Table A1

		Aquatic Life Protection		Human Health Protection		DWS	IRR/LWP	GRW
POLLUTANT	CAS #	Acute	Chronic	Org. + Water	Org. Only			
METALS (µg/L)	Note: The proposed values for updated criteria are shown in **bold.** Previous criteria being removed are shown in *[bracketed italics]*. Exceptions where the 304(a) recommendations are not being proposed are highlighted.					DWS = Drinking Water Supply IRR = Irrigation LWP = Livestock and Wildlife Protection GRW = Groundwater		
Aluminum (pH 6.5-9.0)	7429905	750						
Antimony	7440360			**5.6**	*[4,300]* **640**	6		6
Arsenic	7440382	**340**	*[20]* **150**	**0.018**	**0.14**	50	100	50
Barium	7440393			**1,000**		2,000		2,000
Beryllium	7440417		*[5]*			4	100	4
Boron	7440428						2,000	2,000
Cadmium	7440439	**Table A2**	Table A2			5		5
Chromium (III)	16065831	Table A2	**Table A2**			100	100	100
Chromium (VI)	18540299	*[15]* **16**	*[10]* **11**					
Cobalt	7440484						1,000	1,000
Copper	7440508	Table A2	Table A2	**1,300**		1,300	500	1,300
Iron	7439896		1,000					300
Lead	7439921	Table A2	Table A2			15		15
Manganese	7439965							50
Mercury	7439976	*[2.4]* **1.4**	*[0.5]* **0.77**			2		2
Methylmercury	22967926	**1.4**	**0.77**		**0.3 mg/kg**			
Nickel	7440020	Table A2	**Table A2**	**610**	**4,600**	100		100
Selenium	7782492		5	**170**	**4,200**	50		50
Silver	7440224	Table A2				50		50
Thallium	7440280			**0.24**	*[6.3]* **0.47**	2		2
Zinc	7440666	Table A2	Table A2	**7,400**	**26,000**	5,000		5,000
OTHER INORGANIC SUBSTANCES (µg/L)								
Alkalinity (minimum $CaCO_3$)			**20,000**					
Ammonia	7664417	Table B1	Tables B2 & B3					
Asbestos	1332214			**7 million fibers/L**		7 million fibers/L		
Chloride	16887006	**860,000**	**230,000**			250,000		

		Aquatic Life Protection		Human Health Protection		DWS	IRR/LWP	GRW
POLLUTANT	CAS #	Acute	Chronic	Org. + Water	Org. Only			
Chlorine, Total Residual (Coldwater Aquatic Habitat)	7782505		2					
Chlorine, Total Residual (Warmwater Aquatic Habitat)	7782505	19	*[10]* **11**					
Cyanide	57125	22	*[5]* **5.2**	**4**	**400**			
E. coli Bacteria (cfu/100 mL)		WBC-A: 126 WBC-B: 206 SCR: 1,134						
Fluoride						4,000	4,000	4,000
Gases, Total Dissolved (percent saturation)		110%	110%					
Hydrogen Sulfide	7783064		2					
Nitrates	14797558			10,000		10,000		10,000
Oil and Grease			10,000					
Oxygen, Dissolved	7782447	**Table A3**	**Table A3**					
pH			6.5 - 9	**5 - 9**				
Solids Suspended and Turbidity			**Narrative Statement**					
Sulfate		**10 CSR 20-7.031(5)(L)**	**10 CSR 20-7.031(5)(L)**			250,000		
Temperature		**10 CSR 20-7.031(5)(D)**	**10 CSR 20-7.031(5)(D)**					
ORGANIC SUBSTANCES (µg/L)								
Benzenes								
Benzene	71432			**2.1**	*[71]* **58**	5		5
Chlorobenzene	108907			**100**	*[21,000]* **800**	100		100
1,2-Dichlorobenzene (ortho-dichlorobenzene)	95501			**1,000**	*[2,600]* **3,000**	600		600
1,3-Dichlorobenzene (meta-dichlorobenzene)	541731			**7**	*[2,600]* **10**	600		600
1,4-Dichlorobenzene (para-dichlorobenzene)	106467			**300**	*[2,600]* **900**	75		75
1,2,4-Trichlorobenzene	120821			**0.071**	*[940]* **0.076**	70		70
1,2,4,5-Tetrachlorobenzene	95943			**0.03**	*[2.9]* **0.03**	2.3		2.3
Pentachlorobenzene	608935			**0.1**	*[4.1]* **0.1**	3.5		3.5
Hexachlorobenzene	118741			**0.000079**	*[0.00074]* **0.000079**	1		1
Ethylbenzene	100414		*[320]*	**68**	**130**	700		700
Nitrobenzene	98953			**10**	*[1,900]* **600**	17		17
Styrene (Vinyl Benzene)	100425					100		100

