

TABLE 1
COOPER 12-10A O SA
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)
Produced Water Vault Soil Samples							
PW-B01 @ 4'	8/3/2023	4	1.6	N/S	N/O	40.2393216530981, -104.772550772587	Y
PW-N01 @ 2'	8/3/2023	2	1.2	N/S	N/O	40.2393393864296, -104.772548689251	N
PW-S01 @ 2'	8/3/2023	2	0.6	N/S	N/O	40.239303069768, -104.772552072593	N
PW-E01 @ 2'	8/3/2023	2	0.9	N/S	N/O	40.2393215197628, -104.772536689258	N
PW-W01 @ 2'	8/3/2023	2	1.7	N/S	N/O	40.2393204531019, -104.772565972586	Y
Tank Battery Soil Samples							
SEP-B01 @ 3'	8/3/2023	3	1.9	N/S	N/O	40.2393516697049, -104.772201639323	Y
SEP-B02 @ 5'	8/3/2023	5	2.2	N/S	N/O	40.2393500363648, -104.772151922669	Y
MH-B01 @ 3"	8/3/2023	0.25	1.0	N/S	N/O	40.239378436369, -104.772205272649	N
AST-B01 @ 3"	8/3/2023	0.25	1.5	N/S	N/O	40.2393301697753, -104.772606689243	Y
AST-B02 @ 3"	8/3/2023	0.25	2.1	N/S	N/O	40.239310553112, -104.772614522579	N
DL-B01 @ 4'	8/3/2023	4	922.8	HC Staining	HC Odor	40.2393635363751, -104.772236089312	Y
DL-B02 @ 4'	8/3/2023	4	150.3	N/S	N/O	40.2393409697494, -104.772464589269	Y
AST-B01-1 @ 6"	8/25/23	0.5	1.3	N/S	N/O	40.23932865, -104.7726114	Y
DL-B01 @ 6'	10/5/23	6	1653	HC Staining	HC Odor	40.23935755, -104.772244	Y
DL-N01 @ 4'	10/5/23	4	58.7	Slight HC Staining	Slight HC Odor	40.23936811, -104.772252	Y
DL-S01 @ 4'	10/5/23	4	53.5	Slight HC Staining	Slight HC Odor	40.23934878, -104.7722498	Y
DL-E01 @ 4'	10/5/23	4	8.2	N/S	N/O	40.23935992, -104.7722265	Y
DL-W01 @ 4'	10/5/23	4	1734	HC Staining	HC Odor	40.23935915, -104.7722752	Y
DL-B03 @ 15'	10/27/23	15	0.0	N/S	N/O	40.23933205, -104.7722091	Y
DL-B04 @ 15'	10/27/23	15	0.0	N/S	N/O	40.23931462, -104.7722896	Y
DL-B05 @ 15'	10/27/23	15	1.3	N/S	N/O	40.23938833, -104.7722748	Y
DL-B06 @ 15'	10/27/23	15	37.7	HC Staining	N/O	40.23942518, -104.7722641	Y
DL-N02 @ 4'	10/27/23	4	794.3	HC Staining	HC Odor	40.23946203, -104.7722641	Y
DL-N02 @ 6'	10/27/23	6	427.4	HC Staining	HC Odor	40.23946203, -104.7722641	Y
DL-E02 @ 6'	10/27/23	6	79.2	HC Staining	HC Odor	40.23943439, -104.7722105	Y
DL-E03 @ 6'	10/27/23	6	49.7	HC Staining	HC Odor	40.23937706, -104.7721917	Y
DL-E04 @ 6'	10/27/23	6	5.4	N/S	N/O	40.23931462, -104.7721702	Y
DL-S02 @ 6'	10/27/23	6	5.9	N/S	N/O	40.23928805, -104.7722225	Y
DL-S03 @ 6'	10/27/23	6	4.8	N/S	N/O	40.23929312, -104.7722748	Y
DL-W02 @ 6'	10/27/23	6	14.6	N/S	N/O	40.23930955, -104.7723191	Y
DL-W03 @ 6'	10/27/23	6	442.1	HC Staining	HC Odor	40.23937295, -104.7723151	Y
DL-W04 @ 6'	10/27/23	6	1551	HC Staining	HC Odor	40.23943235, -104.7723043	Y
DL-N03 @ 6'	12/4/23	6	2.1	N/S	N/O	40.23950400724761, -104.77226275662937	Y
DL-W05 @ 6'	12/4/23	6	1.2	N/S	N/O	40.23948660378857, -104.77231908300764	Y
DL-E05 @ 6'	12/4/23	6	1.6	N/S	N/O	40.23932174727311, -104.77218090162692	Y
DL-N04 @ 5'	12/4/23	5	197.2	HC Staining	HC Odor	40.239440535781824, -104.77239284374389	Y
DL-N05 @ 5'	12/4/23	5	1.3	N/S	N/O	40.239434347277914, -104.77246660154678	Y
DL-N06 @ 5'	12/4/23	5	3.1	N/S	N/O	40.23942927471798, -104.77254170631085	Y
DL-N07 @ 5'	12/4/23	5	2.2	N/S	N/O	40.23943234592572, -104.77261949035375	Y
DL-W06 @ 5'	12/4/23	5	0.7	N/S	N/O	40.23939549149276, -104.7726704523176	Y
DL-W07 @ 5'	12/4/23	5	0.6	N/S	N/O	40.23932997244512, -104.77267447563804	Y
DL-S04 @ 5'	12/4/23	5	0.3	N/S	N/O	40.239296147307904, -104.77262490152644	Y
DL-S05 @ 5'	12/4/23	5	0.4	N/S	N/O	40.239306426512826, -104.77254707074236	Y
DL-S06 @ 5'	12/4/23	5	0.9	N/S	N/O	40.239343247289476, -104.77245450156052	Y
DL-S07 @ 5'	12/4/23	5	0.6	N/S	N/O	40.23933504728511, -104.77237670157967	Y
DL-B07 @ 15'	12/4/23	15	21.7	N/S	Slight HC Odor	40.23940264727694, -104.7723915015681	Y
DL-B08 @ 15'	12/4/23	15	17.1	N/S	Slight HC Odor	40.23939654728278, -104.77246260155223	Y
DL-B09 @ 15'	12/4/23	15	2.9	N/S	N/O	40.23938734728942, -104.77253900153553	Y
DL-B10 @ 15'	12/4/23	15	175.7	HC Staining	HC Odor	40.23938320667279, -104.77262351367223	Y
DL-B11 @ 15'	12/4/23	15	1.8	N/S	N/O	40.23934737593916, -104.77254304742486	Y
DL-B12 @ 15'	12/4/23	15	14.8	N/S	Slight HC Odor	40.23936174728733, -104.77245990155704	Y
DL-B13 @ 15'	12/4/23	15	16.4	N/S	Slight HC Odor	40.23935966075097, -104.77238211492	Y
DL-E06 @ 6'	2/29/24	6	1.2	N/S	N/O	40.23932127, -104.7721434	Y
Background Soil Samples							
PW-BG02 @ 3'	8/3/2023	3	1.1	N/S	N/O	40.2393545473093, -104.772757601488	Y
PW-BG02 @ 6'	8/3/2023	6	2.0	N/S	N/O	40.2393545473093, -104.772757601488	Y
WH-BG03 @ 3"	8/25/2023	0.25	0.1	N/S	N/O	40.2394620342037, -104.772569869495	Y
WH-BG04 @ 3"	8/25/2023	0.25	0.3	N/S	N/O	40.2389501654653, -104.772674475683	Y
WH-BG05 @ 3"	8/25/2023	0.25	0.1	N/S	N/O	40.2384157703553, -104.772526954286	Y

