

Surface Water Quality Standards



Acenaphthene				83-32-9				
Fresh Water	Human health (ppb)	670(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	990(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Acrolein				107-02-8				
Fresh Water	Human health (ppb)	6.1(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	9.3(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Acrylonitrile				107-13-1				
Fresh Water	Human health (ppb)	0.051(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.25(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Aldrin				309-00-2				
Fresh Water	Human health (ppb)	0.000049(hc)	Aquatic-acute (ppb)	3	Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.000050(hc)	Aquatic-acute (ppb)	1.3	Aquatic-chronic		Aquatic-general	
Ammonia				7664-41-7				
Fresh Water	Human health		Aquatic-acute	See N.J.A.C. 7:9B-1.14(e)	Aquatic-chronic	See N.J.A.C. 7:9B-1.14(e)	Aquatic-general	
Saline Water	Human health		Aquatic-acute	See N.J.A.C. 7:9B-1.14(e)	Aquatic-chronic	See N.J.A.C. 7:9B-1.14(e)	Aquatic-general	
Anthracene				120-12-7				
Fresh Water	Human health (ppb)	8,300(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	40,000(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Antimony (Total)				7440-36-0				
Fresh Water	Human health (ppb)	5.6(h)(T)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	640(h)(T)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Arsenic (Total)				7440-38-2				
Fresh Water	Human health (ppb)	0.017(hc)(T)	Aquatic-acute (ppb)	340(d)(s)	Aquatic-chronic (ppb)	150(d)(s)	Aquatic-general	
Saline Water	Human health (ppb)	0.061(hc)(T)	Aquatic-acute (ppb)	69(d)(s)	Aquatic-chronic (ppb)	36(d)(s)	Aquatic-general	

Surface Water Quality Standards



Asbestos				1332-21-4				
Fresh Water	Human health	7x10 ⁶ fibers/L >10µm(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	
Barium				7440-39-3				
Fresh Water	Human health (ppb)	2,000(h)(T)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)		Aquatic-acute		Aquatic-chronic		Aquatic-general	
Benzo(a)anthracene				56-55-3				
Fresh Water	Human health (ppb)	0.038(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.18(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Benzene				71-43-2				
Fresh Water	Human health (ppb)	0.15(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	3.3(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Benzidine				92-87-5				
Fresh Water	Human health (ppb)	0.000086(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.00020(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Benzo(a)pyrene(BaP)				50-32-8				
Fresh Water	Human health (ppb)	0.0038(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.018(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Benzo(b)fluoranthene (3,4-Benzofluoranthene)				205-99-2				
Fresh Water	Human health (ppb)	0.038(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.18(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Benzo(k)fluoranthene				207-08-9				
Fresh Water	Human health (ppb)	0.38(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	1.8(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	

Surface Water Quality Standards



Beryllium 7440-41-7								
Fresh Water	Human health (ppb)	6.0(h)(T)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	42(h)(T)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
alpha-BHC (alpha-HCH) (benzenehydrochloride) 319-84-6								
Fresh Water	Human health (ppb)	0.0026(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.0049(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
beta-BHC (beta-HCH) 319-85-7								
Fresh Water	Human health (ppb)	0.0091(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.017(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
BHC (gamma-HCH/Lindane) 58-89-9								
Fresh Water	Human health (ppb)	0.98(h)	Aquatic-acute (ppb)	0.95	Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	1.8(h)	Aquatic-acute (ppb)	0.16	Aquatic-chronic		Aquatic-general	
Bis(2-chloroethyl) ether (Dichloroethyl ether) 111-44-4								
Fresh Water	Human health (ppb)	0.030(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.53(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Bis(2-chloroisopropyl)ether 108-60-1								
Fresh Water	Human health (ppb)	1,400(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	65,000(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Bis(2-ethylhexyl) phthalate (DEHP) 117-81-7								
Fresh Water	Human health (ppb)	1.2(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	2.2(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	

