APPENDIX L

NYSDEC Soil Cleanup Objectives and GW Quality Standards

FYN PAINT AND LACQUER CO., INC.
230 KENT AVENUE
BROOKLYN, KINGS COUNTY, NEW YORK
NYSDEC BCP SITE NO. C224154
INDEX NO. C224154-02-15

Table 375-6: Remedial Program Soil Cleanup Objectives
NYSDEC Soil Guidance - PCBs and Pesticides

Contaminant	CAS Number	UNRESTRICTED	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater
			Residential	Restricted-Residential	Commercial	Industrial		
2,4,5-TP Acid (Silvex) [4]	93-72-1	3.8	58	100[a]	500[b]	1,000[c]	NS	3.8
4,4'-DDE	72-55-9	0.0033 [1]	1.8	8.9	62	120	0.0033 [e]	17
4,4'-DDT	50-29-3	0.0033 [1]	1.7	7.9	47	94	0.0033 [e]	136
4,4'-DDD	72-54-8	0.0033 [1]	2.6	13	92	180	0.0033 [e]	14
Aldrin	309-00-2	0.005 [2]	0.019	0.097	0.68	1.4	0.14	0.19
alpha-BHC	319-84-6	0.02	0.097	0.48	3.4	6.8	0.04[g]	0.02
beta-BHC	319-85-7	0.036	0.072	0.36	3	14	0.6	0.09
Chlordane (alpha)	5103-71-9	0.094	0.91	4.2	24	47	1.3	2.9
delta-BHC [5]	319-86-8	0.04	100[a]	100[a]	500[b]	1,000[c]	0.04[g]	0.25
Dibenzofuran [4]	132-64-9	7	14	59	350	1,000[c]	NS	210
Dieldrin	60-57-1	0.005 [2]	0.039	0.2	1.4	2.8	0.006	0.1
Endosulfan I [3, 4]	959-98-8	2.4	4.8[i]	24[i]	200[i]	920[i]	NS	102
Endosulfan II [3, 4]	33213-65-9	2.4	4.8[i]	24[i]	200[i]	920[i]	NS	102
Endosulfan sulfate [3, 4]	1031-07-8	2.4	4.8[i]	24[i]	200[i]	920[i]	NS	1,000[c]
Endrin	72-20-8	0.014	2.2	11	89	410	0.014	0.06
Heptachlor	76-44-8	0.042	0.42	2.1	15	29	0.14	0.38
Lindane	58-89-9	0.1	0.28	1.3	9.2	23	6	0.1
Polychlorinated biphenyls	1336-36-3	0.1	1	1	1	25	1	3.2

All soil cleanup objectives (SCOs) are in parts per million (ppm). NS=Not specified. See Technical Support Document (TSD). Footnotes

[1] For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the Track 1 SCO value.

[2] For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 1 SCO value for this use of the site.

[3] SCO is the sum of endosulfan I, endosulfan II and endosulfan sulfate.

[4] Protection of ecological resources SCOs were not developed for contaminants identified in Table 375-6.8(b) with "NS".
Where such contaminants appear in Table 375-6.8(a), the applicant may be required by the Department to calculate a protection of ecological resources SCO according to the TSD.

[5] This SCO is derived from data on mixed isomers of BHC.

[a] The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

[b] The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.

[c] The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm. See TSD section 9.3.

[d] The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.

[e] For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

[f] For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.

[g] This SCO is derived from data on mixed isomers of BHC.

[h] The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

[i] This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

[j] This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts). See TSD Table 5.6-1.

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Table 375-6: Remedial Program Soil Cleanup Objectives
NYSDEC Soil Guidance - Semi-Volatile Organic Compounds

Contaminant	CAS Number	UNRESTRICTED	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater
			Residential	Restricted-Residential	Commercial	Industrial		
Acenaphthene	83-32-9	20	100[a]	100[a]	500[b]	1,000[c]	20	98
Acenapthylene [4]	208-96-8	100 [1]	100[a]	100[a]	500[b]	1,000[c]	NS	107
Anthracene [4]	120-12-7	100 [1]	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Benz(a)anthracene [4]	56-55-3	1 [3]	1[f]	1[f]	5.6	11	NS	1[f]
Benzo(a)pyrene	50-32-8	1 [3]	1[f]	1[f]	1[f]	1.1	2.6	22
Benzo(b)fluoranthene [4]	205-99-2	1 [3]	1[f]	1[f]	5.6	11	NS	1.7
Benzo(g,h,i)perylene [4]	191-24-2	100	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Benzo(k)fluoranthene [4]	207-08-9	0.8 [3]	1	3.9	56	110	NS	1.7
Chrysene [4]	218-01-9	1 [3]	1[f]	3.9	56	110	NS	1[f]
Dibenz(a,h)anthracene [4]	53-70-3	0.33 [2]	0.33[e]	0.33[e]	0.56	1.1	NS	1,000[c]
Fluoranthene [4]	206-44-0	100 [1]	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Fluorene	86-73-7	30	100[a]	100[a]	500[b]	1,000[c]	30	386
Indeno(1,2,3-cd)pyrene [4]	193-39-5	0.5 [3]	0.5[f]	0.5[f]	5.6	11	NS	8.2
m-Cresol [4]	108-39-4	0.33 [2]	100[a]	100[a]	500[b]	1,000[c]	NS	0.33[e]
Naphthalene [4]	91-20-3	12	100[a]	100[a]	500[b]	1,000[c]	NS	12
o-Cresol [4]	95-48-7	0.33 [2]	100[a]	100[a]	500[b]	1,000[c]	NS	0.33[e]
p-Cresol [4]	106-44-5	0.33 [2]	34	100[a]	500[b]	1,000[c]	NS	0.33[e]
Pentachlorophenol	87-86-5	0.8 [2]	2.4	6.7	6.7	55	0.8[e]	0.8[e]
Phenanthrene [4]	85-01-8	100	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]
Phenol	108-95-2	0.33 [2]	100[a]	100[a]	500[b]	1,000[c]	30	0.33[e]
Pyrene[f]	129-00-0	100	100[a]	100[a]	500[b]	1,000[c]	NS	1,000[c]

All soil cleanup objectives (SCOs) are in parts per million (ppm). NS=Not specified. See Technical Support Document (TSD). Footnotes

[1] The SCOs for unrestricted use were capped at a maximum value of 100 ppm. See Technical Support Document (TSD), section 9.3.

[2] For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the Track 1 SCO value.

[3] For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 1 SCO value for this use of the site.

[4] Protection of ecological resources SCOs were not developed for contaminants identified in Table 375-6.8(b) with "NS".
Where such contaminants appear in Table 375-6.8(a), the applicant may be required by the Department to calculate a protection of ecological resources SCO according to the TSD.

[a] The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

[b] The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.

[c] The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm. See TSD section 9.3.

[d] The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.

[e] For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

[f] For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.

[g] This SCO is derived from data on mixed isomers of BHC.

[h] The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

[i] This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

[j] This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts). See TSD Table 5.6-1.

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Table 375-6: Remedial Program Soil Cleanup Objectives
NYSDEC Soil Guidance - Volatile Organic Compounds

Contaminant	CAS Number	UNRESTRICTED	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater
			Residential	Restricted-Residential	Commercial	Industrial		
1,1,1-Trichloroethane [3]	71-55-6	0.68	100[a]	100[a]	500[b]	1,000[c]	NS	0.68
1,1-Dichloroethane [3]	75-34-3	0.27	19	26	240	480	NS	0.27
1,1-Dichloroethene [3]	75-35-4	0.33	100[a]	100[a]	500[b]	1,000[c]	NS	0.33
1,2-Dichlorobenzene [3]	95-50-1	1.1	100[a]	100[a]	500[b]	1,000[c]	NS	1.1
1,2-Dichloroethane	107-06-2	0.022	2.3	3.1	30	60	10	0.02[f]
cis-1,2-Dichloroethene [3]	156-59-2	0.25	59	100[a]	500[b]	1,000[c]	NS	0.25
trans-1,2-Dichloroethene [3]	156-60-5	0.19	100[a]	100[a]	500[b]	1,000[c]	NS	0.19
1,3-Dichlorobenzene [3]	541-73-1	2.4	17	49	280	560	NS	2.4
1,4-Dichlorobenzene	106-46-7	1.8	9.8	13	130	250	20	1.8
1,4-Dioxane	123-91-1	0.1 [1]	9.8	13	130	250	0.1[e]	0.1[e]
Acetone	67-64-1	0.05	100[a]	100[b]	500[b]	1,000[c]	2.2	0.05
Benzene	71-43-2	0.06	2.9	4.8	44	89	70	0.06
Butylbenzene [3]	104-51-8	12	100[a]	100[a]	500[b]	1,000[c]	NS	12
Carbon tetrachloride [3]	56-23-5	0.76	1.4	2.4	22	44	NS	0.76
Chlorobenzene	108-90-7	1.1	100[a]	100[a]	500[b]	1,000[c]	40	1.1
Chloroform	67-66-3	0.37	10	49	350	700	12	0.37
Ethylbenzene [3]	100-41-4	1	30	41	390	780	NS	1
Hexachlorobenzene [3]	118-74-1	0.331	0.33[e]	1.2	6	12	NS	3.2
Methyl ethyl ketone	78-93-3	0.12	100[a]	100[a]	500[b]	1,000[c]	100[a]	0.12
Methyl tert-butyl ether [3]	1634-04-4	0.93	62	100[a]	500[b]	1,000[c]	NS	0.93
Methylene chloride	75-09-2	0.05	51	100[a]	500[b]	1,000[c]	12	0.05
n-Propylbenzene [3]	103-65-1	3.9	100[a]	100[a]	500[b]	1,000[c]	NS	3.9
sec-Butylbenzene [3]	135-98-8	11	100[a]	100[a]	500[b]	1,000[c]	NS	11
tert-Butylbenzene	98-06-6	5.9	100[a]	100[a]	500[b]	1,000[c]	NS	5.9
Tetrachloroethene	127-18-4	1.3	5.5	19	150	300	2	1.3
Toluene	108-88-3	0.7	100[a]	100[a]	500[b]	1,000[c]	36	0.7
Trichloroethene	79-01-6	0.47	10	21	200	400	2	0.47
1,2,4-Trimethylbenzene [3]	95-63-6	3.6	47	52	190	380	NS	3.6
1,3,5- Trimethylbenzene [3]	108-67-8	8.4	47	52	190	380	NS	8.4
Vinyl chloride [3]	75-01-4	0.02	0.21	0.9	13	27	NS	0.02
Xylene (mixed)	1330-20-7	0.26	100[a]	100[a]	500[b]	1,000[c]	0.26	1.6

All soil cleanup objectives (SCOs) are in parts per million (ppm). NS=Not specified. See Technical Support Document (TSD). Footnotes

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Where such contaminants appear in Table 375-6.8(a), the applicant may be required by the Department to calculate a protection of ecological resources SCO according to the TSD.

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[b] The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.

[c] The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm. See TSD section 9.3.

[d] The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.

[e] For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the SCO value.

[f] For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.

[g] This SCO is derived from data on mixed isomers of BHC.

[h] The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

[i] This SCO is for the sum of endosulfan I, endosulfan II, and endosulfan sulfate.

[j] This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts). See TSD Table 5.6-1.

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Table 375-6: Remedial Program Soil Cleanup Objectives
NYSDEC Soil Guidance - Metals

Contaminant	CAS Number	UNRESTRICTED	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater
			Residential	Restricted-Residential	Commercial	Industrial		
Arsenic	7440-38-2	13 [2]	16[f]	16[f]	16[f]	16[f]	13[f]	16[f]
Barium	7440-39-3	350 [2]	350[f]	400	400	10,000 [d]	433	820
Beryllium	7440-41-7	7.2	14	72	590	2,700	10	47
Cadmium	7440-43-9	2.5 [2]	2.5[f]	4.3	9.3	60	4	7.5
Chromium (hexavalent) [3]	18540-29-9	1 [1]	22	110	400	800	1[e]	19
Chromium (trivalent) [3]	16065-83-1	30 [2]	36	180	1,500	6,800	41	NS
Copper	7440-50-8	50	270	270	270	10,000 [d]	50	1,720
Total Cyanide [3, 4]	----	27	27	27	27	10,000 [d]	NS	40
Lead	7439-92-1	63 [2]	400	400	1,000	3,900	63[f]	450
Manganese	7439-96-5	1600 [2]	2,000[f]	2,000[f]	10,000 [d]	10,000 [d]	1600[f]	2,000[f]
Total Mercury	----	0.18 [2]	0.81[j]	0.81[j]	2.8[j]	5.7[j]	0.18[f]	0.73
Nickel	7440-02-0	30	140	310	310	10,000 [d]	30	130
Selenium	7782-49-2	3.9 [2]	36	180	1,500	6,800	3.9[f]	4[f]
Silver	7440-22-4	2	36	180	1,500	6,800	2	8.3
Zinc	7440-66-6	109 [2]	2200	10,000 [d]	10,000 [d]	10,000 [d]	109[f]	2,480

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[1] For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the Track 1 SCO value.

[2] For constituents where the calculated SCO was lower than the rural soil background concentration, as determined by the Department and Department of Health rural soil survey, the rural soil background concentration is used as the Track 1 SCO value for this use of the site.

[3] The SCO for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO.

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Where such contaminants appear in Table 375-6.8(a), the applicant may be required by the Department to calculate a protection of ecological resources SCO according to the TSD.

[a] The SCOs for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 ppm. See TSD section 9.3.

[b] The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.

[c] The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1000 ppm. See TSD section 9.3.

[d] The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD section 9.3.

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CP-51: Supplemental Soil Cleanup Objectives
NYSDEC DEC Policy - PCBs and Pesticides

Contaminant	CAS Number	UNRESTRICTED	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater
			Residential	Restricted-Residential	Commercial	Industrial		
Biphenyl	92-52-4						60	
Chlordecone (Kepone)	143-50-0						0.06	
Dibenzofuran	132-64-9							6.2
2,4-D (2,4-Dichloro-phenoxyacetic acid)	94-75-7	100 [a]						0.5
Furan	110-00-9						600	
Gamma Chlordane	5103-74-2	0.54						14
Heptachlor Epoxide	1024-57-3	0.077						0.02
Methoxychlor	72-43-5	100 [a]					1.2	900
Parathion	56-38-2	100 [a]						1.2
2,4,5-T	93-76-5	100 [a]						1.9
2,3,7,8-TCDD	1746-01-6						0.000001	
2,3,7,8-TCDF	51207-31-9						0.000001	

All soil cleanup objectives (SCOs) are in parts per million (ppm). NS=Not specified. See Technical Support Document (TSD). Footnotes

[a] SCOs for organic contaminants (volatile organic compounds, semivolatile organic compounds, and pesticides) are capped at 100 ppm for residential use, 500 ppm for commercial use, 1000 ppm for industrial use. SCOs for metals are capped at 10,000 ppm.

[b] Based on rural background study

[c] SCO limited by contract required quantitation limit.

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CP-51: Supplemental Soil Cleanup Objectives
NYSDEC DEC Policy - Semi-Volatile Organic Compounds

Contaminant	CAS Number	UNRESTRICTED	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater
			Residential	Restricted-Residential	Commercial	Industrial		
Aniline	62-53-3		48	100 [a]	500 [a]	1,000 [a]		0.33 [b]
Bis(2-ethylhexyl) phthalate	117-81-7		50				239	435
Benzoic Acid	65-85-0		100 [a]					2.7
Butylbenzyl- phthalate	85-68-7		100 [a]					122
4-Chloroaniline	106-47-8		100 [a]					0.22
Chloroethane	75-00-3							1.9
2-Chlorophenol	95-57-8		100 [a]				0.8	
3-Chloroaniline	108-42-9						20	
3-Chlorophenol	108-43-0						7	
Di-n-butyl-phthalate	84-74-2		100 [a]				0.014	8.1
2,4-Dichlorophenol	120-83-2		100 [a]				20	0.4
3,4-Dichlorophenol	95-77-2						20	
Diethylphthalate	84-66-2		100 [a]				100	7.1
Di-n-hexyl- phthalate	84-75-3						0.91	
2,4-Dinitrophenol	51-28-5		100 [a]				20	0.2
Dimethylphthlate	131-11-3		100 [a]				200	27
Di-n-octylphthlate	117-84-0		100 [a]					120
1,2,3,6,7,8-HCDF	57117-44-9						0.00021	
Hexachloro- benzene	118-74-1		0.41					1.4
2,6-Dinitrotoluene	606-20-2		1.03					1
Isophorone	78-59-1		100 [a]					4.4
4-methyl-2-pentanone	108-10-1							1
2-methyl- naphthalene	91-57-6		0.41					36.4
2-Nitroaniline	88-74-4							0.4
3-Nitroaniline	99-09-2							0.5
Nitrobenzene	98-95-3		3.7	15	69	140	40	0.17 [b]
2-Nitrophenol	88-75-5						7	0.3
4-Nitrophenol	100-02-7						7	0.1
Pentachloroaniline	527-20-8						100	
2,3,5,6-Tetrachloroaniline	3481-20-7						20	
2,3,4,5-Tetrachlorophenol	4901-51-3						20	
2,4,5-Trichloroaniline	636-30-6						20	
2,4,5-Trichlorophenol	95-95-4		100 [a]				4	0.1
2,4,6-Trichlorophenol	88-06-2						10	

All soil cleanup objectives (SCOs) are in parts per million (ppm). NS=Not specified. See Technical Support Document (TSD). Footnotes

[a] SCOs for organic contaminants (volatile organic compounds, semivolatile organic compounds, and pesticides) are capped at 100 ppm for residential use, 500 ppm for commercial use, 1000 ppm for industrial use. SCOs for metals are capped at 10,000 ppm.

[b] Based on rural background study

[c] SCO limited by contract required quantitation limit.

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INDEX NO. C224154-02-15

CP-51: Supplemental Soil Cleanup Objectives
NYSDEC DEC Policy - Volatile Organic Compounds

Contaminant	CAS Number	UNRESTRICTED	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater
			Residential	Restricted-Residential	Commercial	Industrial		
2-Butanone	78-93-3		100 [a]					0.3
Carbon Disulfide	75-15-0		100 [a]					2.7
Chloroacetamide	79-07-2						2	
Dibromochloromethane	124-48-1						10	
2,4-Dichloro aniline	554-00-7						100	
3,4-Dichloroaniline	95-76-1						20	
1,2-Dichloropropane	78-87-5						700	
1,3-Dichloropropane	142-28-9							0.3
2,6-Dinitrotoluene	606-20-2		1.03					0.17 [b]
Ethylacetate	141-78-6						48	
4-methyl-2-pentanone	108-10-1							1
113 Freon (1,1,2- TFE)	76-13-1		100 [a]					6
isopropylbenzene	98-82-8		100 [a]					2.3
p-isopropyltoluene	99-87-6							10
Hexachlorocyclo-pentadiene	77-47-4						10	
Methanol	67-56-1						6.5	
N-nitrosodiphenyamine	86-30-6						20	
Pentachlorobenzene	608-93-5						20	
Pentachloronitrobenzene	82-68-8						10	
Styrene	100-42-5						300	
1,2,3,4-Tetrachlorobenzene	634-66-2						10	
1,1,2,2-Tetrachloroethane	79-34-5		35					0.6
1,1,2,2-Tetrachloroethylene	127-18-4						2	
1,2,3-Trichlorobenzene	87-61-6						20	
1,2,4-Trichlorobenzene	120-82-1						20	3.4
1,2,3-Trichloropropane	96-18-4		80					0.34

All soil cleanup objectives (SCOs) are in parts per million (ppm). NS=Not specified. See Technical Support Document (TSD). Footnotes

[a] SCOs for organic contaminants (volatile organic compounds, semivolatile organic compounds, and pesticides) are capped at 100 ppm for residential use, 500 ppm for commercial use, 1000 ppm for industrial use. SCOs for metals are capped at 10,000 ppm.

[b] Based on rural background study

[c] SCO limited by contract required quantitation limit.

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CP-51: Supplemental Soil Cleanup Objectives
NYSDEC DEC Policy - Metals

Contaminant	CAS Number	UNRESTRICTED	Protection of Public Health				Protection of Ecological Resources	Protection of Groundwater
			Residential	Restricted-Residential	Commercial	Industrial		
Aluminum	7429-90-5						10,000 [a,b]	
Antimony	7440-36-0						12[c]	
Boron	7440-42-8						0.5	
Calcium	7440-70-2						10,000 [a,b]	
Cobalt	7440-48-4	30					20	
Iron	7439-89-6	2,000						
Lithium	7439-93-2						2	
Molybdenum	7439-98-7						2	
Technetium	7440-26-8						0.2	
Thallium	7440-28-0						5 [c]	
Tin	7440-31-5						50	
Uranium	7440-61-1						5	
Vanadium	7440-62-2	100 [a]					39[b]	

All soil cleanup objectives (SCOs) are in parts per million (ppm). NS=Not specified. See Technical Support Document (TSD). Footnotes

[a] SCOs for organic contaminants (volatile organic compounds, semivolatile organic compounds, and pesticides) are capped at 100 ppm for residential use, 500 ppm for commercial use, 1000 ppm for industrial use. SCOs for metals are capped at 10,000 ppm.

[b] Based on rural background study

[c] SCO limited by contract required quantitation limit.

