

**EPA Region III BTAG
FRESHWATER SCREENING BENCHMARKS
7/2006**

CAS#	Analyte	Screening Value (ug/l)	Ref	End Note	Bioaccumulative ^a B	
					Class of Compound	
71-55-6	1,1,1-Trichloroethane	11	a	1	Volatile	
79-34-5	1,1,2,2-Tetrachloroethane	610	a	1	Volatile	
127-18-4	1,1,2,2-Tetrachloroethylene (PCE)	111	b	2	Volatile	
79-00-5	1,1,2-Trichloroethane	1200	a	1	Volatile	
79-01-6	1,1,2-Trichloroethene (TCE)	21	b	2		
92-52-4	1,1-Biphenyl	14	c	1	PAH	
75-34-3	1,1-Dichloroethane	47	c	1	Volatile	
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	25	a	1	Volatile	
75-35-4	1,1-Dichloroethylene	25	a	1	Volatile	
634-66-2	1,2,3,4-Tetrachlorobenzene	1.8	b	2	Other Semi-Volatile	B
87-61-6	1,2,3-Trichlorobenzene	8	b	2	Other Semi-Volatile	
95-94-3	1,2,4,5-Tetrachlorobenzene	3	d	3	Other Semi-Volatile	B
120-82-1	1,2,4-Trichlorobenzene	24	b	2	Volatile	B
95-63-6	1,2,4-Trimethylbenzene	33	e,f	4	Volatile	B
95-50-1	1,2-Dichlorobenzene	0.7	b	2	Volatile	B
107-06-2	1,2-Dichloroethane	100	b	2	Volatile	
540-59-0	1,2-Dichloroethene (1,2-Dichloroethylene)	590	a	1	Volatile	
540-59-0	1,2-Dichloroethylene	590	a	1	Volatile	
156-60-5	1,2-Trans-Dichloroethylene	970	g	5	Volatile	
108-67-8	1,3,5-Trimethylbenzene	71	h,i	6	Volatile	
541-73-1	1,3-Dichlorobenzene	150	b	2	Volatile	B
542-75-6	1,3-Dichloropropene (1,3-Dichloropropylene)	0.055	a	1	Volatile	
542-75-6	1,3-Dichloropropylene	0.055	a	1	Volatile	
106-46-7	1,4-Dichlorobenzene	26	b	2	Volatile	B
99-08-1	1-Methyl-3-nitrobenzene	750	h,i	6	Other Semi-Volatile	
99-99-0	1-Methyl-4-nitrobenzene (4-Nitrotoluene)	1900	h,i	6	Other Semi-Volatile	
90-12-0	1-Methylnaphthalene	2.1	a	1	PAH	
71-41-0	1-Pentanol	110	a	1	Volatile	
10222-01-2	2,2-Dibromo-3-nitropropionamide	20	e,f	4,7	Other Semi-Volatile	
58-90-2	2,3,4,6-Tetrachlorophenol	1.2	d	3	Other Semi-Volatile	
1746-01-6	2,3,7,8-TCDD-Dioxin	3.1E-09	j	8	Dioxin/Furans	B
51207-31-9	2,3,7,8-TCDF		k	9	Dioxin/Furans	B
93-72-1	2,4,5-TP (Silvex)	30	d	3	Volatile	
93-76-5	2,4,5-Trichlorophenoxyacetic acid	686	l,m	10	Phenoxyaceticacid Herbicide	
88-06-2	2,4,6-Trichlorophenol	4.9	g	5	Other Semi-Volatile	
118-96-7	2,4,6-Trinitrotoluene (TNT)	100	h,i	6	Other Semi-Volatile	
120-83-2	2,4-Dichlorophenol	11	g	5	Other Semi-Volatile	
121-14-2	2,4-Dinitrotoluene	44	g	5	Other Semi-Volatile	
606-20-2	2,6-Dinitrotoluene	81	g	5	Other Semi-Volatile	
35572-78-2	2-Amino-4,6-dinitrotoluene	1480	h,i	6	Other Semi-Volatile	
78-93-3	2-Butanone	14000	a	1	Volatile	
95-57-8	2-Chlorophenol	24	d	3	Other Semi-Volatile	
591-78-6	2-Hexanone	99	a	1	Volatile	
91-57-6	2-Methylnaphthalene	4.7	e,f	4	PAH	
95-48-7	2-Methylphenol	13	a	1	Other Semi-Volatile	
88-75-5	2-Nitrophenol	1920	h,i	6	Other Semi-Volatile	
111-13-7	2-Octanone	8.3	a	1	Other Semi-Volatile	