Surface Water Quality Standards



Bromodichloromethane(Dichlorobromomethane) 75-27-4								
Fresh Water	Human health (ppb)	0.55(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	17(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Bromoform 75-25-2								
Fresh Water	Human health (ppb)	4.3(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	140(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Bromomethane (Methyl bromide) 74-83-9								
Fresh Water	Human health (ppb)	47(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	1,500(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Butyl benzyl phthalate 85-68-7								
Fresh Water	Human health (ppb)	150(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	190(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Cadmium 7440-43-9								
Fresh Water	Human health (ppb)	3.4(h)(T)	Aquatic-acute (ppb)	(a)	Aquatic-chronic (ppb)	(a)	Aquatic-general	
Saline Water	Human health (ppb)	16(h)(T)	Aquatic-acute (ppb)	40(d)(s)	Aquatic-chronic (ppb)	8.8(d)(s)	Aquatic-general	
Carbon Tetrachloride 56-23-5								
Fresh Water	Human health (ppb)	0.33(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	2.3(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Chlordane 57-74-9								
Fresh Water	Human health (ppb)	0.00010(hc)	Aquatic-acute (ppb)	2.4	Aquatic-chronic (ppb)	0.0043	Aquatic-general	
Saline Water	Human health (ppb)	0.00011(hc)	Aquatic-acute (ppb)	0.09	Aquatic-chronic (ppb)	0.004	Aquatic-general	
Chloride 16887-00-6								
Fresh Water	Human health (ppb)	250,000(ol)	Aquatic-acute (ppb)	860,000	Aquatic-chronic (ppb)	230,000	Aquatic-general	
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	

Surface Water Quality Standards



Chlorine Produced Oxidants 7782-50-5								
Fresh Water	Human health		Aquatic-acute (ppb)	19	Aquatic-chronic (ppb)	11	Aquatic-general	
Saline Water	Human health		Aquatic-acute (ppb)	13	Aquatic-chronic (ppb)	7.5	Aquatic-general	
Chlorobenzene 108-90-7								
Fresh Water	Human health (ppb)	210(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	2,500(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Chloroform 67-66-3								
Fresh Water	Human health (ppb)	68(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	2,100(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
2-Chloronaphthalene 91-58-7								
Fresh Water	Human health (ppb)	1,000(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	1,600(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
2-Chlorophenol 95-57-8								
Fresh Water	Human health (ppb)	81(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	150(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Chlorpyrifos 2921-88-2								
Fresh Water	Human health		Aquatic-acute (ppb)	0.083	Aquatic-chronic (ppb)	0.041	Aquatic-general	
Saline Water	Human health		Aquatic-acute (ppb)	0.011	Aquatic-chronic (ppb)	0.0056	Aquatic-general	
Chromium (III) 16065-83-1								
Fresh Water	Human health		Aquatic-acute (ppb)	(a)	Aquatic-chronic (ppb)	(a)	Aquatic-general	
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	
Chromium (Total) 7440-47-3								
Fresh Water	Human health (ppb)	92(h)(T)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	750(h)(T)	Aquatic-acute		Aquatic-chronic		Aquatic-general	

Surface Water Quality Standards



Chromium (VI) (soils= inhalation/dermatitis)				18540-29-9				
Fresh Water	Human health		Aquatic-acute (ppb)	15(d)(s)	Aquatic-chronic (ppb)	10(d)(s)	Aquatic-general	
Saline Water	Human health		Aquatic-acute (ppb)	1,100(d)(s)	Aquatic-chronic (ppb)	50(d)(s)	Aquatic-general	
Chrysene				218-01-9				
Fresh Water	Human health (ppb)	3.8(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	18(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Copper				7440-50-8				
Fresh Water	Human health (ppb)	1,300(h)(T)	Aquatic-acute (ppb)	(a)	Aquatic-chronic (ppb)	(a)	Aquatic-general	
Saline Water	Human health		Aquatic-acute (ppb)	4.8(d)(s)	Aquatic-chronic (ppb)	3.1(d)(s)	Aquatic-general	
Copper (site specific)				7440-50-8-site				
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health		Aquatic-acute (ppb)	7.9	Aquatic-chronic (ppb)	5.6	Aquatic-general	
Waterbodies- Newark Bay, Raritan Bay, Arthur Kill, Kill Van Kill, saline portions of the Passaic, Hackensack, and Hudson Rivers and saline portions of tributaries to all these waters.								
Cyanide (free cyanide)				57-12-5				
Fresh Water	Human health (ppb)	140(h)	Aquatic-acute (ppb)	22(fc)	Aquatic-chronic (ppb)	5.2(fc)	Aquatic-general	
Saline Water	Human health (ppb)	140(h)	Aquatic-acute (ppb)	2.7(fc)	Aquatic-chronic (ppb)	2.7(fc)	Aquatic-general	
4,4'DDD(p,p'-TDE)				72-54-8				
Fresh Water	Human health (ppb)	0.00031(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.000031(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
4,4'-DDE				72-55-9				
Fresh Water	Human health (ppb)	0.00022(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.00022(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	