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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)
WH-BG06 @ 3"	8/25/2023	0.25	0.1	N/S	N/O	40.2389747352266, -104.772293602089	Y
PW-BG03 @ 15'	12/4/2023	15	2.1	N/S	N/O	40.23932471429499, -104.77205556963153	Y
PW-BG04 @ 15'	12/4/2023	15	1.4	N/S	N/O	40.23955043036704, -104.7724745668208	Y
Wellhead Background Soil Samples (Four Raith Unit 1)							
WH-BG01 @ 3'	6/20/2023	3	3.2	N/S	N/O	40.235037537589, -104.75987164288	Y
WH-BG01 @ 6'	6/20/2023	6	3.4	N/S	N/O	40.235037537589, -104.75987164288	Y
WH-BG02 @ 3'	6/20/2023	3	3.2	N/S	N/O	40.2348710612934, -104.759887998805	Y
WH-BG02 @ 6'	6/20/2023	6	2.0	N/S	N/O	40.2348710612934, -104.759887998805	Y
WH-BG03 @ 3'	6/20/2023	3	1.6	N/S	N/O	40.2349482862594, -104.759991610767	Y
WH-BG03 @ 6'	6/20/2023	6	1.7	N/S	N/O	40.2349482862594, -104.759991610767	Y
WH-BG04 @ 7'	1/10/2024	7	2.0	N/S	N/O	40.23504001, -104.7599704	Y
WH-BG04 @ 14'	1/10/2024	14	1.8	N/S	N/O	40.23504001, -104.7599704	Y
WH-BG05 @ 7'	1/10/2024	7	0.9	N/S	N/O	40.23486237, -104.7599701	Y
WH-BG05 @ 14'	1/10/2024	14	1.2	N/S	N/O	40.23486237, -104.7599701	Y
WH-BG06 @ 7'	3/12/2024	7	0.4	N/S	N/O	40.2348078349428, -104.75977701464	Y
WH-BG06 @ 15'	3/12/2024	15	0.6	N/S	N/O	40.2348078349428, -104.75977701464	Y
WH-BG07 @ 7'	3/12/2024	7	0.0	N/S	N/O	40.2349000728656, -104.759592897476	Y
WH-BG07 @ 15'	3/12/2024	15	0.1	N/S	N/O	40.2349000728656, -104.759592897476	Y
WH-BG08 @ 7'	3/12/2024	7	0.1	N/S	N/O	40.235044400387, -104.759674730439	Y
WH-BG08 @ 15'	3/12/2024	15	0.1	N/S	N/O	40.235044400387, -104.759674730439	Y
WH-BG09 @ 7'	3/12/2024	7	0.1	N/S	N/O	40.2351521190652, -104.759760612862	Y
WH-BG09 @ 15'	3/12/2024	15	0	N/S	N/O	40.2351521190652, -104.759760612862	Y
Wellhead Background Soil Samples (HSR-Cooper 12-10A)							
WH-BG01 @ 3'	7/31/2023	3	2.9	N/S	N/O	40.2378013191913, -104.770599341468	Y
WH-BG01 @ 6'	7/31/2023	6	2.9	N/S	N/O	40.2378013191913, -104.770599341468	Y
WH-BG02 @ 3'	7/31/2023	3	2.5	N/S	N/O	40.2376974692259, -104.770731108133	Y
WH-BG02 @ 6'	7/31/2023	6	1.7	N/S	N/O	40.2376974692259, -104.770731108133	Y
WH-BG03 @ 3'	7/31/2023	3	2.0	N/S	N/O	40.2375035692212, -104.770549341557	Y
WH-BG03 @ 6'	7/31/2023	6	2.5	N/S	N/O	40.2375035692212, -104.770549341557	Y
WH-BG04 @ 3'	7/31/2023	3	1.6	N/S	N/O	40.2376672941704, -104.770428919218	Y
WH-BG04 @ 6'	7/31/2023	6	3.0	N/S	N/O	40.2376672941704, -104.770428919218	Y