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					Class of Compound	
67-63-0	2-Propanol	7.5	a	1	Volatile	
91-94-1	3,3'- Dichlorobenzidine	4.5	d	3	Other Semi-Volatile	
99-08-1	3-Nitrotoluene (1-Methyl-3-nitrobenzene)	750	h,i	6	Other Semi-Volatile	
106-68-3	3-Octanone	3571	a	11	Volatile	
101-55-3	4-Bromophenyl phenyl ether	1.5	c	1	Other Semi-Volatile	B
106-47-8	4-Chloroaniline	232	l,m	10	Other Semi-Volatile	
7005-72-3	4-Chlorophenyl- phenyl ether				Other Semi-Volatile	B
99-87-6	4-Isopropyltoluene (Cymene)	85	h,i	6	Other Semi-Volatile	
108-10-1	4-Methyl-2-pentanone	170	a	1	Volatile	
106-44-5	4-Methylphenol	543	h,i	6	Other Semi-Volatile	
100-02-7	4-Nitrophenol	60	a	12	Other Semi-Volatile	
99-99-0	4-Nitrotoluene	1900	h,i	6	Other Semi-Volatile	
83-32-9	Acenaphthene	5.8	b	2	PAH	B
208-96-8	Acenaphthylene				PAH	B
67-64-1	Acetone	1500	a	1	Volatile	
75-05-8	Acetonitrile	12000	g	5	Volatile	
309-00-2	Aldrin	3	n	13	Organochlorine Pesticide	B
7429-90-5	Aluminum	87	n	13	Inorganic/Metal	
7664-41-7	Ammonia (un-ionized)	19	b	2	Inorganic	
62-53-3	Aniline	2.2	b	2	Other Semi-Volatile	
120-12-7	Anthracene	0.012	b	2	PAH	B
7440-36-0	Antimony	30	a	1	Inorganic/Metal	
140-57-8	Aramite	3.09	l,m	10	Other Semi-Volatile	
12674-11-2	Aroclor 1016 (total PCBs)	0.000074	j	8	Other Pesticide/PCB	B
11104-28-2	Aroclor 1221 (total PCBs)	0.000074	j	8	Other Pesticide/PCB	B
11141-16-5	Aroclor 1232 (total PCBs)	0.000074	j	8	Other Pesticide/PCB	B
53469-21-9	Aroclor 1242 (total PCBs)	0.000074	j	8	Other Pesticide/PCB	B
12672-29-6	Aroclor 1248 (total PCBs)	0.000074	j	8	Other Pesticide/PCB	B
11097-69-1	Aroclor 1254 (total PCBs)	0.000074	j	8	Other Pesticide/PCB	B
11096-82-5	Aroclor 1260 (total PCBs)	0.000074	j	8	Other Pesticide/PCB	B
7440-38-2	Arsenic	5	b	2	Inorganic/Metal	B
22569-72-8	Arsenic III	55	a	14	Inorganic/Metal	
17428-41-0	Arsenic V	3.1	a	1	Inorganic/Metal	
1912-24-9	Atrazine	1.8	b	2	Triazine Herbicide	
86-50-0	Azinophosmethyl (Guthion)	0.01	n	13	Organophosphorus Pesticide	
7440-39-3	Barium	4	a	1	Inorganic/Metal	
71-43-2	Benzene	370	b	2	Volatile	
92-87-5	Benzidine	3.9	a	1	Other Semi-Volatile	
56-55-3	Benzo(a)anthracene	0.018	b	2	PAH	B
50-32-8	Benzo(a)pyrene	0.015	b	2	PAH	B
205-99-2	Benzo(b)fluoranthene				PAH	B
191-24-2	Benzo(g,h,i)perylene				PAH	B
207-08-9	Benzo(k)fluoranthene				PAH	B
65-85-0	Benzoic Acid	42	a	1	Other Semi-Volatile	
100-51-6	Benzyl alcohol	8.6	a	1	Other Semi-Volatile	
7440-41-7	Beryllium	0.66	a	1	Inorganic/Metal	
	BHC (non Lindane)	2.2	a	1	Organochlorine Pesticide	