M E M O R A N D U M

***** N O T I C E *****

This document has been developed to provide Department staff with guidance on how to ensure compliance with statutory and regulatory requirements, including case law interpretations, and to provide consistent treatment of similar situations. This document may also be used by the public to gain technical guidance and insight regarding how the department staff may analyze an issue and factors in their consideration of particular facts and circumstances. This guidance document is not a fixed rule under the State Administrative Procedure Act section 102(2)(a)(i). Furthermore, nothing set forth herein prevents staff from varying from this guidance as the specific facts and circumstances may dictate, provided staff's actions comply with applicable statutory and regulatory requirements. This document does not create any enforceable rights for the benefit of any party.

Previous Date: October 22, 1993

Reissued Date: JUNE 1998

TO: Bureau Directors, Regional Water Engineers, Section Chiefs

SUBJECT: Division of Water Technical and Operational Guidance Series (1.1.1)

AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES AND GROUNDWATER EFFLUENT LIMITATIONS

(Originator - John Zambrano/Scott Stoner)

PURPOSE

The primary purpose of this document is to provide a compilation of ambient water quality guidance values and groundwater effluent limitations for use where there are no standards (in 6 NYCRR 703.5) or regulatory effluent limitations (in 703.6). For the convenience of the reader, the standards in 703.5 and groundwater effluent limitations in 703.6 are included in this document. The values in this document (guidance and regulatory) are used in Department programs, including the SPDES permit program.

DISCUSSION

This document combines and revises the previous editions of TOGS 1.1.1 (ambient values) and 1.1.2 (groundwater effluent limitations). The main reason for the revision is to include revised and added ambient standards and effluent limitations resulting from the amendments to 6 NYCRR Parts 700 - 706, effective March 12, 1998. Ambient guidance values are also added for over 100 substances, largely based on the application of the Principal Organic Contaminant (POC) value to surface waters classified as sources of water supply.

GUIDANCE

This TOGS presents Division of Water ambient water quality standards and guidance values and groundwater effluent limitations. The authority for these values is derived from Article 17 of the Environmental Conservation Law and 6 NYCRR Parts 700-706, Water Quality Regulations.

This TOGS is divided into two Parts. Part I describes and lists ambient standards and guidance values. Part II describes and lists groundwater effluent limitations.

Although the reader may be tempted to turn immediately to the tables containing the ambient or effluent values, the following cautionary note is important: Many substances for which there are standards, guidance values and effluent limitations are not individually listed or identified in the tables, but are included as part of "group" entries such as "Principal Organic Contaminant." A careful reading of the text of Parts I and II is needed to ensure proper use of this document.

TABLE OF CONTENTS

PART I AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

Ambient water quality standards and guidance values for toxic and non-conventional pollutants are presented in Table 1. This Table includes all of the Division's numerical standards and guidance values established as of the date of this document except standards for coliforms and dissolved oxygen. The reader is referred to Part 703 for the excepted numerical standards and for the Department's narrative water quality standards.

Section A of this Part provides an explanation of ambient water quality standards and guidance values in the format of the column headings in Table 1. Section B, relying on the background of Section A, provides a procedure to help determine whether or not there is a standard or guidance value for a particular substance. Included in this section are instructions on determining the applicability of the POC general groundwater standard to specific substances. Section C provides guidance on certain aspects of development, interpretation and use of standards and guidance values.

A. EXPLANATION OF AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

Ambient water quality standards and guidance values are presented in Table 1. Table 1 includes columns for "Substance (CAS No.)," "Water Classes," "Standard," "Guidance Value," "Type" and "Basis Code." This section describes these terms. Standards and guidance values are described first to facilitate understanding.

1. Standard and Guidance Value

Standards and guidance values are ambient water quality values that are set to protect the state's waters. They both are derived according to scientific procedures that are in regulation (6 NYCRR Part 702).

A standard is a value that has been promulgated and placed into regulation. The standards for the surface water and groundwater classes are extracted from Part 703 of Title 6. Surface water and groundwater standards were last revised effective March 12, 1998.

A guidance value may be used where a standard for a substance or group of substances has not been established for a particular water class and type of value (section 702.15). All guidance values as of the date of this document are listed in Table 1 of this TOGS.

Standards and guidance values are the maximum allowable concentration in units of ug/L, unless otherwise indicated. Where standards or guidance values are expressed as a function of hardness, hardness is in units of parts per million (ppm), expressed as calcium carbonate, and the resulting value is in ug/L. Also, in such hardness functions, the term "exp" represents the base e exponential function.

"ND" means a non-detectable concentration by the approved analytical methods referenced in section 700.3.

The “general organic guidance value,” described in 702.15, is misunderstood by some. This value does not automatically apply in the absence of a standard or specific guidance value. For this value to be applied to an individual substance, the Department must determine that certain toxicological data requirements have been met. As of the date of this TOGS, the only substances for which the Division has made this determination are listed in Table 1.

2. Substance (CAS No.)

The substance or group of substances (entry) for which a standard or guidance value has been derived is presented in this column in alphabetical order. The Chemical Abstract Service Registry (CAS) Number(s) are given, where applicable, to provide positive identification. Because a substance may be known by names other than the one used in this document, identification of the CAS number can be useful for locating the substance. An index of CAS numbers is provided at the end of the document.

Group entries fit into one of three categories, as described below. For each such entry, a Remark will indicate whether the standard(s) or guidance value(s) apply to the sum of the substances or to each substance individually.

Interpretation of Group Entries

a. Where the entry consists of two or more specific substances, with or without CAS Numbers (e.g.: Aldrin and Dieldrin), the entry includes only the specific substances listed.

b. Where the entry is the name of a group of substances, with CAS numbers listed (e.g.: Dichlorotoluenes), the entry includes only those substances for which the CAS Numbers are listed.

c. Where the entry is the name of a group of substances, without CAS Numbers (e.g.: Principal organic contaminant), the entry includes all substances that belong to the group, unless otherwise noted. The specific substances in the group may not be listed in the entry or the index. A determination of the specific substances encompassed by the standard(s) or guidance value(s), therefore, may be necessary.

   The principal organic contaminant (POC) standard for groundwater is the largest and most complex of this third type of group entry. It is a general standard that applies individually to a virtually unlimited number of substances in six chemical classes. Because of the importance of this general groundwater standard, instructions for determining its applicability to specific substances are included in Section C, below.

3. Water Classes and Type

Standards and guidance values are developed for specific classes of fresh and saline surface waters and fresh groundwaters for protection of the best uses assigned to each class. Best uses are described in Part 701. Standards and guidance values are further designated as to "Type." Values for protection of sources of drinking water are designated Health (Water Source) and noted by H(WS). Similarly, values for protection of human consumers of fish are designated as Health (Fish Consumption) and noted by H(FC). Values for protection of aquatic life from chronic effects are designated Aquatic (Chronic) and noted as A(C). Values for protection of aquatic life from acute effects are designated Aquatic (Acute) and noted as A(A). Values for protection of wildlife are designated as Wildlife and noted as W. Values for protection from aesthetic considerations are designated as Aesthetic and noted as E. Designation of the Type of value determines the applicability of section 702.15, which concerns derivation of guidance values.

A summary description of best usage protections, water classes and type of values related to toxic pollutants is presented below. The groupings of Water Classes and Type presented for the summary description are those that frequently appear in Table 1. A complete description of the water classifications is provided in Part 701.

Water Classes	Type	Protection For
A, A-S, AA, AA-S	H(WS)	Source of Drinking Water (surface water)
GA	H(WS)	Source of Drinking Water (groundwater)
A, A-S, AA, AA-S, B, C, D	H(FC)	Human Consumption of Fish (fresh waters)
SA, SB, SC, I, SD	H(FC)	Human Consumption of Fish (saline waters)
A, A-S, AA, AA-S, B, C	A(C)	Fish Propagation (fresh waters)
A, A-S, AA, AA-S, B, C, D	A(A)	Fish Survival (fresh waters)
SA, SB, SC, I	A(C)	Fish Propagation (saline waters)
SA, SB, SC, I, SD	A(A)	Fish Survival (saline waters)
A, A-S, AA, AA-S, B, C, D	W	Wildlife Protection (fresh waters)
SA, SB, SC, I, SD	W	Wildlife Protection (saline waters)
A, A-S, AA, AA-S, B, C, D, GA	E	Aesthetic (fresh waters)
SA, SB, SC, I, SD	E	Aesthetic (saline waters)

For many substances, more than one Type of value will be listed for a specific water class. In these situations, all values apply and may be used to derive the most stringent limitations.

4. Basis Code

The letters in this column designate the specific procedure used to derive the standard or guidance value. The key to the letter designations is provided in Table 2.

B. HOW TO LOCATE AMBIENT STANDARD OR GUIDANCE VALUE

This section contains instructions on how to determine whether the Division has an ambient standard or guidance value for a substance. As described above, many substances with standards or guidance values are included in "group" entries but not individually identified, or are listed by a different name. Therefore, the absence of a specific entry for a substance name does not necessarily mean that there is no standard or guidance value. The procedures below should assist the user, but are not guaranteed. The user may want to contact the Division's Standards and Special Studies Section before assuming that there is no standard or guidance value for a particular substance.

1. Recommended Procedure for Determining if Standard or Guidance Value Exists

Step 1. Look up substance by name(s) in Table 1. If found, confirm identity by CAS number, if listed. If substance is not found, go to Step 2.

Step 2. Using CAS number and the CAS number index, determine the entry name and location of the substance. If CAS number is not in index, go to Step 3.

Step 3. Entries for metals and some other substances, e.g., nitrate, do not contain CAS numbers. The entry for a metal includes all forms of the metal, metallic and in compounds, unless otherwise specified. The nitrate entry includes all compounds containing nitrate. There is no entry for "sodium nitrate" for instance, but there are entries for sodium and for nitrate. Therefore, look in Table 1 for the components of a metallic or ionic compound. If not found, go to Step 4.

Step 4. Determine whether the substance is included in any of the groups listed below that has a standard or guidance value listed for the water class(es) of interest. Detailed instructions for determining the applicability of the principal organic contaminant (POC) groundwater standard are provided below.

Alkyl diphenyl oxide sulfonates
Aminomethylene phosphonic acid salts
Aryltriazoles
Boric acid, Borates and Metaborates
Chlorinated dibenzo-p-dioxins and Chlorinated dibenzofurans
Foaming agents

Gross alpha radiation
Gross beta radiation
Isothiazolones, total
Linear alkyl benzene sulfonates (LAS)
Methylbenz(a)anthracenes
Phenolic compounds (total phenols)
Phenols, total chlorinated
Phenols, total unchlorinated
Polybrominated biphenyls
Polychlorinated biphenyls
Principal organic contaminant
Quaternary ammonium compounds
Sulfides, total

2. Determination of Applicability of POC Groundwater Standard to Individual Substances

The POC standard for groundwater (Table 1) is a general standard that applies individually to an unlimited number of substances in six chemical classes. Some, but by no means all of the individual POCs are listed in Table 1. Consequently, the applicability of this standard to specific substances must be determined.

The POC standard was originally developed by the New York State Department of Health (DOH) for drinking water. The definitions of the six POC classes (6 NYCRR section 700.1 and Table 4 of this TOGS), obtained from the DOH regulations, are definitive for the first two classes, but require interpretation for the others. Furthermore, some substances that meet the definition of a particular POC class may not be regulated by the POC standard because they have a more stringent specific standard. It is, therefore, important to follow sequentially the steps below for determining the applicability of the POC groundwater standard.

It should be noted that the POC applies as a general standard only to groundwater.

The recommended procedure consists of five steps. These steps must be followed in sequential order to avoid making an incorrect determination. They include reference to three tables within this TOGS, the use of definitions for two POC classes, and how to obtain assistance.

Step 1. Check Table 1 of this TOGS. If the substance is listed in Table 1 as having either a specific groundwater standard (POC or other) or groundwater guidance value, that listed value applies and the reader should not go further. If not, go on to Step 2.

Step 2. Check Table 3 of this TOGS, which is a partial list of substances to which the POC groundwater standard does not apply. If the substance is listed in Table 3, the standard does not apply and the reader should not go further. If the substance is not in Table 3, go

on to Step 3.

Step 3. Compare the substance with the definitions of POC classes 1 and 2, below. If it meets either of these definitions, the POC groundwater standard applies and the reader should not go further. If it does not meet either definition, or if the reader is uncertain whether it does, go on to Step 4.

Definitions of POC Classes 1 and 2:

Class 1 - Halogenated alkane*: Compound containing carbon (C), hydrogen (H) and halogen (X) where X = fluorine (F), chlorine (Cl), bromide (Br) and/or iodine (I), having the general formula $C_nH_yX_z$, where $y + z = 2n + 2$; n, y and z are integer variables; n and z are equal to or greater than one and y is equal to or greater than zero.

Class 2 - Halogenated ether: Compound containing carbon (C), hydrogen (H), oxygen (O) and halogen (X) (where X = F, Cl, Br and/or I) having the general formula $C_nH_yX_zO$, where $y + z = 2n + 2$; the oxygen is bonded to two carbons; n, y and z are integer variables; n is equal to or greater than two, y is equal to or greater than zero and z is equal to or greater than one.

Step 4. Although the definitions of the remaining classes are in regulation and reproduced in Table 4, determinations beyond this point involve interpretations, including chemical comparisons with previously determined substances. The user, therefore, should contact the Standards and Special Studies Section (Scott Stoner (518-485-5824) or John Zambrano (518-457-6997)) for assistance. They will make the determination, consulting with the DOH as needed. Provision of the CAS number and structure of the substance will facilitate the determination.

*Note: This definition does not mention the specific exclusions listed in the definition in regulation (6 NYCRR 700.1 and Table 4) because those excluded substances are listed in Table 1 of this TOGS and thus covered by Step 1 of this procedure

C. DEVELOPMENT, INTERPRETATION AND USE OF AMBIENT STANDARDS AND GUIDANCE VALUES

1. Development of Standards and Guidance Values

Guidance values are developed as needed with priorities primarily reflecting greater expected or observed occurrence in the environment and greater toxicity. Most requests for development of guidance values originate through the use and

discharge information that is generated through the State Pollutant Discharge Elimination System (SPDES) permit program. Standards are proposed for rule making with similar priority considerations.

As stated previously, a guidance value may be utilized where a standard has not been adopted for a substance. Guidance values that have been developed for surface waters and groundwaters are presented in Table 1. If a substance is judged to pose a threat to the environment and if no standard or guidance value is presented in Table 1 for that substance and water class, a request for development of a guidance value should be made to the Standards and Special Studies Section.

2. Analytical Methods

Section 700.3 provides the analytical requirements to determine compliance with water quality standards and guidance values. These regulations include specific analytical references and also refer to "...other methods approved by the department..." The Division of Water maintains a compilation of methods approved by the department in a separate Technical and Operational Guidance Series (TOGS) document.

There are a number of water quality standards and guidance values for which there is no approved analytical procedure. Use of these values should be accompanied by the identification of an acceptable analytical method.

3. SPDES Effluent Limits

Ambient water quality standards and guidance values are used to derive water quality-based effluent limitations for SPDES permits. Instruction for the derivation of these limitations is provided in separate TOGS documents. There are, however, a number of topics that warrant discussion here.

a. Hydrologic Flow Base and Averaging Period

The derivation of water quality based effluent limitations from ambient water quality standards or guidance values requires selection of a receiving water flow and the specification of an averaging period for the effluent limitation. Their selection will be a function of the variability of the receiving water flow and effluent load and the time period associated with the critical adverse effect. In general, standards and guidance values that are based on adverse effects that develop over time periods greater than a month will receive effluent limitations based on the minimum average 30 consecutive day receiving water flow with a one-in-ten year occurrence (MA30CD/10) and calculated as a monthly average. Values based on shorter-term adverse effects will generally receive effluent limitations based on MA7CD/10 flow and calculated as a daily maximum. Specific determinations, however, are made at the time of permit issuance.

b. Chemical Forms

Standards and guidance values apply to all forms of the substances unless otherwise specified.

Certain ambient standards and guidance values apply to a specific toxic form rather than all forms of the substance. Changes in the form of a substance can occur in the receiving water. As a result, the form of the substance that is specified as an effluent limitation may differ from the form of the ambient standard or guidance value.

c. Groundwater Effluent Limitations

Groundwater effluent limitations are discussed in Part II of this document.

d. Total of Organic Chemicals

Subparagraph 702.16(b)(3) of the water quality regulations specifies, for the purpose of deriving effluent limitations for surface water, an ambient value of 100 ug/L for the total of organic substances having a standard or guidance value established pursuant to the human-health methodologies. The substances included in this total are all of the organic substances listed in Table 1 of this TOGS that have a H(WS) standard or guidance value less than 100 ug/L for surface water.

Table 1

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Acenaphthene	A, A-S, AA, AA-S, B, C		5.3	A(C)	
(83-32-9)	A, A-S, AA, AA-S, B, C, D		48	A(A)	
	SA, SB, SC, I		6.6	A(C)	
	SA, SB, SC, I, SD		60	A(A)	
	A, A-S, AA, AA-S	20		E	U
	GA		20	E	U
Acetone	A, A-S, AA, AA-S		50	H(WS)	Z
(67-64-1)	GA		50	H(WS)	Z
Acrolein	A, A-S, AA, AA-S		5*	H(WS)	I
(107-02-8)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Acrylamide	A, A-S, AA, AA-S		5*	H(WS)	I
(79-06-1)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Acrylic acid	A, A-S, AA, AA-S		50	H(WS)	Z
(79-10-7)	GA		50	H(WS)	Z
Acrylonitrile	A, A-S, AA, AA-S		0.07	H(WS)	A
(107-13-1)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Alachlor	A, A-S, AA, AA-S	0.5		H(WS)	A
(15972-60-8)	GA	0.5		H(WS)	A
Aldicarb	A, A-S, AA, AA-S	7		H(WS)	B
(116-06-3)	GA	*		H(WS)	
Remark: * Refer to entry for "Aldicarb and Methomyl."					
Aldicarb and Methomyl (116-06-3;16752-77-5)	GA	0.35*		H(WS)	F
Remark: * Applies to the sum of these substances.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Aldicarb sulfone	A, A-S, AA, AA-S		2*	H(WS)	G
(1646-88-4)	GA		2*	H(WS)	G
Remark: * This substance did not receive a review beyond determining the existence of a Specific MCL. A more in-depth review, currently underway, could lead to a more (but not less) stringent guidance value.					
Aldicarb sulfoxide	A, A-S, AA, AA-S		4*	H(WS)	G
(1646-87-3)	GA		4*	H(WS)	G
Remark: * This substance did not receive a review beyond determining the existence of a Specific MCL. A more in-depth review, currently underway, could lead to a more (but not less) stringent guidance value.					
Aldrin	A, A-S, AA, AA-S		0.002	H(WS)	A
(309-00-2)	GA	ND		H(WS)	F
	A, A-S, AA, AA-S, B, C, D	*		H(FC)	
	SA, SB, SC, SD	*		H(FC)	
	I		*	H(FC)	
Remark: * Refer to entry for "Aldrin and Dieldrin."					
Aldrin and Dieldrin	A, A-S, AA, AA-S, B, C, D	0.001*		H(FC)	
(309-00-2; 60-57-1)	SA, SB, SC, SD	0.001*		H(FC)	
	I		0.001*	H(FC)	
Remark: * Applies to the sum of these substances.					
Alkyl dimethyl benzyl	A, A-S, AA, AA-S		50	H(WS)	Z
ammonium chloride	GA		50	H(WS)	Z
(68391-01-5)	A, A-S, AA, AA-S, B, C	*		A(C)	
Remark: * Refer to entry for "Quaternary ammonium compounds."					
Alkyl diphenyl oxide sulfonates	A, A-S, AA, AA-S		50*	H(WS)	Z
(CAS No. Not Applicable)	GA		50*	H(WS)	Z
Remark: * Applies to each alkyl diphenyl oxide sulfonate individually.					
Allyl chloride	A, A-S, AA, AA-S		5*	H(WS)	I
(107-05-1)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Aluminum, ionic	A, A-S, AA, AA-S, B, C	100*		A(C)	
(CAS No. Not Applicable)					
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					
Ametryn	A, A-S, AA, AA-S		50	H(WS)	Z
(834-12-8)	GA	50		H(WS)	J

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
4-Aminobiphenyl	A, A-S, AA, AA-S		5*	H(WS)	I
(92-67-1)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Aminocresols	A, A-S, AA, AA-S	*		E	
(95-84-1; 2835-95-2;	GA	*		E	
2835-99-6)	A, A-S, AA, AA-S, B, C	**		E	
	D	**		E	
Remarks: * Refer to entry for "Phenolic compounds (total phenols)."					
** Refer to entry for "Phenols, total unchlorinated."					
Aminomethylene	A, A-S, AA, AA-S		50*	H(WS)	Z
phosphonic acid salts	GA		50*	H(WS)	Z
(CAS No. Not Applicable)					
Remark: * Applies to each aminomethylene phosphonic acid salt individually.					
Aminopyridines	A, A-S, AA, AA-S		1*	H(WS)	B
(462-08-8; 504-24-5;	GA		1*	H(WS)	B
504-29-0; 26445-05-6)					
Remark: * Values listed apply to sum of these substances.					
3-Aminotoluene	A, A-S, AA, AA-S		5*	H(WS)	I
(108-44-1)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4-Aminotoluene	A, A-S, AA, AA-S		5*	H(WS)	I
(106-49-0)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Ammonia and Ammonium	A, A-S, AA, AA-S	2,000*		H(WS)	H
(7664-41-7;	GA	2,000*		H(WS)	H
CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	**		A(C)	
	D	**		A(A)	

Remarks: * $NH_3 + NH_4^+$ as N.

