

Table 2

Soil Analytical Results - Stockpile and Backgrounds
Hiawatha Deep 4-36
Moffat County, Colorado

Analyte	COGCC Table 915-1 RSSL Concentrations	Sample ID	Soil Pile 01	BG01	BG02	BG03	BG03	BG03
		Date Sampled	10/21/2021	9/2/2021	9/2/2021	11/5/2021	11/5/2021	11/5/2021
		Depth (feet)	--	0-0.5	0-0.5	4	6	8
Volatile Organic Compounds (VOCs)		Units						
Benzene	1.2	mg/kg	<0.0020	--	--	--	--	--
Toluene	490	mg/kg	<0.0050	--	--	--	--	--
Ethylbenzene	5.8	mg/kg	<0.0050	--	--	--	--	--
Xylenes (total)	58	mg/kg	<0.010	--	--	--	--	--
1,2,4-trimethylbenzene	30	mg/kg	<0.0050	--	--	--	--	--
1,3,5-trimethylbenzene	27	mg/kg	<0.0050	--	--	--	--	--
Naphthalene	2	mg/kg	<0.0038	--	--	--	--	--
Gasoline Range Organics (GRO)	NPS	mg/kg	<0.50	--	--	--	--	--
Extractable Petroleum Hydrocarbons (DRO)	NPS	mg/kg	<50	--	--	--	--	--
Extractable Petroleum Hydrocarbons (ORO)	NPS	mg/kg	<50	--	--	--	--	--
Total Petroleum Hydrocarbons (TPH)	500	mg/kg	<100.50	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	360	mg/kg	<0.00500	--	--	--	--	--
Anthracene	1800	mg/kg	<0.00500	--	--	--	--	--
Benz(a)anthracene	1.1	mg/kg	<0.00500	--	--	--	--	--
Benzo(a)pyrene	0.11	mg/kg	<0.00500	--	--	--	--	--
Benzo(b)fluoranthene	1.1	mg/kg	<0.00500	--	--	--	--	--
Benzo(k)fluoranthene	11	mg/kg	<0.00500	--	--	--	--	--
Chrysene	110	mg/kg	<0.00500	--	--	--	--	--
Dibenzo(a,h)anthracene	0.11	mg/kg	<0.00500	--	--	--	--	--
Fluoranthene	240	mg/kg	<0.00500	--	--	--	--	--
Fluorene	240	mg/kg	<0.00500	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	1.1	mg/kg	<0.00500	--	--	--	--	--
Pyrene	180	mg/kg	<0.00500	--	--	--	--	--
1-Methylnaphthalene	18	mg/kg	<0.00500	--	--	--	--	--
2-Methylnaphthalene	24	mg/kg	<0.00500	--	--	--	--	--
Total Metals								
Arsenic	0.68	mg/kg	24.5	18.6	20.4	24.1	22.4	25.9
Barium	15,000	mg/kg	168	--	--	--	--	--
Cadmium	71	mg/kg	0.510	--	--	--	--	--
Copper	3,100	mg/kg	18.6	--	--	--	--	--
Lead	400	mg/kg	10.7	--	--	--	--	--
Nickel	1,500	mg/kg	17.3	--	--	--	--	--
Selenium	390	mg/kg	1.45	--	--	--	--	--
Silver	390	mg/kg	0.0680	--	--	--	--	--
Zinc	23,000	mg/kg	81.9	--	--	--	--	--
Chromium, Hexavalent	0.3	mg/kg	<0.30	--	--	--	--	--
Reclamation Suitability Parameters								
Sodium Absorption Ratio	6	--	9.26	0.325	0.135	11.6	11.5	10.9
Boron	2	mg/L	0.515	--	--	--	--	--
pH	6-8.3	--	7.94	--	--	--	--	--
Specific Conductance (EC)	4	mmhos/cm	7.20	0.363	0.406	9.83	9.84	10.3

Notes

COGCC - Colorado Oil and Gas Conservation Commission

RSSL - Residential Soil Screening Level

NPS - no published standard

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

mmhos/cm - millimhos per centimeter

< = less than the indicated laboratory reporting limit

Bold - Indicates result exceeds the applicable regulatory standard

-- - not applicable