/S	N/O	40.2435130579936, -104.908561851118	Y
WH-BG02 @ 3'	10/17/22	3	7.5	N/S	N/O	40.243613392022, -104.908690772061	Y
WH-BG02 @ 6'	10/17/22	6	6.1	N/S	N/O	40.243613392022, -104.908690772061	Y
WH-BG03 @ 3'	10/17/22	3	5.2	N/S	N/O	40.2436643807108, -104.908523649339	Y
WH-BG03 @ 6'	10/17/22	6	4.5	N/S	N/O	40.2436643807108, -104.908523649339	Y

bgs = below ground surface

N/S = No Staining

PID = photoionization detector

N/O = No Odor

ppm-v = parts per million by volume

HC = hydrocarbon

BOLD = exceeds COGCC Table 915-1

TABLE 2
BERRY 1
SOIL SAMPLE RESULTS SUMMARY TABLE - VOCs
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Naphthalene (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
COGCC standards for soil (mg/kg) ⁽²⁾		1.2	490	5.8	58	500			2	30	27
Wellhead Soil Samples											
WH-B01 @ 6'	10/17/22	<0.00200	<0.00200	<0.00200	<0.00200	6.10	516	243	0.0102	<0.00200	<0.00200
WH-N01 @ 5'	10/17/22	<0.00200	<0.00200	<0.00200	<0.00200	0.474	143	335	<0.00335	<0.00200	<0.00200
WH-S01 @ 5'	10/17/22	<0.00200	<0.00200	<0.00200	<0.00200	3.08	562	418	0.0145	<0.00200	<0.00200
WH-E01 @ 5'	10/17/22	<0.00200	<0.00200	<0.00200	<0.00200	0.520	<25.0	106	<0.00067	<0.00200	<0.00200
WH-W01 @ 5'	10/17/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	159	517	<0.00067	<0.00200	<0.00200
Flowline Soil Samples											
FL-B01 @ 4'	10/17/22	<0.00200	<0.00200	<0.00200	<0.00200	0.483	<25.0	<100	<0.00380	<0.00200	<0.00200
FL-B02 @ 3'	11/07/22	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200

Notes:

⁽¹⁾ COGCC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ COGCC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

COGCC = Colorado Oil and Gas Conservation Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Cleanup Concentrations

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

TMB = Trimethylbenzene

TABLE 3
BERRY 1
SOIL SAMPLE RESULTS SUMMARY TABLE - SOIL SUITABILITY FOR RECLAMATION
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Depth (ft. bgs)	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<i>COGCC standards for soil (mg/kg)</i> ⁽¹⁾			6 - 8.3	<6	<4	2
Wellhead Soil Samples						
WH-B01 @ 6'	10/17/22	6	8.93*	0.497	2.78	0.429
WH-N01 @ 5'	10/17/22	5	8.05	0.233	3.46	0.389
WH-S01 @ 5'	10/17/22	5	7.94	0.194	3.05	0.184
WH-E01 @ 5'	10/17/22	5	7.84	0.131	2.88	0.188
WH-W01 @ 5'	10/17/22	5	7.99	0.208	3.26	0.375
Flowline Soil Samples						
FL-B01 @ 4'	10/17/22	4	8.17	0.160	1.37	0.281
FL-B02 @ 3'	11/07/22	3	8.22	1.00	0.211	<0.100
Wellhead Background Soil Samples						
WH-BG01 @ 3'	10/17/22	3	8.11	2.65	4.14	0.675
WH-BG01 @ 6'	10/17/22	6	8.16	1.47	3.45	0.710
WH-BG02 @ 3'	10/17/22	3	7.98	0.219	2.30	<0.0999
WH-BG02 @ 6'	10/17/22	6	8.19	3.10	3.73	0.773
WH-BG03 @ 3'	10/17/22	3	8.02	0.0755	2.51	0.163
WH-BG03 @ 6'	10/17/22	6	8.37	0.156	0.502	<0.0997

Notes:

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

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(<) = 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 Absorption Ratio

EC = Electrical Conductivity

Values presented in **BOLD*** contained concentrations exceeding COGCC Table 915-1 Cleanup Concentrations, but were within the acceptable range of analytical variability.