		Aquatic Life Protection		Human Health Protection		DWS	IRR/LWP	GRW
POLLUTANT	CAS #	Acute	Chronic	Org. + Water	Org. Only			
Chlorinated Hydrocarbons								
Carbon Tetrachloride (Tetrachloromethane)	56235			**0.4**	*5*	5		5
1,2-Dichloroethane	107062			**9.9**	*[99]* **650**	5		5
1,1,1-Trichloroethane	71556			**10,000**	**200,000**	200		200
1,1,2-Trichloroethane	79005			**0.55**	*[42]* **8.9**	5		5
1,1,2,2-Tetrachloroethane	79345			**0.2**	*[11]* **3**	0.17		0.17
Hexachloroethane	67721			**0.1**	*[8.7]* **0.1**	1.9		1.9
1,1-Dichloroethylene	75354			**300**	*[3.2]* **20,000**	7		7
cis-1,2-Dichloroethylene	156592					70		70
trans-1,2-Dichloroethylene	156605			**100**	*[140,000]* **4,000**	100		100
Trichloroethylene	79016			**0.6**	*[80]* **7**	5		5
Tetrachloroethylene	127184			**10**	*[8.85]* **29**	0.8		0.8
1,2-Dichloropropane	78875			**0.9**	*[39]* **31**	0.52		0.52
1,3-Dichloropropene (Dichloropropene)	542756			**0.27**	*[1,700]* **12**	87		87
Other Halogenated Hydrocarbons								
Ethylene Dibromide (1,2-Dibromoethane)	106934					0.05		0.05
Methyl Bromide (Bromomethane)	74839			**100**	*[4,000]* **10,000**	48		48
Methyl Chloride (Chloromethane)	74873				*[470]*	5		5
Methylene Chloride (Dichloromethane)	75092			**20**	*[1,600]* **1,000**	4.7		4.7
Total Trihalomethanes (TTHMs)						80		80
Chlorodibromomethane	124481			**0.8**	*[34]* **21**	0.41		0.41
Dichlorobromomethane	75274			**0.95**	*[46]* **27**	0.56		0.56
Tribromomethane (Bromoform)	75252			**7**	*[360]* **120**	4.3		4.3
Trichloromethane (Chloroform)	67663			**60**	**2,000**	5.7		5.7
[Dichlorodifluoromethane]	*75718*		*[570,000]*					
[Trichlorofluoromethane]	*75694*		*[860,000]*					
Vinyl Chloride	75014			**0.022**	*[525]* **1.6**	2		2
Ethers								
Bis(2-Chloroethyl) Ether	111444			**0.03**	*[1.4]* **2.2**	0.03		0.03

