TABLE 2[3]
Criteria in Water for Specific Toxic Materials
HUMAN HEALTH PROTECTION
(All values are listed or calculated in micrograms per liter unless otherwise noted)

COMPOUND	CASRN	A Water and Fish µg/L	B [FW] Fish Only µg/L	[C] [SW Fish Only] [µg/L]
Acrylonitrile	107-13-1	0.5 [1.28]	2.5 [10.9]	[7.3]
Aldrin	309-00-2	0.00094 [0.00408]	0.0010 [0.00426]	[0.0028]
Anthracene	120-12-7	100*	5,201	
Antimony	7440-36-0	6*	26,789	
Arsenic (d)	7440-38-2	0.17 [50*]	0.61 [---]	[---]
Barium (d)	7440-39-3	2,000*	---	[---]
Benzene	71-43-2	5*	513 [106]	[70.8]
Benzidine	92-87-5	0.00086 [0.00106]	0.0020 [0.00347]	[0.00232]
Benzo(*a*)anthracene [Benzo(a)anthracene]	56-55-3	0.004 [0.099]	0.02 [0.81]	[0.54]
Benzo(*a*)pyrene [Benzo(a)pyrene]	50-32-8	0.038 [0.099]	0.18 [0.81]	[0.54]
Bis(chloromethyl)ether	542-88-1	0.0024 [0.00462]	0.44 [0.0193]	[0.0129]
Bis(2-chloroethyl)ether	111-44-4	0.3	5.27	
Bis(2-ethylhexyl)phthalate	117-81-7	6*	22	
Bromodichloromethane	75-27-4	5.5	172	
Bromoform	75-25-2	42	1350	
Cadmium (d)	7440-43-9	5*	---	[---]
Carbon Tetrachloride	56-23-5	2.3 [3.76]	16 [8.4]	[5.6]
Chlordane[‡]	57-74-9	0.0080 [0.021]	0.0081 [0.0213]	[0.0213]
Chlorobenzene	108-90-7	9.3 [776]	1,071 [1380]	[920]
Chloroform	67-66-3	86 [100*]	2,719 [1292]	[861]
Chromium (d)	18540-29-9	62 [100*]	502 [3320]	[2216]
Chrysene	218-01-9	3.80E-05 [0.417]	1.82E-04 [8.1]	[5.4]
Cresols	§	736 [3313]	1,981 [13116]	[8744]
Cyanide (free)#	57-12-5	200*	53,571 [---]	[---]
4,4' - DDD ‡	72-54-8	166.16 ug/kg [0.0103]	166.16 ug/kg [0.01]	[0.007]
4,4' - DDE ‡	72-55-9	117.92 ug/kg [0.0073]	117.92 ug/kg [0.007]	[0.005]
4,4' - DDT ‡	50-29-3	117.92 ug/kg [0.0073]	117.92 ug/kg [0.007]	[0.005]
2,4 - D	94-75-7	70*	26,786 [---]	[---]
Danitol	39515-41-8	5.39 [0.709]	5.44 [0.721]	[0.481]
Dibromochloromethane	124-48-1	4.0 [9.2]	127 [71.6]	[47.7]
1,2 - Dibromoethane	106-93-4	0.0061 [0.014]	0.354 [0.335]	[0.223]
m-Dichlorobenzene	541-73-1	473	1,445	
o-Dichlorobenzene	95-50-1	600*	4,336	

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p-Dichlorobenzene	106-46-7	75*	38,541	
3,3'-Dichlorobenzidine	91-94-1	0.21	0.28	
[1,3 - Dichloropropene]	[542-75-6]	[22.8]	[161]	[107]
[Dieldrin†]	[60-57-1]	[0.00171]	[0.002]	[0.001]
[p-Dichlorobenzene]	[106-46-7]	[75*]	[---]	[---]
1,2 - Dichloroethane	107-06-2	5*	553 [73.9]	[49.3]
1,1 - Dichloroethylene	75-35-4	7* [1.63]	23,916 [5.84]	[3.9]
Dichloromethane	75-09-2	5*	5926	
1,2-Dichloropropane	78-87-5	5*	146	
1,3 - Dichloropropene	542-75-6	3.4	211	
Dicofol	115-32-2	0.049 [0.215]	0.049 [0.217]	[0.144]
Dieldrin†	60-57-1	0.001	0.001	
2,4-Dimethylphenol	105-67-9	257	571	
Di-*n*-Butyl Phthalate	84-74-2	1,318	3,010	
Dioxins/Furans (+) (TCDD Equivalents)[†]	1746-01-6	2.5E-03 ug/kg [1.34E-07]	2.5E-03 ug/kg [1.4E-07]	[0.0000000933]
Congener/Isomer	Toxic Equivalency Factors			
2,3,7,8 TCDD	1			
1,2,3,7,8 PeCDD [1,2,3,7,8, PeCDD]	1 [0.5]			
2,3,7,8 HxCDDs [2,3,7,8,HxCDD's]	0.1			
1,2,3,4,6,7,8 HpCDD	0.01			
2,3,7,8 TCDF	0.1 [0.0003]			
1,2,3,7,8 PeCDF	0.03 [0.05]			
2,3,4,7,8 PeCDF	0.3 [0.5]			
2,3,7,8 HxCDFs [2,3,7,8 HxCDF's]	0.1			
2,3,4,7,8 HpCDFs	0.01			
OCDD	0.0003			
OCDF	0.0003			
PCB 77	0.0001			
PCB 81	0.0003			
PCB 126	0.1			
PCB 169	0.03			
Endrin	72-20-8	0.20 [1.27]	0.20 [1.34]	[0.893]
Ethylbenzene	100-41-4	700*	7,143	
Fluoride	16984-48-8[7782-41-4]	4,000*	---	[---]
Heptachlor[†]	76-44-8	0.0015 [0.0026]	0.0015 [0.00265]	[0.00177]
Heptachlor Epoxide	1024-57-3	0.00074 [0.159]	0.00075 [1.1]	[0.723]
Hexachlorobenzene	118-74-1	0.0028 [0.0194]	0.0029 [0.0198]	[0.0132]
Hexachlorobutadiene	87-68-3	4.4 [2.99]	184 [3.6]	[2.4]
Hexachlorocyclohexane *(alpha)* [(alpha)]	319-84-6	0.050 [0.163]	0.093 [0.413]	[0.275]
Hexachlorocyclohexane *(beta)* [(beta)]	319-85-7	0.17 [0.57]	0.33 [1.45]	[0.964]

