

Red Rocks 35-08		1/29/2025	1/29/2025
CLEANUP CONCENTRATIONS		SS1 RR3508-DCA01	SS2 RR3508-BG01
Contaminant of Concern	Concentrations		
Soil TPH (total volatile [C6-C10] and extractable [C10- C36] hydrocarbons)	500mg/kg	20	15
Soils and Groundwater - liquid hydrocarbons including condensate and oil	below visual detection limits	0	0
Soil Suitability for Reclamation			
Electrical conductivity (EC) (by saturated paste method)	<4mmhos/cm	1.30	0.81
Sodium adsorption ratio (SAR) (by saturated paste method)	<6	0.32	0.19
pH (by saturated paste method)	6–8.3	8.4	8.3
boron (hot water soluble soil extract)	2mg/l	11	10
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
toluene	490	0.69 (M)	nd	nd
ethylbenzene	5.8	0.78 (M)	nd	nd
xylenes (sum of o-, m- and p- isomers = total xylenes)	58	9.9 (M)	nd	nd
1,2,4-trimethylbenzene	30	0.0081 (R)	nd	nd
1,3,5-trimethylbenzene	27	0.0087 (R)	nd	nd
acenaphthene	360	0.55 (R)	nd	nd
anthracene	1800	5.8 (R)	nd	nd
benz(a)anthracene	1.1	0.011 (R)	nd	nd
benzo(b)fluoranthene	1.1	0.3 (R)	nd	nd
benzo(k)fluoranthene	11	2.9 (R)	nd	nd
benzo(a)pyrene	0.11	0.24 (M)	nd	nd
chrysene	110	9 (R)	nd	nd
dibenzo(a,h)anthracene	0.11	0.096 (R)	nd	nd
fluoranthene	240	8.9 (R)	nd	nd
fluorene	240	0.54 (R)	0.0069	nd
indeno(1,2,3-cd)pyrene	1.1	0.98 (R)	nd	nd

1-methylnaphthalene	18	0.006 (R)	nd	nd
2-methylnaphthalene	24	0.019 (R)	nd	nd
naphthalene	2	0.0038 (R)	nd	nd
pyrene	180	1.3 (R)	nd	nd
Metals in Soils				
arsenic	0.68	0.29 (M)	6.90	6.90
barium	15000	82 (M)	220	270
cadmium	71	0.38 (M)	0.22	0.24
chromium (VI)	0.3	0.00067 (R)	0.19	nd
copper	3100	46 (M)	14	15
lead	400	14 (M)	10.0	11.0
nickel	1500	26 (R)	15	16
selenium	390	0.26 (M)	0.38	0.32
silver	390	0.8 (R)	0.043	0.056
zinc	23000	370 (R)	41	51

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.