COMPARISON OF WATER QUALITY STANDARDS/GUIDELINES

(Canadian, US, World Health Org, UK/EEC, Australian)

May-01

Parameter	units	CDWG		USEPA			WHO		UK (EEC)		Australia	
		Mar-01		Mar-01			1998		2000		1996	
		MAC/IMAC	AO	Primary Standards		Secondary Stds	Guidelines	AO	Standards	AO/Indicator	Guidelines	AO
Acrylamide	mg/L			0.0005	TT		0.0005		0.0001		0.0002	
Alachlor	mg/L			0.002			0.02					
Aldicarb	mg/L	0.009					0.01				0.001	
Aldrin + dieldrin	mg/L	0.0007					0.00003		0.00003		0.00001	
Aluminum	mg/L	0.1				0.05-0.2		0.2		0.2		0.2
Ametryn	mg/L										0.005	
Amitrole	mg/L										0.001	
Ammonia	mg/L							1.5		0.5		0.5
Antimony	mg/L	0.006		0.006			0.005		0.005		0.003	
Arsenic	mg/L	0.025		0.05			0.01		0.01		0.007	
Asbestos	fibres/L			7 million								
Atrazine	mg/L	0.005		0.003			0.002				0.0005	
Azinphos-methyl	mg/L	0.02									0.002	
Barium	mg/L	1.0		2			0.7				0.7	
Bendiocarb	mg/L	0.04										
Bentazone	mg/L						0.03					
Benzene	mg/L	0.005		0.005			0.01		0.001		0.001	
Benzo(a)pyrene	mg/L	0.00001		0.0002			0.00007		0.00001		0.00001	
Beryllium	mg/L			0.004								
Boron	mg/L	5					0.3		1		0.3	
Bromacil	mg/L										0.01	
Bromate	mg/L	0.01		0.01	2002		0.025		0.01		0.02	
Bromodichloromethane	mg/L						0.06					
Bromoform	mg/L						0.1					
Bromoxynil	mg/L	0.005										
Cadmium	mg/L	0.005		0.005			0.003		0.005		0.002	
Carbaryl	mg/L	0.09									0.005	
Carbofuran	mg/L	0.09		0.04			0.005				0.005	
Carbon Tetrachloride	mg/L	0.005		0.005			0.002			0.003	0.003	
Carboxin	mg/L										0.002	
Chloral Hydrate(trichloroacetaldehyde)	mg/L						0.01				0.02	
Chloramines	mg/L	3.0		4	2002		3				3	0.5
Chlordane	mg/L			0.002			0.0002				0.00001	
Chloride	mg/L		250			250		250		250		250
Chlorine (free)	mg/L			4	2002		5	0.6-1.0			5	0.6
Chlorine dioxide	mg/L			0.8	2002						1	0.4
Chlorite	mg/L			1	2002		0.2				0.3	
Chloroform	mg/L						0.2					
Chlorothalonil	mg/L										0.0001	
Chlorotoluron	mg/L						0.03					
Chlorpyrifos	mg/L	0.09										
Chromium	mg/L	0.05		0.1			0.05		0.05		0.05	
Clopyralid	mg/L										1	
Clostridium	cfu/100ml									0		
Coliforms (fecal)	mg/L	0		0			0					
Coliforms (total)	mg/L	0		95% 0			95% 0		0	0		
Colour	TCU		15			15		15		20		15
Conductivity	uS/cm									2500		
Copper	mg/L		1	1.3		1	2	1	2		2	1
Corrosivity						non-corrosive						
Cryptosporidium	mg/L			2-log	TT							
Cyanazine	mg/L	0.01										
Cyanide	mg/L	0.2		0.2			0.07		0.05		0.08	
Cyanogen chloride	mg/L						0.07				0.08	
Dalapon	mg/L			0.2								
DDT	mg/L						0.002				0.00006	