Surface Water Quality Standards



4,4'-DDT				50-29-3				
Fresh Water	Human health (ppb)	0.00022(hc)	Aquatic-acute (ppb)	1.1	Aquatic-chronic (ppb)	0.0010	Aquatic-general	
Saline Water	Human health (ppb)	0.00022(hc)	Aquatic-acute (ppb)	0.13	Aquatic-chronic (ppb)	0.0010	Aquatic-general	
Demeton				8065-48-3				
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic (ppb)	0.1	Aquatic-general	
Saline Water	Human health		Aquatic-acute		Aquatic-chronic (ppb)	0.1	Aquatic-general	
Dibenz(a,h)anthracene				53-70-3				
Fresh Water	Human health (ppb)	0.0038(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	13(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Dibromochloromethane (Chlorodibromomethane)				124-48-1				
Fresh Water	Human health (ppb)	0.40(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	13(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
1,3-Dichlorobenzene(meta)				541-73-1				
Fresh Water	Human health (ppb)	2,200(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	8,300(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
1,2-Dichlorobenzene(ortho)				95-50-1				
Fresh Water	Human health (ppb)	2,000(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	6,200(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
1,4-Dichlorobenzene(para)				106-46-7				
Fresh Water	Human health (ppb)	550(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	2,200(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	

Surface Water Quality Standards



3,3'-Dichlorobenzidine				91-94-1			
Fresh Water	Human health (ppb)	0.021(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general
Saline Water	Human health (ppb)	0.028(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general
1,2-Dichloroethane				107-06-2			
Fresh Water	Human health (ppb)	0.29(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general
Saline Water	Human health (ppb)	28(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general
1,1-Dichloroethylene(1,1-DCE)				75-35-4			
Fresh Water	Human health (ppb)	4.7(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general
Saline Water	Human health (ppb)	100(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general
Trans-1,2-Dichloroethylene				156-60-5			
Fresh Water	Human health (ppb)	590(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general
Saline Water	Human health (ppb)	43,000(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general
2,4-Dichlorophenol				120-83-2			
Fresh Water	Human health (ppb)	77(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general
Saline Water	Human health (ppb)	290(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general
1,2-Dichloropropane				78-87-5			
Fresh Water	Human health (ppb)	0.50(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general
Saline Water	Human health (ppb)	15(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general
1,3-Dichloropropene (cis and trans)				542-75-6			
Fresh Water	Human health (ppb)	0.34(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general
Saline Water	Human health (ppb)	21(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general

Surface Water Quality Standards



Dieldrin				60-57-1				
Fresh Water	Human health (ppb)	0.000052(hc)	Aquatic-acute (ppb)	0.24	Aquatic-chronic (ppb)	0.056	Aquatic-general	
Saline Water	Human health (ppb)	0.000054(hc)	Aquatic-acute (ppb)	0.71	Aquatic-chronic (ppb)	0.0019	Aquatic-general	
Diethyl phthalate				84-66-2				
Fresh Water	Human health (ppb)	17,000(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	44,000(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
2,4-Dimethyl phenol				105-67-9				
Fresh Water	Human health (ppb)	380(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	850(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Di-n-butyl phthalate				84-74-2				
Fresh Water	Human health (ppb)	2,000(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	4,500(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
4,6-Dinitro-o-cresol (2-Methyl-4,6-Dinitrophenol)				534-52-1				
Fresh Water	Human health (ppb)	13(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	280(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
2,4-Dinitrophenol				51-28-5				
Fresh Water	Human health (ppb)	69(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	5,300(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
2,4-Dinitrotolulene				121-14-2				
Fresh Water	Human health (ppb)	0.11(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	3.4(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	

