

Table 4.24. 1995 toxicity test results of ORNL wastewaters and ambient water

Outfall	Test date	Treatment ^a	Fathead minnow NOEC ^b (%)	<i>Ceriodaphnia</i> NOEC ^b	IWC ^c (%)
Coal Yard Runoff Treatment Facility (X02)	May	N	100	50	0.5
	Nov	N	100	12	8.0
Sewage Treatment Plant (X01)	Apr	N	<i>d</i>	12	37.2
	Apr ^e	N	<i>d</i>	6	22.8
	July	N	<i>d</i>	50	24.5
	Sep	N	<i>d</i>	25	19.2
	Nov	N	<i>d</i>	12	15.7
Nonradiological Wastewater Treatment Plant (X12)	Apr	N	<i>d</i>	100	<i>f</i>
	Oct	N	<i>d</i>	100	<i>f</i>
Melton Branch (X13)	Feb	N	100	80	
		UV	100	<i>d</i>	
	Feb ^e	N	<i>d</i>	100	
	Apr	N	80	<i>g</i>	
		UV	100	<i>d</i>	
	May ^e	N	<i>g</i>	100	
		UV	<i>g</i>	<i>d</i>	
	May ^e	N	<80	<i>d</i>	
		UV	100	<i>d</i>	
	June	N	100	100	
		UV	100	<i>d</i>	
	Aug	N	100	100	
		UV	100	<i>d</i>	
	Oct	N	<80	100	
		UV	100	<i>d</i>	
	Nov ^e	N	<80	<i>d</i>	
	UV	100	<i>d</i>		
Dec	N	<80	80		
	UV	100	<i>d</i>		
Dec ^e	N	100	100		
	UV	100	<i>d</i>		
White Oak Creek (X14)	Feb	N	100	100	
		UV	100	<i>d</i>	
	Apr	N	80	<i>g</i>	
		UV	100	<i>d</i>	
	May	N	<i>g</i>	100	
		UV	<i>g</i>	<i>d</i>	
	May ^e	N	80	<i>d</i>	
		UV	100	<i>d</i>	
June	N	100	100		
	UV	100	<i>d</i>		
Aug	N	100	<80		
	UV	100	<i>d</i>		

Table 4.24 (continued)

Outfall	Test date	Treatment^a	Fathead minnow NOEC^b (%)	<i>Ceriodaphnia</i> NOEC^b	IWC^c (%)
	Sep ^e	N	<i>d</i>	100	
	Oct	N	100	100	
		UV	100	<i>d</i>	
	Dec	N	100	80	
		UV	100	<i>d</i>	
	Dec ^e	N	<i>d</i>	100	

^aN = no sample pretreatment; UV = ultraviolet light pretreatment.

^bNo-observed-effect concentration.

^cIn-stream waste concentration (based on critical low flow of White Oak Creek).

^dNot tested.

^eConfirmatory test.

^fNot calculated.

^gInvalid test.