

		Emerald 155			
		9/9/2021			
Contaminant of Concern	Cleanup Concentration (mg/kg unless otherwise noted)	20210909_Emerald 155_AOC@3ft	20210909_Emerald 155_WH@3ft	20210909_Emerald 155_TP_COMP	20210909_Emerald 155_TP_DIS
Soil TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons)	500	ND	ND	ND	ND
GRO (C6-C10)		ND	ND	ND	ND
DRO (C10-C28)		ND	ND	ND	ND
ORO (C35)		ND	ND	ND	ND
Soils and Groundwater - liquid hydrocarbons including condensate and oil	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits	Below Visual Detection Limits
Electrical conductivity (EC) (by saturated paste method)	<4mmhos/cm	3.54	1.80	1.63	1.37
Sodium adsorption ratio (SAR) (by saturated paste method)	<6 SAR units	0.583	0.0194	0.118	0.107
pH (by saturated paste method)	6–8.3 pH units.	8.28	7.85	7.91	7.97
Boron (hot water soluble soil extract)	2 mg/l	0.468	0.326	0.108	0.164
Organic Compounds in Soils					
benzene	1.2	ND	ND	ND	ND
toluene	490	ND	ND	ND	ND
ethylbenzene	5.8	ND	ND	ND	ND
xylene (sum of o-, m- and p- isomers = total xylenes)	58	ND	ND	ND	ND
1,2,4-trimethylbenzene	30	ND	ND	ND	ND
1,3,5-trimethylbenzene	27	ND	ND	ND	ND
acenaphthene	360	ND	ND	ND	ND
anthracene	1800	ND	ND	ND	ND
benz(a)anthracene	1.1	ND	ND	ND	ND
benzo(b)fluoranthene	1.1	ND	ND	ND	ND
benzo(k)fluoranthene	11	ND	ND	ND	ND
benzo(a)pyrene	0.11	ND	ND	ND	ND
chrysene	110	ND	ND	ND	ND
dibenz(a,h)anthracene	0.11	ND	ND	ND	ND
fluoranthene	240	ND	ND	ND	ND
fluorene	240	ND	ND	ND	ND
indeno(1,2,3-cd)pyrene	1.1	ND	ND	ND	ND
pyrene	180	ND	ND	ND	ND
1-methylnaphthalene	18	ND	ND	ND	ND
2-methylnaphthalene	24	ND	ND	ND	ND
naphthalene	2	ND	ND	ND	ND
Metals in Soils					
arsenic	0.68	5.86	7.12	6.23	6.27
barium	15000	74.2	52.8	97.5	101
cadmium	71	ND	0.282	0.345	0.272
chromium (VI)	0.3	ND	ND	ND	ND
copper	3100	11.0	12.2	9.77	10.2
lead	400	12.5	12.9	12.2	11.9
nickel	1500	14.5	16.2	12.6	13.4
selenium	390	1.85	2.23	1.02	1.20
silver	390	0.0917	0.0678	0.0592	0.0617
zinc	23000	72.8	81.1	60.4	63.7

Greater than Table 915-1 Standards

Greater than Table 915-1
Standards but less than adjusted
standards (Highest background
level is the adjusted standard for
inorganics;
1.25X highest background level for
metals.)

*AOC = Area of Concern
* TP = Tailings Pile
* COMP = Composite Sample
* DIS = Discrete Sample
* WH = Wellhead
* FWP = Fresh Water Pond
* GS = Ground Surface