Surface Water Quality Standards



1,2-Diphenylhydrazine					122-66-7			
Fresh Water	Human health (ppb)	0.036 (hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.20(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Dissolved Oxygen								
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general (mg/L)	FW2-TP>7.0 FW2-TM >5.0, daily avg. >6.0, and Supersaturated DO expressed as 100% saturation value FW2-NT >4.0, daily avg. >5.0, Supersaturated DO expressed as 100% saturation value
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general (mg/L)	SC>5.0 SE1 >4.0, daily avg. >5.0, Supersaturated DO expressed as 100% saturation value SE2>4.0 SE3>3.0
E. coli								
Fresh Water	Human health (counts/100 mL)	126	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (counts/100 mL)	N/A	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Endosulfan (alpha and beta)					115-29-7			
Fresh Water	Human health (ppb)	62(h)	Aquatic-acute (ppb)	0.22	Aquatic-chronic (ppb)	0.056	Aquatic-general	
Saline Water	Human health (ppb)	89(h)	Aquatic-acute (ppb)	0.034	Aquatic-chronic (ppb)	0.0087	Aquatic-general	

Surface Water Quality Standards



Endosulfan Sulfate				1031-07-8				
Fresh Water	Human health (ppb)	62(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	89(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Endrin				72-20-8				
Fresh Water	Human health (ppb)	0.059(h)	Aquatic-acute (ppb)	0.086	Aquatic-chronic (ppb)	0.036	Aquatic-general	
Saline Water	Human health (ppb)	0.060(h)	Aquatic-acute (ppb)	0.037	Aquatic-chronic (ppb)	0.0023	Aquatic-general	
Endrin Aldehyde				7421-93-4				
Fresh Water	Human health (ppb)	0.059(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.060(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Ethylbenzene				100-41-4				
Fresh Water	Human health (ppb)	530(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	2,100(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Enterococci								
Fresh Water	Human health (counts/100 mL)	N/A	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (counts/100 mL)	35 (SE1 & SC)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Fecal Coliform								
Fresh Water	Human health (counts/100 mL)	N/A	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (counts/100 mL)	770 (SE2) 1500 (SE3)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Fluoranthene				206-44-0				
Fresh Water	Human health (ppb)	130(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	140(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	

Surface Water Quality Standards



Fluorene 86-73-7								
Fresh Water	Human health (ppb)	1,100(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	5,300(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Guthion 86-50-0								
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic (ppb)	0.01	Aquatic-general	
Saline Water	Human health		Aquatic-acute		Aquatic-chronic (ppb)	0.01	Aquatic-general	
Heptachlor 76-44-8								
Fresh Water	Human health (ppb)	0.000079(hc)	Aquatic-acute (ppb)	0.52	Aquatic-chronic (ppb)	0.0038	Aquatic-general	
Saline Water	Human health (ppb)	0.000079(hc)	Aquatic-acute (ppb)	0.053	Aquatic-chronic (ppb)	0.0036	Aquatic-general	
Heptachlor epoxide 1024-57-3								
Fresh Water	Human health (ppb)	0.000039(hc)	Aquatic-acute (ppb)	0.52	Aquatic-chronic (ppb)	0.0038	Aquatic-general	
Saline Water	Human health (ppb)	0.000039(hc)	Aquatic-acute (ppb)	0.053	Aquatic-chronic (ppb)	0.0036	Aquatic-general	
Hexachlorobenzene 118-74-1								
Fresh Water	Human health (ppb)	0.00028(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.00029(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Hexachlorobutadiene 87-68-3								
Fresh Water	Human health (ppb)	0.44(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	18(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Hexachlorocyclopentadiene 77-47-4								
Fresh Water	Human health (ppb)	40(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	1,100(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	