		Aquatic Life Protection		Human Health Protection		DWS	IRR/LWP	GRW
POLLUTANT	CAS #	Acute	Chronic	Org. + Water	Org. Only			
Bis(2-Chloro-1-Methylethyl) Ether	108601			**200**	*[4,360]* **4,000**	1,400		1,400
Bis(Chloromethyl) Ether	542881			**0.00015**	*[0.00078]* **0.017**	0.00013		0.00013
Miscellaneous Organics								
2,3,7,8-Tetrachlorodibenzo-p-dioxin 2,3,7,8-TCDD (Dioxin)	1746016			**5.00E-09**	*[1.4E-8]* **5.1E-9**	1.3 E-08		1.3E-08
Di(2-ethylhexyl) adipate	103231					400		400
Isophorone	78591			**34**	*[2,600]* **1,800**	36		36
Polychlorinated Biphenyls (PCBs)			**0.014**	**0.000064**	*[0.000045]* **0.000064**			0.000045
Tributyltin (TBT)		**0.46**	**0.072**					
Nitrogen Containing Compounds								
Nitrosamines				**0.0008**	**1.24**			
N-Nitrosodibutylamine	924163			**0.0063**	**0.22**			
N-Nitrosodiethylamine	55185			**0.0008**	**1.24**			
N-Nitrosodimethylamine	62759			**0.00069**	*[8]* **3.0**	0.0007		0.0007
N-Nitrosodiphenylamine	86306			**3.3**	*[16]* **6.0**	5		5
N-Nitrosodi-n-propylamine	621647			**0.005**	*[1.4]* **0.51**			
N-Nitrosopyrrolidine	930552			**0.016**	*[91.9]* **34**			
Acrylonitrile (2-propenenitrile)	107131			**0.061**	*[0.65]* **7.0**	0.058		0.058
Benzidine (4,4'-diaminobiphenyl)	92875			**0.00014**	*[0.00053]* **0.011**	0.00012		0.00012
3,3'-Dichlorobenzidine	91941			**0.049**	*[0.08]* **0.15**	0.04		0.04
1,2-Diphenylhydrazine	122667			**0.03**	*[0.54]* **0.2**	0.04		0.04
Polynuclear Aromatic Hydrocarbons (PAHs)								
Acenaphthene	83329			**70**	*[2,700]* **90**	1,200		1,200
Anthracene	120127			**300**	*[110,000]* **400**	9,600		9,600
Benzo-a-Anthracene	56553			**0.0012**	*[0.049]* **0.0013**	0.0044		0.0044
Benzo-a-Pyrene	50328			**0.00012**	*[0.049]* **0.00013**	0.2		0.2
Benzo-b-Fluoranthene	205992			**0.0012**	*[0.049]* **0.0013**	0.0044		0.0044
Benzo-k-Fluoranthene	207089			**0.012**	*[0.049]* **0.013**	0.0044		0.0044
2-Chloronaphthalene	91587	*[4300]*		**800**	**1,000**			
Chrysene	218019			**0.12**	*[0.049]* **0.13**	0.0044		0.0044

