

Table 1
Emerald 9 Injection Lateral Spill
Soil Data Summary

SAMPLE SUMMARY	
Location Description	Emerald 9 Injection Lateral Spill
Sample Type	Soil

Sample ID	LABORATORY DATA SUMMARY															COCCG TABLE 916-1 CONCENTRATION LEVELS	ECMC TABLE 916-1 CONCENTRATION LEVELS	PROTECTION OF	UNITS
	EMB-SS1	EMB-SS1	EMB-SS1	EMB-SS2	EMB-SS2	EMB-SS2	EMB-SS3	EMB-SS3	EMB-SS3	EMB-POR (ORIGIN)	EMB-BG1	EMB-BG1	LNHAX-BG1	LNHAX-BG3	EM 93X-BGN				
Depth	0'F	0'F	0'F	0'F	0'F	0'F	0'F	0'F	0'F	0'F	0'F	0'F	0'F	0'F	0'F				
Sample Date	3/29/2019	4/29/2021	9/4/2024	3/29/2019	4/29/2021	9/4/2024	3/29/2019	4/29/2021	9/4/2024	12/1/2025	3/29/2019	4/29/2021	6/1/2018	11/12/2025	6/9/2025				
Analytical Parameters																			
PHI																			
TPH Gasoline Range Organics	NT	<4.8	NT	NT	<4.8	NT	NT	<5.4	NT	<2.93	NT	NT	<6.6	NT	NT	500	500	500	mg/kg
TPH Diesel Range Organics	NT	12.1	NT	NT	12.1	NT	NT	<11	NT	5.3 J	NT	18.1	NT	NT	NT	NT	NT	NT	mg/kg
TPH Oil Range Organics	NT	NT	25.3	NT	NT	26.6	NT	NT	NT	2.15 J	NT	66.1	NT	NT	NT	NT	NT	NT	mg/kg
BTEX																			
Benzene	NT	<0.037 H	NT	NT	<0.034 H	NT	NT	<0.037 H	NT	<0.0117	NT	NT	<0.040	NT	NT	0.17	1.2	0.0305	mg/kg
Toluene	NT	<0.037 H	NT	NT	<0.034 H	NT	NT	<0.037 H	NT	<0.0117	NT	NT	<0.040	NT	NT	65	490	0.691	mg/kg
Ethylbenzene	NT	<0.037 H	NT	NT	<0.034 H	NT	NT	<0.037 H	NT	<0.0117	NT	NT	<0.040	NT	NT	100	5.8	0.78	mg/kg
Total Xylene	NT	<0.11 H	NT	NT	<0.10 H	NT	NT	<0.11 H	NT	<0.117	NT	NT	<0.12	NT	NT	175	58	9.8	mg/kg
1,2,4-trimethylbenzene	NT	NT	<0.005	NT	NT	<0.005	NT	NT	<0.005	<0.00565	NT	NT	NT	NT	NT	NA	30	0.0081	mg/kg
1,3,5-trimethylbenzene	NT	NT	<0.005	NT	NT	<0.005	NT	NT	<0.005	<0.00565	NT	NT	NT	NT	NT	NA	27	0.0087	mg/kg
Metals																			
Arsenic	NT	7.9	NT	NT	8.0	NT	NT	8.8	NT	9.88	NT	6.6	7.0	8.77	6.14	0.39	0.68	0.29	mg/kg
Barium	NT	170	NT	NT	140	NT	NT	140	NT	125	NT	93	110	160	118	15,000	15,000	62	mg/kg
Cadmium	NT	<0.15	NT	NT	<0.71	NT	NT	0.25 J	NT	0.37	NT	0.16 J	0.12 J	0.449	0.179	70	71	0.38	mg/kg
Chromium, Hexavalent	NT	<1.1	<1.00	NT	<1.1	<1.00	NT	<1.0	NT	<0.217	NT	<1.0	<1.2	<0.228	<0.200	23	0.3	0.00067	mg/kg
Copper	NT	17	NT	NT	17	NT	NT	17	NT	14.1	NT	14	13	15.2	12.0	3,100	3,100	46	mg/kg
Lead	NT	15	NT	NT	14	NT	NT	14	NT	17.3	NT	12	12	18	13.2	400	400	14	mg/kg
Nickel	NT	19	NT	NT	19	NT	NT	19	NT	20.1	NT	14	13	21.3	16.5	1,600	1,600	26	mg/kg
Selenium	NT	0.77 J	NT	NT	0.76	NT	NT	0.68 J	NT	1.71	NT	0.60 J	0.62 J	1.99	1.41	390	390	0.26	mg/kg
Silver	NT	<0.22	NT	NT	<0.36	NT	NT	<0.42	NT	<0.542	NT	<0.38	<0.47	<0.571	<0.500	390	390	0.8	mg/kg