Notes:

bgs = below ground surface

PID = photoionization detector

ppm-v = parts per million by volume

BOLD = ECMC Table 915-1 Exceedance

N/S = No Staining

N/O = No Odor

HC = hydrocarbon

TABLE 2
COOPER 12-10A O SA
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)
ECMC standards for soil (mg/kg) ⁽¹⁾		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
ECMC standards for soil (mg/kg) ⁽²⁾		1.2	490	5.8	58	500			2	30	27
Produced Water Vault Soil Samples											
PW-B01 @ 4'	8/3/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
PW-W01 @ 2'	8/3/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
Tank Battery Soil Samples											
SEP-B01 @ 3'	8/3/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
SEP-B02 @ 5'	8/3/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
AST-B01 @ 3"	8/3/2023	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
DL-B01 @ 4'	8/3/2023	<0.00200	0.00340	0.0754	0.121	2.43	<25.0	<100	0.006	0.0545	0.0720
DL-B02 @ 4'	8/3/2023	<0.00200	<0.00200	<0.00200	<0.00200	3.06	<25.0	<100	<0.002	0.00220	0.00312
DL-B01 @ 6'	10/5/23	NA	<0.00200	<0.00200	<0.00200	73.5	152	<100	0.062	0.0525	<0.00200
DL-N01 @ 4'	10/5/23	NA	<0.00200	<0.00201	0.00510	0.305	<25.0	<100	0.002	0.0120	0.00894
DL-S01 @ 4'	10/5/23	NA	<0.00200	<0.00200	<0.00200	0.223	<25.0	<100	<0.002	<0.00200	<0.00200
DL-E01 @ 4'	10/5/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-W01 @ 4'	10/5/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-B03 @ 15'	10/27/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-B04 @ 15'	10/27/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-B05 @ 15'	10/27/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-B06 @ 15'	10/27/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-N02 @ 4'	10/27/23	NA	<0.00200	<0.00200	<0.00200	3.78	<25.0	<100	<0.002	0.00242	<0.00200
DL-N02 @ 6'	10/27/23	NA	<0.00200	<0.00200	<0.00200	35.1	26.1	<100	<0.002	0.00242	<0.00200
DL-E02 @ 6'	10/27/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
DL-E03 @ 6'	10/27/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
DL-E04 @ 6'	10/27/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
DL-S02 @ 6'	10/27/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
DL-S03 @ 6'	10/27/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
DL-W02 @ 6'	10/27/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00380	<0.00200	<0.00200
DL-W03 @ 6'	10/27/23	NA	<0.00200	<0.00200	<0.00200	14.4	<25.0	<100	<0.00380	<0.00200	<0.00200
DL-W04 @ 6'	10/27/23	NA	<0.00200	0.135	0.715	81.7	<25.0	<100	0.021	0.556	0.342
DL-N03 @ 6'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-W05 @ 6'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-E05 @ 6'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-N04 @ 5'	12/4/23	NA	<0.00200	.00364	.0491	7.26	26.4	<100	0.013	0.133	0.0859
DL-N05 @ 5'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-N06 @ 5'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-N07 @ 5'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-W06 @ 5'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-W07 @ 5'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-S04 @ 5'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-S05 @ 5'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-S06 @ 5'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200