		Aquatic Life Protection		Human Health Protection		DWS	IRR/LWP	GRW
POLLUTANT	CAS #	Acute	Chronic	Org. + Water	Org. Only			
Dibenzo-a-h-Anthracene	53703			**0.00012**	*[0.049]* **0.00013**	0.0044		0.0044
Fluoranthene	206440			**20**	*[370]* **20**	300		300
Fluorene	86737			**50**	*[14,000]* **70**	1,300		1,300
Indeno(1,2,3-cd)Pyrene	193395			**0.0012**	*[0.049]* **0.0013**	0.0044		0.0044
Pyrene	129000			**20**	*[11,000]* **30**	960		960
Phthalate Esters								
Bis(2-Ethylhexyl) Phthalate	117817			**0.32**	*[5.9]* **0.37**	6		6
Butylbenzyl Phthalate	85687			**0.1**	*[5,200]* **0.1**	3,000		3,000
Diethyl Phthalate	84662			**600**	*[120,000]* **600**	23,000		23,000
Dimethyl Phthalate	131113			**2,000**	*[2,900,000]* **2,000**	313,000		313,000
Di-n-Butyl Phthalate	84742			**20**	*[12,000]* **30**	2,700		2,700
Phenolic Compounds								
2-Chlorophenol	95578			**30**	*[400]* **800**	0.1		0.1
2,4-Dichlorophenol	120832		*[7]*	**10**	*[790]* **60**	93		93
2,4-Dimethylphenol	105679			**100**	*[2,300]* **3,000**	540		540
2-Methyl-4,6-Dinitrophenol	534521			**2**	*[765]* **30**	13		13
2,4-Dinitrophenol	51285			**10**	*[14,000]* **300**	70		70
Dinitrophenols	25550587			**10**	**1,000**			
3-Methyl-4-Chlorophenol	**59507**			**500**	**2,000**			
Nonylphenol	**84852153**	28	**6.6**					
Pentachlorophenol	87865	**Table A2**	**Table A2**	**0.03**	*[8]* **0.04**	1		1
Phenol **(Coldwater Aquatic Habitat)**	108952	*[10,200]* **5,293**	*[2,560]* **157**	**4,000**	**300,000**	100		300
Phenol **(Warmwater Aquatic Habitat)**	108952	*[10,200]* **5,293**	2,560	**4,000**	**300,000**	100		300
2,4,5-Trichlorophenol	95954			**300**	*[9,800]* **600**	2,600		2600
2,4,6-Trichlorophenol	88062			**1.5**	*[6.5]* **2.8**	2		2
Toluenes								
2,4-Dinitrotoluene	121142			**0.049**	*[9]* **1.7**	0.11		0.04
Toluene	108883			**57**	*[200,000]* **520**	1,000		1,000
Xylenes (Total)	1330207					10,000		10,000

		Aquatic Life Protection		Human Health Protection		DWS	IRR/LWP	GRW
POLLUTANT	CAS #	Acute	Chronic	Org. + Water	Org. Only			
PESTICIDES								
Acrolein	107028	**3**	**3**	**3**	*[780]* **400**	320		320
Alachlor	15972608					2		2
Aldrin	309002	**3**		**0.00000077**	*[0.000079]* **0.00000077**	0.00013		0.00013
Atrazine	1912249					3		3
Carbaryl	**63252**	**2.1**	**2.1**					
Carbofuran	1563662					40		40
Chlordane	57749	**2.4**	**0.0043**	**0.00031**	*[0.00048]* **0.00032**	2		2
Chloropyrifos	2921882	**0.083**	*[0.04]* **0.041**			20		
Chlorophenoxy Herbicide (2,4-D)	94757			**1,300**	**12,000**	70		70
Chlorophenoxy Herbicide (2,4,5,-TP)	93721			**100**	**400**	50		50
Dalapon	75990					200		200
Demeton	8065483		0.1					
Diazinon	333415	**0.17**	**0.17**					
1,2-Dibromo-3-chloropropane (DBCP)	96128					0.2		0.2
4-4'-Dichlorodiphenyldichloroethylene (DDE)	72559			**0.000018**	*[0.00059]* **0.000018**	0.00059		0.00059
4-4'-Dichlorodiphenyldichloroethane (DDD)	72548			**0.00012**	*[0.00084]* **0.00012**	0.00083		0.00083
4-4'-Dichlorodiphenyltrichloroethane (DDT)	50293	**1.1**	**0.001**	**0.00003**	*[0.00059]* **0.00003**	0.00059		0.00059
Dieldrin	60571	**0.24**	**0.056**	**0.0000012**	*[0.000076]* **0.0000012**	0.00014		0.00014
Dinoseb	88857					7		7
Diquat	85007					20		20
alpha-Endosulfan (Endosulfan)	959988	*[0.11]* **0.22**	0.056	**20**	**30**			
beta-Endosulfan (Endosulfan)	33213659	*[0.11]* **0.22**	0.056	**20**	**40**			
Endosulfan Sulfate	**1031078**			**20**	**40**			
Endothall	145733					100		100
Endrin	72208	**0.086**	**0.036**	**0.03**	*[0.0023]* **0.03**	2		2
Endrin Aldehyde	7421934			**1**	*[0.0023]* **1**	0.75		0.75
Glyphosate	1071836					700		700