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Hexachlorocyclohexane *(gamma)* [(gamma)] (Lindane)	58-89-9	0.2*	6.2 [2]	[1.34]
Hexachlorocyclopentadiene	77-47-4	50*	3,703	
Hexachloroethane	67-72-1	14 [84.2]	33 [278]	[185]
Hexachlorophene	70-30-4	0.0080 [0.0531]	0.0080 [0.053]	[0.036]
Lead (d)	7439-92-1	1.15 [4.98]	3.83 [25.3]	[16.9]
Mercury †[‡]	7439-97-6	700 ug/kg [0.0122]	700 ug/kg [0.0122]	[0.025]
Methoxychlor	72-43-5	0.33 [2.21]	0.33 [2.22]	[1.48]
Methyl Ethyl Ketone	78-93-3	13,932 [52917]	1.50E+6 [9940000]	[6630000]
Nickel	7440-02-0	332	1140	
Nitrate-Nitrogen as total Nitrogen	14797-55-8	10,000*	---	[---]
Nitrobenzene	98-95-3	11 [37.3]	463 [233]	[156]
N-Nitrosodiethylamine [N-Nitrosodiethylamine]	55-18-5	0.0023 [0.0382]	1.3 [7.68]	[5.12]
N-Nitroso-di-*n*-Butylamine [N-Nitroso-di-n-Butylamine]	924-16-3	0.063 [1.84]	2.2 [13.5]	[8.98]
[PCB's] [(Polychlorinated Biphenyls)]	[1336-36-3]	[0.0013]	[0.0013]	[0.000885]
Pentachlorobenzene	608-93-5	1.0 [6.1]	1.0 [6.68]	[4.45]
Pentachlorophenol	87-86-5	1.0*	30 [135]	[90]
Polychlorinated Biphenyls *PCBs)* ±	1336-36-3	19.97 ug/kg	19.97 ug/kg	
Pyridine	110-86-1	23 [88.1]	2,014 [13333]	[8889]
Selenium	7782-49-2	50*	---	[---]
1,2,4,5 - Tetrachlorobenzene	95-94-3	0.65 [0.241]	0.71 [0.243]	[0.162]
1,1,2,2-Tetrachloroethane	79-34-5	1.7	40	
Tetrachloroethylene	127-18-4	5*	25 [323]	[215]
Thallium	7440-28-0	0.16	0.31	
Toluene	108-88-3	1,000*	20,027	
Toxaphene[†]	8001-35-2	0.0028 [0.005]	0.0028 [0.014]	[0.009]
2,4,5 - TP (Silvex)	93-72-1	7.3 [47]	7.6 [50.3]	[33.6]
[2,4,5 - Trichlorophenol]	[95-95-4]	[953]	[1069]	[712]
[Trichloroethylene]	[79-01-6]	[5*]	[612]	[408]
1,1,1 - Trichloroethane	71-55-6	200*	95,663 [12586]	[8391]
1,1,2-Trichloroethane	79-00-5	5*	156	
Trichloroethylene	79-01-6	5*	343	
2,4,5 - Trichlorophenol	95-95-4	1,194	2,435	[712]
TTHM (Sum of total trihalomethanes)		80 [100*]	---	[---]
bromodichloromethane	75-27-4			
dibromochloromethane	124-48-1			
tribromomethane (bromoform)	75-25-2			
trichloromethane (chloroform)	67-66-3			
Vinyl Chloride	75-01-4	0.25 [2*]	24 [415]	[277]

* Based on Maximum Contaminant Levels (MCLs) specified in 30 TAC §290 (relating to Public Drinking Water).

§ Consists of m, o, and p Cresols. The standards are the same for all three. CASRNs for cresols are 95-48-7 for *o*-Cresol [o-Cresol], 108-39-4 for *m*-Cresol [m-Cresol], and 106-44-5 for *p*-Cresol [p-Cresol].

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Compliance will be determined using the analytical method for cyanide amenable to chlorination or weak-acid dissociable cyanide.

(d) Indicates the criteria is for the dissolved fraction in water. All other criteria are for total recoverable concentrations.

† An assumed BCF of 3.3×10^4 is used to translate the tissue-based criterion to a water column criterion for the purposes of evaluating TPDES permittees. The criterion to protect combined water and fish consumption can not exceed drinking water MCL of 2 ug/L.

+ An assumed BCF of 5,000 is used to translate the tissue-based criterion to a water column criterion for the purposes of evaluating TPDES permittees.

‡ An assumed BCF of 5,000 is used to translate the tissue-based criterion to a water column criterion for the purposes of evaluating TPDES permittees.

± An assumed BCF of 3.12E4 is used to translate the tissue-based criterion to a water column criterion for the purposes of evaluating TPDES permittees.

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