

Table F-22. Environmental Data for C- and CS-Area Waste Sites

Waste site	Areal extent of site <sup>m</sup>	Distance to nearest wetland	Area of wetlands within 200 m/1000 m	Endangered species data	Non-PATHRAE-modeled groundwater contaminants exceeding freshwater biota criteria <sup>a</sup>			Area of ground-water outcrop; distance (m) to outcrop	Dilution factor <sup>d</sup>
					Contaminant	Reported level <sup>b</sup>	Criterion <sup>c</sup>		
CS-Area burning/rubble pit 631-1G <sup>e</sup>	9.1 x 61.0	150	No information	No endangered species or suitable habitats observed within vicinity <sup>1</sup>	pH	4.40	6.5-9.0	Four Mile Creek; 3355	1.75 x 10 <sup>-3j</sup>
					Cadmium	0.002	0.00022		
					Copper	0.009	0.002		
					Zinc	0.061	0.047		
CS-Area burning/rubble pit 631-5G <sup>e</sup>	10.7 x 117.3	150	No information	No endangered species or suitable habitats observed within vicinity <sup>1</sup>	pH	4.40	6.5-9.0	Four Mile Creek; 3355	1.75 x 10 <sup>-3j</sup>
					Cadmium	0.002	0.00022		
					Copper	0.009	0.002		
					Zinc	0.061	0.047		
CS-Area burning/rubble pit 631-6G <sup>e</sup>	9.1 x 88.4	600	o/No information	No endangered species or suitable habitats observed within vicinity <sup>1</sup>	No data available		Pen Branch 2135	2.2 x 10 <sup>-3j</sup>	
C-Area burning/rubble pit 131-C <sup>e</sup>	7.6 x 106.7	400	0/55.6	No endangered species or suitable habitats observed within vicinity	pH	5.06, 11.77	6.5-9.0	Four Mile Creek; 1250	8.75 x 10 <sup>-4</sup>
					Silver	0.003	0.00011		
					Cadmium	0.003	0.00022		
					Copper	0.006	0.002		
					Iron	5.249	1.0		
					Gross alpha	25.25	15.0		
					Radium	7.5	5.0		
Hydro-fluoric acid spill area 631-4G <sup>f</sup>	9.1 x 9.1	200	0/35	No endangered species or suitable habitats observed within vicinity	pH	4.40	6.5-9.0	Castor Creek; 500	1.26 x 10 <sup>-5</sup>
					Silver	0.001	0.00011		
					Chromium	0.008	0.002		
					Mercury	0.00023	0.000012		

TE

TC

F-134

Footnotes on last page of table.

Table F-22. Environmental Data for C- and CS-Area Waste Sites (continued)

Waste site	Areal extent of site	Distance to nearest wetland	Area of wetlands within 200 m/1000 m	Endangered species data <sup>a</sup>	Non-PATHRAE-modeled groundwater contaminants exceeding freshwater biota criteria			Area of groundwater outcrop; distance (m) to outcrop	Dilution factor <sup>d</sup>
					Contaminant	Reported level <sup>b</sup>	Criterion <sup>c</sup>		
Ford Bldg. waste site 643-11G <sup>g</sup>	6.7 x 51.5	600	0/22	No endangered species or suitable habitats observed within vicinity	No data available			No data available	
Ford Bldg. seepage basin 904-91G <sup>h</sup>	12 x 24	700	0/21	No endangered species or suitable habitats observed within vicinity	pH Cadmium Nickel	4.38 0.0016 0.023	6.5-9.0 0.00025 0.022	Tributary of Pen Branch; 300	1.36 x 10 <sup>-3</sup>

<sup>a</sup>Concentrations are in milligrams per liter for chemicals and picocuries per liter for radionuclides.

<sup>b</sup>Average value for groundwater well containing highest concentration.

<sup>c</sup>Based on ICRP 30, 1978; EPA, 1985b,c; National Technical Advisory Committee, 1968.

<sup>d</sup>Equivalent to groundwater flux divided by flow rate of receiving stream.

<sup>e</sup>Data from Huber, Johnson, and Marine, 1987, except as otherwise indicated.

<sup>f</sup>Data from Huber and Bledsoe, 1987a, except as otherwise indicated.

<sup>g</sup>Data from Huber, Simmons, Holmes, and Marine, 1987, except as otherwise indicated.

<sup>h</sup>Data from Pekkala, Jewell, Holmes, Simmons, and Marine, 1987, except as otherwise indicated.

<sup>i</sup>Data on area not given in site specific reference; however, based on other nearby waste sites, endangered species or suitable habitat are not expected.

<sup>j</sup>Calculation based on groundwater flux for C-Area burning/rubble pit.

F-135

TE

TC