TABLE 2
COOPER 12-10A O SA
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)
ECMC standards for soil (mg/kg) ⁽¹⁾		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
DL-S07 @ 5'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-B07 @ 15'	12/4/23	NA	<0.00200	0.0955	0.505	101	<25.0	<100	<0.002	0.169	0.866
DL-B08 @ 15'	12/4/23	NA	<0.00200	<0.00200	<0.00200	0.515	<25.0	<100	<0.002	<0.00200	<0.00200
DL-B09 @ 15'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-B10 @ 15'	12/4/23	NA	<0.00200	<0.00200	<0.00200	7.41	<25.0	<100	<0.002	0.00852	0.0128
DL-B11 @ 15'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-B12 @ 15'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-B13 @ 15'	12/4/23	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200
DL-E06 @ 6'	2/29/24	NA	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200

Notes:

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

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

ECMC = Energy and Carbon Management Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

Values presented in **BOLD** contained concentrations exceeding ECMC 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

NA = Not Analyzed

TABLE 3
COOPER 12-10A O SA
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>ECMC standards for soil (mg/kg) ⁽¹⁾</i>			6 - 8.3	<6	<4	2
<i>Site Specific Background Limits</i>			8.65	10.8	7.46	
<i>Produced Water Vault Soil Samples</i>						
PW-B01 @ 4'	8/3/2023	4	8.14	0.700	0.228	0.129
PW-W01 @ 2'	8/3/2023	2	8.04	0.149	0.152	<0.0984
<i>Tank Battery Soil Samples</i>						
SEP-B01 @ 3'	8/3/2023	3	7.83	0.196	0.366	0.526
SEP-B02 @ 5'	8/3/2023	5	7.97	0.179	0.299	0.288
AST-B01 @ 3"	8/3/2023	0.25	7.38	0.555	6.61	0.162
DL-B01 @ 4'	8/3/2023	4	8.00	0.408	0.545	0.312
DL-B02 @ 4'	8/3/2023	4	8.14	0.121	0.217	0.131
AST-B01-1 @ 6"	8/25/23	0.5	8.29	NA	0.469	NA
DL-B01 @ 6'	10/5/23	6	NA	NA	0.613	NA
DL-N01 @ 4'	10/5/23	4	NA	NA	0.546	NA
DL-S01 @ 4'	10/5/23	4	NA	NA	0.928	NA
DL-E01 @ 4'	10/5/23	4	NA	NA	0.300	NA
DL-W01 @ 4'	10/5/23	4	NA	NA	0.333	NA
DL-B03 @ 15'	10/27/23	15	NA	NA	1.90	NA
DL-B04 @ 15'	10/27/23	15	NA	NA	2.07	NA
DL-B05 @ 15'	10/27/23	15	NA	NA	1.77	NA
DL-B06 @ 15'	10/27/23	15	NA	NA	2.10	NA
DL-N02 @ 4'	10/27/23	4	NA	NA	0.994	NA
DL-N02 @ 6'	10/27/23	6	NA	NA	1.62	NA
DL-E02 @ 6'	10/27/23	6	NA	NA	0.800	NA
DL-E03 @ 6'	10/27/23	6	NA	NA	0.519	NA
DL-E04 @ 6'	10/27/23	6	NA	NA	1.29	NA
DL-S02 @ 6'	10/27/23	6	NA	NA	1.87	NA
DL-S03 @ 6'	10/27/23	6	NA	NA	3.98	NA
DL-W02 @ 6'	10/27/23	6	NA	NA	2.20	NA
DL-W03 @ 6'	10/27/23	6	NA	NA	1.82	NA
DL-W04 @ 6'	10/27/23	6	NA	NA	1.36	NA
DL-N03 @ 6'	12/4/23	6	NA	NA	1.59	NA
DL-W05 @ 6'	12/4/23	6	NA	NA	1.30	NA
DL-E05 @ 6'	12/4/23	6	NA	NA	1.36	NA
DL-N04 @ 5'	12/4/23	5	NA	NA	0.584	NA
DL-N05 @ 5'	12/4/23	5	NA	NA	0.726	NA
DL-N06 @ 5'	12/4/23	5	NA	NA	0.976	NA
DL-N07 @ 5'	12/4/23	5	NA	NA	0.844	NA
DL-W06 @ 5'	12/4/23	5	NA	NA	0.185	NA
DL-W07 @ 5'	12/4/23	5	NA	NA	0.236	NA