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319-84-6	BHC, alpha				Organochlorine Pesticide	B
319-85-7	BHC, beta				Organochlorine Pesticide	B
319-86-8	BHC, delta	141	h,i	6	Organochlorine Pesticide	B
58-89-9	BHC, gamma (Lindane)	0.01	b	2	Organochlorine Pesticide	B
92-52-4	Biphenyl (1,1-Biphenyl)	14	c	1	Other Semi-Volatile	
117-81-7	bis (2-ethylhexyl) phthalate	16	b	2	Other Semi-Volatile	
7440-42-8	Boron	1.6	a	1	Inorganic/Metal	
75-25-2	Bromoform	320	c	1	Volatile	
74-83-9	Bromomethane				Volatile	
85-68-7	Butyl benzyl phthalate	19	c	1	Other Semi-Volatile	
7440-43-9	Cadmium (hardness=100)	0.25	n	15	Inorganic/Metal	B
7440-70-2	Calcium	116000	a	16	Inorganic/Metal	
63-25-2	Carbaryl (Sevin)	0.2	b	2	Other Pesticide/PCB	
1563-66-2	Carbofuran	1.8	b	2	N-Methylcarbamate herbicide	
75-15-0	Carbon disulfide	0.92	a	1	Volatile	
56-23-5	Carbon tetrachloride	13.3	b	2	Volatile	
57-74-9	Chlordane	0.0022	n	13	Organochlorine Pesticide	B
16887-00-6	Chloride	230000	n	13	Inorganic/Metal	
7782-50-5	Chlorine (TRC)	11	n	13	Inorganic/Metal	
108-90-7	Chlorobenzene	1.3	b	2	Volatile	
510-15-6	Chlorobenzilate	7.16	l,m	10	Other Pesticide/PCB	
67-66-3	Chloroform	1.8	b	2	Volatile	
2921-88-2	Chloropyrifos	0.0035	b	2	Organophosphorus Pesticide	B
16065-83-1	Chromium III (hardness=100)	74	n	15	Inorganic/Metal	
7440-47-3	Chromium Total (hardness=100)	85	n		Inorganic/Metal	
18540-29-9	Chromium VI (hardness=100)	11	n		Inorganic/Metal	B
218-01-9	Chrysene				PAH	B
7440-48-4	Cobalt	23	a	1	Inorganic/Metal	
7440-50-8	Copper (hardness=100)	9	n	13,15	Inorganic/Metal	B
98-82-8	Cumene	2.6	e,f	4	Volatile	
57-12-5	Cyanide, free	5	b	2	Inorganic/Metal	
99-87-6	Cymene	85	h,i	6	Volatile	
72-54-8	DDD (p,p')	0.011	a	1	Organochlorine Pesticide	B
72-55-9	DDE				Organochlorine Pesticide	B
50-29-3	DDT (4,4' DDT)	0.0005	n	13	Organochlorine Pesticide	B
	DDT (op + pp)				Organochlorine Pesticide	B
	DDT, Total				Organochlorine Pesticide	B
	DDT/DDE/DDD (total)	0.000011	j	8	Organochlorine Pesticide	B
124-18-5	Decane	49	a	1	Other Semi-Volatile	
8065-48-3	Demeton	0.1	n	13	Other Semi-Volatile	
117-81-7	Di(2-ethylhexyl)phthalate (Bis(2-ethylhexyl) phthalate)	16	b	2	Other Semi-Volatile	
333-41-5	Diazinon	0.043	a	1	Other Pesticide/PCB	B
53-70-3	Dibenzo(a,h)anthracene				PAH	B
132-64-9	Dibenzofuran	3.7	a	1	Other Semi-Volatile	
3252-43-5	Dibromoacetonitrile	20	e,f	4,7	Other Semi-Volatile	
25321-22-6	Dichlorobenzene (mixed isomers)	5	e,f	4,17	Volatile	
75-09-2	Dichloromethane	98.1	b	2	Volatile	