		Aquatic Life Protection		Human Health Protection		DWS	IRR/LWP	GRW
POLLUTANT	CAS #	Acute	Chronic	Org. + Water	Org. Only			
Guthion	86500		0.01					
Heptachlor	76448	**0.52**	0.0038	**0.0000059**	*[0.0002]* **0.0000059**	0.4		0.4
Heptachlor Epoxide	1024573	**0.52**	**0.0038**	**0.000032**	*[0.00011]* **0.000032**	0.2		0.2
Hexachlorobutadiene	87683			**0.01**	*[50]* **0.01**	0.45		0.45
Hexachlorocyclopentadiene	77474		*[0.5]*	**4**	**4**	50		50
alpha-Hexachlorocyclohexane (alpha-BHC)	319846			**0.00036**	*[0.0074]* **0.00039**	0.0022		0.0022
beta-Hexachlorocyclohexane (beta-BHC)	319857			**0.008**	*[0.0074]* **0.014**	0.0022		0.0022
gamma-Hexachlorocyclohexane (gamma-BHC; Lindane)	58899	**0.95**		**4.2**	*[0.062]* **4.4**	0.2		0.2
Technical-Hexachlorocyclohexane	608731			**0.0066**	**0.01**			
Malathion	121755		0.1					
Methoxychlor	72435		0.03	**0.02**	**0.02**	40		40
Mirex	2385855		0.001					
Oxamyl (Vydate)	23135220					200		200
Picloram	1918021					500		500
Parathion	56382	**0.065**	*[0.04]* **0.013**					
Simazine	122349					4		4
Toxaphene	8001352	**0.73**	**0.0002**	**0.0007**	*[0.000073]* **0.00071**	3		3

Table A2.		
POLLUTANT	**CAS #**	
METALS (µg/L) - Hardness Dependent		
Cadmium	7440439	**Acute** = $[e^{(1.0166*\ln(Hardness) - 3.062490)} * (1.136672 - (\ln(Hardness)*0.041838))]$ $\mathbf{e^{(1.0166*\ln(Hardness) - 3.924)} * (1.136672 - (\ln(Hardness)*0.041838))}$ Chronic = $e^{(0.7409*\ln(Hardness) - 4.719948)} * (1.101672 - (\ln(Hardness)*0.041838))$
Chromium (III)	16065831	Acute = $e^{(0.8190*\ln(Hardness) + 3.725666)} * 0.316$ **Chronic** = $[e^{(0.8190*\ln(Hardness) + 0.684960)} * 0.860]$ $\mathbf{e^{(0.8190*\ln(Hardness) + 0.6848)} * 0.860}$
Copper	7440508	Acute = $e^{(0.9422*\ln(Hardness) - 1.700300)} * 0.960$ Chronic = $e^{(0.8545*\ln(Hardness) - 1.702)} * 0.960$
Lead	7439921	Acute = $e^{(1.273*\ln(Hardness) - 1.460448)} * (1.46203 - (\ln(Hardness)*0.145712))$ Chronic = $e^{(1.273*\ln(Hardness) - 4.704797)} * (1.46203 - (\ln(Hardness)*0.145712))$
Nickel	7440020	Acute = $e^{(0.8460*\ln(Hardness) + 2.255647)} * 0.998$ **Chronic** = $[e^{(0.8460*\ln(Hardness) + 0.058978)} * 0.997]$ $\mathbf{e^{(0.8460*\ln(Hardness) + 0.0584)} * 0.997}$
Silver	7440224	Acute = $e^{(1.72*\ln(Hardness) - 6.588144)} * 0.850$
Zinc	7440666	Acute = $e^{(0.8473*\ln(Hardness) + 0.884)} * 0.98$ Chronic = $e^{(0.8473*\ln(Hardness) + 0.884)} * 0.98$
OTHER POLLUTANTS (µg/L) - Equation Dependent		
Pentachlorophenol	**87865**	**Acute** = $\mathbf{e^{((1.005 * (pH)) - 4.869)}}$ **Chronic** = $\mathbf{e^{((1.005 * (pH)) - 5.134)}}$

