

TABLE 1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
HSR-NELSON 10-32 FLOWLINE
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)
FLOWLINE POTHOLE SAMPLES								
PH01 (Rem No. 28474)	4/21/2023	5	0.3	NS	NO	40.18346174	-104.9093194	N
PH01A/FL01@6' (Rem No. 28474)	4/21/2023	6	0.2	NS	NO	40.18362461	-104.9093566	Y
PH01B (Rem No. 28474)	4/21/2023	2	0.4	NS	NO	40.18352709	-104.9092762	N
PH01C (Rem No. 28474)	4/21/2023	2	0.2	NS	NO	40.18347241	-104.9093028	N
PH01 (Rem No. 28474)	4/21/2023	2	0.1	NS	NO	40.18363297	-104.9092751	N
PH02 (Rem No. 28474)	4/21/2023	4	0.1	NS	NO	40.18348161	-104.9092757	N
PH02 (Rem No. 28474)	4/21/2023	3	0.1	NS	NO	40.18306029	-104.9093317	N
PH03 (Rem No. 28474)	4/21/2023	4	0.1	NS	NO	40.18327645	-104.9092767	N
PH03 (Rem No. 28474)	4/21/2023	3	0.0	NS	NO	40.18306029	-104.9093317	N
PH04 (Rem No. 28474)	4/21/2023	3	0.3	NS	NO	40.18305915	-104.909278	N
PH04 (Rem No. 28474)	4/21/2023	4	0.2	NS	NO	40.18287843	-104.909279	N
PH05 (Rem No. 28474)	4/21/2023	4	0.2	NS	NO	40.18287843	-104.909279	N
PH05 (Rem No. 28474)	4/24/2023	3	0.5	NS	NO	40.18270291	-104.9093246	N
PH06 (Rem No. 28474)	4/24/2023	4	1.9	NS	NO	40.18269472	-104.9092795	N
PH06 (Rem No. 28474)	4/24/2023	3	0.0	NS	NO	40.18251058	-104.909318	N
PH07 (Rem No. 28474)	4/24/2023	3	1.1	NS	NO	40.18250806	-104.9092803	N
PH07/PH08 (Rem No. 28474)	4/24/2023	3	0.0	NS	NO	40.18232021	-104.9092889	N
PH08 (Rem No. 28474)	4/24/2023	3	0.0	NS	NO	40.18213505	-104.909317	N
PH09 (Rem No. 28474)	4/24/2023	3	0.0	NS	NO	40.18213986	-104.909282	N
PH09 (Rem No. 28474)	4/24/2023	2	0.0	NS	NO	40.18195082	-104.9093214	N
PH10 (Rem No. 28474)	4/24/2023	3	0.4	NS	NO	40.18195459	-104.909284	N
PH10 (Rem No. 28474)	4/24/2023	3	0.0	NS	NO	40.18176382	-104.9093302	N
PH11 (Rem No. 28474)	4/24/2023	4	0.0	NS	NO	40.18176219	-104.9092846	N
PH11(A) (Rem No. 28474)	5/3/2023	3	0.0	NS	NO	40.18153368	-104.9093131	N
PH11(B) (Rem No. 28474)	5/3/2023	3	0.0	NS	NO	40.18138094	-104.9093204	N
PH11(C) (Rem No. 28474)	5/3/2023	3	0.0	NS	NO	40.18128889	-104.9093446	N
PH11(D) (Rem No. 28474)	5/3/2023	3	0.0	NS	NO	40.18123262	-104.9094189	N
PH12 (Rem No. 28474)	5/3/2023	3	0.7	NS	NO	40.18153382	-104.9092851	N
PH13 (Rem No. 28474)	5/3/2023	3	0.0	NS	NO	40.18137971	-104.909286	N
PH14/FL02@5' (Rem No. 28474)	5/3/2023	5	3.2	NS	NO	40.18115854	-104.909315	Y
PH11(E) (Rem No. 28474)	5/4/2023	3	0.1	NS	NO	40.18121398	-104.9095642	N
PH11(F) (Rem No. 28474)	5/4/2023	3	0.0	NS	NO	40.18121407	-104.9096555	N
PH11(G) (Rem No. 28474)	5/4/2023	3	0.0	NS	NO	40.18122409	-104.9097719	N
PH11(H) (Rem No. 28474)	5/4/2023	3	0.0	NS	NO	40.18121873	-104.9098692	N

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Soil Sample Location	Date	Depth (ft. bgs)	PID Reading (ppm)	Visual Observation	Olfactory Observation	Latitude	Longitude	Submitted for Lab Analysis? (Y/N)
FLOWLINE POTHOLE SAMPLES								
PH11(I) (Rem No. 28474)	5/4/2023	4	0.1	NS	NO	40.18121539	-104.9099498	N
PH15 (Rem No. 28474)	5/5/2023	3	0.0	NS	NO	40.18117295	-104.9094501	N
PH16/FL03@4' (Rem No. 28474)	5/5/2023	4	1756	NS	Odor	40.18118449	-104.9096747	Y
BACKGROUND SOIL SAMPLES								
Native-BG01@2' (Rem No. 28474)	5/4/2023	2	0.0	NS	NO	40.1813112	-104.9097996	Y
Native-BG01@4' (Rem No. 28474)	5/4/2023	4	0.0	NS	NO	40.1813112	-104.9097996	Y
Native-BG02@2' (Rem No. 28474)	5/4/2023	2	0.0	NS	NO	40.18127449	-104.9101238	Y
Native-BG02@4' (Rem No. 28474)	5/4/2023	4	0.0	NS	NO	40.18127449	-104.9101238	Y