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					Class of Compound	
SEQ NO-35-8	Dichlorophenols, total	0.2	b	2	Other Semi-Volatile	
542-75-6	Dichloropropene (1,3-Dichloropropylene)	0.055	a	1	Volatile	
115-32-2	Dicofol (Kelthane)				Other Pesticide/PCB	B
60-57-1	Dieldrin	0.056	n	13	Organochlorine Pesticide	B
84-66-2	Diethylphthalate	210	a	1	Other Semi-Volatile	
60-51-5	Dimethoate	6.2	b	2	Other Pesticide/PCB	
84-74-2	Di-n-butyl phthalate	19	b	2	Other Semi-Volatile	
117-84-0	Di-n-octyl phthalate	22	h,i	6	Other Semi-Volatile	
88-85-7	Dinoseb	0.05	b	2	Other Pesticide/PCB	
117-84-0	Diocetylphthalate (Di-n-octyl phthalate)	22	h,i	6	Other Semi-Volatile	
298-04-4	Disulfoton				Pesticide	B
115-29-7	Endosulfan (alpha and beta)	0.02	b	2	Organochlorine Pesticide	B
959-98-8	Endosulfan I (a-endosulfan)	0.051	c	1	Organochlorine Pesticide	B
33213-65-9	Endosulfan II (b-endosulfan)	0.051	c	1	Organochlorine Pesticide	B
72-20-8	Endrin	0.036	n	13	Organochlorine Pesticide	B
100-41-4	Ethylbenzene	90	b	2	Volatile	
107-06-2	Ethylene dichloride (1,2-Dichloroethane)	100	b	2	Volatile	
107-21-1	Ethylene glycol	192000	b	2	Other Semi-Volatile	
206-44-0	Fluoranthene	0.04	b	2	PAH	B
86-73-7	Fluorene	3	b	2	PAH	B
16984-48-8	Fluoride (hardness = 100)	2119.4	e,f	4,15	Inorganic	
7782-41-4	Fluorine	1080	a	12	Inorganic	
86-50-0	Guthion	0.01	n	13	Other Pesticide/PCB	
319-86-8	HCH, d- (BHC, delta)	141	h,i	6	Organochlorine Pesticide	
58-89-9	HCH, gamma (Lindane) (BHC, gamma)	0.01	b	2	Organochlorine Pesticide	
76-44-8	Heptachlor	0.0019	n	13	Organochlorine Pesticide	B
	Heptachlor & Heptachlor epoxide				Organochlorine Pesticide	B
1024-57-3	Heptachlor epoxide	0.0019	n	13	Organochlorine Pesticide	B
118-74-1	Hexachlorobenzene	0.0003	d	18	Other Semi-Volatile	B
87-68-3	Hexachlorobutadiene	1.3	b	2	Volatile	B
608-73-1	Hexachlorocyclohexanes (HCH, BHC)	0.01	b	2	Organochlorine Pesticide	B
77-47-4	Hexachlorocyclopentadiene				Organochlorine Pesticide	B
67-72-1	Hexachloroethane	12	c	1	Volatile	B
110-54-3	Hexane	0.58	a	1	Volatile	
2691-41-0	HMX (Octogen)	150	h,i	6	Other Pesticide/PCB	
302-01-2	Hydrazine (hardness <50)	5	e,f	4	Volatile	
302-01-2	Hydrazine (hardness =>50)	10	e,f	4	Volatile	
123-31-9	Hydroquinone	2.2	e,f	4	Other Semi-Volatile	
193-39-5	Indeno(1,2,3-c,d)pyrene				PAH	B
7439-89-6	Iron	300	b	2	Inorganic/Metal	
29761-21-5	Isodecyl diphenyl phosphate	1.7	e,f	4	Other Semi-Volatile	
98-82-8	Isopropylbenzene (Cumene)	2.6	e,f	4		
	Isothiazolones, total	1	e,f	4	Other Semi-Volatile	
7439-92-1	Lead (hardness=100)	2.5	n	13,15	Inorganic/Metal	B
58-89-9	Lindane (BHC,gamma)	0.01	b	2	Organochlorine Pesticide	
	Linear alkyl benzene sulfates (LAS)	40	e,f	4,19	Other Semi-Volatile	
7439-93-2	Lithium	14	a	1	Inorganic/Metal	