Table A3

POLLUTANT		
DISSOLVED OXYGEN (mg/L)		
	Cold-water Fishery	**Warm-water and Cool-water Fishery**
Minimum[1]	6 mg/L	5 mg/L

1 - All minima should be considered as instantaneous concentrations to be achieved at

Table A4

POLLUTANT	CAS #	DWS	GRW
HEALTH ADVISORY LEVELS (µg/L)			
Ametryn	834128	60	60
Baygon	114261	3	3
Bentazon	25057890	20	20
Bis-2-chloroisopropyl ether	108601	300	300
Bromacil	314409	90	90
Bromochloromethane	74975	90	90
Bromomethane	74839	10	10
Butylate	2008415	350	350
Carbaryl	63252	700	700
Carboxin	5234684	700	700
Chloramben	133904	100	100
o-chlorotoluene	95498	100	100
p-chlorotoluene	106434	100	100
Chlorpyrifos	2921882	20	20
DCPA (dacthal)	1861321	4000	4000
Diazinon	333415	0.6	0.6
Dicamba	1918009	200	200
Diisopropyl methylphosphonate	1445756	600	600
Dimethyl methylphosphonate	756796	100	100
1,3-dinitrobenzene	99650	1	1
Diphenamid	957517	200	200
Diphenylamine	122394	200	200
Disulfoton	298044	0.3	0.3
1,4-dithiane	505293	80	80
Diuron	330541	10	10
Fenamiphos	22224926	2	2
Fluometron	2164172	90	90
Fluorotrichloromethane	75694	2000	2000
Fonofos	944229	10	10
Hexazinone	51235042	200	200

POLLUTANT	CAS #	DWS	GRW
Malathion	121755	200	200
Maleic hydrazide	123331	4000	4000
MCPA (4(chloro-2-methoxyphenoxy) acetic acid)	94746	10	10
Methyl parathion	298000	2	2
Metolachlor	51218452	70	70
Metribuzin	21087649	100	100
Naphthalene	91203	20	20
Nitroguanidine	556887	700	700
para-Nitrophenol	100027	60	60
Paraquat	1910425	30	30
Pronamide	23950585	50	50
Propachlor	1918167	90	90
Propazine	139402	10	10
Propham	122429	100	100
2,4,5-T (Trichlorophenoxy-acetic acid)	93765	70	70
Tebuthiuron	34014181	500	500
Terbacil	5902512	90	90
Terbufos	13071799	0.9	0.9
1,1,1,2-Tetrachloroethane	630206	70	70
1,2,3-Trichloropropane	96184	40	40
Trifluralin	1582098	5	5
Trinitroglycerol	55630	5	5
2,4,6-Trinitrotoluene (Trinitrotoluene)	118967	2	2

Table B1. Acute Criteria for Total Ammonia Nitrogen (mg N/L)

pH	Cold-Water Fisheries (1)	Cool & Warm-Water Fisheries (2)
6.6	31.3	46.8
6.7	29.8	44.6
6.8	28.1	42.0
6.9	26.2	39.1
7.0	24.1	36.1
7.1	22.0	32.8
7.2	19.7	29.5
7.3	17.5	26.2
7.4	15.4	23.0
7.5	13.3	19.9
7.6	11.4	17.0
7.7	9.6	14.4
7.8	8.1	12.1
7.9	6.7	10.1
8.0	5.6	8.4
8.1	4.6	6.9
8.2	3.8	5.7
8.3	3.1	4.7
8.4	2.5	3.8
8.5	2.1	3.2
8.6	1.7	2.6
8.7	1.4	2.2
8.8	1.2	1.8
8.9	1.0	1.5
9.0	0.8	1.3