TABLE 4
BERRY 1
SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	1-Methyl-naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3-cd)-pyrene (mg/kg)	Pyrene (mg/kg)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3
COGCC standards for soil (mg/kg) ⁽²⁾		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
WH-B01 @ 6'	10/17/22	0.0124	0.00931	0.0154	<0.00335	0.00721	<0.00335	<0.00335	<0.00335	0.0336	<0.00335	0.00307	0.128	<0.00335	0.0184
WH-N01 @ 5'	10/17/22	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	0.00488	<0.00335	<0.00335	0.00547	<0.00335	<0.00335
WH-S01 @ 5'	10/17/22	0.00234	0.00459	0.0161	0.00367	0.0193	0.00712	0.00611	0.00374	0.05	<0.00335	0.0333	0.13	<0.00335	0.0529
WH-E01 @ 5'	10/17/22	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00064	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00119	<0.00067	<0.00067
WH-W01 @ 5'	10/17/22	<0.00067	<0.00067	<0.00067	<0.00067	0.00235	0.00102	<0.00067	<0.00067	0.00521	0.00101	0.000463	0.00173	<0.00067	0.00119

Notes:

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

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

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

mg/kg = milligrams per kilogram

PAH = Polycyclic Aromatic Hydrocarbons

Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Cleanup Concentrations

TABLE 5
BERRY 1
SOIL SAMPLE RESULTS SUMMARY TABLE - METALS
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	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)
COGCC standards for soil (mg/kg) ⁽¹⁾		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
COGCC standards for soil (mg/kg) ⁽²⁾		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
WH-B01 @ 6'	10/17/22	10.3	128*	0.154	*<0.508	12.2	27.3	17.7	0.255	<0.0965	<96.5
WH-N01 @ 5'	10/17/22	7.11*	53.4	<0.0982	*<0.503	<9.82	12.2	11.9	0.147	<0.0982	<98.2
WH-S01 @ 5'	10/17/22	6.25*	76.6	<0.0946	*<0.51	10.3	14.6*	12.1	0.250	<0.0946	<94.6
WH-E01 @ 5'	10/17/22	5.69*	167*	0.133	*<0.506	<9.75	12.8	11.8	0.216	<0.0975	<97.5
WH-W01 @ 5'	10/17/22	5.99*	49.8	<0.0992	*<0.52	<9.92	11.0	11.4	0.225	<0.0992	<99.2
Background Soil Samples											
WH-BG01 @ 3'	10/17/22	6.82	57.6	<0.0983	<0.5	<9.83	21.3	12.6	0.291	<0.0983	<98.3
WH-BG01 @ 6'	10/17/22	7.46	98.8	0.126	<0.51	9.98	14.0	13.5	0.317	<0.0958	<95.8
WH-BG02 @ 3'	10/17/22	4.50	28.7	<0.0972	<0.5	<9.72	<9.72	<9.72	0.118	<0.0972	<97.2
WH-BG02 @ 6'	10/17/22	5.61	154	0.102	<0.5	<9.52	<9.52	10.6	0.232	<0.0952	<95.2
WH-BG03 @ 3'	10/17/22	6.27	57.5	<0.0960	<0.5	<9.60	11.0	11.9	0.182	<0.0960	<96.0
WH-BG03 @ 6'	10/17/22	5.21	621	<0.0964	<0.512	<9.64	<9.64	<9.64	0.108	<0.0964	<96.4

Notes:

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

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Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Cleanup Concentrations and background concentrations.

Values presented with an **BOLD*** contained concentrations exceeding COGCC Table 915-1 Cleanup Concentrations but are within site-specific background concentrations limits.

Background soil sample **WH-BG01@6'** was utilized to calculate a background concentration for arsenic of **9.32 mg/kg**.

Background soil sample **WH-BG02@6'** was utilized to calculate a background concentration for barium of **192.5 mg/kg**.

Background soil sample **WH-BG01@3'** was utilized to calculate a background concentration for lead of **26.62 mg/kg**.

* = compound is in accordance with the COGCC Table 915-1 Footnote 9.

TABLE 6
BERRY 1
SOIL VAPOR DATA SUMMARY TABLE
KERR-McGEE OIL AND GAS ONSHORE LP

Soil Vapor Point ID	Date	Time	Methane (%)	Carbon Dioxide (%)	Carbon Monoxide (PPM)	Oxygen (%)	Hydrogen Sulfide (PPM)	Sample Collected (Y or N)	Latitude,Longitude
SVP-01 @ 8'	10/19/22	1253	0.9	0.3	3	19.2	0	Y	40.2436534199703, -104.908606133735
SVP-02 @ 8'	10/19/22	1302	0.0	0.0	0	19.7	1	Y	40.2436432293504, -104.908600694347
SVP-03 @ 5'	10/19/22	1228	0.0	2.1	0	18.9	0	Y	40.2436712374152, -104.908549440221
SVP-04 @ 5'	10/19/22	1231	0.0	0.1	0	20.4	0	Y	40.2436824789284, -104.908627309302
SVP-05 @ 5'	10/19/22	1233	0.0	1.3	0	18.2	0	Y	40.2436016734269, -104.908656573476

% = percentage

ppm = parts per
million