Diazinon	mg/L	0.02								0.001	
		CDWG		USEPA		WHO		UK (EEC)		Australia	
Parameter	units	Mar-01		Mar-01		1998		2000		1996	
		MAC/IMAC	AO	Primary Standards	Secondary Stds	Guidelines	AO	Standards	AO/Indicator	Guidelines	AO
Dibromoacetonitrile	mg/L					0.1					
Dibromochloromethane	mg/L					0.1					
Dibromochloropropane	mg/L			0.0002		0.001					
Dicamba	mg/L	0.12									
Dichloroacetic acid	mg/L					0.05				0.1	
Dichloroacetonitrile	mg/L					0.09					
Dichlorobenzene-1,2	mg/L	0.2	0.003	0.6		1	0.001-0.01			1.5	0.001
Dichlorobenzene-1,3	mg/L										0.02
Dichlorobenzene-1,4	mg/L	0.005	0.001	0.075		0.3	0.0003-0.03			0.04	0.0003
Dichloroethane-1,2	mg/L	0.005		0.005		0.03		0.003		0.003	
Dichloroethylene-1,1	mg/L	0.014		0.007		0.03				0.03	
Dichloroethylene-1,2-cis	mg/L			0.07		0.05				0.06	
Dichloroethylene-1,2-trans	mg/L			0.1							
Dichloromethane	mg/L	0.05		0.005		0.02				0.004	
Dichlorophenol-2,4	mg/L	0.9	0.0003				0.0003-0.04			0.2	0.0003
Dichlorophenoxyaceticacid-2,4	mg/L	0.1		0.07		0.03				0.0001	
Dichlorophenoxybutyricacid-2,4	mg/L					0.09					
Dichloropropane-1,2	mg/L			0.005		0.02					
Dichloropropene-1,3	mg/L					0.02					
Dichlorprop	mg/L					0.1					
Dichlorvos	mg/L									0.001	
Di(2-ethylhexyl)adipate	mg/L			0.4		0.08					
Di(2-ethylhexyl)phthalate	mg/L			0.006		0.008				0.01	
Diclofop-methyl	mg/L	0.009									
Dimethoate	mg/L	0.02									
Dinoseb	mg/L	0.01		0.007							
Dioxin (2,3,7,8-TCDD)	mg/L			0.00000003							
Diphenamid	mg/L									0.002	
Diquat	mg/L	0.07		0.02						0.0005	
Disulfoton	mg/L									0.001	
Diuron	mg/L	0.15									
e. Coli	mg/L	0		0		0		0			
Edetic acid (EDTA)	mg/L					0.2				0.25	
EDB	mg/L									0.001	
Endosulan	mg/L									0.00005	
Endothall	mg/L			0.1						0.01	
Endrin	mg/L			0.002							
Enterococci	cfu/100ml							0			
Epichlorohydrin	mg/L			0.002	TT	0.0004		0.0001		0.0005	
EPTC	mg/L									0.001	
Ethoprophos	mg/L									0.001	
Ethylbenzene	mg/L	0.0024		0.7		0.3	0.002-0.2			0.3	0.003
Ethylene dibromide	mg/L			0.00005							
Etridiazole	mg/L									0.0001	
Fenarimol	mg/L									0.001	
Fenoprop	mg/L					0.009					
Fensulfothion	mg/L									0.01	
Foaming agents	mg/L				0.5						
Fluoride	mg/L	1.5		4.0	2.0	1.5		1.5		1.5	
Formaldehyde	mg/L					0.9				0.5	
Giardia	mg/L			3-log	TT						
Glyphosate	mg/L	0.28		0.7						0.01	
Haloacetic acids	mg/L			0.06	2002						
Hardness (calcium)	mg/L										
Hardness (total)	mg/L										
Heptachlor	mg/L			0.0004		0.00003		0.00003		0.00005	
Heptachlor epoxide	mg/L			0.0002							
Heterotrophic Plate Count	cfu/ml	500		500							
Hexachlorobenzene	mg/L			0.001		0.001					