TABLE 3
COOPER 12-10A O SA
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)
ECMC standards for soil (mg/kg) ⁽¹⁾			6 - 8.3	<6	<4	2
DL-S04 @ 5'	12/4/23	5	NA	NA	0.678	NA
DL-S05 @ 5'	12/4/23	5	NA	NA	0.486	NA
DL-S06 @ 5'	12/4/23	5	NA	NA	0.215	NA
DL-S07 @ 5'	12/4/23	5	NA	NA	0.612	NA
DL-B07 @ 15'	12/4/23	15	NA	NA	1.33	NA
DL-B08 @ 15'	12/4/23	15	NA	NA	1.58	NA
DL-B09 @ 15'	12/4/23	15	NA	NA	1.73	NA
DL-B10 @ 15'	12/4/23	15	NA	NA	1.70	NA
DL-B11 @ 15'	12/4/23	15	NA	NA	1.03	NA
DL-B12 @ 15'	12/4/23	15	NA	NA	1.40	NA
DL-B13 @ 15'	12/4/23	15	NA	NA	1.21	NA
DL-E06 @ 6'	2/29/24	6	NA	NA	0.215	NA
Background Soil Samples						
PW-BG02 @ 3'	8/3/2023	3	8.07	3.60	1.28	0.636
PW-BG02 @ 6'	8/3/2023	6	8.01	1.55	0.403	0.292
WH-BG03 @ 3"	8/25/2023	0.25	8.20	0.218	0.182	0.241
WH-BG04 @ 3"	8/25/2023	0.25	8.20	0.288	0.211	0.258
WH-BG05 @ 3"	8/25/2023	0.25	8.19	0.261	0.187	0.257
WH-BG06 @ 3"	8/25/2023	0.25	7.79	0.107	0.458	<0.102
PW-BG03 @ 15'	12/4/2023	15	NA	NA	1.14	NA
PW-BG04 @ 15'	12/4/2023	15	NA	NA	1.60	NA
Wellhead Background Soil Samples (Four Raith Unit 1)						
WH-BG01 @ 3'	6/20/2023	3	8.33	6.00	4.51	0.915
WH-BG01 @ 6'	6/20/2023	6	8.26	6.65	7.46	1.06
WH-BG02 @ 3'	6/20/2023	3	8.17	5.12	3.49	1.07
WH-BG02 @ 6'	6/20/2023	6	7.88	5.49	4.46	1.07
WH-BG03 @ 3'	6/20/2023	3	8.09	3.48	4.72	1.27
WH-BG03 @ 6'	6/20/2023	6	8.11	6.31	3.83	1.09
WH-BG04 @ 7'	1/10/2024	7	8.45	5.35	NA	0.817
WH-BG04 @ 14'	1/10/2024	14	8.42	5.80	NA	1.01
WH-BG05 @ 7'	1/10/2024	7	8.33	3.70	NA	1.04
WH-BG05 @ 14'	1/10/2024	14	8.65	5.62	NA	1.03
WH-BG06 @ 7'	3/12/2024	7	8.26	4.82	NA	1.32
WH-BG06 @ 15'	3/12/2024	15	8.29	4.96	NA	1.92
WH-BG07 @ 7'	3/12/2024	7	8.07	3.87	NA	1.33
WH-BG07 @ 15'	3/12/2024	15	8.13	3.30	NA	0.888
WH-BG08 @ 7'	3/12/2024	7	8.34	5.01	NA	1.67
WH-BG08 @ 15'	3/12/2024	15	8.27	4.06	NA	1.26
WH-BG09 @ 7'	3/12/2024	7	8.19	3.56	NA	0.771

TABLE 3
COOPER 12-10A O SA
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)
ECMC standards for soil (mg/kg) ⁽¹⁾			6 - 8.3	<6	<4	2
WH-BG09 @ 15'	3/12/2024	15	8.21	3.67	NA	1.09
Wellhead Background Soil Samples (HSR-Cooper 12-10A)						
WH-BG01 @ 3'	7/31/2023	3	7.73	9.74	0.122	<0.0994
WH-BG01 @ 6'	7/31/2023	6	7.57	7.53	0.199	<0.100
WH-BG02 @ 3'	7/31/2023	3	8.16	7.80	0.204	<0.0991
WH-BG02 @ 6'	7/31/2023	6	8.29	8.93	0.486	0.103
WH-BG03 @ 3'	7/31/2023	3	8.29	9.80	0.192	<0.100
WH-BG03 @ 6'	7/31/2023	6	8.27	10.8	0.204	<0.102
WH-BG04 @ 3'	7/31/2023	3	8.44	10.7	0.197	<0.0998
WH-BG04 @ 6'	7/31/2023	6	8.14	8.00	0.227	<0.0985

