

Black Gold 32-33 Pit Table 915-1		8/8/2023				10/10/2023				11/9/2023		
CLEANUP CONCENTRATIONS		SS1	SS2	SS3	Native	SS1	SS2	SS3	Native	SS1	SS2	SS3
Contaminant of Concern	Concentrations	37.30197, -104.78531	37.30195, -104.78535	37.30186, -104.78528	37.30198, -104.78453	37.30197, -104.78531	37.30195, -104.78535	37.30186, -104.78528	37.30198, -104.78453	37.30197, -104.78531	37.30195, -104.78535	37.30186, -104.78528
Soil TPH (total volatile [C6-C10] and extractable [C10-C36] hydrocarbons)	500mg/kg					30	ND	44	ND			
Soils and Groundwater - liquid hydrocarbons including condensate and oil	below visual detection limits	NA	NA	NA	NA	NA	NA	NA	NA			
Soil Suitability for Reclamation												
Electrical conductivity (EC) (by saturated paste method)	<4mmhos/cm	1.4	1.7	1.4	0.64							
Sodium adsorption ratio (SAR) (by saturated paste method)	<6	8.6	1.8	15	ND	8.8		9.7		6.4		6.4
pH (by saturated paste method)	6-8.3	8.3	7.1	10.3	6.5							8.9
boron (hot water soluble soil extract)	2mg/l	ND	ND	ND	ND							
Organic Compounds in Groundwater												
benzene	5µg/l											
toluene	560 to 1,000µg/l											
ethylbenzene	700µg/l											
xylenes (sum of o-, m- and p- isomers = total xylenes)	1,400 to 10,000µg/l											
naphthalene	140µg/l											
1,2,4-trimethylbenzene	67µg/l											
1,3,5-trimethylbenzene	67µg/l											
Groundwater Inorganic Parameters												
total dissolved solids (TDS)	<1.25 X local background											
chloride ion	250mg/l or <1.25 X local background											
sulfate ion	250mg/l or <1.25 X local background											

Soils	Residential Soil Screening Level Concentrations (mg/kg)	Protection of Groundwater Soil Screening Level Concentrations (mg/kg)										
Organic Compounds in Soils												
benzene	1.2	0.0026 (M)				ND	ND	ND	ND			
toluene	490	0.69 (M)				ND	ND	ND	ND			
ethylbenzene	5.8	0.78 (M)				ND	ND	ND	ND			
xylenes (sum of o-, m- and p- isomers = total xylenes)	58	9.9 (M)				ND	ND	ND	ND			
1,2,4-trimethylbenzene	30	0.0081 (R)				ND	ND	ND	ND			
1,3,5-trimethylbenzene	27	0.0087 (R)				ND	ND	ND	ND			
acenaphthene	360	0.55 (R)				ND	0.0059	ND	ND			
anthracene	1800	5.8 (R)				0.0210	0.0100	ND	0.0160			
benzo(a)anthracene	1.1	0.3 (R)				0.0260	0.0130	ND	0.0230			
benzo(k)fluoranthene	11	2.9 (R)				0.0096	ND	ND	0.0068			
benzo(a)pyrene	0.11	0.24 (M)				0.0220	0.0076	ND	0.0170			
chrysene	110	9 (R)				0.0230	0.0240	0.0059	0.0180			
dibenzo(a,h)anthracene	0.11	0.096 (R)				ND	ND	ND	ND			
fluoranthene	240	8.9 (R)				0.0300	0.0120	ND	0.0240			
fluorene	240	0.54 (R)				ND	ND	ND	ND			
indeno(1,2,3-cd)pyrene	1.1	0.98 (R)				0.0140	ND	ND	0.0120			
1-methylnaphthalene	18	0.006 (R)				ND	0.0510	0.0097	ND			
2-methylnaphthalene	24	0.019 (R)				0.0077	0.0740	0.0140	ND			
naphthalene	2	0.0038 (R)				ND	ND	ND	ND			
pyrene	180	1.3 (R)				0.0340	0.0170	0.0061	0.0260			
Metals in Soils												
arsenic	0.68	0.29 (M)	2.2	1.7	1.9	2.1						
barium	15000	82 (M)	140	110	140	91						
cadmium	71	0.38 (M)	ND	ND	ND	ND						
chromium (VI)	0.3	0.00067 (R)	ND	ND	ND	ND						
copper	3100	46 (M)	14	10	13	6.2						
lead	400	14 (M)	9.4	6.5	7.4	5.5						
nickel	1500	28 (R)	11	8.9	10	7.3						
selenium	390	0.26 (M)	0.44	0.24	0.27	0.3						
silver	390	0.8 (R)	ND	ND	ND	ND						
zinc	23000	370 (R)	48	35	40	28						

The letter "(R)" following a protection of Groundwater soil screening level indicates the concentration is derived from a risk-based approach. The letter "(M)" following a protection of Groundwater soil screening level indicates the concentration is derived from the drinking water MCL.