

Table 4.20. NPDES compliance at the K-25 Site, 1995

Discharge point	Effluent parameter	Effluent limits				No. of noncompliances	Percentage of compliance
		Monthly av ^a	Daily max ^a	Monthly av (lb/day)	Daily max (lb/day)		
005 (K-1203 Sewage Treatment Facility)	Ammonia nitrogen	5	7	27	38		100
	Biochemical oxygen demand	15	20	81	109	1	99.4
	Chlorine, total residual	0.14	0.24			1	99.7
	Dissolved oxygen		5 ^b				100
	Fecal coliform, col/100 ml	200 ^c	400				100
	Flow, Mgd	<i>d</i>	<i>d</i>				100
	LC ₅₀ , <i>Ceriodaphnia</i> , %		14.6 ^b				100
	LC ₅₀ , <i>Pimephales</i> , %		14.6 ^b				100
	NOEL, ^e <i>Ceriodaphnia</i> , %		4.2 ^b				100
	NOEL, ^e <i>Pimephales</i> , %		4.2 ^b				100
	pH, standard units		6.0—9.0				100
	Settleable solids, mL/L		0.5				100
	Suspended solids	30	45	163	244		100
	Unpermitted discharge	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		<i>f</i>
	009 (K-1515-C Sanitary Water Plant)	Aluminum	1.0	2.0			
Chlorine, total residual			1.0				100
Flow, Mgd		<i>d</i>	<i>d</i>				100
pH, standard units			6.0—9.0				100
Settleable solids, mL/L			0.5				100
Suspended solids		30	40				100
Unpermitted discharge		<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		<i>f</i>
011 (K-1407-J Central Neutralization Facility to Poplar Creek)	1,1,1-Trichloroethane	<i>d</i>	<i>d</i>				100
	Acetone	<i>d</i>	<i>d</i>				100
	Acetonitrile	<i>d</i>	<i>d</i>				100
	Benzene	<i>d</i>	<i>d</i>				100
	Bromoform	<i>d</i>	<i>d</i>				100
	Cadmium	0.18	0.69				100
	Carbon tetrachloride	0.5	0.5				100
	Chemical oxygen demand	<i>d</i>	<i>d</i>				100
	Chloride, total	9711	39,479				100
	Chlorine, total residual		0.14				100
	Chlorodibromomethane	<i>d</i>	<i>d</i>				100
	Chloroform	0.5	0.5				100
	Chromium	1.71	2.77				100
	Copper	1.34	2.15				100
	Dichlorobromomethane	<i>d</i>	<i>d</i>				100
	Flow, Mgd	<i>d</i>	<i>d</i>				100
	Ethylbenzene	<i>d</i>	<i>d</i>				100
	Gross alpha, pCi/L	<i>d</i>	<i>d</i>				100
	Gross beta, pCi/L	<i>d</i>	<i>d</i>				100
	LC ₅₀ , <i>Ceriodaphnia</i> , %		7.05 ^b				100
	LC ₅₀ , <i>Pimephales</i> , %		7.05 ^b				100
Lead	0.38	0.69				100	
Methyl ethyl ketone	<i>d</i>	<i>d</i>				100	

Oak Ridge Reservation Annual Site Environmental Report for 1995

Table 4.20 (continued)