** Un-ionized ammonia as NH_3; tables below provide the standard in ug/L at varying pH and temperature for different classes and specifications. Linear interpolation between the listed pH values and temperatures is applicable.

Classes A,A-S, AA, AA-S, B, C with the (T) or (TS) Specification

pH	0°C	5°C	10°C	15°-30°C
6.50	0.7	0.9	1.3	1.9
6.75	1.2	1.7	2.3	3.3
7.00	2.1	2.9	4.2	5.9
7.25	3.7	5.2	7.4	11
7.50	6.6	9.3	13	19
7.75	11	15	22	31
8.0-9.0	13	18	25	35

Classes A, A-S, AA, AA-S, B, C without the (T) or (TS) Specification

pH	0°C	5°C	10°C	15°C	20°-30°C
6.50	0.7	0.9	1.3	1.9	2.6
6.75	1.2	1.7	2.3	3.3	4.7
7.00	2.1	2.9	4.2	5.9	8.3
7.25	3.7	5.2	7.4	11	15
7.50	6.6	9.3	13	19	26
7.75	11	15	22	31	43
8.0-9.0	13	18	25	35	50

Class D

pH	0°C	5°C	10°C	15°C	20°C	25°-30°C
6.50	9.1	13	18	26	36	51
6.75	15	21	30	42	59	84
7.00	23	33	46	66	93	131
7.25	34	48	68	95	140	190
7.50	45	64	91	130	180	260
7.75	56	80	110	160	220	320
8.0-9.0	65	92	130	180	260	370

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

Total Ammonia (mg/L NH_3)

Classes A, A-S, AA, AA-S, B, C with the (T) or (TS) Specification

pH	0°C	5°C	10°C	15°C	20°C	25°C	30°C
6.50	2.5	2.4	2.2	2.2	1.5	1.0	.73
6.75	2.5	2.4	2.2	2.2	1.5	1.0	.73
7.00	2.5	2.4	2.2	2.2	1.5	1.0	.74
7.25	2.5	2.4	2.2	2.2	1.5	1.0	.74
7.50	2.5	2.4	2.2	2.2	1.5	1.1	.74
7.75	2.3	2.2	2.1	2.0	1.4	.99	.71
8.00	1.5	1.4	1.4	1.3	.93	.66	.47
8.25	.87	.82	.78	.76	.54	.39	.28
8.50	.49	.47	.45	.44	.32	.23	.17
8.75	.28	.27	.26	.27	.19	.15	.11
9.00	.16	.16	.16	.16	.13	.10	.08

Classes A, A-S, AA, AA-S, B, C without the (T) or (TS) Specification

pH	0°C	5°C	10°C	15°C	20°C	25°C	30°C
6.50	2.5	2.4	2.2	2.2	2.1	1.5	1.0
6.75	2.5	2.4	2.2	2.2	2.1	1.5	1.0
7.00	2.5	2.4	2.2	2.2	2.1	1.5	1.0
7.25	2.5	2.4	2.2	2.2	2.1	1.5	1.1
7.50	2.5	2.4	2.2	2.2	2.1	1.5	1.1
7.75	2.3	2.2	2.1	2.0	1.9	1.4	1.0
8.00	1.5	1.4	1.3	1.3	1.3	.93	.67
8.25	.87	.82	.78	.76	.76	.54	.40
8.50	.49	.47	.45	.44	.45	.33	.25
8.75	.28	.27	.26	.27	.27	.21	.16
9.00	.16	.16	.16	.16	.17	.14	.11

Class D

pH	0°C	5°C	10°C	15°C	20°C	25°C	30°C
6.50	35	33	31	30	29	29	20
6.75	32	30	28	27	27	26	19
7.00	28	26	25	24	23	23	16
7.25	23	22	20	20	19	19	14
7.50	17	16	16	15	15	15	10
7.75	12	11	11	11	10	10	7.3
8.00	8.0	7.5	7.1	6.9	6.8	6.8	4.9
8.25	4.5	4.2	4.1	4.0	3.9	4.0	2.9
8.50	2.6	2.4	2.3	2.3	2.3	2.4	1.8
8.75	1.4	1.4	1.3	1.4	1.4	1.5	1.1
9.00	.86	.83	.83	.86	.91	1.0	.82

This table provides total ammonia concentrations that will contain the un-ionized ammonia concentration at the level of the standard at the respective pH and temperatures based on relationships established in USEPA 1985, Ambient Water Quality Criteria for Ammonia - 1984. Office of Water, Criteria & Standards Division, Washington, D.C. 20460. EPA 440/5-85-001. January 1985. (Cited, Thurston, R.V., R.C. Russo, and K. Emerson. 1979. Aqueous ammonia equilibrium - tabulation of percent un-ionized ammonia. EPA Ecol. Res. Ser. EPA-600/3-79-091. Environmental Research Laboratory, U.S. Environmental Protection Agency, Duluth, MN: 427 p.)

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Aniline	A, A-S, AA, AA-S	5		H(WS)	I
(62-53-3)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Anthracene	A, A-S, AA, AA-S		50	H(WS)	Z
(120-12-7)	GA		50	H(WS)	Z
	A, A-S, AA, AA-S, B, C		3.8	A(C)	
	A, A-S, AA, AA-S, B, C, D		35	A(A)	
Antimony	A, A-S, AA, AA-S	3		H(WS)	B
(CAS No. Not Applicable)	GA	3		H(WS)	B
Arsenic	A, A-S, AA, AA-S	50		H(WS)	G
(CAS No. Not Applicable)	GA	25		H(WS)	F
	A, A-S, AA, AA-S, B, C	150*		A(C)	
	A, A-S, AA, AA-S, B, C, D	340*		A(A)	
	SA, SB, SC	63*		A(C)	
	I		36*	A(C)	
	SD	120*		A(A)	
Remark: * Dissolved arsenic form.					
Aryltriazoles	A, A-S, AA, AA-S		50*	H(WS)	Z
(CAS No. Not Applicable)	GA		50*	H(WS)	Z
Remark: * Applies to each aryltriazole individually.					
Asbestos	A, A-S, AA, AA-S	*		H(WS)	G
(CAS No. Not Applicable)	GA	*		H(WS)	G
Remark: * 7,000,000 fibers (longer than 10 um)/L.					
Atrazine	A, A-S, AA, AA-S		3*	H(WS)	G
(1912-24-9)	GA	7.5		H(WS)	F
Azinphosmethyl	A, A-S, AA, AA-S		0.07	H(WS)	A
(86-50-0)	GA	4.4		H(WS)	F
	A, A-S, AA, AA-S, B, C	0.005*		A(C)	
	SA, SB, SC	0.01		A(C)	
	I		0.01	A(C)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					
Azobenzene	A, A-S, AA, AA-S		0.5	H(WS)	A
(103-33-3)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Barium	A, A-S, AA, AA-S	1,000		H(WS)	G
(CAS No. Not Applicable)	GA	1,000		H(WS)	F

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Benefin (1861-40-1)	GA	35		H(WS)	F
Benz(a)anthracene (56-55-3)	A, A-S, AA, AA-S		0.002	H(WS)	A
	GA		0.002	H(WS)	A
	A, A-S, AA, AA-S, B, C		0.03	A(C)	
	A, A-S, AA, AA-S, B, C, D		0.23	A(A)	
Benzene (71-43-2)	A, A-S, AA, AA-S	1		H(WS)	A
	GA	1		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	10		H(FC)	A
	SA, SB, SC, I, SD	10		H(FC)	A
	A, A-S, AA, AA-S, B, C		210	A(C)	
	A, A-S, AA, AA-S, B, C, D		760	A(A)	
	SA, SB, SC, I		190	A(C)	
	SA, SB, SC, I,SD		670	A(A)	
Benzidine (92-87-5)	A, A-S, AA, AA-S		0.02	H(WS)	A
	GA	*		H(WS)	J
	A, A-S, AA, AA-S, B, C	0.1**		A(C)	
	D	0.1**		A(A)	

Remarks: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.

** For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c) and (d).

Benzisothiazole (271-61-4)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA		50	H(WS)	Z
Benzo(b)fluoranthene (205-99-2)	A, A-S, AA, AA-S		0.002	H(WS)	A
	GA		0.002	H(WS)	A
Benzo(k)fluoranthene (207-08-9)	A, A-S, AA, AA-S		0.002	H(WS)	A
	GA		0.002	H(WS)	A
Benzo(a)pyrene (50-32-8)	A, A-S, AA, AA-S		0.002	H(WS)	A
	GA	ND		H(WS)	F
	A, A-S, AA, AA-S, B, C, D		0.0012	H(FC)	
	SA, SB, SC, I, SD		6×10^{-4}	H(FC)	
Beryllium (CAS No. Not Applicable)	A, A-S, AA, AA-S		3	H(WS)	B
	GA		3	H(WS)	B
	A, A-S, AA, AA-S, B, C	*		A(C)	

Remarks: * 11 ug/L, when hardness is less than or equal to 75 ppm; 1,100 ug/L when hardness is greater than 75 ppm.

* For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).
Aquatic Type standards apply to acid-soluble form.

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
1,1'-Biphenyl	A, A-S, AA, AA-S		5*	H(WS)	I
(92-52-4)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Bis(2-chloroethoxy)methane	A, A-S, AA, AA-S		5*	H(WS)	I
(111-91-1)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Bis(2-chloroethyl)ether	A, A-S, AA, AA-S		0.03	H(WS)	A
(111-44-4)	GA	1.0		H(WS)	F
Bis(chloromethyl)ether	A, A-S, AA, AA-S		5*	H(WS)	I
(542-88-1)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Bis(2-chloro-1-methylethyl)ether	A, A-S, AA, AA-S		5*	H(WS)	I
(108-60-1)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Bis(2-ethylhexyl)phthalate	A, A-S, AA, AA-S	5		H(WS)	A
(117-81-7)	GA	5		H(WS)	A
	A, A-S, AA, AA-S, B, C	0.6		A(C)	
Boric acid, Borates & Metaborates	A, A-S, AA, AA-S		125*	H(WS)	B
(CAS No. Not Applicable)	GA		125*	H(WS)	B
Remarks: * Applies as boron equivalents. Values listed apply to the sum of these substances.					
Boron	GA	1,000		H(WS)	H
(CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	10,000*		A(C)	
	SA, SB, SC	1,000		A(C)	
	I		1,000	A(C)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic standard if so determined under 702.15 (c). Aquatic Type standards and guidance value apply to acid-soluble form.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Bromacil (314-40-9)	GA	4.4		H(WS)	F
Bromide (CAS No. Not Applicable)	A, A-S, AA, AA-S		2,000	H(WS)	B
	GA		2,000	H(WS)	B
Bromobenzene (108-86-1)	A, A-S, AA, AA-S		5*	H(WS)	I
	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Bromochloromethane (74-97-5)	A, A-S, AA, AA-S	5		H(WS)	I
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Bromodichloromethane (75-27-4)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA		50	H(WS)	Z
Bromoform (75-25-2)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA		50	H(WS)	Z
Bromomethane (74-83-9)	A, A-S, AA, AA-S	5		H(WS)	I
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Butachlor (23184-66-9)	GA	3.5		H(WS)	F
cis-2-Butenal (15798-64-8)	A, A-S, AA, AA-S		5*	H(WS)	I
	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
trans-2-Butenal (123-73-9)	A, A-S, AA, AA-S		5*	H(WS)	I
	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
cis-2-Butenenitrile	A, A-S, AA, AA-S		5*	H(WS)	I
(1190-76-7)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
trans-2-Butenenitrile	A, A-S, AA, AA-S		5*	H(WS)	I
(627-26-9)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Butoxyethoxyethanol	A, A-S, AA, AA-S		50	H(WS)	Z
(112-34-5)	GA		50	H(WS)	Z
Butoxypropanol	A, A-S, AA, AA-S		50	H(WS)	Z
(5131-66-8)	GA		50	H(WS)	Z
Butylate	A, A-S, AA, AA-S		50	H(WS)	Z
(2008-41-5)	GA	50		H(WS)	J
n-Butylbenzene	A, A-S, AA, AA-S	5		H(WS)	I
(104-51-8)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
sec-Butylbenzene	A, A-S, AA, AA-S	5		H(WS)	I
(135-98-8)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
tert-Butylbenzene	A, A-S, AA, AA-S	5		H(WS)	I
(98-06-6)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Butyl benzyl phthalate	A, A-S, AA, AA-S		50	H(WS)	Z
(85-68-7)	GA		50	H(WS)	Z
Butyl isopropyl phthalate	A, A-S, AA, AA-S		50	H(WS)	Z
(CAS No. Not Applicable)	GA		50	H(WS)	Z

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Cadmium	A, A-S, AA, AA-S	5		H(WS)	B,G
(CAS No. Not Applicable)	GA	5		H(WS)	B,G
	SA, SB, SC, I, SD		2.7	H(FC)	
	A, A-S, AA, AA-S, B, C	*		A(C)	
	A, A-S, AA, AA-S, B, C, D	**		A(A)	
	SA, SB, SC, I	7.7		A(C)	
	SD	21		A(A)	
Remarks: * (0.85) exp(0.7852 [ln (ppm hardness)] - 2.715)					
** (0.85) exp(1.128 [ln (ppm hardness)] - 3.6867)					
Aquatic Type standards apply to dissolved form.					
Captan	GA	18		H(WS)	F
(133-06-2)					
Carbaryl	GA	29		H(WS)	F
(63-25-2)					
Carbofuran	A, A-S, AA, AA-S	15		H(WS)	B
(1563-66-2)	GA		15	H(WS)	B
	A, A-S, AA, AA-S, B, C	1.0*		A(C)	
	D	10*		A(A)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c) and (d).					
Carbon tetrachloride	A, A-S, AA, AA-S		0.4	H(WS)	A
(56-23-5)	GA	5		H(WS)	F
Carboxin	A, A-S, AA, AA-S		50	H(WS)	Z
(5234-68-4)	GA	50		H(WS)	J
Chloramben	A, A-S, AA, AA-S		50*	H(WS)	Z
(CAS No. Not Applicable)	GA	50*		H(WS)	J
Remark: * Includes: related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.					
Chloranil	A, A-S, AA, AA-S		5*	H(WS)	I
(118-75-2)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Chlordane	A, A-S, AA, AA-S	0.05		H(WS)	A
(57-74-9)	GA	0.05		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	2×10^{-5}		H(FC)	A
	SA, SB, SC, I, SD	2×10^{-5}		H(FC)	A
Chloride	A, A-S, AA, AA-S	250,000		H(WS)	H
(CAS No. Not Applicable)	GA	250,000		H(WS)	H

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Chlorinated dibenzo-p-dioxins and Chlorinated dibenzofurans (CAS No. Not Applicable)	A, A-S, AA, AA-S	7×10^{-7}*		H(WS)	A
	GA	7×10^{-7}*		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	6×10^{-10}*		H(FC)	A
	SA, SB, SC, I, SD	6×10^{-10}*		H(FC)	A
	A, A-S, AA, AA-S, B, C, D	3.1×10^{-9}**		W	
	SA, SB, SC, I, SD	3.1×10^{-9}**		W	

Remarks: * Value is for the total of the chlorinated dibenzo-p-dioxins and chlorinated dibenzofurans that are listed in the table below as equivalents of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD).

The 2,3,7,8-TCDD equivalent for a congener for the H(WS) standards is obtained by multiplying the concentration of that congener by its Toxicity Equivalency Factor (TEF) from the table below. The 2,3,7,8-TCDD equivalent for a congener for the H(FC) standards is obtained by multiplying the concentration of that congener by its TEF and its Bioaccumulation Equivalency Factor (BEF) from the table below.

** Applies only to 2,3,7,8-TCDD

CONGENER	TEF	BEF
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1	1
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	0.9
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.1	0.3
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.1	0.1
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.1	0.1
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.01	0.05
Octachlorodibenzo-p-dioxin	0.001	0.01
2,3,7,8-Tetrachlorodibenzofuran	0.1	0.8
1,2,3,7,8-Pentachlorodibenzofuran	0.05	0.2
2,3,4,7,8-Pentachlorodibenzofuran	0.5	1.6
1,2,3,4,7,8-Hexachlorodibenzofuran	0.1	0.08
1,2,3,6,7,8-Hexachlorodibenzofuran	0.1	0.2
2,3,4,6,7,8-Hexachlorodibenzofuran	0.1	0.7
1,2,3,7,8,9-Hexachlorodibenzofuran	0.1	0.6
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.01	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.01	0.4
Octachlorodibenzofuran	0.001	0.02

Chlorine, Total Residual (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	5		A(C)	
	D	19		A(A)	
	SA, SB, SC, I	7.5		A(C)	
	SD	13		A(A)	
2-Chloroaniline (95-51-2)	A, A-S, AA, AA-S		5*	H(WS)	I
	GA	**		H(WS)	J

Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.

** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
3-Chloroaniline	A, A-S, AA, AA-S		5*	H(WS)	I
(108-42-9)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4-Chloroaniline	A, A-S, AA, AA-S		5*	H(WS)	I
(106-47-8)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Chlorobenzene	A, A-S, AA, AA-S	5		H(WS)	I
(108-90-7)	GA	*		H(WS)	J
	A, A-S, AA, AA-S, B, C, D	400		H(FC)	B
	SA,SB, SC, I, SD	400		H(FC)	B
	A, A-S, AA, AA-S, B, C	5		A(C)	
	SA, SB, SC, I		5	A(C)	
	A, A-S, AA, AA-S	20		E	U
	D	50		E	V
	SD		50	E	V
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4-Chlorobenzotrifluoride	A, A-S, AA, AA-S	5		H(WS)	I
(98-56-6)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1-Chlorobutane	A, A-S, AA, AA-S		5*	H(WS)	I
(109-69-3)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Chloroethane	A, A-S, AA, AA-S		5*	H(WS)	I
(75-00-3)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Chloroform	A, A-S, AA, AA-S	7		H(WS)	A
(67-66-3)	GA	7		H(WS)	A