Notes:

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

ECMC = 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

NA = Not Analyzed

mg/L = Milligrams per liter

SAR = Sodium Absorption Ratio

EC = Electrical Conductivity

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

TABLE 4
COOPER 12-10A O SA
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)
ECMC 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
ECMC 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
DL-B01 @ 4'	8/3/2023	0.021	0.036	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
DL-B02 @ 4'	8/3/2023	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
DL-B01 @ 6'	10/5/23	0.200	0.898	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-N01 @ 4'	10/5/23	<0.002	0.006	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-S01 @ 4'	10/5/23	<0.002	0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-E01 @ 4'	10/5/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-W01 @ 4'	10/5/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-B03 @ 15'	10/27/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-B04 @ 15'	10/27/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-B05 @ 15'	10/27/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-B06 @ 15'	10/27/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-N02 @ 4'	10/27/23	0.002	0.003	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-N02 @ 6'	10/27/23	0.015	0.037	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-E02 @ 6'	10/27/23	0.002	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-E03 @ 6'	10/27/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-E04 @ 6'	10/27/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-S02 @ 6'	10/27/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-S03 @ 6'	10/27/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-W02 @ 6'	10/27/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-W03 @ 6'	10/27/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-W04 @ 6'	10/27/23	0.035	0.086	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-N03 @ 6'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-W05 @ 6'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-E05 @ 6'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-N04 @ 5'	12/4/23	0.027	0.070	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-N05 @ 5'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-N06 @ 5'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-N07 @ 5'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-W06 @ 5'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-W07 @ 5'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-S04 @ 5'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-S05 @ 5'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-S06 @ 5'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-S07 @ 5'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-B07 @ 15'	12/4/23	0.009	0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-B08 @ 15'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-B09 @ 15'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-B10 @ 15'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-B11 @ 15'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-B12 @ 15'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-B13 @ 15'	12/4/23	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DL-E06 @ 6'	2/29/24	<0.002	<0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

⁽¹⁾ Standards 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 = Energy and Carbon Management Commission

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

mg/kg = milligrams per kilogram

PAH = Polycyclic Aromatic Hydrocarbons

NA = Not Analyzed

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

TABLE 5
Cooper 10-12A O SA
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)
<i>ECMC standards for soil (mg/kg) ⁽¹⁾</i>		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
<i>ECMC standards for soil (mg/kg) ⁽²⁾</i>		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
Tank Battery Soil Samples											
DL-B01 @ 4'	8/3/2023	1.93	58.7	0.120	<0.244	<9.31	<9.31	<9.31	<0.0931	<0.0931	<93.1
DL-B02 @ 4'	8/3/2023	1.90	63.2	0.106	<0.244	<8.44	<8.44	<8.44	<0.0844	<0.0844	<84.4
DL-B01 @ 6'	10/5/23	3.53	129	0.131	NA	NA	NA	NA	NA	NA	NA
DL-N01 @ 4'	10/5/23	1.58*	70.6	0.117	NA	NA	NA	NA	NA	NA	NA
DL-S01 @ 4'	10/5/23	1.54*	68	0.105	NA	NA	NA	NA	NA	NA	NA
DL-E01 @ 4'	10/5/23	1.38*	60	0.171	NA	NA	NA	NA	NA	NA	NA
DL-W01 @ 4'	10/5/23	1.47*	62.2	0.16	NA	NA	NA	NA	NA	NA	NA
DL-B03 @ 15'	10/27/23	4.73*	44.5	0.177	NA	NA	NA	NA	NA	NA	NA
DL-B04 @ 15'	10/27/23	5.28	47.4	0.318	NA	NA	NA	NA	NA	NA	NA
DL-B05 @ 15'	10/27/23	5.39	86.8*	0.259	NA	NA	NA	NA	NA	NA	NA
DL-B06 @ 15'	10/27/23	5.14	36.7	0.211	NA	NA	NA	NA	NA	NA	NA
DL-N02 @ 4'	10/27/23	3.96	156	0.0908	NA	NA	NA	NA	NA	NA	NA
DL-N02 @ 6'	10/27/23	3.59	126	0.165	NA	NA	NA	NA	NA	NA	NA
DL-E02 @ 6'	10/27/23	2.97*	63.8	<0.0880	NA	NA	NA	NA	NA	NA	NA
DL-E03 @ 6'	10/27/23	1.33*	45.9	<0.0944	NA	NA	NA	NA	NA	NA	NA
DL-E04 @ 6'	10/27/23	3.27	193	0.114	NA	NA	NA	NA	NA	NA	NA
DL-S02 @ 6'	10/27/23	2.98*	113	0.151	NA	NA	NA	NA	NA	NA	NA
DL-S03 @ 6'	10/27/23	2.64*	102	<0.0922	NA	NA	NA	NA	NA	NA	NA
DL-W02 @ 6'	10/27/23	3.07*	113	0.143	NA	NA	NA	NA	NA	NA	NA
DL-W03 @ 6'	10/27/23	3.05*	111	0.134	NA	NA	NA	NA	NA	NA	NA
DL-W04 @ 6'	10/27/23	4.06	146	0.142	NA	NA	NA	NA	NA	NA	NA
DL-N03 @ 6'	12/4/23	1.24*	78.2	0.103	NA	NA	NA	NA	NA	NA	NA
DL-W05 @ 6'	12/4/23	1.46*	53	0.0411	NA	NA	NA	NA	NA	NA	NA
DL-E05 @ 6'	12/4/23	2.08*	130	0.121	NA	NA	NA	NA	NA	NA	NA
DL-N04 @ 5'	12/4/23	1.58*	69.6	0.0712	NA	NA	NA	NA	NA	NA	NA
DL-N05 @ 5'	12/4/23	2.01*	67.9	0.0735	NA	NA	NA	NA	NA	NA	NA
DL-N06 @ 5'	12/4/23	1.26*	83.9*	0.0753	NA	NA	NA	NA	NA	NA	NA
DL-N07 @ 5'	12/4/23	1.49*	82.4*	0.0814	NA	NA	NA	NA	NA	NA	NA
DL-W06 @ 5'	12/4/23	1.29*	55.7	0.0494	NA	NA	NA	NA	NA	NA	NA
DL-W07 @ 5'	12/4/23	1.03*	45.8	0.0356	NA	NA	NA	NA	NA	NA	NA
DL-S04 @ 5'	12/4/23	1.48*	65.4	0.075	NA	NA	NA	NA	NA	NA	NA

