

River Corridor Overview

Area	Primary Operations	Status of Waste Site Remediation ^a	Status of Ground-water ROD	Groundwater Contamination: Maximum Concentration and Plume Area						
				Carbon-14	Hexavalent Chromium	Nitrate	Strontium-90	Trichloro-ethene	Tritium	Uranium
100-BC	Reactor operations -- B Reactor 1944-69; C Reactor 1952-69	93% complete	None to date	N	63 µg/L	47 mg/L	43 pCi/L	2.43 µg/L	17,000 pCi/L	9 µg/L
100-K	Reactor operations -- KE Reactor 1955-71; KW Reactor 1955-70	59% complete	Interim action P&T	14,300 pCi/L	520 µg/L	74 mg/L	231	6.8 µg/L	414,000 pCi/L	7.7 µg/L
100-N	Reactor operations -- N Reactor 1963-87	92% complete	Interim action permeable reactive barrier	52 pCi/L	181 µg/L	186 mg/L	15,500 pCi/L	N	761,000 pCi/L	6.6 µg/L
100-D & 100-H	Reactor operations -- D Reactor 1944-67; DR Reactor 1950-64; H Reactor 1949-65	87% complete	Interim action P&T	N	3,440 µg/L	53 mg/L	36.4 pCi/L	N	20,400 pCi/L	52.1 µg/L
100-F	Reactor operations -- F Reactor 1945-65; Biological experiments until 1976	98% complete	Final action MNA	N	29 µg/L	146 mg/L	144 pCi/L	15.3 µg/L	5,500 pCi/L	21.1 µg/L
300	Nuclear fuel fabrication and research -- 1940s-1960s	91% complete	Final action enhanced attenuation, MNA	N	5.6 µg/L	(b)	1.9 pCi/L	83	994,000 pCi/L	358 µg/L
1100 and Offsite	Vehicle maintenance, 1954-85; solid waste landfill --1950s-1970	100% complete (final action ROD)	Final action MNA; goals met	N	N	(b)	N	0.71 µg/L	121 pCi/L	(b)
Standards ^c				2,000 pCi/L	10 µg/L	45 mg/L	8 pCi/L	5 µg/L	20,000 pCi/L	30 µg/L
Half-life (years)				5,730	N/A	N/A	28.8	N/A	12	>159,000
Mobility in subsurface				High	High to Moderate	High	Slight	Moderate	High	Moderate

Legend

Colors indicate maximum concentration in 2014

Height of bar indicates plume area above standard (km²)

	≥1,000 x standard		>10
	≥100 x standard and <1,000 x standard		>1 and ≤ 10
	≥10 x standard and <100 x standard		>0.1 and ≤ 1
	≥Standard and <10 x standard		>0, ≤0.1

N Not detected or not analyzed

NOTES

(a) Approximate percentage by number of waste sites classified as closed, interim closed, no action, rejected, or not accepted (end of 2014).

(b) Nitrate in 300-FF-5, and nitrate and uranium in 1100-EM-1, originates from offsite sources, so plume areas and maximum concentrations are not shown

(c) Drinking water standards for all but hexavalent chromium (aquatic standard)