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7439-95-4	Magnesium	82000	a	16	Inorganic/Metal	
121-75-5	Malathion	0.097	c	1	Other Pesticide/PCB	
7439-96-5	Manganese	120	a	1	Inorganic/Metal	
7439-97-6	Mercury	0.026	b	2	Inorganic/Metal	
72-43-5	Methoxychlor	0.019	c	1	Organochlorine Pesticide	B
78-93-3	Methyl ethyl ketone (2-Butanone)	14000	a	1	Volatile	
111-13-7	Methyl hexyl ketone (2-Octanone)	8.3	a	1	Volatile	
108-10-1	Methyl isobutyl ketone (4-Methyl-2-pentanone)	170	a	1	Volatile	
80-62-6	Methyl methacrylate	2800	l,m	10	Volatile	
1634-04-4	Methyl tert-butyl ether (MTBE)	11070	h,i	6	Other Semi-Volatile	
6317-18-6	Methylene bithiocyanate	1	e,f	4	Other Semi-Volatile	
75-09-2	Methylene chloride (Dichloromethane)	98.1	b	2	Volatile	
22967-92-6	Methylmercury	0.004	b	2	Volatile	B
2385-85-5	Mirex	0.001	n	13	Chlorinated Pesticides	B
7439-98-7	Molybdenum	73	b	2	Inorganic/Metal	
108-90-7	Monochlorobenzene (Chlorobenzene)	1.3	b	2		
	Monochlorophenols, total	7	b	2	Other Semi-Volatile	
91-20-3	Naphthalene	1.1	b	2	PAH	
84-74-2	n-Butylphthalate (Di-n-butyl phthalate)	19	b	2	Other Semi-Volatile	
7440-02-0	Nickel (hardness=100)	52	n	13,15	Inorganic/Metal	B
139-13-9	Nitrilotriacetic acid	5000	e,f	4,20		
	Nitrite (cold water)	20	e,f	4	Anion	
	Nitrite (warm water)	100	e,f	4	Anion	
55-63-0	Nitroglycerine	138	h,i	6	Other Semi-Volatile	
55-18-5	N-Nitrosodiethylamine	768	l,m	10	Other Semi-Volatile	
62-75-9	N-Nitrosodimethylamine	117	o	21	Other Semi-Volatile	
86-30-6	N-Nitrosodiphenylamine	210	a	1	Other Semi-Volatile	
95-48-7	o-Cresol (2-Methylphenol)	13	a	1	Other Semi-Volatile	
56-38-2	Parathion	0.013	n	13	PAH	
	Parathion and methyl parathion	0.008	e,f	4	Organophosphorus Pesticide	
1336-36-3	PCBs, total	0.000074	j	8	Other Pesticide/PCB	
106-44-5	p-Cresol (4-Methylphenol)	543	h,i	6	Other Semi-Volatile	
608-93-5	Pentachlorobenzene	6	b	2	Other Semi-Volatile	B
76-01-7	Pentachloroethane	56.4	l,m	10	Other Semi-Volatile	
87-86-5	Pentachlorophenol (pH = 7.8)	0.5	b	2	Other Semi-Volatile	B
78-11-5	PETN (Pentaerythrite-tetranitrate)	85000	h,i	6	Other Semi-Volatile	
	pH	6.5-9	b	2	Inorganic	
85-01-8	Phenanthrene	0.4	b	2	PAH	B
108-95-2	Phenol	4	b	2	Other Semi-Volatile	B
100-42-5	Phenylethylene	72	b	2	Other Semi-Volatile	
298-02-2	Phorate	3.62	l,m	10		
7723-14-0	Phosphorus		p	22	Inorganic/Metal	
51207-31-9	Polychlorinated dibenzofurans		k	9	Dioxins/Furans	
	Polychlorinated dibenzo-p-dioxins (PCDD-S)		k	9	Dioxins/Furans	
7440-09-7	Potassium	53000	a	16	Inorganic/Metal	
103-65-1	Propyl benzene	128	h,i	6	Volatile	
129-00-0	Pyrene	0.025	b	2	PAH	B

