

CTR#	Parameters	Units	CV	MEC	CTR Water Quality Criteria (ug/L)					REASONABLE POTENTIAL ANALYSIS (RPA)										HUMAN HEALTH CALCULATIONS						
					Freshwater		Saltwater		Human Health for consumption of:		Lowest C	MEC >= Lowest C	Tier 1 - Need limit?	B Available (Y/N)?	Are all B data points non-detects (Y/N)?	If all data points ND Enter the min detection limit (MDL)	Enter the pollutant B detected max conc (ug/L)	If all B is ND, is MDL-C?	If B-C, effluent limit required	Tier 3 - other info. ?	RPA Result - Need Limit?	Reason	Organisms only			ECA acute multiplier (p.7)
					C acute = CMC tot	C chronic = CCC tot	C acute = CMC tot	C chronic = CCC tot	Water & organisms	Organisms only													AMEL hh = ECA = C hh O only	MDEL/AMEL multiplier	MDEL hh	
81	Di-n-Butyl Phthalate	ug/L	0.6	10					12000	12000	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
82	2,4-Dinitrotoluene	ug/L	0.6	5					9.10	9.10	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
83	2,6-Dinitrotoluene	ug/L	0.6	No Criteria					No Criteria	No Criteria	No Criteria	No Criteria					No Criteria	No Criteria	Uc	No Criteria						
84	Di-n-Octyl Phthalate	ug/L	0.6	No Criteria					No Criteria	No Criteria	No Criteria	No Criteria					No Criteria	No Criteria	Uc	No Criteria						
85	1,2-Diphenylhydrazine	ug/L	0.6						0.54	0.540							No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
86	Fluoranthene	ug/L	0.6	1					370	370	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
87	Fluorene	ug/L	0.6	10					14000	14000	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
88	Hexachlorobenzene	ug/L	0.6	1					0.00077	0.00077							No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
89	Hexachlorobutadiene	ug/L	0.6	1					50	50.00	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
90	Hexachlorocyclopentadiene	ug/L	0.6	5					17000	17000	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
91	Hexachloroethane	ug/L	0.6	1					8.9	8.9	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
92	Indeno(1,2,3-cd)Pyrene	ug/L	0.6						0.049	0.0490							No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
93	Isophorone	ug/L	0.6	1					600	600.0	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
94	Naphthalene	ug/L	0.6	No Criteria					No Criteria	No Criteria	No Criteria	No Criteria					No Criteria	No Criteria	Uc	No Criteria						
95	Nitrobenzene	ug/L	0.6	1					1900	1900	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
96	N-Nitrosodimethylamine	ug/L	0.6	5					8.10	8.1000	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
97	N-Nitrosodi-n-Propylamine	ug/L	0.6						1.40	1.400							No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
98	N-Nitrosodiphenylamine	ug/L	0.6	1					16	16.0	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
99	Phenanthrene	ug/L	0.6	No Criteria					No Criteria	No Criteria	No Criteria	No Criteria					No Criteria	No Criteria	Uc	No Criteria						
100	Pyrene	ug/L	0.6	10					11000	11000	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
101	1,2,4-Trichlorobenzene	ug/L	0.6	No Criteria					No Criteria	No Criteria	No Criteria	No Criteria					No Criteria	No Criteria	Uc	No Criteria						
102	Aldrin	ug/L	0.6						0.00014	0.00014							No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
103	alpha-BHC	ug/L	0.6	0.005					0.013	0.0130	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
104	beta-BHC	ug/L	0.6	0.005					0.046	0.046	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
105	gamma-BHC	ug/L	0.6	0.02					0.16	0.16							No detected value of B, Step 7	No	Ud;MEC-C & no B							
106	delta-BHC	ug/L	0.6	No Criteria					0.063	0.063	No	No					No Criteria	No Criteria	Uc	No Criteria						
107	Chlordane	ug/L	0.6						0.09	0.004	0.00059	0.00059					No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