Zinc	NT	78	NT	NT	76	NT	NT	75	NT	81.1	NT	61	68	83.3	66.8	23,000	23,000	370	mg/kg
Soil Suitability For Reclamation																			
Sodium Adsorption Ratio	0.59	NT	NT	4.0	11.0	2.79	3.9	NT	NT	3.25	NT	1.4	0.99	0.283	4.24	<12	<4	<6	ratio
Hot Water Soluble Boron	NT	NT	0.669	NT	NT	0.962 J	NT	NT	NT	0.696	NT	NT	NT	<0.100	5.89	NA	2	2	mg/L
Specific Conductivity	4.1	8.3	2.51	2.5	NT	NT	1.0	NT	NT	4.19	1.7	0.69	1.4	0.252	5.250	<4 or 2 x the background	<4	<4	mmhos/cm
pH	7.71	NT	NT	8.82	NT	8.34	8.99	NT	NT	7.97	NT	7.94	8.49	NT	7.99	6-8	6-8.3	6-8.3	su
Polynuclear Aromatic Hydrocarbons																			
Acenaphthene	NT	<0.0048	NT	NT	<0.0044	NT	NT	<0.0044	NT	<0.0358	NT	NT	<0.048	NT	NT	1,000	360	0.55	mg/kg
Anthracene	NT	<0.0048	NT	NT	<0.0044	NT	NT	<0.0044	NT	<0.0358	NT	NT	<0.048	NT	NT	1,000	1,800	5.8	mg/kg
Benzo[a]anthracene	NT	<0.0048	NT	NT	<0.0044	NT	NT	<0.0044	NT	<0.00651	NT	NT	<0.048	NT	NT	0.22	1.1	0.011	mg/kg
Benzo[b]fluoranthene	NT	<0.0048	NT	NT	<0.0044	NT	NT	<0.0044	NT	<0.0358	NT	NT	<0.048	NT	NT	0.22	1.1	0.3	mg/kg
Benzo[k]fluoranthene	NT	<0.0048	NT	NT	<0.0044	NT	NT	<0.0044	NT	<0.0358	NT	NT	<0.048	NT	NT	2.2	11.0	2.8	mg/kg
Benzo[a]pyrene	NT	<0.0048	NT	NT	<0.0044	NT	NT	<0.0044	NT	<0.0358	NT	NT	<0.048	NT	NT	0.022	0.11	0.24	mg/kg
Chrysene	NT	<0.0048	NT	NT	<0.0044	NT	NT	<0.0044	NT	<0.0358	NT	NT	<0.048	NT	NT	22	110	9	mg/kg
Dibenz[a,h]anthracene	NT	<0.0048	NT	NT	<0.0044	NT	NT	<0.0044	NT	<0.0358	NT	NT	<0.048	NT	NT	0.022	0.11	0.098	mg/kg
Fluorene	NT	<0.0048	NT	NT	<0.0044	NT	NT	<0.0044	NT	<0.0358	NT	NT	<0.048	NT	NT	1,000	240	8.9	mg/kg
Fluoranthene	NT	<0.0048	NT	NT	<0.0044	NT	NT	<0.0044	NT	<0.0358	NT	NT	<0.048	NT	NT	1,000	240	0.54	mg/kg
Indeno[1,2,3-cd]pyrene	NT	<0.0048	NT	NT	<0.0044	NT	NT	<0.0044	NT	<0.0358	NT	NT	<0.048	NT	NT	0.22	1.1	0.98	mg/kg
1-methylanthracene	NT	NT	<0.02	NT	NT	<0.02	NT	NT	NT	<0.02	NT	NT	<0.048	NT	NT	NA	18.00	0.006	mg/kg
2-methylanthracene	NT	NT	<0.02	NT	NT	<0.02	NT	NT	NT	<0.013	NT	NT	<0.048	NT	NT	NA	24.00	0.019	mg/kg
Naphthalene	NT	<0.0048	NT	NT	<0.0044	NT	NT	<0.0044	NT	<0.00105	NT	NT	<0.048	NT	NT	23	2	0.0036	mg/kg
Pyrene	NT	<0.0048	NT	NT	<0.0044	NT	NT	<0.0044	NT	<0.0358	NT	NT	<0.048	NT	NT	1,000	180	1.3	mg/kg

mg/kg - milligrams per kilogram
 mg/L - milligrams per liter
 J - indicates an estimated value
 H - highest number of sampling time
 NT - not detected
 NA - not analyzed
 NT - parameter was not tested

One ECOC Table 916-1 concentration level and not within BACKGROUND level
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 One ECOC Table 916-1 concentration level
 Background level