Table F-3. Predicted Maximum Concentrations of Various Constituents at Metallurgical Laboratory Basin[a]

Constituent	Applicable standard[c]	Monitoring data maximum mean concentration[d]	Predicted maximum concentration[b]					
			No action		No removal and closure		Removal and closure	
			1-m well	100-m well	1-m well	100-m well	1-m well	100-m well
Tetrachloromethane	5.0×10^{-3}	(e)	1.6 (1993)	1.6 (1994)	3.8×10^{-1} (2086)	3.8×10^{-1} (2086)	1.3 (2001)	1.3 (2001)
1,1,1-trichloroethane	2.0×10^{-1}	(e)	5.3×10^{-1} (1994)	5.2×10^{-1} (1991)	(e)	(e)	4.4×10^{-1} (1999)	4.3×10^{-1} (1998)
Trichloroethylene	5.0×10^{-3}	4.5×10^{-1} (well AMB 2)	2.7×10^{-2} (1992)	2.6×10^{-2} (1992)	6.7×10^{-3} (2086)	6.7×10^{-3} (2086)	2.2×10^{-2} (2000)	2.1×10^{-2} (1998)
Tetrachloroethylene	7.0×10^{-4}	6.0×10^{-3} (Well AMB 2)	(f)	(f)	(f)	(f)	(f)	(f)
Nickel	1.3×10^{-2}	2.0×10^{-2} (Well AMB 2)	(f)	(f)	(f)	(f)	(f)	(f)
Gross alpha	10-20	7.4×10^{1} (well AMB 1A)	(f)	(f)	(f)	(f)	(f)	(f)
Gross beta	40-60	4.8×10^{1} (well AMB 1A)	(f)	(f)	(f)	(f)	(f)	(f)
Radium	6.0	1.0×10^{1} (well AMB 1A)	(f)	(f)	(f)	(f)	(f)	(f)

[a]Source: Adapted from Michael, Johnson, and Bledsoe, 1987. Concentrations are in milligrams per liter for chemicals and picocuries per liter for radionuclides.
[b]Number in parentheses represents year in which concentration is expected to be reached.
[c]EPA, 1985b, 1986, 1987.
[d]Data are for AMB series water table monitoring wells. Trichloroethylene and tetrachloroethylene concentrations are single well maxima.
[e]Below standard.
[f]Not modeled.

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