(1) *Salmonids present:* CMC = $[0.275 / (1 + 10^{7.204-pH})] + [39.0 / (1 + 10^{ph-7.204})]$
(2) *Salmonids absent:* CMC = $[0.411 / (1 + 10^{7.204-pH})] + [58.4 / (1 + 10^{pH-7.204})]$

Table B2. Chronic Criteria for Total Ammonia Nitrogen (mg N/L): Early Life Stages absent(3)(4)

	Temperature (°C)																
6.5	10.8	10.1	9.5	8.9	8.3	7.8	7.3	6.8	6.4	6.0	5.3	4.6	4.1	3.6	3.1	2.8	2.4
6.6	10.7	9.9	9.3	8.7	8.2	7.7	7.2	6.7	6.3	5.9	5.2	4.6	4.0	3.5	3.1	2.7	2.4
6.7	10.5	9.8	9.2	8.6	8.0	7.5	7.1	6.6	6.2	5.8	5.1	4.5	3.9	3.5	3.0	2.7	2.3
6.8	10.2	9.5	8.9	8.4	7.9	7.4	6.9	6.5	6.1	5.7	5.0	4.4	3.8	3.4	3.0	2.6	2.3
6.9	9.9	9.3	8.7	8.1	7.6	7.2	6.7	6.3	5.9	5.5	4.8	4.3	3.7	3.3	2.9	2.5	2.2
7.0	9.6	9.0	8.4	7.9	7.4	6.9	6.5	6.1	5.7	5.3	4.7	4.1	3.6	3.2	2.8	2.4	2.1
7.1	9.2	8.6	8.0	7.5	7.1	6.6	6.2	5.8	5.4	5.1	4.5	3.9	3.5	3.0	2.7	2.3	2.0
7.2	8.7	8.2	7.6	7.2	6.7	6.3	5.9	5.5	5.2	4.9	4.3	3.7	3.3	2.9	2.5	2.2	1.9
7.3	8.2	7.7	7.2	6.7	6.3	5.9	5.6	5.2	4.9	4.6	4.0	3.5	3.1	2.7	2.4	2.1	1.8
7.4	7.6	7.1	6.7	6.3	5.9	5.5	5.2	4.8	4.5	4.3	3.7	3.3	2.9	2.5	2.2	1.9	1.7
7.5	7.0	6.6	6.2	5.8	5.4	5.1	4.8	4.5	4.2	3.9	3.4	3.0	2.6	2.3	2.0	1.8	1.6
7.6	6.4	6.0	5.6	5.3	5.0	4.6	4.3	4.1	3.8	3.6	3.1	2.7	2.4	2.1	1.9	1.6	1.4
7.7	5.8	5.4	5.1	4.7	4.4	4.2	3.9	3.7	3.4	3.2	2.8	2.5	2.2	1.9	1.7	1.5	1.3
7.8	5.1	4.8	4.5	4.2	4.0	3.7	3.5	3.2	3.0	2.8	2.5	2.2	1.9	1.7	1.5	1.3	1.1
7.9	4.5	4.2	3.9	3.7	3.5	3.2	3.1	2.8	2.7	2.5	2.2	1.9	1.7	1.5	1.3	1.1	1.0
8.0	3.9	3.7	3.4	3.2	3.0	2.8	2.6	2.5	2.3	2.2	1.9	1.7	1.5	1.3	1.1	1.0	0.8
8.1	3.4	3.1	2.9	2.8	2.6	2.4	2.3	2.1	2.0	1.9	1.6	1.4	1.2	1.1	1.0	0.8	0.7
8.2	2.9	2.7	2.5	2.4	2.2	2.1	1.9	1.8	1.7	1.6	1.4	1.2	1.1	0.9	0.8	0.7	0.6
8.3	2.4	2.3	2.1	2.0	1.9	1.7	1.6	1.5	1.4	1.3	1.2	1.0	0.9	0.8	0.7	0.6	0.5
8.4	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.7	0.7	0.6	0.5	0.4
8.5	1.7	1.6	1.5	1.4	1.3	1.2	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4
8.6	1.4	1.4	1.3	1.2	1.1	1.0	1.0	0.9	0.8	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3
8.7	1.2	1.1	1.1	1.0	0.9	0.9	0.8	0.8	0.7	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2
8.8	1.0	1.0	0.9	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2
8.9	0.9	0.8	0.8	0.6	0.7	0.6	0.6	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2
9.0	0.7	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1

