

Table 4-21. Peak Concentrations for Dedication Strategy, R-Area

Waste management facility	Site number	PATHRAE - Peak concentrations ^a							
		Chemicals (mg/L)			Radionuclides (pCi/L)				
		Pb	Trichloro-ethylene	Tetrachloro-ethylene	Cs-137	H-3	Sr-90	Y-90	
R-Area burning/rubble pits	3-1, 3-2	(b)	1.9 (1978)	(b)	(b)	(b)	(b)	(b)	TC
R-Area acid/caustic basin	3-3	0.054 (1971)	(b)	0.094 (1971)	(b)	(b)	(b)	(b)	
R-Area reactor seepage basins	3-7 through 3-12	(b)	(b)	(b)	3300 (1965)	1.5 x 10 ⁸ (1963)	9.3 x 10 ³ (2111)	9.3 x 10 ³ (2111)	TC
Standard ^c		0.05	0.005	0.0007	110	8.7 x 10 ⁴	42	550	

^aYear of occurrence in parentheses. Only the constituents with peak concentrations that exceed standards at one or more waste sites are given.

^bConstituent did not meet threshold selection criteria for PATHRAE modeling or peak concentration is within regulatory standard.

^cSources: EPA, 1985a, 1985b (tetrachloroethylene), and EPA, 1987. ICRP Publication 30 (ICRP, 1978) methodology was used to determine concentrations that yield an annual effective whole-body dose of 4 millirem.

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Table 4-22. Peak Concentrations for Dedication Strategy, C- and CS-Areas

Waste management facility	Site number	PATHRAE - Peak concentrations ^a				
		Chemicals (mg/L)			Radionuclides (pCi/L)	
		Cr	Pb	Trichloro-ethylene	H-3	
CS-Area burning/ rubble pits	4-1, 4-2, 4-3	(b)	(b)	1.9 (1978)	(b)	TC
C-Area burning/ rubble pits	4-4	(b)	(b)	1.9 (1978)	(b)	
Hydrofluoric acid spill area	4-5	(b)	0.07 (1975)	(b)	(b)	
Ford Building seepage basin	4-10	0.073 (2393)	(b)	(b)	1.1 x 10 ⁷ (1966)	TC
Standard ^c		0.05	0.05	0.005	8.7 x 10 ⁴	

^aYear of occurrence in parentheses. Only the constituents with peak concentrations that exceed standards at one or more waste sites are given.

^bConstituent did not meet threshold selection criteria for PATHRAE modeling or peak concentration is within regulatory standard.

^cSources: EPA, 1985a, 1987. ICRP Publication 30 (ICRP, 1978) methodology was used to determine concentrations that yield an annual effective whole-body dose of 4 millirem.

Table 4-23. Peak Concentrations for Dedication Strategy, TNX Area

Waste management facility	Site number	PATHRAE - Peak concentrations ^a					
		Chemicals (mg/L)					
		Ba	Cr	Pb	NO ₃	Trichloro-ethylene	Tetrachloro-methane
D-Area burning/rubble pits	5-1, 5-2	(b)	(b)	(b)	(b)	1.9 (1978)	(b)
TNX Burying Ground	5-3	(b)	(b)	(b)	12 (1958)	(b)	(b)
TNX seepage basin (old)	5-4	(b)	0.079 (1983)	0.056 (1983)	2100 (1983)	0.51 (1983)	0.029 (1983)
TNX seepage basin (new)	5-5	1.3 (2110)	0.062 (2614)	(b)	1000 (2005)	(b)	(b)
Standard ^c		1.0	0.05	0.05	10	0.005	0.005

^aYear of occurrence in parentheses. Only the constituents with peak concentrations that exceed standards at one or more waste sites are given.

^bConstituent did not meet threshold selection criteria for PATHRAE modeling or peak concentration is within regulatory standard.

^cSources: EPA, 1985a, 1987. ICRP Publication 30 (ICRP, 1978) methodology was used to determine concentrations that yield an annual effective whole-body dose of 4 millirem.

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