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Chloromethyl methyl ether	A, A-S, AA, AA-S		5*	H(WS)	I
(107-30-2)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2-Chloronaphthalene	A, A-S, AA, AA-S	10		E	U
(91-58-7)	GA		10	E	U
2-Chloronitrobenzene	A, A-S, AA, AA-S		5*	H(WS)	I
(88-73-3)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3-Chloronitrobenzene	A, A-S, AA, AA-S		5*	H(WS)	I
(121-73-3)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4-Chloronitrobenzene	A, A-S, AA, AA-S		5*	H(WS)	I
(100-00-5)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Chloroprene	A, A-S, AA, AA-S		5*	H(WS)	I
(126-99-8)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Chlorothalonil	A, A-S, AA, AA-S		5*	H(WS)	I
(1897-45-6)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
2-Chlorotoluene	A, A-S, AA, AA-S	5		H(WS)	I
(95-49-8)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3-Chlorotoluene	A, A-S, AA, AA-S	5		H(WS)	I
(108-41-8)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4-Chlorotoluene	A, A-S, AA, AA-S	5		H(WS)	I
(106-43-4)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4-Chloro-o-toluidine	A, A-S, AA, AA-S		5*	H(WS)	I
(95-69-2)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
5-Chloro-o-toluidine	A, A-S, AA, AA-S		0.7	H(WS)	A
(95-79-4)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3-Chloro-1,1,1-trifluoropropane	A, A-S, AA, AA-S	5		H(WS)	I
(460-35-5)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Chromium	A, A-S, AA, AA-S	50		H(WS)	G
(CAS No. Not Applicable)	GA	50		H(WS)	G
	A, A-S, AA, AA-S, B, C	*		A(C)	
	A, A-S, AA, AA-S, B, C, D	**		A(A)	
Remarks: * (0.86) exp(0.819 [ln (ppm hardness)] + 0.6848) ** (0.316) exp(0.819 [ln (ppm hardness)] + 3.7256) Aquatic Type standards apply to dissolved form and do not include hexavalent chromium.					
Chromium (hexavalent)	GA	50		H(WS)	F
(CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	11*		A(C)	
	A, A-S, AA, AA-S, B, C, D	16*		A(A)	
	SA, SB, SC	54**		A(C)	
	I		50**	A(C)	
	SD	1,200**		A(A)	
Remarks: * Applies to dissolved form. ** Applies to acid-soluble form.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Chrysene	A, A-S, AA, AA-S		0.002	H(WS)	A
(218-01-9)	GA		0.002	H(WS)	A
Cobalt	A, A-S, AA, AA-S, B, C	5*		A(C)	
(CAS No. Not Applicable)	D		110	A(A)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c). Aquatic Type standards and guidance value apply to acid-soluble form.					
Copper	A, A-S, AA, AA-S	200		H(WS)	H
(CAS No. Not Applicable)	GA	200		H(WS)	H
	A, A-S, AA, AA-S, B, C	*		A(C)	
	A, A-S, AA, AA-S, B, C, D	**		A(A)	
	SA, SB, SC, I	***		A(C)	
	SA, SB, SC, I, SD	****		A(A)	
Remarks: * (0.96) exp(0.8545 [ln (ppm hardness)] - 1.702) ** (0.96) exp(0.9422 [ln (ppm hardness)] - 1.7) *** Standard is 3.4 ug/L except in New York/New Jersey Harbor where it is 5.6 ug/L. **** Standard is 4.8 ug/L except in New York/New Jersey Harbor where it is 7.9 ug/L. Aquatic Type standards apply to dissolved form.					
Cyanide	A, A-S, AA, AA-S	200		H(WS)	H
(CAS No. Not Applicable)	GA	200		H(WS)	H
	A, A-S, AA-S, B, C, D	9,000		H(FC)	B
	SA, SB, SC, I, SD	9,000		H(FC)	B
	A, A-S, AA, AA-S, B, C	5.2*		A(C)	
	A, A-S, AA, AA-S, B, C, D	22*		A(A)	
	SA, SB, SC	1.0*		A(C)	
	I		1.0*	A(C)	
	SD	1.0*		A(A)	
Remark: * As free cyanide: the sum of HCN and CN^- expressed as CN.					
Cyanogen bromide	A, A-S, AA, AA-S		5*	H(WS)	I
(506-68-3)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Cyanogen chloride	A, A-S, AA, AA-S		5*	H(WS)	I
(506-77-4)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Dalapon	A, A-S, AA, AA-S		50*	H(WS)	Z
(CAS No. Not Applicable)	GA	50*		H(WS)	J
Remark: * Includes: related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.					
p,p'-DDD	A, A-S, AA, AA-S	0.3		H(WS)	A
(72-54-8)	GA	0.3		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	8×10^{-5}		H(FC)	A
	SA, SB, SC, I, SD	8×10^{-5}		H(FC)	A
	A, A-S, AA, AA-S, B, C, D	*		W	
	SA, SB, SC, I, SD	*		W	
Remark: * Refer to entry for "p,p'-DDT."					
p,p'-DDE	A, A-S, AA, AA-S	0.2		H(WS)	A
(72-55-9)	GA	0.2		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	7×10^{-6}		H(FC)	A
	SA, SB, SC, I, SD	7×10^{-6}		H(FC)	A
	A, A-S, AA, AA-S, B, C, D	*		W	
	SA, SB, SC, I, SD	*		W	
Remark: * Refer to entry for "p,p'-DDT."					
p,p'-DDT	A, A-S, AA, AA-S	0.2		H(WS)	A
(50-29-3)	GA	0.2		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	1×10^{-5}		H(FC)	A
	SA, SB, SC, I, SD	1×10^{-5}		H(FC)	A
	A, A-S, AA, AA-S, B, C, D	1.1×10^{-5}*		W	
	SA, SB, SC, I, SD	1.1×10^{-5}*		W	
Remark: * Applies to the sum of p,p'-DDD, p,p'-DDE and p,p'-DDT					
Dechlorane Plus	A, A-S, AA, AA-S	5		H(WS)	I
(13560-89-9)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Demeton	A, A-S, AA, AA-S, B, C	0.1*		A(C)	
(8065-48-3; 298-03-3; 126-75-0)	SA, SB, SC	0.1		A(C)	
	I		0.1	A(C)	
Remark: * Standards and guidance value apply to the sum of these substances. For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					
Diazinon	GA	0.7		H(WS)	F
(333-41-5)	A, A-S, AA, AA-S, B, C	0.08*		A(C)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
1,2-Dibromobenzene	A, A-S, AA, AA-S	5		H(WS)	I
(583-53-9)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,3-Dibromobenzene	A, A-S, AA, AA-S	5		H(WS)	I
(108-36-1)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,4-Dibromobenzene	A, A-S, AA, AA-S	5		H(WS)	I
(106-37-6)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Dibromochloromethane	A, A-S, AA, AA-S		50	H(WS)	Z
(124-48-1)	GA		50	H(WS)	Z
1,2-Dibromo-3-chloropropane	A, A-S, AA, AA-S	0.04		H(WS)	A
(96-12-8)	GA	0.04		H(WS)	A
Dibromodichloromethane	A, A-S, AA, AA-S	5		H(WS)	I
(594-18-3)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Dibromomethane	A, A-S, AA, AA-S		5*	H(WS)	I
(74-95-3)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,2-Dibromo-3-nitrilopropionamide	A, A-S, AA, AA-S		50*	H(WS)	Z
and Dibromoacetonitrile	GA		50*	H(WS)	Z
(10222-01-2; 3252-43-5)	A, A-S, AA, AA-S, B, C		20	A(C)	
	D		50	A(A)	
Remarks: Values listed apply to the sum of these substances, except as noted below. * Applies to 2,2-dibromo-3-nitrilopropionamide only.					
Di-n-butyl phthalate	A, A-S, AA, AA-S		50	H(WS)	Z
(84-74-2)	GA	50		H(WS)	J
Dicamba	GA	0.44		H(WS)	F
(1918-00-9)					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Dichlorobenzenes	A, A-S, AA, AA-S	3*		H(WS)	A
(95-50-1;541-73-1;106-46-7)	GA	3*		H(WS)	A
	A, A-S, AA, AA-S, B, C	5**		A(C)	
	SA, SB, SC, I		5**	A(C)	
	A, A-S, AA, AA-S	20***/30****		E	U
	D	50**		E	V
	SD		50**	E	V
Remarks: * Applies to each isomer (1,2-,1,3- and 1,4-dichlorobenzene) individually. ** Applies to the sum of 1,2-, 1,3- and 1,4-dichlorobenzene *** Applies to 1,3-dichlorobenzene only. **** Applies to 1,4-dichlorobenzene only. For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					
3,3'-Dichlorobenzidine	A, A-S, AA, AA-S		5*	H(WS)	I
(91-94-1)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3,4-Dichlorobenzotrifluoride	A, A-S, AA, AA-S	5		H(WS)	I
(328-84-7)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
cis-1,4-Dichloro-2-butene	A, A-S, AA, AA-S		5*	H(WS)	I
(1476-11-5)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
trans-1,4-Dichloro-2-butene	A, A-S, AA, AA-S		5*	H(WS)	I
(110-57-6)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Dichlorodifluoromethane	A, A-S, AA, AA-S		5*	H(WS)	I
(75-71-8)	GA	**		H(WS)	J
Remark: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
1,1-Dichloroethane	A, A-S, AA, AA-S	5		H(WS)	I
(75-34-3)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,2-Dichloroethane	A, A-S, AA, AA-S	0.6		H(WS)	A
(107-06-2)	GA	0.6		H(WS)	A
1,1-Dichloroethene	A, A-S, AA, AA-S		0.7	H(WS)	A
(75-35-4)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
cis-1,2-Dichloroethene	A, A-S, AA, AA-S	5		H(WS)	I
(156-59-2)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
trans-1,2-Dichloroethene	A, A-S, AA, AA-S	5		H(WS)	I
(156-60-5)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Dichlorofluoromethane	A, A-S, AA, AA-S	5		H(WS)	I
(75-43-4)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,4-Dichlorophenol	A, A-S, AA, AA-S		5*****	H(WS)	I
(120-83-2)	GA	****		H(WS)	J
	A, A-S, AA, AA-S	0.3*		E	U
	GA	**		E	
	A, A-S, AA, AA-S, B, C, D	***		E	
Remarks: * Also see entry for "Phenolic compounds (total phenols)."					
** Refer to entry for "Phenolic compounds (total phenols)."					
*** Refer to entry for "Phenols, total chlorinated."					
**** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
***** This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
2,4-Dichlorophenoxyacetic acid	A, A-S, AA, AA-S	50		H(WS)	G
(94-75-7)	GA	50		H(WS)	G
1,1-Dichloropropane	A, A-S, AA, AA-S	5		H(WS)	I
(78-99-9)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
1,2-Dichloropropane	A, A-S, AA, AA-S	1		H(WS)	A
(78-87-5)	GA	1		H(WS)	A
1,3-Dichloropropane	A, A-S, AA, AA-S	5		H(WS)	I
(142-28-9)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,2-Dichloropropane	A, A-S, AA, AA-S	5		H(WS)	I
(594-20-7)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,1-Dichloropropene	A, A-S, AA, AA-S		5*	H(WS)	I
(563-58-6)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,3-Dichloropropene	A, A-S, AA, AA-S	0.4*		H(WS)	A
(542-75-6)	GA	0.4*		H(WS)	A
Remark: * Applies to the sum of cis- and trans-1,3-dichloropropene, CAS Nos. 10061-01-5 and 10061-02-6, respectively.					
2,3-Dichlorotoluene	A, A-S, AA, AA-S	5		H(WS)	I
(32768-54-0)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,4-Dichlorotoluene	A, A-S, AA, AA-S	5		H(WS)	I
(95-73-8)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,5-Dichlorotoluene	A, A-S, AA, AA-S	5		H(WS)	I
(19398-61-9)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,6-Dichlorotoluene	A, A-S, AA, AA-S	5		H(WS)	I
(118-69-4)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
3,4-Dichlorotoluene	A, A-S, AA, AA-S	5		H(WS)	I
(95-75-0)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3,5-Dichlorotoluene	A, A-S, AA, AA-S	5		H(WS)	I
(25186-47-4)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Dieldrin	A, A-S, AA, AA-S	0.004		H(WS)	A
(60-57-1)	GA	0.004		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	6×10^{-7}		H(FC)	A
	SA, SB, SC, I, SD	6×10^{-7}		H(FC)	A
	A, A-S, AA, AA-S, B, C	0.056		A(C)	
	A, A-S, AA, AA-S, B, C, D	0.24		A(A)	
Di(2-ethylhexyl)adipate	A, A-S, AA, AA-S	20		H(WS)	A
(103-23-1)	GA	20		H(WS)	A
Diethyl phthalate	A, A-S, AA, AA-S		50	H(WS)	Z
(84-66-2)	GA		50	H(WS)	Z
1,2-Difluoro-1,1,2,2-	A, A-S, AA, AA-S		5*	H(WS)	I
tetrachloroethane	GA	**		H(WS)	J
(76-12-0)					
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,2-Diisopropylbenzene	A, A-S, AA, AA-S		5*	H(WS)	I
(577-55-9)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,3-Diisopropylbenzene	A, A-S, AA, AA-S		5*	H(WS)	I
(99-62-7)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
1,4-Diisopropylbenzene	A, A-S, AA, AA-S		5*	H(WS)	I
(100-18-5)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
N,N-Dimethylaniline	A, A-S, AA, AA-S	1		H(WS)	A
(121-69-7)	GA	1		H(WS)	A
2,3-Dimethylaniline	A, A-S, AA, AA-S		5*	H(WS)	I
(87-59-2)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,4-Dimethylaniline	A, A-S, AA, AA-S		5*	H(WS)	I
(95-68-1)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,5-Dimethylaniline	A, A-S, AA, AA-S		5*	H(WS)	I
(95-78-3)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,6-Dimethylaniline	A, A-S, AA, AA-S		5*	H(WS)	I
(87-62-7)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3,4-Dimethylaniline	A, A-S, AA, AA-S		5*	H(WS)	I
(95-64-7)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
3,5-Dimethylaniline	A, A-S, AA, AA-S		5*	H(WS)	I
(108-69-0)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3,3'-Dimethylbenzidine	A, A-S, AA, AA-S		5*	H(WS)	I
(119-93-7)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4,4'-Dimethylbibenzyl	A, A-S, AA, AA-S		5*	H(WS)	I
(538-39-6)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4,4'-Dimethyldiphenylmethane	A, A-S, AA, AA-S		5*	H(WS)	I
(4957-14-6)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Dimethylformamide	A, A-S, AA, AA-S		50	H(WS)	Z
(68-12-2)	GA		50	H(WS)	Z
alpha, alpha-Dimethyl	A, A-S, AA, AA-S		5*	H(WS)	I
phenethylamine	GA	**		H(WS)	J
(122-09-8)					
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,4-Dimethylphenol	A, A-S, AA, AA-S		50	H(WS)	Z
(105-67-9)	GA		50	H(WS)	Z
	A, A-S, AA, AA-S, B, C, D	1,000		H(FC)	B
	SA, SB, SC, I, SD	1,000		H(FC)	B
	A, A-S, AA, AA-S	*		E	
	GA	*		E	
	B, C, D	**		E	
Remarks: * Refer to entry for “Phenolic compounds (total phenols).” ** Refer to entry for “Phenols, total unchlorinated.”					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Dimethyl phthalate	A, A-S, AA, AA-S		50	H(WS)	Z
(131-11-3)	GA		50	H(WS)	Z
Dimethyl tetrachloroterephthalate	A, A-S, AA, AA-S		50	H(WS)	Z
(1861-32-1)	GA	50		H(WS)	J
1,3-Dinitrobenzene	A, A-S, AA, AA-S		5*	H(WS)	I
(99-65-0)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,4-Dinitrophenol	A, A-S, AA, AA-S		10	H(WS)	B
(51-28-5)	GA		10	H(WS)	B
	A, A-S, AA, AA-S, B, C, D	400		H(FC)	B
	SA, SB, SC, I, SD	400		H(FC)	B
	A, A-S, AA, AA-S	*		E	
	GA	*		E	
	B, C, D	**		E	
Remarks: * Refer to entry for “Phenolic compounds (total phenols).”					
** Refer to entry for “Phenols, total unchlorinated.”					
2,3-Dinitrotoluene	A, A-S, AA, AA-S		5*	H(WS)	I
(602-01-7)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,4-Dinitrotoluene	A, A-S, AA, AA-S		5*	H(WS)	I
(121-14-2)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,5-Dinitrotoluene	A, A-S, AA, AA-S		5*	H(WS)	I
(619-15-8)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,6-Dinitrotoluene	A, A-S, AA, AA-S		0.07	H(WS)	A
(606-20-2)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
3,4-Dinitrotoluene	A, A-S, AA, AA-S		5*	H(WS)	I
(610-39-9)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3,5-Dinitrotoluene	A, A-S, AA, AA-S		5*	H(WS)	I
(618-85-9)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Di-n-octyl phthalate	A, A-S, AA, AA-S		50	H(WS)	Z
(117-84-0)	GA		50	H(WS)	Z
Dinoseb	A, A-S, AA, AA-S	*		E	
(88-85-7)	GA	*		E	
	B, C, D	**		E	
Remarks: * Refer to entry for “Phenolic compounds (total phenols).” ** Refer to entry for “Phenols, total unchlorinated.”					
Diphenamid	A, A-S, AA, AA-S		50	H(WS)	Z
(957-51-7)	GA	50		H(WS)	J
Diphenylamine	A, A-S, AA, AA-S		5*	H(WS)	I
(122-39-4)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Diphenylhydrazines	A, A-S, AA, AA-S		0.05*	H(WS)	A
(122-66-7; 530-50-7)	GA	ND**		H(WS)	F
Remarks: * Applies to 1,2-diphenylhydrazine (CAS No. 122-66-7) only. ** Applies to the sum of 1,1- and 1,2-diphenylhydrazine (CAS Nos. 530-50-7 and 122-66-7, respectively).					
Diquat	A, A-S, AA, AA-S	20*		H(WS)	B
(2764-72-9)	GA	20*		H(WS)	B
Remark: * Applies to the concentration of diquat ion whether free or as an undissociated salt.					
Disulfoton	GA	*		H(WS)	
(298-04-4)					
Remark: * Refer to entry for "Phorate and Disulfoton."					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Dodecylguanidine acetate and	A, A-S, AA, AA-S		50*	H(WS)	B
Dodecylguanidine hydrochloride	GA		50*	H(WS)	B
(2439-10-3; 13590-97-1)					
Remark: * Applies to sum of these substances.					
Dyphylline	A, A-S, AA, AA-S	50		H(WS)	B
(479-18-5)	GA		50	H(WS)	B
Endosulfan	A, A-S, AA, AA-S, B, C	0.009		A(C)	
(115-29-7)	D	0.22*		A(A)	
	SA, SB, SC	0.001		A(C)	
	I		0.001	A(C)	
	SD	0.034		A(A)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (d).					
Endothall	A, A-S, AA, AA-S		50	H(WS)	Z
(145-73-3)	GA		50	H(WS)	Z
Endrin	A, A-S, AA, AA-S	0.2		H(WS)	G
(72-20-8)	GA	ND		H(WS)	F
	A, A-S, AA, AA-S, B, C, D	0.002		H(FC)	
	SA, SB, SC, SD	0.002		H(FC)	
	I		0.002	H(FC)	
	A, A-S, AA, AA-S, B, C	0.036		A(C)	
	A, A-S, AA, AA-S, B, C, D	0.086		A(A)	
Endrin aldehyde	A, A-S, AA, AA-S		5*	H(WS)	I
(7421-93-4)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Endrin ketone	A, A-S, AA, AA-S		5*	H(WS)	I
(53494-70-5)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Ethylbenzene	A, A-S, AA, AA-S	5		H(WS)	I
(100-41-4)	GA	*		H(WS)	J
	A, A-S, AA, AA-S, B, C		17	A(C)	
	A, A-S, AA, AA-S, B, C, D		150	A(A)	
	SA, SB, SC, I		4.5	A(C)	
	SA, SB, SC, I, SD		41	A(A)	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Ethylene chlorohydrin	A, A-S, AA, AA-S		50	H(WS)	Z
(107-07-3)	GA		50	H(WS)	Z
Ethylene dibromide	A, A-S, AA, AA-S	6×10^{-4}		H(WS)	A
(106-93-4)	GA	6×10^{-4}		H(WS)	A
Ethylene glycol	A, A-S, AA, AA-S		50	H(WS)	Z
(107-21-1)	GA		50	H(WS)	Z
	A, A-S, AA, AA-S, B, C		500,000	A(C)	
	D		1,000,000	A(A)	
Ethylene oxide	A, A-S, AA, AA-S		0.05	H(WS)	A
(75-21-8)	GA		0.05	H(WS)	A
Ethylenethiourea	GA	ND		H(WS)	F
(96-45-7)					
Ferbam	GA	4.2		H(WS)	F
(14484-64-1)					
Fluometuron	A, A-S, AA, AA-S		50	H(WS)	Z
(2164-17-2)	GA	50		H(WS)	J
Fluoranthene	A, A-S, AA, AA-S		50	H(WS)	Z
(206-44-0)	GA		50	H(WS)	Z
Fluorene	A, A-S, AA, AA-S		50	H(WS)	Z
(86-73-7)	GA		50	H(WS)	Z
	A, A-S, AA, AA-S, B, C		0.54	A(C)	
	A, A-S, AA, AA-S, B, C, D		4.8	A(A)	
	SA, SB, SC, I		2.5	A(C)	
	SA, SB, SC, I, SD		23	A(A)	
Fluoride	A, A-S, AA, AA-S	1,500		H(WS)	H
(CAS No. Not Applicable)	GA	1,500		H(WS)	F
	A, A-S, AA, AA-S, B, C	*		A(C)	
	D	**		A(A)	
Remarks: * (0.02) exp(0.907 [ln (ppm hardness)] + 7.394)					
** (0.1) exp(0.907 [ln (ppm hardness)] + 7.394)					
For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c) and (d).					
Foaming agents	GA	500*		E	U
(CAS No. Not Applicable)					
Remark: * Determined as methylene blue active substances (MBAS) or by other tests as specified by the Commissioner.					
Folpet	GA	50		H(WS)	J
(133-07-3)					
Glyphosate	A, A-S, AA, AA-S		50	H(WS)	Z
(1071-83-6)	GA		50	H(WS)	Z

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Gross alpha radiation	A, A-S, AA, AA-S	*		H(WS)	G
(CAS No. Not Applicable)	GA	*		H(WS)	G
Remark: * 15 picocuries per liter, excluding radon and uranium.					
Gross beta radiation	A, AA	*		H(WS)	H
(CAS No. Not Applicable)	A-S, AA-S		*	H(WS)	H
	GA	*		H(WS)	H
Remark: * 1,000 picocuries per liter, excluding strontium-90 and alpha emitters.					
Guaifenesin	A, A-S, AA, AA-S		50	H(WS)	Z
(93-14-1)	GA		50	H(WS)	Z
Heptachlor	A, A-S, AA, AA-S	0.04		H(WS)	A
(76-44-8)	GA	0.04		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	2×10^{-4}		H(FC)	A
	SA, SB, SC, I, SD	2×10^{-4}		H(FC)	A
Heptachlor epoxide	A, A-S, AA, AA-S	0.03		H(WS)	A
(1024-57-3)	GA	0.03		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	3×10^{-4}		H(FC)	A
	SA, SB, SC, I, SD	3×10^{-4}		H(FC)	A
Hexachlorobenzene	A, A-S, AA, AA-S	0.04		H(WS)	A
(118-74-1)	GA	0.04		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	3×10^{-5}		H(FC)	A
	SA, SB, SC, I, SD	3×10^{-5}		H(FC)	A
Hexachlorobutadiene	A, A-S, AA, AA-S	0.5		H(WS)	B
(87-68-3)	GA	0.5		H(WS)	B
	A, A-S, AA, AA-S, B, C, D	0.01		H(FC)	B
	SA, SB, SC, I, SD	0.01		H(FC)	B
	A, A-S, AA, AA-S, B, C	1.0*		A(C)	
	D	10*		A(A)	
	SA, SB, SC	0.3		A(C)	
	I		0.3	A(C)	
	SD	3.0		A(A)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c) and (d).					
alpha-Hexachlorocyclohexane	A, A-S, AA, AA-S	0.01		H(WS)	A
(319-84-6)	GA	0.01		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	0.002		H(FC)	A
	SA, SB, SC, I, SD	0.002		H(FC)	A
beta-Hexachlorocyclohexane	A, A-S, AA, AA-S	0.04		H(WS)	A
(319-85-7)	GA	0.04		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	0.007		H(FC)	A
	SA, SB, SC, I, SD	0.007		H(FC)	A

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
delta-Hexachlorocyclohexane (319-86-8)	A, A-S, AA, AA-S	0.04		H(WS)	A
	GA	0.04		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	0.008		H(FC)	A
	SA, SB, SC, I, SD	0.008		H(FC)	A
epsilon-Hexachlorocyclohexane (6108-10-7)	A, A-S, AA, AA-S	0.04		H(WS)	A
	GA	0.04		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	0.008		H(FC)	A
	SA, SB, SC, I, SD	0.008		H(FC)	A
gamma-Hexachlorocyclohexane (58-89-9)	A, A-S, AA, AA-S	0.05		H(WS)	A
	GA	0.05		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	0.008		H(FC)	A
	SA, SB, SC, I, SD	0.008		H(FC)	A
	A, A-S, AA, AA-S, B, C, D	0.95		A(A)	
Hexachlorocyclopentadiene (77-47-4)	A, A-S, AA, AA-S		5***	H(WS)	I
	GA	*		H(WS)	J
	A, A-S, AA, AA-S, B, C	0.45**		A(C)	
	D	4.5**		A(A)	
	SA, SB, SC	0.07		A(C)	
	I		0.07	A(C)	
	SD	0.7		A(A)	
	A, A-S, AA, AA-S	1.0		E	U

Remarks:
* The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.
** For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c) and (d).
*** This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.