108	4,4'-DDT	ug/L	0.6						0.13	0.001	0.00059	0.00059					No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
109	4,4'-DDE (linked to DDT)	ug/L	0.6						0.00059	0.00059							No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
110	4,4'-DDD	ug/L	0.6						0.00084	0.00084							No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
111	Dieldrin	ug/L	0.6						0.71	0.0019	0.00014	0.00014					No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
112	alpha-Endosulfan	ug/L	0.6						0.034	0.0087	240	0.0087					No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
113	beta-Endosulfan	ug/L	0.6						0.034	0.0087	240	0.0087					No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
114	Endosulfan Sulfate	ug/L	0.6	0.5					240	240	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
115	Endrin	ug/L	0.6						0.037	0.0023	0.81	0.0023					No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
116	Endrin Aldehyde	ug/L	0.6	0.01					0.81	0.81	No	No					No detected value of B, Step 7	No	Ud;MEC-C & no B							
117	Heptachlor	ug/L	0.6						0.053	0.0036	0.00021	0.00021					No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
118	Heptachlor Epoxide	ug/L	0.6						0.053	0.0036	0.00011	0.00011					No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
119-125	PCBs sum (2)	ug/L	0.6						0.03	0.00017	0.00017	0.00017					No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							
126	Toxaphene	ug/L	0.6						0.21	0.0002	0.00075	0.0002					No detected value of B, Step 7	no	Ud; effluent ND, MDL-C & B							

Notes:
 Ud = Undetermined due to lack of data
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 C = Water Quality Criteria
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CTR#	AQUATIC LIFE CALCULATIONS									LIMITS		Recommendation	Comment
	Parameters	Saltwater / Freshwater / Basin Plan					AMEL aq life	MDEL multiplier 99	MDEL aq life	Lowest AMEL	Lowest MDEL		
		LTA acute	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier 95							
1	Arsimony											No Limit	
2	Arsenic											No Limit	
3	Beryllium											No Limit	
4	Cadmium											No Limit	
5a	Chromium (III)											No Limit	
5b	Chromium (VI)											No Limit	
6	Copper	1.86	0.53	1.97	1.86	1.55	2.88	3.11	5.783133	2.88	5.78	Existing limit as stringent	
7	Lead											No Limit	
8	Mercury											No Limit	
9	Nickel	24.00	0.53	4.37	4.37	1.55	6.78	3.11	13.60595	6.78199	13.60595	Existing limit as stringent	
10	Selenium											No Limit	
11	Silver											No Limit	
12	Thallium					1.55		3.11		6.30000	12.63899	Existing limit as stringent	
13	Zinc	29.27	0.51	43.86	29.27	1.58	46.32	3.25	95.13742	46.32	95.14	Computed AMEL more stringent than existing AMEL when applying calculated CV.	
14	Cyanide	0.32	0.53	0.53	0.32	1.55	0.50	3.11	1	0.49846	1.00000	New limitation	
15	Asbestos											No Limit	
16	2,3,7,8 TCDD											No Limit	
17	Acrotoin											No Limit	
18	Acrylonitrile											No Limit	
19	Benzene											No Limit	
20	Bromofom											No Limit	
21	Carbon Tetrachloride											No Limit	
22	Chlorobenzene											No Limit	
23	Chlorodibromomethane											No Limit	
24	Chloroethane											No Limit	
25	2-Chloroethylvinyl ether											No Limit	
26	Chlorofom											No Limit	
27	Dichlorobromomethane											No Limit	
28	1,1-Dichloroethane											No Limit	
29	1,2-Dichloroethane											No Limit	
30	1,1-Dichloroethylene											No Limit	
31	1,2-Dichloropropane											No Limit	
32	1,3-Dichloropropylene											No Limit	
33	Ethylbenzene											No Limit	
34	Methyl Bromide											No Limit	
35	Methyl Chloride											No Limit	
36	Methylene Chloride											No Limit	
37	1,1,2,2-Tetrachloroethane											No Limit	