Surface Water Quality Standards



Hexachloroethane				67-72-1				
Fresh Water	Human health (ppb)	1.4(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	3.3(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Indeno (1,2,3-cd) pyrene				193-39-5				
Fresh Water	Human health (ppb)	0.038(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.18(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Isophorone				78-59-1				
Fresh Water	Human health (ppb)	35(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	960(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Lead (Total)				7439-92-1				
Fresh Water	Human health (ppb)	5.0(h)(T)	Aquatic-acute (ppb)	38(d)(s)	Aquatic-chronic (ppb)	5.4(d)(s)	Aquatic-general	
Saline Water	Human health		Aquatic-acute (ppb)	210(d)(s)	Aquatic-chronic (ppb)	24(d)(s)	Aquatic-general	
Malathion				121-75-5				
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic (ppb)	0.1	Aquatic-general	
Saline Water	Human health		Aquatic-acute		Aquatic-chronic (ppb)	0.1	Aquatic-general	
Manganese				7439-96-5				
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	100(h)(T)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Mercury (Total)				7439-97-6				
Fresh Water	Human health (ppb)	0.050(h)(T)	Aquatic-acute (ppb)	1.4(d)(s)	Aquatic-chronic (ppb)	0.77(d)(s)	Aquatic-general	
Saline Water	Human health (ppb)	0.051(h)(T)	Aquatic-acute (ppb)	1.8(d)(s)	Aquatic-chronic (ppb)	0.94(d)(s)	Aquatic-general	
Methoxychlor				72-43-5				
Fresh Water	Human health (ppb)	40(h)	Aquatic-acute		Aquatic-chronic (ppb)	0.03	Aquatic-general	
Saline Water	Human health		Aquatic-acute		Aquatic-chronic (ppb)	0.03	Aquatic-general	

Surface Water Quality Standards



Methyl tert butyl ether (MTBE) 1634-04-4								
Fresh Water	Human health (ppb)	70(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	
Methylene chloride 75-09-2								
Fresh Water	Human health (ppb)	2.5(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	310(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Mirex 2385-85-5								
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic (ppb)	0.001	Aquatic-general	
Saline Water	Human health		Aquatic-acute		Aquatic-chronic (ppb)	0.001	Aquatic-general	
Nickel (Soluble Salts) 7440-02-0								
Fresh Water	Human health (ppb)	500(h)(T)	Aquatic-acute (ppb)	(a)	Aquatic-chronic (ppb)	(a)	Aquatic-general	
Saline Water	Human health (ppb)	1,700(h)(T)	Aquatic-acute (ppb)	64(d)(s)	Aquatic-chronic (ppb)	22(d)(s)	Aquatic-general	
Nitrate 14797-55-8								
Fresh Water	Human health (ppb)	10,000(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	
Nitrobenzene 98-95-3								
Fresh Water	Human health (ppb)	17(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	690(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
N-nitrosodiethylamine 55-18-5								
Fresh Water	Human health (ppb)	0.00023(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.13(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
N-nitrosodimethylamine 62-75-9								
Fresh Water	Human health (ppb)	0.00069(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	3.0(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	

Surface Water Quality Standards



N-nitrosodi-n-butylamine 924-16-3								
Fresh Water	Human health (ppb)	0.0063(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.22(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
N-nitrosodi-n-propylamine(Di-n-propylnitrosamine) 621-64-7								
Fresh Water	Human health (ppb)	0.0050(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.51(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
N-nitrosodiphenylamine 86-30-6								
Fresh Water	Human health (ppb)	3.3(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	6.0(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
N-nitrosopyrrolidine 930-55-2								
Fresh Water	Human health (ppb)	0.016(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	34(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Nutrients								
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	
Nutrient concentrations shall not cause impairment to waterbody uses except under natural conditions.								
Odor								
Fresh Water	Human health	None Offensive	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health	None Offensive	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Oils, Grease, Petroleum, & Hydrocarbons								
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	None Noticeable
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	None Noticeable
Parathion 56-38-2								
Fresh Water	Human health		Aquatic-acute (ppb)	0.065	Aquatic-chronic (ppb)	0.013	Aquatic-general	
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	