Hexachloroethane (67-72-1)	A, A-S, AA, AA-S	5		H(WS)	A, I
	GA	*		H(WS)	J
	A, A-S, AA, AA-S, B, C, D	0.6		H(FC)	A
	SA, SB, SC, I, SD	0.6		H(FC)	A

Remark:
* The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.

Hexachlorophene (70-30-4)	A, A-S, AA, AA-S		5****	H(WS)	I
	GA	*		H(WS)	J
	A, A-S, AA, AA-S	**		E	
	GA	**		E	
	B,C,D	***		E	

Remarks:
* The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.
** Refer to entry for “Phenolic compounds (total phenols).”
*** Refer to entry for “Phenols, total chlorinated.”
**** This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Hexachloropropene	A, A-S, AA, AA-S		5*	H(WS)	I
(1888-71-7)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance..					
2-Hexanone	A, A-S, AA, AA-S		50	H(WS)	Z
(591-78-6)	GA		50	H(WS)	Z
Hexazinone	A, A-S, AA, AA-S		50	H(WS)	Z
(51235-04-2)	GA	50		H(WS)	J
Hydrazine	A, A-S, AA, AA-S, B, C	*		A(C)	
(302-01-2)	D	**		A(A)	
Remarks: * 5 ug/L at less than 50 ppm hardness and 10 ug/L at greater than or equal to 50 ppm hardness.					
** 50 ug/L at less than 50 ppm hardness and 100 ug/L at greater than or equal to 50 ppm hardness.					
For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c) and (d).					
Hydrogen sulfide	A, A-S, AA, AA-S, B, C	2.0*		A(C)	
(7783-06-4)	SA, SB, SC	2.0		A(C)	
	I		2.0	A(C)	
	A, A-S, AA, AA-S		**	E	
	GA		**	E	
Remarks: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					
** Refer to entry for “Sulfides, total.”					
Aquatic Type standards and guidance value apply to undissociated form.					
Hydroquinone	A, A-S, AA, AA-S, B, C	2.2**		A(C)	
(123-31-9)	D	4.4**		A(A)	
	A, A-S, AA, AA-S	*		E	
	GA	*		E	
	B, C, D	***		E	
Remarks: * Refer to entry for "Phenolic compounds (total phenols)."					
** For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c) and (d).					
*** Refer to entry for “Phenols, total unchlorinated.”					
1-Hydroxyethylidene-	A, A-S, AA, AA-S		50	H(WS)	Z
1,1-diphosphonic acid	GA		50	H(WS)	Z
(2809-21-4)					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
2-(2-Hydroxy-	A, A-S, AA, AA-S		50	H(WS)	Z
3,5-di-tert-pentylphenyl)-	GA		50	H(WS)	Z
benzotriazole	A, A-S, AA, AA-S	*		E	
(25973-55-1)	GA	*		E	
	B, C, D	**		E	
Remarks: * Refer to entry for “Phenolic compounds (total phenols).”					
** Refer to entry for “Phenols, total unchlorinated.”					
Indeno (1,2,3-cd) pyrene	A, A-S, AA, AA-S		0.002	H(WS)	A
(193-39-5)	GA		0.002	H(WS)	A
Iron	A, A-S, AA, AA-S, B, C	300**		A(C)	
(CAS No. Not Applicable)	D	300**		A(A)	
	A, A-S, AA, AA-S	300		E	G
	GA	300*		E	F
Remarks: * Also see standard for "Iron and Manganese."					
** For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c) and (d).					
Iron and Manganese	GA	500*		E	F
(CAS No. Not Applicable)					
Remark: * Applies to the sum of these substances; also see individual standards for "Iron" and "Manganese."					
Isodecyl diphenyl phosphate	A, A-S, AA, AA-S, B, C	1.7*		A(C)	
(29761-21-5)	D	22*		A(A)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c) and (d).					
Isodrin	A, A-S, AA, AA-S		5*	H(WS)	I
(465-73-6)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Isophorone	A, A-S, AA, AA-S		50	H(WS)	Z
(78-59-1)	GA		50	H(WS)	Z
Isopropalin	A, A-S, AA, AA-S		5*	H(WS)	I
(33820-53-0)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Isopropylbenzene	A, A-S, AA, AA-S		5*	H(WS)	I
(98-82-8)	GA	**		H(WS)	J
	A, A-S, AA, AA-S, B, C		2.6	A(C)	
	A, A-S, AA, AA-S, B, C, D		23	A(A)	
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2-Isopropyltoluene	A, A-S, AA, AA-S	5		H(WS)	I
(527-84-4)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3-Isopropyltoluene	A, A-S, AA, AA-S	5		H(WS)	I
(535-77-3)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4-Isopropyltoluene	A, A-S, AA, AA-S	5		H(WS)	I
(99-87-6)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Isothiazolones, total (isothiazolinones) (includes 5-chloro-2-methyl-4-isothiazolin-3-one & 2-methyl-4-isothiazolin-3-one) (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	1*		A(C)	
	D	10*		A(A)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c) and (d). Standards apply to the sum of these substances.					
Kepone	GA	ND		H(WS)	F
(143-50-0)					
Lead	A, A-S, AA, AA-S	50		H(WS)	G
(CAS No. Not Applicable)	GA	25		H(WS)	F
	A, A-S, AA, AA-S, B, C	*		A(C)	
	A, A-S, AA, AA-S, B, C, D	**		A(A)	
	SA, SB, SC, I	8		A(C)	
	SA, SB, SC, I, SD	204		A(A)	
Remarks: * {1.46203 - [ln (hardness) (0.145712)]} exp (1.273 [ln (hardness)] - 4.297)					
** {1.46203 - [ln (hardness) (0.145712)]} exp (1.273 [ln (hardness)] - 1.052) Aquatic Type standards apply to dissolved form.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Linear alkyl benzene sulfonates (LAS) (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	40*		A(C)	
Remarks: * LAS with side chains greater than 13 carbons only; applies to the sum of these substances. * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					
Magnesium	A, A-S, AA, AA-S	35,000		H(WS)	B
(CAS No. Not Applicable)	GA		35,000	H(WS)	B
Malathion	GA	7.0		H(WS)	F
(121-75-5)	A, A-S, AA, AA-S, B, C	0.1*		A(C)	
	SA, SB, SC	0.1		A(C)	
	I		0.1	A(C)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					
Mancozeb (8018-01-7)	GA	1.8		H(WS)	F
Maneb (12427-38-2)	GA	1.8		H(WS)	F
Manganese	A, A-S, AA, AA-S	300		E	G
(CAS No. Not Applicable)	GA	300*		E	F
Remark: * Also see entry for "Iron and Manganese."					
Mercaptobenzothiazole	A, A-S, AA, AA-S		50	H(WS)	Z
(149-30-4)	GA		50	H(WS)	Z
Mercury	A, A-S, AA, AA-S	0.7		H(WS)	B
(CAS No. Not Applicable)	GA	0.7		H(WS)	B
	A, A-S, AA, AA-S, B, C, D	7×10^{-4}*		H(FC)	B
	SA, SB, SC, I, SD	7×10^{-4}*		H(FC)	B
	A, A-S, AA, AA-S, B, C	0.77*		A(C)	
	A, A-S, AA, AA-S, B, C, D	1.4*		A(A)	
	A, A-S, AA, AA-S, B, C, D	0.0026*		W	
	SA, SB, SC, I, SD	0.0026*		W	
Remark * Applies to dissolved form.					
Methacrylic acid	A, A-S, AA, AA-S		50	H(WS)	Z
(79-41-4)	GA		50	H(WS)	Z
Methacrylonitrile	A, A-S, AA, AA-S		5*	H(WS)	I
(126-98-7)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Methomyl (16752-77-5)	GA	*		H(WS)	
Remark: * Refer to entry for "Aldicarb and Methomyl."					
Methoxychlor (72-43-5)	A, A-S, AA, AA-S	35		H(WS)	H
	GA	35		H(WS)	F
	A, A-S, AA, AA-S, B, C	0.03*		A(C)	
	SA, SB, SC	0.03		A(C)	
	I		0.03	A(C)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					
(1-Methoxyethyl) benzene (4013-34-7)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA		50	H(WS)	Z
(2-Methoxyethyl) benzene (3558-60-9)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA		50	H(WS)	Z
N-Methylaniline (100-61-8)	A, A-S, AA, AA-S	5		H(WS)	I
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Methylbenz(a)anthracenes (CAS No. Not Applicable)	A, A-S, AA, AA-S		0.002*	H(WS)	A
	GA		0.002*	H(WS)	A
Remark: * Applies to the sum of these substances.					
Methyl chloride (74-87-3)	A, A-S, AA, AA-S	5		H(WS)	I
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2-Methyl-4-chlorophenoxyacetic acid (94-74-6)	GA	0.44		H(WS)	F
4,4'-Methylene-bis-(2-chloroaniline) (101-14-4)	A, A-S, AA, AA-S		5*	H(WS)	I
	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
4,4'-Methylene-bis-(N-methyl)-aniline (1807-55-2)	A, A-S, AA, AA-S		5*	H(WS)	I
	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4,4'-Methylene-bis-(N,N'-dimethyl) aniline (101-61-1)	A, A-S, AA, AA-S		5*	H(WS)	I
	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Methylene bisthiocyanate (6317-18-6)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA		50	H(WS)	Z
	A, A-S, AA, AA-S, B, C	1.0*		A(C)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					
Methylene chloride (75-09-2)	A, A-S, AA, AA-S	5		H(WS)	I
	GA	*		H(WS)	J
	A, A-S, AA, AA-S, B, C, D	200		H(FC)	A
	SA,SB, SC, I, SD	200		H(FC)	A
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4-(1-Methylethoxy)-1-butanol (31600-69-8)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA		50	H(WS)	Z
2-Methylethyl-1,3-dioxolane (126-39-6)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA		50	H(WS)	Z
Methyl ethyl ketone (78-93-3)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA		50	H(WS)	Z
Methyl iodide (74-88-4)	A, A-S, AA, AA-S		5*	H(WS)	I
	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Methyl methacrylate (80-62-6)	GA	50		H(WS)	J

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
2-Methylnaphthalene	A, A-S, AA, AA-S, B, C		4.7	A(C)	
(91-57-6)	A, A-S, AA, AA-S, B, C, D		42	A(A)	
	SA, SB, SC, I		4.2	A(C)	
	SA, SB, SC, I, SD		38	A(A)	
Methyl parathion	GA	*		H(WS)	
(298-00-0)	A, A-S, AA, AA-S, B, C	*		A(C)	
Remark: * Refer to entry for "Parathion and Methyl parathion."					
alpha-Methylstyrene	A, A-S, AA, AA-S	5		H(WS)	I
(98-83-9)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2-Methylstyrene	A, A-S, AA, AA-S	5		H(WS)	I
(611-15-4)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3-Methylstyrene	A, A-S, AA, AA-S	5		H(WS)	I
(100-80-1)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4-Methylstyrene	A, A-S, AA, AA-S	5		H(WS)	I
(622-97-9)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Metribuzin	A, A-S, AA, AA-S		50	H(WS)	Z
(21087-64-9)	GA	50		H(WS)	J
Mirex	A, A-S, AA, AA-S	0.03		H(WS)	A
(2385-85-5)	GA	0.03		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	1×10^{-6}		H(FC)	A
	SA, SB, SC, I, SD	1×10^{-6}		H(FC)	A
	A, A-S, AA, AA-S, B, C	0.001*		A(C)	
	D	0.001*		A(A)	
	SA, SB, SC	0.001		A(C)	
	I		0.001	A(C)	
	SD		0.001	A(A)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c) and (d).					
Nabam	GA	1.8		H(WS)	F
(142-59-6)					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Naphthalene	A, A-S, AA, AA-S, B, C		13	A(C)	
(91-20-3)	A, A-S, AA, AA-S, B, C, D		110	A(A)	
	SA, SB, SC, I		16	A(C)	
	SA, SB, SC, I, SD		140	A(A)	
	A, A-S, AA, AA-S	10		E	U
	GA		10	E	U
Niacinamide	A, A-S, AA, AA-S	500		H(WS)	B
(98-92-0)	GA		500	H(WS)	B
Nickel	A, A-S, AA, AA-S	100		H(WS)	B
(CAS No. Not Applicable)	GA	100		H(WS)	B
	A, A-S, AA, AA-S, B, C	*		A(C)	
	A, A-S, AA, AA-S, B, C, D	**		A(A)	
	SA, SB, SC, I	8.2		A(C)	
	SA, SB, SC, I, SD	74		A(A)	
Remarks: * (0.997) exp (0.846 [ln (hardness)] + 0.0584)					
** (0.998) exp (0.846 [ln (hardness)] + 2.255)					
Aquatic Type standards apply to dissolved form.					
Nitralin	GA	35		H(WS)	F
(4726-14-1)					
Nitrate (expressed as N)	A, A-S, AA, AA-S	10,000*		H(WS)	G
(CAS No. Not Applicable)	GA	10,000*		H(WS)	G
Remark: * Also see entry for "Nitrate and Nitrite."					
Nitrate and Nitrite	A, A-S, AA, AA-S	10,000*		H(WS)	G
(expressed as N)	GA	10,000*		H(WS)	G
(CAS No. Not Applicable)					
Remark: * Applies to the sum of these substances; also see individual standards for "Nitrate" and "Nitrite."					
Nitrilotriacetic acid	A, A-S, AA, AA-S	3*		H(WS)	A
(CAS No. Not Applicable)	GA	3*		H(WS)	A
	A, A-S, AA, AA-S, B, C	5,000**		A(C)	
Remarks: * Includes related forms that convert to nitrilotriacetic acid upon acidification to a pH of 2.3 or less.					
** Applies to nitrilotriacetate.					
** For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					
Nitrite (expressed as N)	A, A-S, AA, AA-S	1,000*		H(WS)	G
(CAS No. Not Applicable)	GA	1,000*		H(WS)	G
	A, A-S, AA, AA-S, B, C	**		A(C)	
Remarks: * Also see entry for "Nitrate and Nitrite."					
** Standard is 100 ug/L for warm water fishery waters and 20 ug/L for cold water fishery waters.					
** For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
2-Nitroaniline	A, A-S, AA, AA-S		5*	H(WS)	I
(88-74-4)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3-Nitroaniline	A, A-S, AA, AA-S		5*	H(WS)	I
(99-09-2)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4-Nitroaniline	A, A-S, AA, AA-S		5*	H(WS)	I
(100-01-6)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Nitrobenzene	A, A-S, AA, AA-S	0.4		H(WS)	A
(98-95-3)	GA	0.4		H(WS)	A
	A, A-S, AA, AA-S	30		E	U
N-Nitrosodiphenylamine	A, A-S, AA, AA-S		50	H(WS)	Z
(86-30-6)	GA		50	H(WS)	Z
2-Nitrotoluene	A, A-S, AA, AA-S		5*	H(WS)	I
(88-72-2)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3-Nitrotoluene	A, A-S, AA, AA-S		5*	H(WS)	I
(99-08-1)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
4-Nitrotoluene	A, A-S, AA, AA-S		5*	H(WS)	I
(99-99-0)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
5-Nitro-o-toluidine	A, A-S, AA, AA-S		5*	H(WS)	I
(99-55-8)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Octachlorostyrene	A, A-S, AA, AA-S	0.2		H(WS)	B
(29082-74-4)	GA	0.2		H(WS)	B
	A, A-S, AA, AA-S, B, C, D	6×10^{-6}		H(FC)	B
	SA, SB, SC, I, SD	6×10^{-6}		H(FC)	B
Oxamyl	A, A-S, AA, AA-S		50	H(WS)	Z
(23135-22-0)	GA	50		H(WS)	J
Paraquat	GA	3.0		H(WS)	F
(4685-14-7)					
Parathion	GA	*		H(WS)	
(56-38-2)	A, A-S, AA, AA-S, B, C	*		A(C)	
	A, A-S, AA, AA-S, B, C, D	0.065		A(A)	
Remark: * Refer to entry for "Parathion and Methyl parathion."					
Parathion and Methyl parathion	GA	1.5*		H(WS)	F
(56-38-2; 298-00-0)	A, A-S, AA, AA-S, B, C	0.008**		A(C)	
Remarks: * Applies to the sum of these substances. ** Applies to the sum of these substances. For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					
Pendimethalin	A, A-S, AA, AA-S		5*	H(WS)	I
(40487-42-1)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Pentachlorobenzene	A, A-S, AA, AA-S		5*	H(WS)	I
(608-93-5)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Pentachloroethane	A, A-S, AA, AA-S		5*	H(WS)	I
(76-01-7)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Pentachloronitrobenzene	GA	ND		H(WS)	F
(82-68-8)					
Pentachlorophenol	A, A-S, AA, AA-S, B, C	*		A(C)	
(87-86-5)	A, A-S, AA, AA-S, B, C, D	**		A(A)	
	A, A-S, AA, AA-S	***		E	
	GA	***		E	
	B, C, D	****		E	
Remarks: * exp [1.005 (pH) - 5.134]					
** exp [1.005 (pH) - 4.869]					
*** Refer to entry for "Phenolic compounds (total phenols)."					
**** Refer to entry for "Phenols, total chlorinated."					
Phenanthrene	A, A-S, AA, AA-S		50	H(WS)	Z
(85-01-8)	GA		50	H(WS)	Z
	A, A-S, AA, AA-S, B, C		5.0	A(C)	
	A, A-S, AA, AA-S, B, C, D		45	A(A)	
	SA, SB, SC, I		1.5	A(C)	
	SA, SB, SC, I, SD		14	A(A)	
Phenol	A, A-S, AA, AA-S	*		E	
(108-95-2)	GA	*		E	
	B, C, D	**		E	
Remarks: * Refer to entry for "Phenolic compounds (total phenols)."					
** Refer to entry for "Phenols, total unchlorinated."					
Phenolic compounds	A, A-S, AA, AA-S	1*		E	U
(total phenols)	GA	1*		E	U
(CAS No. Not Applicable)					
Remark: * Applies to the sum of these substances.					
Phenols, total chlorinated	A, A-S, AA, AA-S	*		E	
(CAS No. Not Applicable)	GA	*		E	
	A, A-S, AA, AA-S, B, C, D	1.0**		E	V
Remarks: * Refer to entry for "Phenolic compounds (total phenols)."					
** Applies to the sum of these substances.					
Phenols, total unchlorinated	A, A-S, AA, AA-S	*		E	
(CAS No. Not Applicable)	GA	*		E	
	A, A-S, AA, AA-S, B, C, D	5.0**		E	V
Remarks: * Refer to entry for "Phenolic compounds (total phenols)."					
** Applies to the sum of these substances.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
1,2-Phenylenediamine	A, A-S, AA, AA-S		5*	H(WS)	I
(95-54-5)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,3-Phenylenediamine	A, A-S, AA, AA-S		5*	H(WS)	I
(108-45-2)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,4-Phenylenediamine	A, A-S, AA, AA-S		5*	H(WS)	I
(106-50-3)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Phenyl ether	A, A-S, AA, AA-S	10		E	U
(101-84-8)	GA		10	E	U
Phenylhydrazine	A, A-S, AA, AA-S		5*	H(WS)	I
(100-63-0)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Phenylpropanolamine	A, A-S, AA, AA-S		50	H(WS)	Z
(14838-15-4)	GA		50	H(WS)	Z
3-Phenyl-1-propene	A, A-S, AA, AA-S	5		H(WS)	I
(637-50-3)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
cis-1-Phenyl-1-propene	A, A-S, AA, AA-S	5		H(WS)	I
(766-90-5)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
trans-1-Phenyl-1-propene	A, A-S, AA, AA-S	5		H(WS)	I
(873-66-5)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Phorate (298-02-2)	GA	*		H(WS)	
Remark: * Refer to entry for "Phorate and Disulfoton."					
Phorate and Disulfoton (298-02-2; 298-04-4)	GA	ND*		H(WS)	F
Remark: * Applies to sum of these substances.					
Phosphorus (CAS No. Not Applicable)	A, A-S, AA, AA-S, B		20*	**	**
Remarks: * Applies only where the letter "P" (ponds, lakes and reservoirs) appears in the Water Index Number, excluding Lake Champlain. The department is considering site-specific values for Lake Champlain and for Lake Ontario and Lake Erie, both of which do not have the letter "P" designation. ** Based on aesthetic effects for primary and secondary contact recreation.					
Picloram (CAS No. Not Applicable)	A, A-S, AA, AA-S		50*	H(WS)	Z
	GA	50*		H(WS)	J
Remark: * Includes: related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.					
Polybrominated biphenyls (CAS No. Not Applicable)	A, A-S, AA, AA-S		5*	H(WS)	I
	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. Value applies to each congener individually. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to each congener individually.					
Polychlorinated biphenyls (CAS No. Not Applicable)	A, A-S, AA, AA-S	0.09*		H(WS)	A
	GA	0.09*		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	1×10^{-6}*		H(FC)	A
	SA, SB, SC, I, SD	1×10^{-6}*		H(FC)	A
	A, A-S, AA, AA-S, B, C, D	1.2×10^{-4}*		W	
	SA, SB, SC, I, SD	1.2×10^{-4}*		W	
Remark: * Applies to the sum of these substances.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Principal organic contaminant (CAS No. Not Applicable)	GA	5		H(WS)	J
Remarks: This standard applies to any and every individual substance, whether listed in this Table or not, that is in one of the principal organic contaminant classes as defined in 6 NYCRR 700.1 except any substance that has a H(WS) Type standard for class GA waters (other than 5 ug/L with Basis Code J) listed elsewhere in this Table. For the convenience of the reader, the principal organic contaminant standard of 5 ug/L (Basis Code J), is listed in this Table for some (but not all) substances regulated by this standard. A less stringent guidance value for an individual substance may be substituted for this standard if so determined by the Commissioner of the New York State Department of Health.					
Prometon (1610-18-0)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA	50		H(WS)	J
Propachlor (1918-16-7)	GA	35		H(WS)	F
Propanil (709-98-8)	GA	7.0		H(WS)	F
Propazine (139-40-2)	GA	16		H(WS)	F
Propham (122-42-9)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA	50		H(WS)	J
n-Propylbenzene (103-65-1)	A, A-S, AA, AA-S	5		H(WS)	I
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Pyrene (129-00-0)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA		50	H(WS)	Z
	A, A-S, AA, AA-S, B, C		4.6	A(C)	
	A, A-S, AA, AA-S, B, C, D		42	A(A)	
Pyridine (110-86-1)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA		50	H(WS	Z
Quaternary ammonium compounds (including dimethyl benzyl ammonium chloride & dimethyl ethyl benzyl ammonium chloride) (CAS No. Not Applicable)	A, A-S, AA, AA-S, B, C	10*		A(C)	
Remarks: * Applies to the sum of these substances. * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Radium 226	A, AA	*		H(WS)	H
(CAS No. Not Applicable)	A-S, AA-S		*	H(WS)	H
	GA	*		H(WS)	H
Remark: * 3 picocuries per liter; also see entry for "Radium 226 and Radium 228."					
Radium 226 and Radium 228	A, A-S, AA, AA-S	*		H(WS)	G
(CAS No. Not Applicable)	GA	*		H(WS)	G
Remark: * 5 picocuries per liter; Applies to the sum of these substances.					
Radium 228	A, A-S, AA, AA-S	*		H(WS)	
(CAS No. Not Applicable)	GA	*		H(WS)	
Remark: * Refer to entry for "Radium 226 and Radium 228."					
Selenium	A, A-S, AA, AA-S	10		H(WS)	G
(CAS No. Not Applicable)	GA	10		H(WS)	G
	A, A-S, AA, AA-S, B, C	4.6*		A(C)	
Remark: * Aquatic Type standard applies to dissolved form.					
Silver	A, A-S, AA, AA-S	50		H(WS)	G
(CAS No. Not Applicable)	GA	50		H(WS)	F
	A, A-S, AA, AA-S, B, C	0.1*		A(C)	
	D	**		A(A)	
	SD	2.3		A(A)	
Remarks: * Applies to ionic silver. ** exp (1.72 [ln (ppm hardness)] - 6.52) Standards for D and SD Classes apply to acid-soluble form. For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c) and (d).					
Simazine	A, A-S, AA, AA-S	0.5		H(WS)	A
(122-34-9)	GA	0.5		H(WS)	A
Sodium	GA	20,000		H(WS)	H
(CAS No. Not Applicable)					
Strontium 90	A, A-S, AA, AA-S	*		H(WS)	G
(CAS No. Not Applicable)					
Remarks: * 8 picocuries per liter. If two or more radionuclides are present, the sum of their doses shall not exceed an annual potential dose of 4 millirems per year.					
Styrene	A, A-S, AA, AA-S		5*	H(WS)	I
(100-42-5)	GA	**		H(WS)	J
	A, A-S, AA, AA-S	50		E	U
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Sulfate	A, A-S, AA, AA-S	250,000		H(WS)	G
(CAS No. Not Applicable)	GA	250,000		H(WS)	F
Sulfides, total	A, A-S, AA, AA-S, B, C	**		A(C)	
(CAS No. Not Applicable)	SA, SB, SC	**		A(C)	
	I		**	A(C)	
	A, A-S, AA, AA-S		50*	E	U
	GA		50*	E	U
Remarks: Values listed apply to sum of these substances. * Expressed as hydrogen sulfide. ** Refer to entry for “Hydrogen Sulfide.”					
Sulfite	A, A-S, AA, AA-S, B, C	200*		A(C)	
(CAS No. Not Applicable)					
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c).					
Tebuthiuron	A, A-S, AA, AA-S		50	H(WS)	Z
(34014-18-1)	GA	50		H(WS)	J
Terbacil	GA	50		H(WS)	J
(5902-51-2)					
Terbufos	A, A-S, AA, AA-S		0.09	H(WS)	B
(13071-79-9)	GA		0.09	H(WS)	B
Tetrachlorobenzenes	A, A-S, AA, AA-S		5***	H(WS)	I
(634-66-2; 634-90-2; 95-94-3;	GA	*		H(WS)	J
12408-10-5)	A, A-S, AA, AA-S	10**		E	U
	GA		10**	E	U
Remarks: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to each isomer (1,2,3,4-, 1,2,3,5-, and 1,2,4,5-tetrachlorobenzene) individually. ** Applies to the sum of 1,2,3,4-, 1,2,3,5- and 1,2,4,5-tetrachlorobenzene. *** This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent specific MCL. Value applies to each isomer individually.					
1,1,1,2-Tetrachloroethane	A, A-S, AA, AA-S	5		H(WS)	I
(630-20-6)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,1,2,2-Tetrachloroethane	A, A-S, AA, AA-S		0.2	H(WS)	A
(79-34-5)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Tetrachloroethene	A, A-S, AA, AA-S		0.7	H(WS)	A
(127-18-4)	GA	*		H(WS)	J
	A, A-S, AA, AA-S, B, C, D		1	H(FC)	
	SA, SB, SC, I, SD		1	H(FC)	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Tetrachloroterephthalic acid	GA	50		H(WS)	J
(2136-79-0)					
alpha, alpha, alpha, 4-Tetrachloro-	A, A-S, AA, AA-S		5*	H(WS)	I
toluene	GA	**		H(WS)	J
(5216-25-1)					
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Tetrahydrofuran	A, A-S, AA, AA-S		50	H(WS)	Z
(109-99-9)	GA		50	H(WS)	Z
1,2,3,4-Tetramethylbenzene	A, A-S, AA, AA-S		5*	H(WS)	I
(488-23-3)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,2,3,5-Tetramethylbenzene	A, A-S, AA, AA-S		5*	H(WS)	I
(527-53-7)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance..					
1,2,4,5-Tetramethylbenzene	A, A-S, AA, AA-S		5*	H(WS)	I
(95-93-2)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance..					
Thallium	A, A-S, AA, AA-S		0.5	H(WS)	B
(CAS No. Not Applicable)	GA		0.5	H(WS)	B
	A, A-S, AA, AA-S, B, C	8*		A(C)	
	D	20		A(A)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c). Aquatic Type standards apply to acid-soluble form.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Theophylline	A, A-S, AA, AA-S	40		H(WS)	B
(58-55-9)	GA		40	H(WS)	B
Thiram	GA	1.8		H(WS)	F
(137-26-8)					
Toluene	A, A-S, AA, AA-S	5		H(WS)	I
(108-88-3)	GA	*		H(WS)	J
	A, A-S, AA, AA-S, B, C, D	6,000		H(FC)	B
	SA, SB, SC, I, SD	6,000		H(FC)	B
	A, A-S, AA, AA-S, B, C		100	A(C)	
	A, A-S, AA, AA-S, B, C, D		480	A(A)	
	SA, SB, SC, I		92	A(C)	
	SA, SB, SC, I, SD		430	A(A)	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Toluene-2,4-diamine	A, A-S, AA, AA-S		5*	H(WS)	I
(95-80-7)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Toluene-2,5-diamine	A, A-S, AA, AA-S		5*	H(WS)	I
(95-70-5)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Toluene-2,6-diamine	A, A-S, AA, AA-S		5*	H(WS)	I
(823-40-5)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
o-Toluidine	A, A-S, AA, AA-S		0.6	H(WS)	A
(95-53-4)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Tolyltriazole	A, A-S, AA, AA-S		50	H(WS)	Z
(29385-43-1)	GA		50	H(WS)	Z