(3) Without sufficient and reliable data, it is assumed that Early Life Stages are present and must be protected at all times of the year.

(4) Early Life Stages absent:

$$CCC = [0.0577 / (1 + 10^{7.688-pH})]+[2.487 / (1 + 10^{pH-7.688})] * 1.45 * 10^{0.028 * (25-MAX(T, 7))}$$

Table B3. Chronic Criteria for Total Ammonia Nitrogen (mg N/L): Early Life Stages present (5)

	Temperature (°C)									
6.5	6.6	6.6	6.0	5.3	4.6	4.1	3.6	3.1	2.8	2.4
6.6	6.5	6.5	5.9	5.2	4.6	4.0	3.5	3.1	2.7	2.4
6.7	6.4	6.4	5.8	5.1	4.5	3.9	3.5	3.0	2.7	2.3
6.8	6.2	6.2	5.7	5.0	4.4	3.8	3.4	3.0	2.6	2.3
6.9	6.1	6.1	5.5	4.8	4.3	3.7	3.3	2.9	2.5	2.2
7.0	5.9	5.9	5.3	4.7	4.1	3.6	3.2	2.8	2.4	2.1
7.1	5.6	5.6	5.1	4.5	3.9	3.5	3.0	2.7	2.3	2.0
7.2	5.3	5.3	4.9	4.3	3.7	3.3	2.9	2.5	2.2	1.9
7.3	5.0	5.0	4.6	4.0	3.5	3.1	2.7	2.4	2.1	1.8
7.4	4.7	4.7	4.3	3.7	3.3	2.9	2.5	2.2	1.9	1.7
7.5	4.3	4.3	3.9	3.4	3.0	2.6	2.3	2.0	1.8	1.6
7.6	3.9	3.9	3.6	3.1	2.7	2.4	2.1	1.9	1.6	1.4
7.7	3.5	3.5	3.2	2.8	2.5	2.2	1.9	1.7	1.5	1.3
7.8	3.1	3.1	2.8	2.5	2.2	1.9	1.7	1.5	1.3	1.1
7.9	2.8	2.8	2.5	2.2	1.9	1.7	1.5	1.3	1.1	1.0
8.0	2.4	2.4	2.2	1.9	1.7	1.5	1.3	1.1	1.0	0.8
8.1	2.1	2.1	1.9	1.6	1.4	1.2	1.1	1.0	0.8	0.7
8.2	1.7	1.7	1.6	1.4	1.2	1.1	0.9	0.8	0.7	0.6
8.3	1.5	1.5	1.3	1.2	1.0	0.9	0.8	0.7	0.6	0.5
8.4	1.2	1.2	1.1	1.0	0.9	0.7	0.7	0.6	0.5	0.4
8.5	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4
8.6	0.9	0.9	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3
8.7	0.7	0.7	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.2
8.8	0.6	0.6	0.6	0.5	0.4	0.4	0.3	0.3	0.2	0.2
8.9	0.5	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2
9.0	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.1

(5) Early Life Stages present:

$$CCC = [0.0577 / (1 + 10^{7.688-pH})]+[2.487 / (1 + 10^{pH-7.688})] * MIN(2.85, 1.45 * 10^{0.028 * (25 - T)})$$