

Table 4.21. Y-12 TCMP summary information for 1995^a

Site/Building	Test date	Species	NOEC ^b (%)	48-h LC ₅₀ ^c (%)	96-h LC ₅₀ ^d (%)	IWC ^e (%)
Groundwater Treatment Facility (Outfall 512)	4/5	<i>Ceriodaphnia</i>	0.5			2.09
		Fathead minnow	10			2.09
Outfall 201	5/3	<i>Ceriodaphnia</i>	100		>100	<i>f</i>
		Fathead minnow	100		>100	<i>f</i>
Outfall 201	5/10	<i>Ceriodaphnia</i>	80		>100	<i>f</i>
		Fathead minnow	100		>100	<i>f</i>
Outfall 201	5/17	<i>Ceriodaphnia</i>	<80		>100	<i>f</i>
		Fathead minnow	100		>100	<i>f</i>
Outfall 201	5/31	<i>Ceriodaphnia</i>	80		>100	<i>f</i>
		Fathead minnow	100		>100	<i>f</i>
Central Pollution Control Facility (Outfall 501)	5/31	<i>Ceriodaphnia</i>	100			0.23
		Fathead minnow	100			0.23
Outfall 201	6/7	<i>Ceriodaphnia</i>	80		>100	<i>f</i>
		Fathead minnow	100		>100	<i>f</i>
Outfall 201	6/14	<i>Ceriodaphnia</i>	100		>100	<i>f</i>
		Fathead minnow	80		>100	<i>f</i>
Groundwater Treatment Facility	6/15	<i>Ceriodaphnia</i>		>100		0.73
		Fathead minnow		>100		0.73
9422-11 Storm Sewer	6/15	<i>Ceriodaphnia</i>		38.5		<i>g</i>
		Fathead minnow		>100		<i>g</i>
9422-15 Storm Sewer	6/15	<i>Ceriodaphnia</i>		77.2		<i>g</i>
		Fathead minnow		>100		<i>g</i>
9422-12 Storm Sewer	6/17	<i>Ceriodaphnia</i>		37.3		<i>g</i>
		Fathead minnow		74.8		<i>g</i>
9422-16 Storm Sewer	6/17	<i>Ceriodaphnia</i>		>100		<i>g</i>
		Fathead minnow		>100		<i>g</i>
Central Pollution Control Facility (Outfall 501)	6/19	<i>Ceriodaphnia</i>		>100		0.40
		Fathead minnow		>100		0.40
Outfall 201	6/21	<i>Ceriodaphnia</i>	100		>100	<i>f</i>
		Fathead minnow	100		>100	<i>g</i>

^aThese 7-day chronic tests and 48-hour acute tests using fathead minnows and *Ceriodaphnia* were completed in 1995 as part of the TCMP conducted for the Y-12 Plant by ORNL. Summarized are the effluents and their corresponding no-observed-effect concentrations, 48- or 96-hour LC₅₀s, and in-stream waste concentrations (IWCs). Note: Discharge from the treatment facilities are intermittent because of batch operations.

^bNo-observed-effect concentrations.

^cThe concentration of effluent that is lethal to 50% of the test organisms in 48 hours.

^dThe concentration of effluent that is lethal to 50% of the test organisms in 96 hours. The 96-hour LC₅₀s were developed during the chronic tests.

^eThe IWC based on actual flows at East Fork Poplar Creek, station 8.

^fThis is an in-stream point; therefore, an IWC is not applicable.

^gThis point is in the storm sewer system; therefore, an IWC is not applicable.