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Toxaphene	A, A-S, AA, AA-S	0.06		H(WS)	A
(8001-35-2)	GA	0.06		H(WS)	A
	A, A-S, AA, AA-S, B, C, D	6×10^{-6}		H(FC)	A
	SA, SB, SC, I, SD	6×10^{-6}		H(FC)	A
	A, A-S, AA, AA-S, B, C	0.005		A(C)	
	D	1.6*		A(A)	
	SA, SB, SC	0.005		A(C)	
	I		0.005	A(C)	
	SD		0.07	A(A)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic standard if so determined under 702.15 (d).					
1,2,4-Tribromobenzene	A, A-S, AA, AA-S	5		H(WS)	I
(615-54-3)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Tributyltin oxide	A, A-S, AA, AA-S		50	H(WS)	Z
(56-35-9)	GA		50	H(WS)	Z
2,4,6-Trichloroaniline	A, A-S, AA, AA-S		5*	H(WS)	I
(634-93-5)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Trichlorobenzenes	A, A-S, AA, AA-S		5***	H(WS)	I
(87-61-6; 120-82-1; 108-70-3;	GA	*		H(WS)	J
12002-48-1)	A, A-S, AA, AA-S, B, C	5**		A(C)	
	SA, SB, SC	5**		A(C)	
	I		5**	A(C)	
	A, A-S, AA, AA-S	10**		E	U
	GA		10**	E	U
	D	50**		E	V
	SD	50**		E	V
Remarks: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to each isomer (1,2,3-, 1,2,4- and 1,3,5-trichlorobenzene) individually. ** Applies to the sum of 1,2,3-, 1,2,4- and 1,3,5-trichlorobenzene. For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c). *** This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. Value applies to each isomer individually.					
1,1,1-Trichloroethane	A, A-S, AA, AA-S	5		H(WS)	I
(71-55-6)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
1,1,2-Trichloroethane	A, A-S, AA, AA-S	1		H(WS)	A
(79-00-5)	GA	1		H(WS)	A
Trichloroethene	A, A-S, AA, AA-S	5		H(WS)	I
(79-01-6)	GA	*		H(WS)	J
	A, A-S, AA, AA-S, B, C, D	40		H(FC)	A
	SA, SB, SC, I, SD	40		H(FC)	A
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Trichlorofluoromethane	A, A-S, AA, AA-S	5		H(WS)	I
(75-69-4)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,4,5-Trichlorophenoxyacetic acid (93-76-5)	GA	35		H(WS)	F
2,4,5-Trichlorophenoxypropionic acid	A, A-S, AA, AA-S	10		H(WS)	G
	GA	0.26		H(WS)	F
(93-72-1)					
1,1,2-Trichloropropane	A, A-S, AA, AA-S	5		H(WS)	I
(598-77-6)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,2,3-Trichloropropane	A, A-S, AA, AA-S	0.04		H(WS)	A
(96-18-4)	GA	0.04		H(WS)	A
cis-1,2,3-Trichloropropene	A, A-S, AA, AA-S	5		H(WS)	I
(13116-57-9)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
trans-1,2,3-Trichloropropene	A, A-S, AA, AA-S	5		H(WS)	I
(13116-58-0)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
alpha,2,4-Trichlorotoluene	A, A-S, AA, AA-S	5		H(WS)	I
(94-99-5)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
alpha,2,6-Trichlorotoluene	A, A-S, AA, AA-S	5		H(WS)	I
(2014-83-7)	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
alpha,3,4-Trichlorotoluene (102-47-6)	A, A-S, AA, AA-S	5		H(WS)	I
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
alpha,alpha,2-Trichlorotoluene (88-66-4)	A, A-S, AA, AA-S	5		H(WS)	I
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
alpha,alpha,4-Trichlorotoluene (13940-94-8)	A, A-S, AA, AA-S	5		H(WS)	I
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,3,4-Trichlorotoluene (7359-72-0)	A, A-S, AA, AA-S		0.34	H(WS)	B
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,3,5-Trichlorotoluene (56961-86-5)	A, A-S, AA, AA-S		0.34	H(WS)	B
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,3,6-Trichlorotoluene (2077-46-5)	A, A-S, AA, AA-S		0.34	H(WS)	B
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,4,5-Trichlorotoluene (6639-30-1)	A, A-S, AA, AA-S		0.34	H(WS)	B
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,4,6-Trichlorotoluene (23749-65-7)	A, A-S, AA, AA-S		0.34	H(WS)	B
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,1,1-Trichloro-2,2,2-trifluoroethane (354-58-5)	A, A-S, AA, AA-S	5		H(WS)	I
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	A, A-S, AA, AA-S	5		H(WS)	I
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Trifluralin (1582-09-8)	GA	35		H(WS)	F
1,2,3-Trimethylbenzene (526-73-8)	A, A-S, AA, AA-S	5		H(WS)	I
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,2,4-Trimethylbenzene (95-63-6)	A, A-S, AA, AA-S	5		H(WS)	I
	GA	*		H(WS)	J
	A, A-S, AA, AA-S, B, C		33	A(C)	
	A, A-S, AA, AA-S, B, C, D		290	A(A)	
	SA, SB, SC, I		19	A(C)	
	SA, SB, SC, I, SD		170	A(A)	
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
1,3,5-Trimethylbenzene (108-67-8)	A, A-S, AA- AA-S	5		H(WS)	I
	GA	*		H(WS)	J
Remark: * The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,3,6-Trimethylpyridine (1462-84-6)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA		50	H(WS)	Z
2,4,6-Trimethylpyridine (108-75-8)	A, A-S, AA, AA-S		50	H(WS)	Z
	GA		50	H(WS)	Z
sym-Trinitrobenzene (99-35-4)	A, A-S, AA, AA-S		5*	H(WS)	I
	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,3,4-Trinitrotoluene (602-29-9)	A, A-S, AA, AA-S		5*	H(WS)	I
	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL. ** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
2,3,6-Trinitrotoluene	A, A-S, AA, AA-S		5*	H(WS)	I
(18292-97-2)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,4,5-Trinitrotoluene	A, A-S, AA, AA-S		5*	H(WS)	I
(610-25-3)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
2,4,6-Trinitrotoluene	A, A-S, AA, AA-S		5*	H(WS)	I
(118-96-7)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
3,4,5-Trinitrotoluene	A, A-S, AA, AA-S		5*	H(WS)	I
(603-15-6)	GA	**		H(WS)	J
Remarks: * This substance did not receive a review beyond determining that it is in a principal organic contaminant class and that it does not have a more stringent Specific MCL.					
** The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.					
Triphenyl phosphate	A, A-S, AA, AA-S		50	H(WS)	Z
(115-86-6)	GA		50	H(WS)	Z
	A, A-S, AA, AA-S, B, C	4*		A(C)	
	D	40*		A(A)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c) and (d).					
Tritium	A, A-S, AA, AA-S	*		H(WS)	G
(CAS No. Not Applicable)					
Remark: * 20,000 picocuries per liter; if two or more radionuclides are present, the sum of their annual dose equivalent to the total body or any organ shall not exceed 4 millirems per year.					
Uranyl ion	GA	5,000		H(WS)	H
(CAS No. Not Applicable)					
Vanadium	A, A-S, AA, AA-S, B, C	14*		A(C)	
(CAS No. Not Applicable)	D	190*		A(A)	
Remark: * For the waters of the Great Lakes System, the Department will substitute a guidance value for the aquatic Type standard if so determined under 702.15 (c) and (d). Aquatic Type standards apply to acid-soluble form.					

Table 1 (Continued)

NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES

JUNE 1998

SUBSTANCE (CAS No.)	WATER CLASSES	STANDARD (ug/L)	GUIDANCE VALUE (ug/L)	TYPE	BASIS CODE
Vinyl chloride	A, A-S, AA, AA-S		0.3	H(WS)	A
(75-01-4)	GA	2		H(WS)	G
1,2-Xylene	A, A-S, AA, AA-S	5		H(WS)	I
(95-47-6)	GA	*		H(WS)	J
	A, A-S, AA, AA-S, B, C		**	A(C)	
	A, A-S, AA, AA-S, B, C, D		**	A(A)	
	SA, SB, SC, I		**	A(C)	
	SA, SB, SC, I, SD		**	A(A)	
Remarks: *	The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
**	Refer to entry for "1,4-Xylene."				
1,3-Xylene	A, A-S, AA, AA-S	5		H(WS)	I
(108-38-3)	GA	*		H(WS)	J
	A, A-S, AA, AA-S, B, C		**	A(C)	
	A, A-S, AA, AA-S, B, C, D		**	A(A)	
	SA, SB, SC, I		**	A(C)	
	SA, SB, SC, I, SD		**	A(A)	
Remarks: *	The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
**	Refer to entry for "1,4-Xylene."				
1,4-Xylene	A, A-S, AA, AA-S	5		H(WS)	I
(106-42-3)	GA	*		H(WS)	J
	A, A-S, AA, AA-S, B, C		65**	A(C)	
	A, A-S, AA, AA-S, B, C, D		590**	A(A)	
	SA, SB, SC, I		19**	A(C)	
	SA, SB, SC, I, SD		170**	A(A)	
Remarks: *	The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in this Table) applies to this substance.				
**	Applies to the sum of 1,2-, 1,3- and 1,4-xylene.				
Zinc	A, A-S, AA, AA-S		2,000	H(WS)	B
(CAS No. Not Applicable)	GA		2,000	H(WS)	B
	A, A-S, AA, AA-S, B, C	*		A(C)	
	A, A-S, AA, AA-S, B, C, D	**		A(A)	
	SA, SB, SC, I	66		A(C)	
	SD	95		A(A)	
	A, A-S, AA, AA-S		5,000	E	U
	GA		5,000	E	U
Remarks:	Aquatic Type standards apply to dissolved form.				
*	exp(0.85 [ln(ppm hardness)] + 0.50)				
**	0.978 exp(0.8473 [ln(ppm hardness)] + 0.884)				
Zineb (12122-67-7)	GA	1.8		H(WS)	F
Ziram (137-30-4)	GA	4.2		H(WS)	F

TABLE 2

EXPLANATION OF BASIS CODES IN TABLE 1

JUNE 1998

BASIS CODE	BASIS
A	Oncogenic, Human Health
B	Non-oncogenic, Human Health
F	Former Groundwater Regulations, 6 NYCRR 703.5(a)(3), Human Health or Aesthetics
G	Specific MCL, Human Health or Aesthetics
H	Former Use of or Reference to 10 NYCRR Part 170, Human Health or Aesthetics
I	Principal Organic Contaminant Classes, Human Health
J	Former Groundwater Reference to 10 NYCRR Subpart 5-1 General Standards, Human Health
U	Potable Water, Aesthetics
V	Aquatic Life, Aesthetics
Z	General Organic Guidance Value, Human Health

TABLE 3

PARTIAL LIST OF SUBSTANCES NOT REGULATED BY THE PRINCIPAL ORGANIC CONTAMINANT (POC) GROUNDWATER STANDARD

JUNE 1998

Note: Refer to Text of Part I for Explanation

(No standard or guidance value for groundwater is available for these substances as of the date of this document)

SUBSTANCE	CAS NO.
Acenaphthylene	208-96-8
Acephate	30560-19-1
Acetone cyanohydrin	75-86-5
Acetonitrile	75-05-8
Acetophenone	98-86-2
2-Acetylaminofluorene	53-96-3
Allyl alcohol	107-18-6
Anisole	100-66-3
Aramite	140-57-8
Benzaldehyde	100-52-7
Benzeneacetic acid	103-82-2
1,2-Benzenedicarboxaldehyde	643-79-8
Benzenepropanoic acid	501-52-0
Benzoic acid	65-85-0
Benzoic acid, ammonium salt	1863-63-4
Benzo(g,h,i)perylene	191-24-2
Benzo(e)pyrene	192-97-2
Benzyl alcohol	100-51-6
Benzyl chloride	100-44-7
Bis(pentabromophenyl)ether	1163-19-5
4-Bromophenylphenylether	101-55-3
Bromophos	2104-96-3