Discharge point	Effluent parameter	Effluent limits				No. of noncompliances	Percentage of compliance
		Monthly av ^a	Daily max ^a	Monthly av (lb/day)	Daily max (lb/day)		
	Methylene chloride	<i>d</i>	<i>d</i>				100
	Naphthalene	<i>d</i>	<i>d</i>				100
	Nickel	2.38	3.98				100
	NOEL, ^e <i>Ceriod</i>		2.11 ^b				100
	NOEL, ^e <i>Pimeph</i>		2.11 ^b				100
	Oil and grease		30				100
	PCB	0.00014	0.00014				100
	pH, standard units		6.0—9.0				100
	Silver	0.24	0.43				100
	Suspended solids		40				100
	Temperature, °C	<i>g</i>	<i>g</i>				100
	Tetrachloroethylene		0.7				100
	Toluene	<i>d</i>	<i>d</i>				100
	Total toxic organics		2.13				100
	Trichloroethylene	0.5	0.5				100
	Unpermitted discharge	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		<i>f</i>
	Uranium, total	<i>d</i>	<i>d</i>				100
	Vinyl chloride	0.2	0.2				100
	Zinc	1.48	2.61				100
013 (K-1513 Sanitary Water Intake and Backwash filter)	Visual inspection of receiving stream						
014 (K-1407-J Central Neutralization Facility to Clinch River)	1,1,1-Trichloroethane	<i>d</i>	<i>d</i>				100
	Acetone	<i>d</i>	<i>d</i>				100
	Acetonitrile	<i>d</i>	<i>d</i>				100
	Benzene	<i>d</i>	0.005				100
	Bromoform	<i>d</i>	<i>d</i>				100
	Cadmium	0.18	0.69				100
	Carbon tetrachloride	0.5	0.5				100
	Chemical oxygen demand	<i>d</i>	<i>d</i>				100
	Chloride, total	35,000	70,000				100
	Chlorine, total residual		1.0				100
	Chlorodibromomethane	<i>d</i>	<i>d</i>				100
	Chloroform	0.5	0.5				100
	Chromium	1.71	2.77				100
	Copper	1.34	2.15				100
	Dichlorobromomethane	<i>d</i>	<i>d</i>				100
	Flow, Mgd	<i>d</i>	<i>d</i>				100
	Ethylbenzene	<i>d</i>	0.01				100
	Gross alpha, pCi/L	<i>d</i>	<i>d</i>				100
	Gross beta, pCi/L	<i>d</i>	<i>d</i>				100
	Lead	0.38	0.69				100
	Methyl ethyl ketone	<i>d</i>	<i>d</i>				100
	Methylene chloride	<i>d</i>	<i>d</i>				100
	Naphthalene	<i>d</i>	<i>d</i>				100
	Nickel	2.38	3.98				100

Table 4.20 (continued)

Discharge point	Effluent parameter	Effluent limits				No. of noncompliances	Percentage of compliance
		Monthly av ^a	Daily max ^a	Monthly av (kg/d)	Daily max (kg/d)		
	Oil and grease		30				100
	PCB	0.00022	0.00045				100
	Petroleum hydrocarbons	<i>d</i>	<i>d</i>	0.1			100
	pH, standard units		6.0—9.0				100
	Silver	0.24	0.43				100
	Suspended solids		40				100
	Tetrachloroethylene		0.7				100
	Toluene	<i>d</i>	<i>d</i>	0.01			100
	Total toxic organics		2.13				100
	Trichloroethylene	0.5	0.5				100
	Unpermitted discharge	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		<i>f</i>
	Uranium, total	<i>d</i>	<i>d</i>				100
	Vinyl chloride	0.2	0.2				100
	Zinc	1.48	2.61				100
Category I storm drains	Flow, Mgd	<i>d</i>	<i>d</i>				100
	pH, standard units		4.0—9.0				100
	Unpermitted discharge	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		<i>f</i>
Category II storm drains	Flow, Mgd	<i>d</i>	<i>d</i>				100
	pH, standard units		4.0—9.0				100
	Suspended solids	<i>d</i>	<i>d</i>				100
	Unpermitted discharge	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		<i>f</i>
Category III storm drains	Flow, Mgd	<i>d</i>	<i>d</i>				100
	Oil and grease	<i>d</i>	<i>d</i>				100
	pH, standard units		4.0—9.0				100
	Suspended solids	<i>d</i>	<i>d</i>				100
	Unpermitted discharge	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>	2	<i>f</i>
Category IV storm drains (to Poplar Creek)	Chlorine, total residual		0.14			1	99.4
	Flow, Mgd	<i>d</i>	<i>d</i>				100
	Oil and grease	<i>d</i>	<i>d</i>				100
	pH, standard units		6.0—9.0				100
	Suspended solids	<i>d</i>	<i>d</i>				100
	Unpermitted discharge	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		<i>f</i>
Category IV storm drains (to Mitchell Branch)	Chlorine, total residual		0.019				100
	Flow, Mgd	<i>d</i>	<i>d</i>				100
	Oil and grease	<i>d</i>	<i>d</i>				100
	pH, standard units		6.0—9.0				100
	Suspended solids	<i>d</i>	<i>d</i>				100
	Unpermitted discharge	<i>f</i>	<i>f</i>	<i>f</i>	<i>f</i>		<i>f</i>

^aUnits are mg/L unless otherwise stated.

^bDaily minimum.

^cGeometric mean.

^dNonlimited parameter.

^eNo-observed-effect limit.

^fNot applicable.

^gEffluent must not cause the temperature of the receiving stream to exceed 30.5 °C.