Surface Water Quality Standards



PCBs (Polychlorinated biphenyls)					1336-36-3			
Fresh Water	Human health (ppb)	0.000064(hc)	Aquatic-acute		Aquatic-chronic (ppb)	0.014	Aquatic-general	
Saline Water	Human health (ppb)	0.000064(hc)	Aquatic-acute		Aquatic-chronic (ppb)	0.03	Aquatic-general	
Pentachlorobenzene					608-93-5			
Fresh Water	Human health (ppb)	1.4(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	1.5(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Pentachlorophenol					87-86-5			
Fresh Water	Human health (ppb)	0.27(hc)	Aquatic-acute (ppb)	(b)	Aquatic-chronic (ppb)	(b)	Aquatic-general	
Saline Water	Human health (ppb)	3.0(hc)	Aquatic-acute (ppb)	13	Aquatic-chronic (ppb)	7.9	Aquatic-general	
pH								
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	6.5-8.5 or 4.5-7.5, see N.J.A.C. 7:9B1.14(d)5(i & ii)
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	6.5-8.5 (SE) Natural Conditions (SC)
Phenol					108-95-2			
Fresh Water	Human health (ppb)	10,000(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	860,000(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Phosphorus-nutrients								
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general (mg/L)	Non-Tidal Streams <0.1, unless a watershed specific translator has been developed (N.J.A.C. 7:9B-1.5(g)2) Lakes <0.05, unless a watershed specific translator has been developed (N.J.A.C. 7:9B-1.5(g)2)
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	
Phosphorus (yellow)					7723-14-0			
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general (ppb)	0.1

Surface Water Quality Standards



Pyrene 129-00-0								
Fresh Water	Human health (ppb)	830(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	4,000(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Radioactivity								
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	Compliant with regulations of the Public Health Service Act §1412, 1445, & 1450 and Safe Drinking Water Act
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	Compliant with regulations of the Public Health Service Act §1412, 1445, & 1450 and Safe Drinking Water Act
Selenium (Total) 7782-49-2								
Fresh Water	Human health (ppb)	170(h)(T)	Aquatic-acute (ppb)	20(s)	Aquatic-chronic (ppb)	5.0(s)	Aquatic-general	
Saline Water	Human health (ppb)	4,200(h)(T)	Aquatic-acute (ppb)	290(d)(s)	Aquatic-chronic (ppb)	71(d)(s)	Aquatic-general	
Sulfide-Hydrogen Sulfide (undissociated) 7783-06-4								
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic (ppb)	2	Aquatic-general	
Saline Water	Human health		Aquatic-acute		Aquatic-chronic (ppb)	2	Aquatic-general	
Silver 7440-22-4								
Fresh Water	Human health (ppb)	170(h)(T)	Aquatic-acute (ppb)	(a)	Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	40,000(h)(T)	Aquatic-acute (ppb)	1.9(d)(s)	Aquatic-chronic		Aquatic-general	
Suspended Solids								
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general (mg/L)	FW2-TP & FW2-TM <25 FW2-NT <40
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general (mg/L)	SE & SC None which would render the water unsuitable for the designated uses
Taste								
Fresh Water	Human health	None Offensive	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health	None Offensive	Aquatic-acute		Aquatic-chronic		Aquatic-general	

Surface Water Quality Standards



Temperature								
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general (°C)	FW2-TP < 22.0; 7-Day Avg. < 19.0* FW2-TM < 25.0; 7-Day Avg. < 23.0* FW2-NT < 31.0; 7-Day Avg. < 28.0*
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general (°C)	SE Summer Seasonal Avg. < 29.4 SC Summer Seasonal Avg. < 26.7
*unless due to natural conditions								
1,2,4,5-Tetrachlorobenzene (TCB)						95-94-3		
Fresh Water	Human health (ppb)	0.97(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	1.1(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)						1746-01-6		
Fresh Water	Human health (ppb)	0.0000000050(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.0000000051(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
1,1,2,2-Tetrachloroethane						79-34-5		
Fresh Water	Human health (ppb)	4.7(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	110(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Tetrachloroethylene (PCE)						127-18-4		
Fresh Water	Human health (ppb)	0.34(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	1.6(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Thallium						7440-28-0		
Fresh Water	Human health (ppb)	0.24(h)(T)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	0.47(h)(T)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Toluene						108-88-3		
Fresh Water	Human health (ppb)	1,300(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	15,000(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	