TABLE 3 (Continued)

PARTIAL LIST OF SUBSTANCES NOT REGULATED BY THE PRINCIPAL ORGANIC CONTAMINANT (POC) GROUNDWATER STANDARD

JUNE 1998

Note: Refer to Text of Part I for Explanation

(No standard or guidance value for groundwater is available for these substances as of the date of this document)

SUBSTANCE	CAS NO.
Bronopol	52-51-7
1-Butanol	71-36-3
tert-Butyl alcohol	75-65-0
Cacodylic acid	75-60-5
Caprolactam	105-60-1
Captafol	2425-06-1
Carbazole	86-74-8
Carbon disulfide	75-15-0
Chloral	75-87-6
Chloroacetic acid	79-11-8
Chlorobenzilate	510-15-6
4-Chlorobenzoic acid	74-11-3
2-Chloroethyl vinyl ether	110-75-8
4-(4-Chloro-2-methylphenoxy) butyric acid	94-81-5
2-(4-Chloro-2-methylphenoxy) propionic acid	93-65-2
4-Chlorophenyl phenyl ether	7005-72-3
Chlorpyrifos	2921-88-2
Cimectacarb	95266-40-3
Clopyralid	1702-17-6
Cyanazine	21725-46-2
Cyclohexane	110-82-7
Cyclohexanol	108-93-0

TABLE 3 (Continued)

PARTIAL LIST OF SUBSTANCES NOT REGULATED BY THE PRINCIPAL ORGANIC CONTAMINANT (POC) GROUNDWATER STANDARD

JUNE 1998

Note: Refer to Text of Part I for Explanation

(No standard or guidance value for groundwater is available for these substances as of the date of this document)

SUBSTANCE	CAS NO.
Cyclohexanone	108-94-1
Cyclohexanone oxime	100-64-1
Cyclohexene	110-83-8
Cyclohexylamine	108-91-8
Cyclopentanone	120-92-3
Cyclotrimethylenetrinitramine	121-82-4
2,4-DB	94-82-6
Decanal	112-31-2
Demeton	8065-48-3
Diallate	2303-16-4
Dibenz(a,h)anthracene	55-70-3
Dibenzofuran	132-64-9
Dibromoacetonitrile	3252-43-5
Dibutyltin chloride	683-18-1
Dibutyltin dilaurate	77-58-7
Dichloroacetic acid	79-43-6
2,3-Dichloro-1,4-napthoquinone	117-80-6
alpha, alpha -Dichlorotoluene	98-87-3
Dicyclopentadiene	77-73-6
Diethylamine	109-89-7
2-(Diethylamino)ethanol	100-37-8
Diethylene glycol	111-46-6

TABLE 3 (Continued)

PARTIAL LIST OF SUBSTANCES NOT REGULATED BY THE PRINCIPAL ORGANIC CONTAMINANT (POC) GROUNDWATER STANDARD

JUNE 1998

Note: Refer to Text of Part I for Explanation

(No standard or guidance value for groundwater is available for these substances as of the date of this document)

SUBSTANCE	CAS NO.
Diethylene glycol monoethyl ether	111-90-0
Diethyl formamide	617-84-4
Diethyl maleate	141-05-9
o,o-Diethyl-o-2-pyrazinyl phosphorothioate	297-97-2
Diethyltin dycaprylate	2641-56-7
2,3-Dihydro-1,6-dimethyl-1H-indene	17059-48-2
2,3-Dihydro-1-methyl-1H-indene	767-58-8
Diisopropylamine	108-18-9
Diisopropyl ether	108-20-3
Dimethoate	60-51-5
3,3'-Dimethoxybenzidine	119-90-4
Dimethylamine	124-40-3
4-(Dimethylamino)azobenzene	60-11-7
7,12-Dimethylbenz(a)anthracene	57-97-6
Dimethylbenzylammonium chloride	1875-92-9
trans-1,4-Dimethylcyclohexane	2207-04-7
Dimethyldioxane	25136-55-4
Dimethyldithiocarbamate	79-45-8
Dimethylethylbenzylammonium chloride	5197-80-8
2,5-Dimethylfuran	625-86-5
1,1-Dimethylhydrazine	57-14-7
1,2-Dimethylhydrazine	540-73-8

TABLE 3 (Continued)

PARTIAL LIST OF SUBSTANCES NOT REGULATED BY THE PRINCIPAL ORGANIC CONTAMINANT (POC) GROUNDWATER STANDARD

JUNE 1998

Note: Refer to Text of Part I for Explanation

(No standard or guidance value for groundwater is available for these substances as of the date of this document)

SUBSTANCE	CAS NO.
Dimethylphenylcarbinol	617-94-7
Dimethylterephthalate	120-61-6
1,4-Dioxane	123-91-1
Dodecanoic acid	143-07-7
Endosulfan I	959-98-8
Endosulfan II	33213-65-9
Endosulfan sulfate	1031-07-8
Epichlorohydrin	106-89-8
Ethion	563-12-2
2-Ethoxyethanol	110-80-5
2-Ethoxyethanol acetate	111-15-9
Ethyl acetate	141-78-6
Ethyl acrylate	140-88-5
Ethyl di-n-propylthiocarbamate (EPTC)	759-96-4
Ethylene cyanohydrin	109-78-4
Ethyl ether	60-29-7
Ethyl methacrylate	97-63-2
Ethyl methane sulfonate	62-50-0
Famphur	52-85-7
Formaldehyde	50-00-0
Formic acid	64-18-6
Furan	110-00-9

TABLE 3 (Continued)

PARTIAL LIST OF SUBSTANCES NOT REGULATED BY THE PRINCIPAL ORGANIC CONTAMINANT (POC) GROUNDWATER STANDARD

JUNE 1998

Note: Refer to Text of Part I for Explanation

(No standard or guidance value for groundwater is available for these substances as of the date of this document)

SUBSTANCE	CAS NO.
Furazolidone	67-45-8
Furfural	98-01-1
Furium	531-82-8
Glycidaldehyde	765-34-4
n-Heptane	142-82-5
1-Heptanol	111-70-6
2-Heptanol	543-49-7
3-Heptanol	589-82-2
4-Heptanol	589-55-9
Hexamethylene diamine	124-09-4
Hexanate	25056-70-6
n-Hexane	110-54-3
3-Hexanone	589-38-8
Hydrazine	302-01-2
3-Hydroxycarbofuran	16655-82-6
alpha-Hydroxy-alpha-methylbenzeneacetic acid	515-30-0
1,3-Isobenzofurandione	85-44-9
1(3H)-Isobenzofuranone	87-41-2
Isobutyl alcohol	78-83-1
Isodecyl diphenylphosphate	29761-21-5
Isopropyl alcohol	67-63-0
Isopropylamine	75-31-0

TABLE 3 (Continued)

PARTIAL LIST OF SUBSTANCES NOT REGULATED BY THE PRINCIPAL ORGANIC CONTAMINANT (POC) GROUNDWATER STANDARD

JUNE 1998

Note: Refer to Text of Part I for Explanation

(No standard or guidance value for groundwater is available for these substances as of the date of this document)

SUBSTANCE	CAS NO.
Isopropylbenzene hydroperoxide	80-15-9
Isosafrole	120-58-1
Isothiazolones	NA
Linear alkylbenzenesulfonates	NA
Linuron	330-55-2
2,5-Lutidine	589-93-5
Maleic anhydride	108-31-6
Maleic hydrazide	123-33-1
Malononitrile	109-77-3
Methacrylamide	79-39-0
Methanol	67-56-1
Methapyrilene	91-80-5
2-Methoxyethanol	109-86-4
2-Methoxyethanol acetate	110-49-6
2-Methoxy-5-nitroaniline	99-59-2
Methyl acetate	79-20-9
Methylacrylate	96-33-3
Methylamine	74-89-5
2-Methylanthracene	613-12-7
9-Methylanthracene	779-02-2
2-Methylbenzaldehyde	529-20-4
3-Methylbenzaldehyde	620-23-5

TABLE 3 (Continued)

PARTIAL LIST OF SUBSTANCES NOT REGULATED BY THE PRINCIPAL ORGANIC CONTAMINANT (POC) GROUNDWATER STANDARD

JUNE 1998

Note: Refer to Text of Part I for Explanation

(No standard or guidance value for groundwater is available for these substances as of the date of this document)

SUBSTANCE	CAS NO.
4-Methylbenzaldehyde	104-87-0
4-Methylbenzenemethanol	589-18-4
2-Methyl benzene sulfonamide	88-19-7
4-Methyl benzene sulfonamide	70-55-3
2-Methylbenzoic acid	118-90-1
3-Methylbenzoic acid	99-04-7
Methyl tert-butyl ether	1634-04-4
3-Methylcholanthrene	56-49-5
Methylcyclopentane	96-37-7
Methylmethanesulfonate	66-27-3
1-Methyl-4-(1-methylethenyl)cyclohexene	138-86-3
2-Methylnaphthalene	91-57-6
Methylolmethacrylamide	923-02-4
4-Methyl-2-pentanone	108-10-1
Methylphthalate	4376-18-5
Metolachlor	51218-45-2
Molinate	2212-67-1
1,4-Naphthoquinone	130-15-4
1-Napthylamine	134-32-7
2-Napthylamine	91-59-8
Nitrocyclohexane	1122-60-7
Nitrofurantoin	67-20-9

TABLE 3 (Continued)

PARTIAL LIST OF SUBSTANCES NOT REGULATED BY THE PRINCIPAL ORGANIC CONTAMINANT (POC) GROUNDWATER STANDARD

JUNE 1998

Note: Refer to Text of Part I for Explanation

(No standard or guidance value for groundwater is available for these substances as of the date of this document)

SUBSTANCE	CAS NO.
Nitrofurazone	59-87-0
2-Nitropropane	79-46-9
4-Nitroquinoline-1-oxide	56-57-5
N-Nitrosodi-N-butylamine	924-16-3
N-Nitrosodiethylamine	55-18-5
N-Nitrosodimethylamine	62-75-9
N-Nitrosodipropylamine	621-64-7
N-Nitrosomethylethylamine	10595-95-6
N-Nitroso-N-methyl urea	684-93-5
N-Nitrosomorpholine	59-89-2
N-Nitrosopiperidine	100-75-4
N-Nitrosopyrrolidine	930-55-2
Nonanal	124-19-6
1-Nonanol	143-08-8
Octamethylpyrophosphoramine	152-16-9
Oxalic acid, benzyl ester	35448-14-7
Pebulate	1114-71-2
Pentanate	136-25-4
Phenacetin	62-44-2
alpha-Picoline	109-06-8
Polybutene(1-propene,2-methyl homopolymer)	9003-27-4
Prodiamine	29091-21-2

TABLE 3 (Continued)

PARTIAL LIST OF SUBSTANCES NOT REGULATED BY THE PRINCIPAL ORGANIC CONTAMINANT (POC) GROUNDWATER STANDARD

JUNE 1998

Note: Refer to Text of Part I for Explanation

(No standard or guidance value for groundwater is available for these substances as of the date of this document)

SUBSTANCE	CAS NO.
Profluralin	26399-36-0
Pronamide	23950-58-5
1-Propanol	71-23-8
1-Propene	115-07-1
Propionitrile	107-12-0
Propylene glycol	58-55-6
Propylene glycol monoethyl ether	19089-47-5
Propylene glycol monomethyl ether	1589-49-7
Propylene oxide	75-56-9
Quaternary ammonium compounds	NA
Quinoline	91-22-5
1,4-Quinone dioxide	105-11-3
Reserpine	50-55-5
Rhodamine WT	37299-86-8
Ronnel	299-84-3
Rotenone	83-79-4
Safrole	94-59-7
Sodium adipate, disodium salt	7486-38-6
Sodium diethyldithiocarbamate	148-18-5
Strychnine	57-24-9
Tetraethyl dithiopyrophosphate	3689-24-5
Tetraethyl lead	78-00-2
Tetraethyl tin	597-64-8

TABLE 3 (Continued)

PARTIAL LIST OF SUBSTANCES NOT REGULATED BY THE PRINCIPAL ORGANIC CONTAMINANT (POC) GROUNDWATER STANDARD

JUNE 1998

Note: Refer to Text of Part I for Explanation

(No standard or guidance value for groundwater is available for these substances as of the date of this document)

SUBSTANCE	CAS NO.
2-(Thiocyanomethylthio) benzothiazole	21564-17-0
Thiofanox	39196-18-4
Thiourea	62-56-6
Toluene diisocyanate	584-84-9
Triallate	2303-17-5
Trichloroacetic acid	76-03-9
alpha, alpha, alpha-Trichlorotoluene	98-07-7
Triethylamine	121-44-8
o,o,o-Triethylphosphorothioate	126-68-1
3,3,5-Trimethylcyclohexanone	873-94-9
Trimethyl phosphate	512-56-1
Vernolate	1929-77-7
Vinyl acetate	108-05-4
Warfarin	81-81-2
NA = Not Applicable	

TABLE 4

DEFINITION FOR PRINCIPAL ORGANIC CONTAMINANT CLASSES*

(excerpted from 6 NYCRR Section 700.1)

JUNE 1998

Principal organic contaminant classes means the following classes of organic chemicals.

(1) Halogenated alkane: Compound containing carbon (C), hydrogen (H) and halogen (X) where X = fluorine (F), chlorine (Cl), bromine (Br) and/or iodine (I), having the general formula $C_nH_yX_z$, where y + z = 2n + 2; n, y and z are integer variables; n and z are equal to or greater than one and y is equal to or greater than zero. Specifically excluded from this class are chloroform, bromoform, bromodichloromethane and dibromochloromethane.

(2) Halogenated ether: Compound containing carbon (C), hydrogen (H), oxygen (O) and halogen (X) (where X = F, Cl, Br and/or I) having the general formula $C_nH_yX_zO$, where y + z = 2n + 2; the oxygen is bonded to two carbons; n, y and z are integer variables; n is equal to or greater than two, y is equal to or greater than zero and z is equal to or greater than one.

(3) Halobenzenes and substituted halobenzenes: Derivatives of benzene which have at least one halogen atom attached to the ring and which may or may not have straight or branched chain hydrocarbon, nitrogen or oxygen substituents.

(4) Benzene and alkyl- or nitrogen-substituted benzenes: Benzene or a derivative of benzene which has either an alkyl- and/or a nitrogen-substituent.

(5) Substituted, unsaturated hydrocarbons: A straight or branched chain unsaturated hydrocarbon compound containing one of the following: halogen, aldehyde, nitrile, amide.

(6) Halogenated non-aromatic cyclic hydrocarbons: A non-aromatic cyclic compound containing a halogen.

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*Note: Determining the applicability of the POC groundwater standard to a specific substance can be a complex process that should not be undertaken using these definitions alone. Refer to Section III of the Introduction of this TOGS (page 7) for instructions.

PART II GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

The Division of Water (DOW) regulates point source discharges to class GA groundwater primarily through the use of effluent limitations that have been established statewide. These effluent limitations are set at concentrations that should prevent contaminants from exceeding ambient groundwater standards and guidance values, which are applicable in the saturated zone. Class GA groundwaters are all fresh groundwaters. Groundwater effluent limitations are provided in Table 5 and discussed in this Part. (Ambient standards and guidance values that relate to these effluent limitations were provided in Table 1 of this TOGS and described in Part I).

A. DEFINITIONS

This section presents definitions for key terms that are used in the text and tables. The definitions are similar to the ones that appear in regulation, Part 700. Additional explanation is provided where appropriate.

1. "Groundwaters" mean those waters in saturated zones.

2. "Saturated zones" mean any extensive portion of the earth's crust that contains sufficient water to fill all interconnected voids or pore space.

3. "Fresh groundwaters" mean those groundwaters having a chloride concentration equal to or less than 250 mg/L or a total dissolved solids concentration equal to or less than 1,000 mg/L.

4. "Saline groundwaters" mean groundwaters having a chloride concentration of more than 250 mg/L or a total dissolved solids concentration of more than 1,000 mg/L.

5. "Groundwater standards" and "groundwater guidance values" both mean such measures of purity or quality for any groundwaters in relation to their reasonable and necessary use. "Groundwater standards" are established by the Department pursuant to section 17-0301 of the Environmental Conservation Law, which means the values are included in regulation. "Groundwater guidance values" are established by the Department pursuant to section 702.1 of Title 6, which means the specific values are not in regulation.

   Such standards and guidance values are often referred to as <u>ambient</u> values in this document to emphasize that they apply to samples of groundwater and are distinct from <u>effluent</u> limitations, which apply to samples of wastewater at the point of discharge.

6. "Groundwater effluent limitations" mean any restriction on quantities, qualities, rates and concentrations of chemical, physical, biological, and other constituents of effluents that are discharged into or allowed to run from an outlet or point source or any other discharge within the meaning of section 17-0501 of the Environmental Conservation Law into groundwater or unsaturated zones. Some groundwater effluent limitations are in regulation (703.6); the remainder are guidance.

B. GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

A groundwater effluent limitation is derived to prevent a contaminant from exceeding the ambient standard or guidance value in the saturated zone. An effluent limitation generally is set at or near the ambient value, partly on the assumption that for many toxic substances, sustained high percent removal in the unsaturated zone cannot be relied upon. The approach used provides a high degree of certainty that the ambient value will not be exceeded and also avoids the need for site-specific evaluations, which would be technically difficult, costly and time consuming.

Groundwater effluent limitations are presented in Table 5, alphabetically by substance. The same substance names as in Table 1 are used. The reader is cautioned that, as for ambient values, groundwater effluent limitations may apply to substances that may be identified only by a group entry, including "Principal organic contaminant." Guidance in Part I, Sections A and B should be useful to determining whether an effluent limitation exists for a particular substance.

The second column lists the groundwater effluent limitation in ug/L, unless otherwise noted. The third column, entitled "Category," provides information about the basis for the effluent limitation. (The Category is not the same as the Basis Code in Table 1.) The five Categories are as follows:

Category A Effluent limitations that are in regulation (6 NYCRR 703.6)

Category B Effluent limitations that are numerically equal to ambient guidance values, as provided in 702.16(c)(1).

Category C Effluent limitations that are derived in this document for substances that have an ambient standard, but no corresponding effluent limitation in 703.6. (For organic substances, the effluent limitations have been set equal to the ambient standards. For metals, the effluent limitations have been set at twice the ambient standard.)

Category D Effluent limitations for sodium and ammonia require case-by-case determinations. Significant removal of these substances can occur in the unsaturated zone and will be a function of site-specific factors.

Also, as indicated in Table 5, effluent limitations for radiological parameters will be established through Radiation Control Permits, Part 380.

As listed under "Organic substances, total" in Table 5, an effluent limitation of 100 ug/L for the total of certain organic substances is applicable, as provided in 702.16(c)(4). The substances that can be specified for this limitation are those organic substances that have an ambient groundwater standard or guidance value less than 100 ug/L. This includes all substances covered by the principal organic contaminant (POC) groundwater standard (Table 1) and other applicable "group" entries, whether they are listed individually in this TOGS or not.

C. IMPLEMENTATION OF GROUNDWATER EFFLUENT LIMITATIONS

1. Gross or Net Limitations.

Effluent limitations as listed in Table 5 are defined as gross limitations (i.e., without mathematical subtraction of the amounts present in intake water). These gross effluent limitations, however, may not be appropriate where the concentration of a substance in the receiving aquifer exceeds the effluent limitation. General guidance for these situations is provided in other TOGS documents relating to the preparation of SPDES permits.

2. Modifications of Effluent Limitations

Section 702.19 allows, under certain conditions, modification of a groundwater effluent limitation. This includes those effluent limitations in 703.6 and those derived as numerically equivalent to a H(WS) Type guidance value. The included limitations are thus those designated as Categories A and B in Table 5. Such modifications may be allowed where the applicant demonstrates that a less restrictive effluent limitation will be sufficient to prevent groundwater concentrations from exceeding the ambient value. SPDES applications for such modifications are governed by the Uniform Procedures Act and require public notice of the proposed modification.

3. Exceptions to Effluent Limitations

The water quality regulations, section 702.21, provide exceptions for three activities to the requirement to impose the numerical effluent limitations in Table 5. Effluent limitations for the two point source activities, i.e., certain sewage and land application systems, should be determined on a case-by-case basis to achieve or maintain ambient standards and guidance values.