Hexachlorobutadiene	mg/L					0.0006				0.0007	
Hexachlorocyclopentadiene	mg/L			0.05							
		CDWG		USEPA		WHO		UK (EEC)		Australia	
Parameter	units	Mar-01		Mar-01		1998		2000		1996	
		MAC/IMAC	AO	Primary Standards	Secondary Stds	Guidelines	AO	Standards	AO/Indicator	Guidelines	AO
Hexazinone	mg/L									0.002	
Iodide	mg/L									0.1	
Iron	mg/L		0.3		0.3		0.3		0.2		0.3
Isoproturon	mg/L					0.009					
Lead	mg/L	0.01		0.015		0.01		0.025 (2003 -tap)		0.01	
Legionella				TT (3-log Giardia)							
Lindane	mg/L			0.0002		0.002				0.00005	
Malathion	mg/L	0.19									
Manganese	mg/L		0.05		0.05	0.5	0.1		0.05	0.5	0.1
MCPA	mg/L					0.002					
Mecoprop	mg/L					0.01					
Mercury	mg/L	0.001		0.002		0.001		0.001		0.001	
Methiocarb	mg/L									0.005	
Methomyl	mg/L									0.005	
Methoxychlor	mg/L	0.9		0.04		0.02				0.0002	
Metolachlor	mg/L	0.05				0.01				0.002	
Metribuzin	mg/L	0.08								0.001	
Mevinphos	mg/L									0.005	
Molinate	mg/L					0.006				0.0005	
Molybdenum	mg/L					0.07				0.05	
Monochloroacetic acid	mg/L									0.15	
Monochlorobenzene	mg/L	0.08	0.03	0.1		0.3	0.01-0.12			0.3	0.01
Monochlorophenol-2	mg/L						0.0001-0.01			0.3	0.0001
Napropamide	mg/L									0.001	
Nickel	mg/L					0.02		0.02		0.02	
Nitrate	mg/L	45		45		50		50		50	
Nitrite	mg/L			3		3		0.5		3	
Nitrilotriacetic acid (NTA)	mg/L	0.4				0.2				0.2	
Norflurazon	mg/L									0.002	
Odour			inoffensive		TON 3		acceptable		TON 3		acceptable
Oxamyl (vydate)	mg/L			0.2						0.005	
Paraquat	mg/L	0.01								0.001	
Parathion	mg/L	0.05								0.0003	
Pebulate	mg/L									0.0005	
Pendimethalin	mg/L					0.02					
Pentachlorophenol	mg/L	0.06	0.03	0.001		0.009				0.00001	
Permethrin	mg/L					0.02				0.001	
Pesticides (total)	mg/L							0.0005			
Pesticides (other)	mg/L							0.0001			
pH	pH units		6.5-8.5		6.5-8.5				6.5-10		6.5-8.5
Phorate	mg/L	0.002									
Picloram	mg/L	0.19		0.5							
Polychlorinatedbiphenyls (PCB)	mg/L			0.0005							
Polycyclic aromatic hydrocarbons(PAH)	mg/L							0.0001			
Propachlor	mg/L									0.001	
Propanil	mg/L					0.02				0.0001	
Propazine	mg/L									0.0005	
Propiconazole	mg/L									0.0001	
Propyzamide	mg/L									0.002	
Pryridate	mg/L					0.1					
Selenium	mg/L	0.01		0.05		0.01		0.01		0.01	
Silver	mg/L				0.1					0.1	
Simazine	mg/L	0.01		0.004		0.002				0.0005	
Sodium	mg/L		200				200		200		180
Styrene	mg/L			0.1		0.02	0.004-2.6			0.03	0.004
Sulphate	mg/L		500		250		250		250	500	250
Sulphide	mg/L		0.05				0.05				0.05
Taste			Inoffensive				acceptable		TON 3		acceptable

Temephos	mg/L									0.3	
Temperature	Deg C		<15				acceptable				
Terbacil	mg/L									0.01	
Parameter	units	CDWG		USEPA		WHO		UK (EEC)		Australia	
		Mar-01		Mar-01		1998		2000		1996	
		MAC/IMAC	AO	Primary Standards	Secondary Stds	Guidelines	AO	Standards	AO/Indicator	Guidelines	AO
Terbufos	mg/L	0.001								0.0005	
Terbutryn	mg/L									0.001	
Tetrachloroethylene	mg/L	0.03		0.005		0.04		0.01		0.05	
Tetrachlorophenol-2,3,4,6	mg/L	0.1	0.001								
Tetrachlorvinphos	mg/L									0.002	
Thallium	mg/L			0.002							
Toluene	mg/L		0.024	1		0.7	0.024-0.17			0.8	0.025
Total Dissolved Solids	mg/L		500		500		1000				500
Toxaphene	mg/L			0.003							
Triadimefon	mg/L									0.1	
Tributyltin oxide	mg/L					0.002				0.001	
Trichloroacetic acid	mg/L					0.1				0.1	
Trichloroacetonitrile	mg/L					0.001					
Trichlorobenzene-1,2,4	mg/L			0.07		0.02	0.005-0.05			0.03	0.005
Trichloroethane-1,1,1	mg/L			0.2		2					
Trichloroethane-1,1,2	mg/L			0.005							
Trichloroethylene	mg/L	0.05		0.005		0.07		0.01			
Trichlorophenol-2,4,6	mg/L	0.005	0.002			0.2	0.002-0.3			0.02	0.002
Trichlorophenoxyaceticacid	mg/L			0.05		0.009				0.00005	
Trifluralin	mg/L	0.045				0.02				0.0001	
Trihalomethanes	mg/L	0.1		0.1 (0.08 as of 2002)				0.1		0.25	
Turbidity	NTU	1	5	TT 1.0 (95% 0.5)	TT	1(median)	5		1, 4		5, 1
Uranium	mg/L	0.02		0.03	2003					0.02	
Vernolate	mg/L									0.0005	
Vinyl Chloride	mg/L	0.002		0.002		0.005		0.0005		0.0003	
Viruses				4-log	TT						
Xylenes	mg/L		0.3	10		0.5	0.02-1.8			0.6	0.02
Zinc	mg/L		5.0		5		3				3

AO = Aesthetic Objective
TT = Treatment Technology