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110-86-1	Pyridine	2380	l,m	10	Volatile	
	Quaternary ammonium compounds, total	10	e,f	4	Inorganic	
121-82-4	RDX (Cyclonite)	360	h,i	6	Explosive	
7782-49-2	Selenium	1	b	2	Inorganic/Metal	B
7440-22-4	Silver (hardness = 100)	3.2	n	13,15	Inorganic/Metal	B
7440-23-5	Sodium	680000	a	16	Inorganic/Metal	
7440-24-6	Strontium	1500	a	1	Inorganic/Metal	
100-42-5	Styrene (Phenylethylene)	72	b	2	Volatile	
7783-06-4	Sulfide (Hydrogen Sulfide)	2	n	13	Anion	
	Sulfite	200	e,f	4	Anion	
95-94-3	Tetrachlorobenzene (1,2,4,5-Tetrachlorobenzene)	3	d	3	Other Semi-Volatile	
79-34-5	Tetrachloroethane (1,1,2,2-Tetrachloroethane)	610	a	1	Volatile	
127-18-4	Tetrachloroethene (1,1,2,2-Tetrachloroethylene)	111	b	2	Volatile	
127-18-4	Tetrachloroethylene (1,1,2,2-Tetrachloroethylene)	111	b	2	Volatile	
56-23-5	Tetrachloromethane (Carbon tetrachloride)	13.3	b	2	Volatile	
	Tetrachlorophenols, total	1	b	2	Other Semi-Volatile	
7440-28-0	Thallium	0.8	b	2	Inorganic/Metal	
7440-31-5	Tin	73	a	1	Inorganic/Metal	
108-88-3	Toluene	2	b	2	Volatile	
8001-35-2	Toxaphene	0.0002	n	13	Organochlorine Pesticide	B
156-60-5	trans-1,2-Dichloroethylene (1,2-trans-Dichloroethylene)	970	g	5	Volatile	
75-25-2	Tribromomethane (Bromoform)	320	c	1	Volatile	
688-73-3	Tributyltin	0.008	b	2	Inorganic/Metal	B
12002-48-1	Trichlorobenzene (mixed isomers)	5	e,f	4,23	Other Semi-Volatile	
79-00-5	Trichloroethane (1,1,2-Trichloroethane)	1200	a	1	Volatile	
79-01-6	Trichloroethene (Trichloroethylene)	21	b	2	Volatile	
79-01-6	Trichloroethylene	21	b	2	Volatile	
67-66-3	Trichloromethane (Chloroform)	1.8	b	2	Volatile	
25167-82-2	Trichlorophenols, total	18	b	2	Other Semi-Volatile	
1582-09-8	Trifluralin	0.2	b	2		
115-86-6	Triphenyl phosphate	4	e,f	4	Other Semi-Volatile	
7440-61-1	Uranium (hardness = 100)	2.6	a	1	Inorganic/Metal	
7440-62-2	Vanadium	20	a	1	Inorganic/Metal	
1314-62-1	Vanadium pentoxide	15	h,i	6	Inorganic/Metal	
108-05-4	Vinyl acetate	16	a	1	Volatile	
100-42-5	Vinyl benzene (Phenylethylene)	72	b	2	Volatile	
75-01-4	Vinyl chloride	930	d	3	Volatile	
75-35-4	Vinylidene chloride (1,1-Dichloroethylene)	25	a	1	Volatile	
108-38-3	Xylene, m-	1.8	c	1	Volatile	
1330-20-7	Xylenes (total)	13	a	1	Volatile	
7440-66-6	Zinc (hardness = 100)	120	n	15	Inorganic/Metal	B
7440-67-7	Zirconium	17	a	1	Inorganic/Metal	

Note: Values are expressed in terms of dissolved analyte in the water column except for those indicated with endnote 2 which are expressed in terms of total concentration.