38	Tetrachloroethylene											No Limit	
39	Toluene											No Limit	
40	1,2-Trans-Dichloroethylene											No Limit	
41	1,1,1-Trichloroethane											No Limit	
42	1,1,2-Trichloroethane											No Limit	
43	Trichloroethylene											No Limit	
44	Vinyl Chloride											No Limit	
45	2-Chlorophenol											No Limit	
46	2,4-Dichlorophenol											No Limit	
47	2,4-Dimethylphenol											No Limit	
48	4,6-dinitro-o-resol (aka2-methyl-4,6-Dinitrophenol)											No Limit	
49	2,4-Dinitrophenol											No Limit	
50	2-Nitrophenol											No Limit	
51	4-Nitrophenol											No Limit	
52	3-Methyl-4-Chlorophenol (aka P-chloro-m-resol)											No Limit	
53	Pentachlorophenol											No Limit	
54	Phenol											No Limit	
55	2,4,6-Trichlorophenol											No Limit	
56	Acenaphthene											No Limit	
57	Acenaphthylene											No Limit	
58	Anthracene											No Limit	
59	Benzidine											No Limit	
60	Benzo(a)Anthracene											No Limit	
61	Benzo(a)Pyrene											No Limit	
62	Benzo(b)Fluoranthene											No Limit	
63	Benzo(ghi)Perylene											No Limit	
64	Benzo(k)Fluoranthene											No Limit	
65	Bis(2-Chloroethoxy)Methane											No Limit	
66	Bis(2-Chloroethyl)Ether											No Limit	
67	Bis(2-Chloroisopropyl)Ether											No Limit	
68	Bis(2-Ethylhexyl)Phthalate											No Limit	
69	4-Bromophenyl Phenyl Ether											No Limit	
70	Butylbenzyl Phthalate											No Limit	
71	2-Chloronaphthalene											No Limit	
72	4-Chlorophenyl Phenyl Ether											No Limit	
73	Chrysene											No Limit	
74	Dibenz(a,h)Anthracene											No Limit	
75	1,2-Dichlorobenzene											No Limit	
76	1,3-Dichlorobenzene											No Limit	
77	1,4-Dichlorobenzene											No Limit	
78	3,3-Dichlorobenzidine											No Limit	
79	Diethyl Phthalate											No Limit	
80	Dimethyl Phthalate											No Limit	

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		Saltwater / Freshwater / Basin Plan								Lowest AMEL	Lowest MDEL		
		LTA acute	ECA chronic multiplier	LTA chronic	Lowest LTA	AMEL multiplier 95	AMEL aq life	MDEL multiplier 99	MDEL aq life				
81	Di-n-Butyl Phthalate											No Limit	
82	2,4-Dinitrotoluene											No Limit	
83	2,6-Dinitrotoluene											No Limit	
84	Di-n-Octyl Phthalate											No Limit	
85	1,2-Diphenylhydrazine											No Limit	
86	Fluoranthene											No Limit	
87	Fluorene											No Limit	
88	Hexachlorobenzene											No Limit	
89	Hexachlorobutadiene											No Limit	
90	Hexachlorocyclopentadiene											No Limit	
91	Hexachloroethane											No Limit	
92	Indeno(1,2,3-cd)Pyrene											No Limit	
93	Isophorone											No Limit	
94	Naphthalene											No Limit	
95	Nitrobenzene											No Limit	
96	N-Nitrosodimethylamine											No Limit	
97	N-Nitrosodi-n-Propylamine											No Limit	
98	N-Nitrosodiphenylamine											No Limit	
99	Phenanthrene											No Limit	
100	Pyrene											No Limit	
101	1,2,4-Trichlorobenzene											No Limit	
102	Aldrin											No Limit	
103	alpha-BHC											No Limit	
104	beta-BHC											No Limit	
105	gamma-BHC											No Limit	
106	delta-BHC											No Limit	
107	Chlordane											No Limit	
108	4,4'-DDT											No Limit	
109	4,4'-DDE (linked to DDT)											No Limit	
110	4,4'-DDD											No Limit	
111	Dieldrin											No Limit	
112	alpha-Endosulfan											No Limit	
113	beta-Endosulfan											No Limit	
114	Endosulfan Sulfate											No Limit	
115	Endrin											No Limit	
116	Endrin Aldehyde											No Limit	
117	Heptachlor											No Limit	
118	Heptachlor Epoxide											No Limit	
119-125	PCBs sum (2)											No Limit	
126	Toxaphene											No Limit	

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