

Table 3-1. Final Cleanup Levels for 200-ZP-1 Groundwater OU

COC	90 th Percentile Concentration	Federal MCL	State MCL	Model Toxics Control Act Method B Cleanup Levels		Final Cleanup Level
				Non-Carcinogens	Carcinogens at 10 ⁻⁵ Risk Level	
Carbon tetrachloride	2,900	5	5	5.6	3.4 ^b	3.4 ^c
Chromium (total)	130	100	100	24,000	—	100
Hexavalent chromium	203	N/A ^a	N/A ^a	48	—	48
Iodine-129	1.2	1	1	—	—	1
Nitrate (as N) ^d	81,050	10,000	10,000	25,600	—	10,000
Technetium-99	1,442	900	900	—	—	900
Trichloroethene	10.9	5	5	2.4	1 ^b	1 ^c
Tritium	36,200	20,000	20,000	—	—	20,000

Source: *Record of Decision Hanford 200 Area 200-ZP-1 Operable Unit Superfund Site, Benton County, Washington* (EPA et al., 2008).

Notes:

Units are “µg/L” for nonradionuclides and “pCi/L” for radionuclides.

Federal MCL values from 40 CFR 141, “National Primary Drinking Water Regulations,” with iodine-129 and technetium-99 values from EPA’s *Implementation Guidance for Radionuclides* (EPA 816-F-00-002).

State MCL values from WAC 246-290, “Public Water Supplies.”

a. There is no MCL specific to hexavalent chromium.

b. The Model Toxics Control Act Method B cleanup levels for carbon tetrachloride and trichloroethene are from Ecology’s Cleanup Levels and Risk Calculations (CLARC) table current as of September 25, 2008.

c. DOE will clean up COCs for the 200-ZP-1 OU subject to WAC 173-340, “Model Toxics Control Act – Cleanup” (carbon tetrachloride and trichloroethene), so the excess lifetime cancer risk does not exceed 1×10^{-5} at the conclusion of the remedy.

d. Nitrate may be expressed as total nitrate (NO₃) or as total nitrogen (N). The MCL for nitrate as NO₃ is 45,000 µg/L, and the same concentration expressed as N is 10,000 µg/L. Note that the EPA’s drinking water regulations are published as 10,000 µg/L.

COC = contaminant of concern

MCL = maximum contaminant level

DOE = U.S. Department of Energy

N/A = not applicable

Ecology = Washington State Department of Ecology

OU = operable unit

EPA = U.S. Environmental Protection Agency