

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	

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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

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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) (benzenhydrochloride)									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									

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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 1687-00-6								
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	

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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			

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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

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4,4'-DDT				CAS			
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

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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

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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

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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
<i>E. coli</i>							
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

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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

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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	

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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									

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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								
Fresh Water	Human health		Aquatic-acute		Aquatic-chronic		Aquatic-general (mg/L)	<u>Non-Tidal Streams</u> <0.1, unless a watershed specific translator has been developed (N.J.A.C. 7:9B-1.5(g)2) <u>Lakes</u> <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

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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.

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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