TABLE 5
Cooper 10-12A O SA
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)
ECMC standards for soil (mg/kg) ⁽¹⁾		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
DL-S05 @ 5'	12/4/23	1.21*	121*	0.133	NA	NA	NA	NA	NA	NA	NA
DL-S06 @ 5'	12/4/23	0.988*	43.9	0.0327	NA	NA	NA	NA	NA	NA	NA
DL-S07 @ 5'	12/4/23	0.864*	59.8	0.0936	NA	NA	NA	NA	NA	NA	NA
DL-B07 @ 15'	12/4/23	1.48*	61.3	0.0906	NA	NA	NA	NA	NA	NA	NA
DL-B08 @ 15'	12/4/23	3.85*	44.8	0.192	NA	NA	NA	NA	NA	NA	NA
DL-B09 @ 15'	12/4/23	5.14	195*	0.192	NA	NA	NA	NA	NA	NA	NA
DL-B10 @ 15'	12/4/23	2.59*	76	0.103	NA	NA	NA	NA	NA	NA	NA
DL-B11 @ 15'	12/4/23	2.73*	300*	0.141	NA	NA	NA	NA	NA	NA	NA
DL-B12 @ 15'	12/4/23	2.5*	46.9	0.128	NA	NA	NA	NA	NA	NA	NA
DL-B13 @ 15'	12/4/23	2.26*	110*	0.209	NA	NA	NA	NA	NA	NA	NA
DL-E06 @ 6'	2/29/24	1.32*	48.9	<0.0835	NA	NA	NA	NA	NA	NA	NA
Background Soil Samples											
PW-BG02 @ 3'	8/3/2023	1.53	76.0	<0.0875	<0.247	<8.75	<8.75	<8.75	<0.0875	<0.0875	<87.5
PW-BG02 @ 6'	8/3/2023	1.24	50.9	<0.0881	<0.244	<8.81	<8.81	<8.81	<0.0881	<0.0881	<88.1
PW-BG03 @ 15'	12/4/2023	3.93	106	0.161	NA	NA	NA	NA	NA	NA	NA
PW-BG04 @ 15'	12/4/2023	3.63	267	0.162	NA	NA	NA	NA	NA	NA	NA
Wellhead Background Soil Samples (Four Raith Unit 1)											
WH-BG01 @ 3'	6/20/2023	3.34	55.1	0.154	<0.5	20.3	<9.47	<9.47	0.135	<0.0947	<94.7
WH-BG01 @ 6'	6/20/2023	3.22	50.8	0.201	<0.505	22.8	11.6	<8.96	0.224	<0.0896	<89.6
WH-BG02 @ 3'	6/20/2023	3.62	57.8	0.178	<0.509	19.9	10.1	10.5	0.161	<0.0879	<87.9
WH-BG02 @ 6'	6/20/2023	3.11	102	0.234	<0.502	24.0	12.6	<9.93	0.232	<0.0993	<99.3
WH-BG03 @ 3'	6/20/2023	3.16	95.2	0.212	<0.5	20.0	11.6	<9.39	0.176	<0.0939	<93.9
WH-BG03 @ 6'	6/20/2023	2.86	47.5	<0.0836	<0.505	32.3	<8.36	<16.7	0.214	<0.0836	<167
WH-BG04 @ 7'	1/10/2024	0.536	7.19	0.0701	NA	1.48	1.35	2.17	0.0266	NA	NA
WH-BG04 @ 14'	1/10/2024	2.85	44.9	0.183	NA	<9.81	8.04	7.50	0.149	NA	NA
WH-BG05 @ 7'	1/10/2024	2.34	57.2	0.218	NA	<8.85	9.09	8.61	0.147	NA	NA
WH-BG05 @ 14'	1/10/2024	16.4	38.9	0.361	NA	16.1	13.2	8.78	0.396	NA	NA
WH-BG06 @ 7'	3/12/2024	3.65	119	0.414	NA	10.9	10.5	11.4	0.425	NA	NA
WH-BG06 @ 15'	3/12/2024	3.96	47.8	0.352	NA	12.0	10.1	14.1	0.335	NA	NA
WH-BG07 @ 7'	3/12/2024	3.33	46.0	0.273	NA	15.9	12.0	10.3	0.503	NA	NA
WH-BG07 @ 15'	3/12/2024	3.33	43.4	0.221	NA	9.69	9.19	11.2	<0.228	NA	NA
WH-BG08 @ 7'	3/12/2024	3.34	45.7	0.399	NA	20.7	16.4	11.9	0.494	NA	NA
WH-BG08 @ 15'	3/12/2024	4.04	58.3	0.360	NA	16.0	11.4	14.6	0.359	NA	NA