Notes:

ft. - feet	NS - No Staining
bgs - below ground surface	NO - No Odor
PID - Photoionization detector	NA - Not Analyzed/Not Applicable
ppm - parts per million	

TABLE 2-1
SOIL SAMPLE ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS AND TOTAL PETROLEUM HYDROCARBONS
HSR-NELSON 10-32 FLOWLINE
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)
Groundwater Protection Values (GPV)			500	500	500	0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038
FLOWLINE POTHOLE SAMPLES												
FL01@6' (Rem No. 28474)	4/21/2023	6	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
FL02@5' (Rem No. 28474)	5/3/2023	5	<0.200	<25.0	<100	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380
FL03@4' (Rem No. 28474)	5/5/2023	4	2790	4970	2050	4.22	78.0	13.1	165	55.5	23.2	<0.00201

TABLE 2-2
SOIL SAMPLE ANALYTICAL RESULTS
POLYCYCLIC AROMATIC HYDROCARBONS
HSR-NELSON 10-32 FLOWLINE
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)
Groundwater Protection Values (GPV)			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
FLOWLINE POTHOLE SAMPLES																
FL01@6' (Rem No. 28474)	4/21/2023	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL02@5' (Rem No. 28474)	5/3/2023	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL03@4' (Rem No. 28474)	5/5/2023	4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201	<0.00067

TABLE 2-3
SOIL SAMPLE ANALYTICAL RESULTS
SOIL SUITABILITY FOR RECLAMATION
HSR-NELSON 10-32 FLOWLINE
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)
Groundwater Protection Values (GPV)			4	6	6-8.3	2
FLOWLINE POTHOLE SAMPLES						
FL01@6' (Rem No. 28474)	4/21/2023	6	2.04	5.03	8.47*	1.37
FL02@5' (Rem No. 28474)	5/3/2023	5	2.15	3.16	7.86	1.51
FL03@4' (Rem No. 28474)	5/5/2023	4	4.02*	3.95	7.17	1.18
BACKGROUND SAMPLES						
Native-BG01@2' (Rem No. 28474)	5/4/2023	2	7.11	11.4	7.59	0.967
Native-BG01@4' (Rem No. 28474)	5/4/2023	4	2.80	6.95	8.23	0.729
Native-BG02@2' (Rem No. 28474)	5/4/2023	2	6.94	16.9	8.24	0.534
Native-BG02@4' (Rem No. 28474)	5/4/2023	4	3.99	10.4	8.25	0.475

TABLE 2-4
SOIL SAMPLE ANALYTICAL RESULTS
METALS
HSR-NELSON 10-32 FLOWLINE
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)
Groundwater Protection Value (GPV)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FLOWLINE POTHOLE SAMPLES												
FL01@6' (Rem No. 28474)	4/21/2023	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL02@5' (Rem No. 28474)	5/3/2023	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
FL03@4' (Rem No. 28474)	5/5/2023	4	3.60*	200*	0.144	<0.5	17.4	13.1	15.7	0.219	<0.0910	<91.0
BACKGROUND SAMPLES												
Native-BG01@2' (Rem No. 28474)	5/4/2023	2	4.90	197	0.240	<0.5	16.7	10.7	14.6	0.245	<0.0880	<88.0
Native-BG01@4' (Rem No. 28474)	5/4/2023	4	5.18	256	0.146	<0.5	21.1	13.3	18.7	0.148	<0.0893	<89.3
Native-BG02@2' (Rem No. 28474)	5/4/2023	2	3.85	159	0.180	<0.5	14.0	9.21	12.6	0.287	<0.0900	<90.0
Native-BG02@4' (Rem No. 28474)	5/4/2023	4	4.99	169	0.149	<0.5	14.4	11.1	14.5	0.173	<0.0943	<94.3

TABLE 2-5
SOIL SAMPLE ANALYTICAL RESULTS
NOTES
HSR-NELSON 10-32 FLOWLINE
WELD COUNTY, COLORADO
KERR-MCGEE OIL AND GAS ONSHORE, LP

Notes:

GPV - Groundwater Protection Values (mg/kg)

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

*Exceeds Table 915-1 allowable level but below analytical variability of background

EC - Electrical Conductivity

SAR - Sodium Adsorption Ratio

mmhos/cm - millimhos per centimeter

<0.00200 - less than laboratory reporting limit

NA - Not Analyzed/Not Applicable

Bold - exceeds Table 915-1 allowable level and background