

Table F-25. Environmental Data for TNX-Area Waste Sites

Waste site	Areal extent of site (m)	Distance to nearest wetland (m)	Area of wetlands within 200 m/1000 m (acres)	Endangered species data	Non-PATHRAE-modeled contaminants exceeding freshwater biota criteria ^a			Area of groundwater outcrop; distance (m) to outcrop	Dilution factor ^d
					Contaminant	Reported level ^b	Criterion ^c		
D-Area burning/rubble pit 431-D ^e	15.2 x 82.9	240	0/No data available	No endangered species or suitable habitat seen within vicinity. ⁱ	pH	4.0	6.5-9.0	Savannah River; 1065	$1.54 \times 10^{-6}j$
					Silver	0.001	0.00014		
					Cadmium	0.0018	0.00024		
					Copper	0.011	0.0022		
					Iron	4.0	1.0		
					Mercury	0.0034	0.000012		
					Zinc	0.26	0.047		
					Gross beta	47.0	42.0		
					Radium	5.8	5.0		
D-Area burning/rubble pit 431-1D ^e	11.6 x 73.8	240	0/No data available	No endangered species or suitable habitat seen within vicinity of site. ⁱ	pH	4.0	6.5-9.0	Savannah River; 1065	$1.54 \times 10^{-6}j$
					Silver	0.001	0.00014		
					Cadmium	0.0018	0.00024		
					Copper	0.011	0.0022		
					Iron	4.0	1.0		
					Mercury	0.0034	0.000012		
					Zinc	0.26	0.047		
					Gross beta	47.0	42.0		
					Radium	5.8	5.0		
TNX burying ground (643-5G) ^f	20 x 20	250	0/192	No endangered species or suitable habitat seen within vicinity.	No data available			Savannah River; 400	1.87×10^{-7}
Old TNX seepage basin (904-76G) ^g	23 x 42	100	9.8/229	No endangered species or suitable habitat seen within vicinity.	ph	3.6	6.5-9.0	Savannah River; 300	2.20×10^{-7}
					Beryllium	0.037	0.0053		
					Cadmium	0.015	0.00024		
					Iron	62.0	1.0		
					Zinc	2.8	0.047		
					Copper	0.076	0.0022		
					Gross alpha	202.3	15.0		
					Gross beta	114.0	42.0		
					Radium	92.0	5.0		

Footnotes on last page of table.

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Table F-25. Environmental Data for TNX-Area Waste Sites (continued)

Waste site	Area ^a extent of site	Distance to nearest wetland (m)	Area of wetlands within 200 m/1000 m (acres)	Endangered species data	Non-PATHRAE-modeled contaminants exceeding freshwater biota criteria ^a			Area of groundwater outcrop; distance (m) to outcrop	Dilution factor
					Contaminant	Reported level ^b	Criterion ^c		
New TNX seepage basin (904-102G) ^h	Large basin, 30 x 205 Small basin, 3 x 6	200	0/196	No endangered species or suitable habitat seen within vicinity	<u>Basin water:</u> pH Silver Cadmium Copper Iron Mercury Lead Zinc	9.6 0.02 0.002 0.056 2.2 	6.5-9.0 0.00014 0.00024 0.0022 1.0 0.000012 0.00026 0.047	Savannah River; 610	1.21×10^{-6}
					<u>Ground-water:</u> pH Cadmium Copper Iron Mercury Lead Zinc	4.7 0.0016 0.01 8.3 0.0006 	6.5-9.0 0.00024 0.0022 1.0 0.000012 0.00026 0.047		

^aConcentrations are in milligrams per liter for chemicals and picocuries per liter for radionuclides.^bAverage value for groundwater well containing highest concentration.^cBased on ICRP 30, 1978; EPA 1985b,c; National Technical Advisory Committee, 1968.^dEquivalent to groundwater flux divided by flow of receiving stream.^eData from Huber, Johnson, and Marine, 1987, except where otherwise indicated.^fData from Dunaway, Johnson, Kingley, Simmons, and Bledsoe, 1987a, except as otherwise indicated.^gData from Dunaway, Johnson, Kingley, Simmons, Bledsoe, and Smith, 1987a, except as otherwise indicated.^hData from Dunaway, Johnson, Kingley, Simmons, and Bledsoe, 1987b, except as otherwise indicated.ⁱData on the area not given in site specific reference; however, based on other nearby waste sites, endangered species or suitable habitat are not expected.^jCalculations based on groundwater flux for C-Area burning/rubble pit.