TABLE 5
Cooper 10-12A O SA
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)
ECMC standards for soil (mg/kg) ⁽¹⁾		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WH-BG09 @ 7'	3/12/2024	3.38	50.2	0.232	NA	13.4	10.8	12.8	0.371	NA	NA
WH-BG09 @ 15'	3/12/2024	3.28	51.0	0.402	NA	14.8	10.4	13.8	0.503	NA	NA
Wellhead Background Soil Samples (HSR-Cooper 12-10A)											
WH-BG01 @ 3'	7/31/2023	1.07	33.8	<0.0936	<0.5	<9.36	<9.36	<9.36	<0.0936	<0.0936	<93.6
WH-BG01 @ 6'	7/31/2023	1.10	35.8	<0.0932	<0.507	<9.32	<9.32	<9.32	<0.0932	<0.0932	<93.2
WH-BG02 @ 3'	7/31/2023	1.55	39.2	<0.0929	<0.502	<9.29	<9.29	<9.29	<0.0929	<0.0929	<92.9
WH-BG02 @ 6'	7/31/2023	2.31	69.9	<0.0972	<0.5	<9.72	9.84	<9.72	0.152	<0.0972	<97.2
WH-BG03 @ 3'	7/31/2023	1.36	43.6	<0.0877	<0.507	<8.77	<8.77	<8.77	<0.0877	<0.0877	<87.7
WH-BG03 @ 6'	7/31/2023	1.16	36.6	<0.0863	<0.509	<8.63	<8.63	<8.63	<0.0863	<0.0863	<86.3
WH-BG04 @ 3'	7/31/2023	0.972	40.3	<0.0910	<0.5	<9.10	<9.10	<9.10	<0.0910	<0.0910	<91.0
WH-BG04 @ 6'	7/31/2023	0.943	38.7	<0.0916	<0.515	<9.16	<9.16	<9.16	<0.0916	<0.0916	<91.6

Notes:

⁽¹⁾ Standards 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 = Energy and Carbon Management Commission

NA = Not Analyzed

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

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

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

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

TABLE 6
Cooper 12-10A O SA
GROUNDWATER RESULTS SUMMARY TABLE - VOCs
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethylbenzene (µg/L)	1,3,5- Trimethylbenzene (µg/L)
ECMC Standards for Groundwater (µg/L) ⁽¹⁾		5	560	700	1400	140	67	67
Groundwater Samples								
GW-01	10/05/23	<1.00	<1.00	44.9	130	21.4	54.4	24.6
GW-02	10/27/23	<1.00	<1.00	8.96	80.9	<2.00	33.1	28.0
GW-03	12/04/23	1.04	1.89	12.5	81.0	<2.00	3.93	18.2

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

ECMC = Energy & Carbon Management Commission

µg/L = micrograms per liter

< = Analytical result is less than the laboratory reporting limit

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