Surface Water Quality Standards



Total Dissolved Solids								
Fresh Water	Human health		Aquatic-acute	No increase to background levels exceeding water quality based WET limitations or causing LC50 ≥ 50%	Aquatic-chronic		Aquatic-general (ppb)	Background levels or <500,000
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general	SE: None of which would render the water unsuitable for the designated uses
WET- Whole Effluent Toxicity								
Toxaphene					8001-35-2			
Fresh Water	Human health (ppb)	0.00028(hc)	Aquatic-acute (ppb)	0.73	Aquatic-chronic (ppb)	0.0002	Aquatic-general	
Saline Water	Human health (ppb)	0.00028(hc)	Aquatic-acute (ppb)	0.21	Aquatic-chronic (ppb)	0.0002	Aquatic-general	
1,2,4-Trichlorobenzene					120-82-1			
Fresh Water	Human health (ppb)	21(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	42(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
1,1,2-Trichloroethane					79-00-5			
Fresh Water	Human health (ppb)	13(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	350(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
1,1,1-Trichloroethane (TCA)					71-55-6			
Fresh Water	Human health (ppb)	120(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	2,600(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Trichloroethene (TCE) (Trichloroethylene)					79-01-6			
Fresh Water	Human health (ppb)	1.0(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	12(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	

Surface Water Quality Standards



2,4,5-Trichlorophenol					95-95-4			
Fresh Water	Human health (ppb)	1,800(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	3,600(h)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
2,4,6-Trichlorophenol					88-06-2			
Fresh Water	Human health (ppb)	0.58(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	1.0(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Turbidity								
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general (NTU)	FW2: <15 over 30-day avg., and 50 NTU maximum
Saline Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general (NTU)	SE1 and SE2: <10 over 30-day avg., and 30 NTU maximum SE3: <15 over 30-day avg., and 50 NTU maximum SC: 10 NTU maximum
Vinyl Chloride					75-01-4			
Fresh Water	Human health (ppb)	0.082(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Saline Water	Human health (ppb)	8.1(hc)	Aquatic-acute		Aquatic-chronic		Aquatic-general	
Zinc					7440-66-6			
Fresh Water	Human health (ppb)	7,400(h)(T)	Aquatic-acute (ppb)	(a)	Aquatic-chronic (ppb)	(a)	Aquatic-general	
Saline Water	Human health (ppb)	26,000(h)(T)	Aquatic-acute (ppb)	90(d)(s)	Aquatic-chronic (ppb)	81(d)(s)	Aquatic-general	

Description of Footnotes:

- (a) Criteria as listed at NJA 7:9B-1.14 (f)3 above as formula
- (b) Criteria as listed at NJA 7:9B-1.14 (f)4 above as formula
- (d) Criterion is expressed as a function of the Water Effect Ratio (WER). For criterion in the table, WER equates to the default value of 1.0.
- (fc) Criteria expressed as free cyanide (as CN)/L
- (h) Human health noncarcinogen
- (hc) Human health carcinogen
- (ol) Organoleptic effect-based criterion with no frequency of exceedance at or above the MA7CD10 flow
- (s) Dissolved criterion
- (T) Total recoverable criterion

FW1 means those fresh waters, as designated in N.J.A.C. 7:9B-1.15(j), that are to be maintained in their natural state of quality (set aside for posterity) and not subjected to any manmade wastewater discharges or increases in runoff from anthropogenic activities. These waters are set aside for posterity because of their clarity, color, scenic setting, other characteristic of aesthetic value, unique ecological significance, exceptional recreational significance, exceptional water supply significance or exceptional fisheries resource(s).

FW2 means the general surface water classification applied to those fresh waters that are not designated as FW1 or Pinelands Waters.

FW2-TP means FW2 trout production.

FW2-TM means FW2 trout maintenance.

FW2-NT means FW2 non- trout.

Surface Water Quality Standards



PL means Pinelands Waters

SE1 means saline estuarine waters whose designated uses are listed in N.J.A.C. 7:9B-1.12(d).

SE2 means saline estuarine waters whose designated uses are listed in N.J.A.C. 7:9B-1.12(e).

SE3 means saline estuarine waters whose designated uses are listed in N.J.A.C. 7:9B-1.12(f).

SC means the general surface water classification applied to saline coastal waters