ENDNOTES

¹GLWQI Tier II values (U.S. EPA OSWER 1996^c, Suter and Tsao 1996^a).

²The Canadian Water Quality Guidelines values refer to the total concentration in an unfiltered sample.

³ Final Chronic Value.

⁴Value calculated using Tier I or Tier II methodology as described in NYCRR (1999^f).

⁵Data are Ohio River Basin aquatic life Tier II values from the OMZA.

⁶Values derived using LC₅₀ approach in accordance with methodology defined in TNRCC (2000ⁱ, 2001^h). Concentrations of non-persistent toxic materials shall not exceed concentrations which are chronically toxic (0.1 of acute LC₅₀ values) to the most sensitive aquatic species. Concentrations of persistent toxic materials that do not bioaccumulate shall not exceed concentrations which are chronically toxic (0.05 of LC₅₀ values) to the most sensitive aquatic species. Concentrations of toxic materials that bioaccumulate shall not exceed concentrations that are chronically toxic (0.01 of LC₅₀) to the most sensitive aquatic species.

⁷The screening value of 20 ug/L is for 2,2-Dibromo-3-nitropropionamide and dibromoacetonitrile combined.

⁸This value is based on the food chain and not direct toxicity.

⁹Congener- and receptor-specific dioxin equivalency.

¹⁰Value is based on an interim criterion developed according to the procedures described in U.S. EPA Region 5 (1999^m). Source data used in developing interim criteria were obtained through the Aquatic Toxicity Information Retrieval (ACQUIRE) database.

¹¹Value is the lowest test EC₂₀ for fish (Suter and Tsao 1996^a).

¹²Value is the lowest population EC₂₀ (Suter and Tsao 1996^a).

¹³Criterion Continuous Concentration (CCC) values are used rather than Criteria Maximum Concentration (CMC) values. The CMC is an estimate of the highest concentration of a material in surface water to which an aquatic community can be exposed briefly without resulting in an unacceptable effect. The CCC is an estimate of the highest concentration of a material in surface water to which an aquatic community can be exposed indefinitely without resulting in an unacceptable effect. No CCC values are available for aldrin and silver; therefore the CMC values are used. The Criteria for chlordane, 4,4' DDT, heptachlor and heptachlor epoxide are based on 304(a) aquatic life criterion issued in 1980. The Minimum Data Requirements and derivation procedures were different in the 1980 and 1985 Guidelines. The AWQC values are divided by 2 to obtain a value that is more comparable to a CMC derived using the 1985 Guidelines.

¹⁴Value is the lowest sensitive species test EC₂₀ for (Suter and Tsao 1996^a).

¹⁵ See Freshwater Values for Hardness-Dependent Contaminants table if hardness does not equal 100. AWQC (2002ⁿ) and Suter and Tsao (1996^a) values were used instead of CCME (2002^b) values if equations for variable hardness were not provided in the CCME document. The CCME values are: 0.017 ug/l cadmium, 8.9 ug/l chromium III, 1 ug/l chromium VI, 0.1 ug/l silver, and 30 ug/l zinc.

¹⁶ Lowest Chronic Value for Daphnids (Suter and Tsao 1996^a).

¹⁷Applies to the sum of 1,2-, 1,3- and 1,4-dichlorobenzene.

¹⁸Wildlife value.

¹⁹LAS with side chains greater than 13 carbons only; applies to the sum of these substances. 1996^a

²⁰Applies to nitrotriacetate (NY DEC 1993^e).

²¹Oregon Water Quality Criteria Freshwater acute criteria divided by 50, for acute to chronic conversion (Oregon DEQ 1998^o).

²²Select a value from the criteria documents (Lakes and Reservoirs, Rivers and Streams) for the ecoregion, which corresponds to the site location.

²³Applies to the sum of 1,2,3-, 1,2,4- and 1,3,5-trichlorobenzene.