Table 5

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
Acenaphthene (83-32-9)	20	B
Acetone (67-64-1)	50	B
Acrolein (107-02-8)	5	C
Acrylamide (79-06-1)	5	C
Acrylic acid (79-10-7)	50	B
Acrylonitrile (107-13-1)	5	C
Alachlor (15972-60-8)	0.5	A
Aldicarb (116-06-3)	*	
Remark: * See "Aldicarb and Methomyl."		
Aldicarb and Methomyl (116-06-3;16752-77-5)	0.35	A
Aldicarb sulfone (1646-88-4)	2	B
Aldicarb sulfoxide (1646-87-3)	4	B
Aldrin (309-00-2)	ND	A
Alkyl dimethyl benzyl ammonium chloride (68391-01-5)	50	B
Alkyl diphenyl oxide sulfonates (CAS No. Not Applicable)	50*	B
Remark: * Applies to each alkyl diphenyl oxide sulfonate individually.		
Allyl chloride (107-05-1)	5	C
Aluminum (CAS No. Not Applicable)	2,000	A
Ametryn (834-12-8)	50	C
4-Aminobiphenyl (92-67-1)	5	C
Aminocresols (95-84-1; 2835-95-2; 2835-99-6)	*	
Remark: * See "Phenolic compounds (total phenols)."		
Aminomethylene phosphonic acid salts (CAS No. Not Applicable)	50*	B
Remark: * Applies to each aminomethylene phosphonic acid salt individually.		
Aminopyridines (462-08-8; 504-24-5; 504-29-0; 26445-05-6)	1*	B
Remark: * Applies to the sum of these substances.		
3-Aminotoluene (108-44-1)	5	C
4-Aminotoluene (106-49-0)	5	C

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
Ammonia and Ammonium (7664-41-7; CAS No. Not Applicable)	*	D
Remark: * NH_3 + NH_4^+ as N. Case-by-case determination of need and quantity.		
Aniline (62-53-3)	5	C
Anthracene (120-12-7)	50	B
Antimony (CAS No. Not Applicable)	6	A
Arsenic (CAS No. Not Applicable)	50	A
Aryltriazoles (CAS No. Not Applicable)	50*	B
Remark: * Applies to each aryltriazole individually.		
Asbestos (fibers > 10 um) (CAS No. Not Applicable)	14,000,000 fibers/L	A
Atrazine (1912-24-9)	7.5	A
Azinphosmethyl (86-50-0)	4.4	A
Azobenzene (103-33-3)	5	C
Barium (CAS No. Not Applicable)	2,000	A
Benefin (1861-40-1)	35	A
Benz(a)anthracene (56-55-3)	0.002	B
Benzene (71-43-2)	1	A
Benzidine (92-87-5)	5	C
Benzisothiazole (271-61-4)	50	B
Benzo(b)fluoranthene (205-99-2)	0.002	B
Benzo(k)fluoranthene (207-08-9)	0.002	B
Benzo(a)pyrene (50-32-8)	ND	A
Beryllium (CAS No. Not Applicable)	3	B
1,1'-Biphenyl (92-52-4)	5	C
Bis(2-chloroethoxy)methane (111-91-1)	5	C
Bis(2-chloroethyl)ether (111-44-4)	1.0	A
Bis(chloromethyl)ether (542-88-1)	5	C
Bis(2-chloro-1-methylethyl)ether (108-60-1)	5	C

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
Bis(2-ethylhexyl)phthalate (117-81-7)	5	A
Boric acid, Borates & Metaborates (CAS No. Not Applicable)	125*	B
Remark: * Applies as boron equivalents to the sum of these substances.		
Boron (CAS No. Not Applicable)	2,000	C
Bromacil (314-40-9)	4.4	A
Bromide (CAS No. Not Applicable)	2,000	B
Bromobenzene (108-86-1)	5	C
Bromochloromethane (74-97-5)	5	C
Bromodichloromethane (75-27-4)	50	B
Bromoform (75-25-2)	50	B
Bromomethane (74-83-9)	5	C
Butachlor (23184-66-9)	3.5	A
cis-2-Butenal (15798-64-8)	5	C
trans-2-Butenal (123-73-9)	5	C
cis-2-Butenenitrile (1190-76-7)	5	C
trans-2-Butenenitrile (627-26-9)	5	C
Butoxyethoxyethanol (112-34-5)	50	B
Butoxypropanol (5131-66-8)	50	B
Butylate (2008-41-5)	50	C
n-Butylbenzene (104-51-8)	5	C
sec-Butylbenzene (135-98-8)	5	C
tert-Butylbenzene (98-06-6)	5	C
Butyl benzyl phthalate (85-68-7)	50	B
Butyl isopropyl phthalate (CAS No. Not Applicable)	50	B
Cadmium (CAS No. Not Applicable)	10	A
Captan (133-06-2)	18	A
Carbaryl (63-25-2)	29	A

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
Carbofuran (1563-66-2)	15	B
Carbon tetrachloride (56-23-5)	5	A
Carboxin (5234-68-4)	50	C
Chloramben (CAS No. Not Applicable)	50*	A
Remark: * Includes related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.		
Chloranil (118-75-2)	5	C
Chlordane (57-74-9)	0.05	A
Chloride (CAS No. Not Applicable)	500,000	A
Chlorinated dibenzo-p-dioxins and Chlorinated dibenzofurans (CAS No. Not Applicable)	7×10^{-7} equivalents of 2,3,7,8-TCDD*	A
Remark: * Value is for the total of the chlorinated dibenzo-p-dioxins and chlorinated dibenzofurans as equivalents of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) as specified by the ambient Class GA H(WS) standard in Table 1 of this document.		
2-Chloroaniline (95-51-2)	5	C
3-Chloroaniline (108-42-9)	5	C
4-Chloroaniline (106-47-8)	5	C
Chlorobenzene (108-90-7)	5	C
4-Chlorobenzotrifluoride (98-56-6)	5	C
1-Chlorobutane (109-69-3)	5	C
Chloroethane (75-00-3)	5	C
Chloroform (67-66-3)	7	A
Chloromethyl methyl ether (107-30-2)	5	C
2-Chloronaphthalene (91-58-7)	10	B
2-Chloronitrobenzene (88-73-3)	5	C
3-Chloronitrobenzene (121-73-3)	5	C
4-Chloronitrobenzene (100-00-5)	5	C
Chloroprene (126-99-8)	5	C
Chlorothalonil (1897-45-6)	5	C

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
2-Chlorotoluene (95-49-8)	5	C
3-Chlorotoluene (108-41-8)	5	C
4-Chlorotoluene (106-43-4)	5	C
4-Chloro-o-toluidine (95-69-2)	5	C
5-Chloro-o-toluidine (95-79-4)	5	C
3-Chloro-1,1,1-trifluoropropane (460-35-5)	5	C
Chromium (CAS No. Not Applicable)	100	C
Chromium (hexavalent) (CAS No. Not Applicable)	100	A
Chrysene (218-01-9)	0.002	B
Copper (CAS No. Not Applicable)	1,000	A
Cyanide (CAS No. Not Applicable)	400	A
Cyanogen bromide (506-68-3)	5	C
Cyanogen chloride (506-77-4)	5	C
Dalapon (CAS No. Not Applicable)	50*	C
Remark: * Includes related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.		
p,p'-DDD (72-54-8)	0.3	A
p,p'-DDE (72-55-9)	0.2	A
p,p'-DDT (50-29-3)	0.2	A
Dechlorane Plus (13560-89-9)	5	C
Diazinon (333-41-5)	0.7	A
1,2-Dibromobenzene (583-53-9)	5	C
1,3-Dibromobenzene (108-36-1)	5	C
1,4-Dibromobenzene (106-37-6)	5	C
Dibromochloromethane (124-48-1)	50	B
1,2-Dibromo-3-chloropropane (96-12-8)	0.04	A
Dibromodichloromethane (594-18-3)	5	C
Dibromomethane (74-95-3)	5	C

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
2,2-Dibromo-3-nitrilopropionamide (10222-01-2)	50	B
Di-n-butyl phthalate (84-74-2)	50	A
Dicamba (1918-00-9)	0.44	A
Dichlorobenzenes (95-50-1;541-73-1;106-47-6)	3*	A
Remark: * Applies to each dichlorobenzene individually.		
3,3'-Dichlorobenzidine (91-94-1)	5	C
3,4-Dichlorobenzotrifluoride (328-84-7)	5	C
cis-1,4-Dichloro-2-butene (1476-11-5)	5	C
trans-1,4-Dichloro-2-butene (110-57-6)	5	C
Dichlorodifluoromethane (75-71-8)	5	C
1,1-Dichloroethane (75-34-3)	5	C
1,2-Dichloroethane (107-06-2)	0.6	A
1,1-Dichloroethene (75-35-4)	5	C
cis-1,2-Dichloroethene (156-59-2)	5	C
trans-1,2-Dichloroethene (156-60-5)	5	C
Dichlorofluoromethane (75-43-4)	5	C
2,4-Dichlorophenol (120-83-2)	*	
Remark: * See “Phenolic compounds (total phenols).”		
2,4-Dichlorophenoxyacetic acid (94-75-7)	50	A
1,1-Dichloropropane (78-99-9)	5	C
1,2-Dichloropropane (78-87-5)	1	A
1,3-Dichloropropane (142-28-9)	5	C
2,2-Dichloropropane (594-20-7)	5	C
1,1-Dichloropropene (563-58-6)	5	C
1,3-Dichloropropene (sum of cis- and trans- isomers) (542-75-6)	0.4	A
2,3-Dichlorotoluene (32768-54-0)	5	C
2,4-Dichlorotoluene (95-73-8)	5	C

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
2,5-Dichlorotoluene (19398-61-9)	5	C
2,6-Dichlorotoluene (118-69-4)	5	C
3,4-Dichlorotoluene (95-75-0)	5	C
3,5-Dichlorotoluene (25186-47-4)	5	C
Dieldrin (60-57-1)	0.004	A
Di(2-ethylhexyl)adipate (103-23-1)	20	A
Diethyl phthalate (84-66-2)	50	B
1,2-Difluoro-1,1,2,2-tetrachloroethane (76-12-0)	5	C
1,2-Diisopropylbenzene (577-55-9)	5	C
1,3-Diisopropylbenzene (99-62-7)	5	C
1,4-Diisopropylbenzene (100-18-5)	5	C
N,N-Dimethylaniline (121-69-7)	1	A
2,3-Dimethylaniline (87-59-2)	5	C
2,4-Dimethylaniline (95-68-1)	5	C
2,5-Dimethylaniline (95-78-3)	5	C
2,6-Dimethylaniline (87-62-7)	5	C
3,4-Dimethylaniline (95-64-7)	5	C
3,5-Dimethylaniline (108-69-0)	5	C
3,3'-Dimethylbenzidine (119-93-7)	5	C
4,4'-Dimethylbibenzyl (538-39-6)	5	C
4,4'-Dimethyldiphenylmethane (4957-14-6)	5	C
Dimethylformamide (68-12-2)	50	B
alpha, alpha-Dimethyl phenethylamine (122-09-8)	5	C
2,4-Dimethylphenol (105-67-9) Remark: * See "Phenolic compounds (total phenols)."	*	
Dimethyl phthalate (131-11-3)	50	B

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
2,4-Dinitrophenol (51-28-5) Remark: * See "Phenolic compounds (total phenols)."	*	
Dimethyl tetrachloroterephthalate (1861-32-1)	50	C
1,3-Dinitrobenzene (99-65-0)	5	C
2,3-Dinitrotoluene (602-01-7)	5	C
2,4-Dinitrotoluene (121-14-2)	5	C
2,5-Dinitrotoluene (619-15-8)	5	C
2,6-Dinitrotoluene (606-20-2)	5	C
3,4-Dinitrotoluene (610-39-9)	5	C
3,5-Dinitrotoluene (618-85-9)	5	C
Di-n-octyl phthalate (117-84-0)	50	B
Dinoseb (88-85-7) Remark: * See "Phenolic compounds (total phenols)."	*	
Diphenamid (957-51-7)	50	C
Diphenylamine (122-39-4)	5	C
1,1-Diphenylhydrazine (530-50-7)	ND	C
1,2-Diphenylhydrazine (122-66-7)	ND	A
Diquat (2764-72-9)	20	A
Dissolved solids, total (CAS No. Not Applicable) Remark: * 1,000 mg/L; applies only in the counties of Nassau and Suffolk.	*	A
Disulfoton (298-04-4) Remark: * See "Phorate and Disulfoton."	*	
Dodecylguanidine acetate and Dodecylguanidine hydrochloride (2439-10-3; 13590-97-1) Remark: * Applies to the sum of these substances.	50*	B
Dyphylline (479-18-5)	50	B
Endothall (145-73-3)	50	B

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
Endrin (72-20-8)	ND	A
Endrin aldehyde (7421-93-4)	5	C
Endrin ketone (53494-70-5)	5	C
Ethylbenzene (100-41-4)	5	C
Ethylene chlorohydrin (107-07-3)	50	B
Ethylene dibromide (106-93-4)	6×10^{-4}	A
Ethylene glycol (107-21-1)	50	B
Ethylene oxide (75-21-8)	0.05	B
Ethylenethiourea (96-45-7)	ND	A
Ferbam (14484-64-1)	4.2	A
Fluometuron (2164-17-2)	50	C
Fluoranthene (206-44-0)	50	B
Fluorene (86-73-7)	50	B
Fluoride (CAS No.Not Applicable)	3,000	A
Foaming agents (CAS No. Not Applicable)	1,000*	A
Remark: * Determined as methylene blue active substances (MBAS) or by other tests as specified by the commissioner.		
Folpet (133-07-3)	50	A
Glyphosate (1071-83-6)	50	B
Gross alpha radiation (CAS No. Not Applicable)	*	
Remark: * Established through Radiation Control Permits (Part 380).		
Gross beta radiation (CAS No. Not Applicable)	*	
Remark: * Established through Radiation Control Permits (Part 380).		
Guaifenesin (93-14-1)	50	B
Heptachlor (76-44-8)	0.04	A
Heptachlor epoxide (1024-57-3)	0.03	A
Hexachlorobenzene (118-74-1)	0.04	A
Hexachlorobutadiene (87-68-3)	0.5	A

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
alpha-Hexachlorocyclohexane (319-84-6)	0.01	A
beta-Hexachlorocyclohexane (319-85-7)	0.04	A
delta-Hexachlorocyclohexane (319-86-8)	0.04	A
epsilon-Hexachlorocyclohexane (6108-10-7)	0.04	A
gamma-Hexachlorocyclohexane (58-89-9)	0.05	A
Hexachlorocyclopentadiene (77-47-4)	5	C
Hexachloroethane (67-72-1)	5	C
Hexachlorophene (70-30-4) Remark: * See "Phenolic compounds (total phenols)."	*	
Hexachloropropene (1888-71-7)	5	C
2-Hexanone (591-78-6)	50	B
Hexazinone (51235-04-2)	50	C
Hydrogen sulfide (7783-06-4) Remark: * See "Sulfides, total."	*	
Hydroquinone (123-31-9) Remark: * See "Phenolic compounds (total phenols)."	*	
1-Hydroxyethylidene-1,1-diphosphonic acid (2809-21-4)	50	B
2-(2-Hydroxy-3,5-di-tert-pentylphenyl)-benzotriazole (25973-55-1) Remark: * See "Phenolic compounds (total phenols)."	*	
Indeno (1,2,3-cd) pyrene (193-39-5)	0.002	B
Iron (CAS No. Not Applicable) Remark: * Also see "Iron and Manganese."	600*	A
Iron and Manganese (CAS No. Not Applicable) Remark: * Applies to the sum of these substances.	1,000*	A
Isodrin (465-73-6)	5	C
Isophorone (78-59-1)	50	B
Isopropalin (33820-53-0)	5	C

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
Isopropylbenzene (98-82-8)	5	C
2-Isopropyltoluene (527-84-4)	5	C
3-Isopropyltoluene (535-77-3)	5	C
4-Isopropyltoluene (99-87-6)	5	C
Kepone (143-50-0)	ND	A
Lead (CAS No. Not Applicable)	50	A
Magnesium (CAS No. Not Applicable)	35,000	B
Malathion (121-75-5)	7.0	A
Mancozeb (8018-01-7)	1.8	A
Maneb (12427-38-2)	1.8	A
Manganese (CAS No. Not Applicable) Remark: * Also see "Iron and Manganese."	600*	A
Mercaptobenzothiazole (149-30-4)	50	B
Mercury (CAS No. Not Applicable)	1.4	A
Methacrylic acid (79-41-4)	50	B
Methacrylonitrile (126-98-7)	5	C
Methomyl (16752-77-5) Remark: * See "Aldicarb and Methomyl."	*	
Methoxychlor (72-43-5)	35	A
(1-Methoxyethyl) benzene (4013-34-7)	50	B
(2-Methoxyethyl) benzene (3558-60-9)	50	B
N-Methylaniline (100-61-8)	5	C
Methylbenz(a)anthracenes (CAS No. Not Applicable) Remark: * Applies to the sum of these substances.	0.002*	B
Methyl chloride (74-87-3)	5	C
2-Methyl-4-chlorophenoxyacetic acid (94-74-6)	0.44	A
4,4'-Methylene-bis-(2-chloroaniline) (101-14-4)	5	C

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
4,4'-Methylene-bis-(N-methyl)aniline (1807-55-2)	5	C
4,4'-Methylene-bis-(N,N'-dimethyl) aniline (101-61-1)	5	C
Methylene bisthiocyanate (6317-18-6)	50	B
Methylene chloride (dichloromethane) (75-09-2)	5	A
4-(1-Methylethoxy)-1-butanol (31600-69-8)	50	B
2-Methylethyl-1,3-dioxolane (126-39-6)	50	B
Methyl ethyl ketone (78-93-3)	50	B
Methyl iodide (74-88-4)	5	C
Methyl methacrylate (80-62-6)	50	A
Methyl parathion (298-00-0)	*	
Remark: * See "Parathion and Methyl parathion."		
alpha-Methylstyrene (98-83-9)	5	C
2-Methylstyrene (611-15-4)	5	C
3-Methylstyrene (100-80-1)	5	C
4-Methylstyrene (622-97-9)	5	C
Metribuzin (21087-64-9)	50	C
Mirex (2385-85-5)	0.03	A
Nabam (142-59-6)	1.8	A
Naphthalene (91-20-3)	10	B
Niacinamide (98-92-0)	500	B
Nickel (CAS No. Not Applicable)	200	A
Nitralin (4726-14-1)	35	A
Nitrate (expressed as N) (CAS No. Not Applicable)	20,000	A
Nitrate and Nitrite (expressed as N) (CAS No. Not Applicable)	20,000	A
Nitrilotriacetic acid (CAS No. Not Applicable)	3*	A
Remark: * Includes related forms that convert to nitrilotriacetic acid upon acidification to a pH of 2.3 or less."		
Nitrite (expressed as N) (CAS No. Not Applicable)	2,000	A

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
2-Nitroaniline (88-74-4)	5	C
3-Nitroaniline (99-09-2)	5	C
4-Nitroaniline (100-01-6)	5	C
Nitrobenzene (98-95-3)	0.4	A
Nitrogen, total (expressed as N) (CAS No. Not Applicable)	10,000*	A
Remark: * Applies only in the counties of Nassau and Suffolk.		
N-Nitrosodiphenylamine (86-30-6)	50	B
2-Nitrotoluene (88-72-2)	5	C
3-Nitrotoluene (99-08-1)	5	C
4-Nitrotoluene (99-99-0)	5	C
5-Nitro-o-toluidine (99-55-8)	5	C
Octachlorostyrene (29082-74-4)	0.2	A
Oil and Grease (CAS No. Not Applicable)	15,000*	A
Remark: * Applies to the sum of oil and grease.		
Organic substances, total (CAS No. Not Applicable)	100*	
Remark: * This value applies to the total of all organic substances listed in this Table with a groundwater effluent limitation less than 100 ug/L. Included in the total are all organic substances covered by the principal organic contaminant value and those in other “group” entries, whether or not the substances are individually listed in this Table.		
Oxamyl (23135-22-0)	50	C
Paraquat (4685-14-7)	3.0	A
Parathion (56-38-2)	*	
Remark: * See “Parathion and Methyl parathion.”		
Parathion and Methyl parathion (56-38-2; 298-00-0)	1.5*	A
Remark: * Applies to the sum of these substances.		
Pendimethalin (40487-42-1)	5	C
Pentachlorobenzene (608-93-5)	5	C
Pentachloroethane (76-01-7)	5	C

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
Pentachloronitrobenzene (82-68-8)	ND	A
Pentachlorophenol (87-86-5)	*	
Remark: * See "Phenolic compounds (total phenols)."		
pH (CAS No. Not Applicable)	*	A
Remark: * pH shall not be lower than 6.5 or the pH of the natural groundwater, whichever is lower, nor shall be greater than 8.5 or the pH of the natural groundwater, whichever is greater.		
Phenanthrene (85-01-8)	50	B
Phenol (108-95-2)	*	
Remark: * See "Phenolic compounds (total phenols)."		
Phenolic compounds (total phenols) (CAS No. Not Applicable)	2*	A
Remark: * Applies to the sum of these substances.		
Phenols, total chlorinated (CAS No. Not Applicable)	*	
Remark: * See "Phenolic compounds (total phenols)."		
Phenols, total unchlorinated (CAS No. Not Applicable)	*	
Remark: * See "Phenolic compounds (total phenols)."		
1,2-Phenylenediamine (95-54-5)	5	C
1,3-Phenylenediamine (108-45-2)	5	C
1,4-Phenylenediamine (106-50-3)	5	C
Phenyl ether (101-84-8)	10	B
Phenylhydrazine (100-63-0)	5	C
Phenylpropanolamine (14838-15-4)	50	B
3-Phenyl-1-propene (637-50-3)	5	C
cis-1-Phenyl-1-propene (766-90-5)	5	C
trans-1-Phenyl-1-propene (873-66-5)	5	C
Phorate (298-02-2)	*	
Remark: * See "Phorate and Disulfoton."		

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
Phorate and Disulfoton (298-02-2; 298-04-4)	ND*	A
Remark: * Applies to the sum of these substances.		
Picloram (CAS No. Not Applicable)	50*	C
Remark: * Includes: related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid.		
Polybrominated biphenyls (CAS No. Not Applicable)	5*	C
Remark: * Applies to each congener individually.		
Polychlorinated biphenyls (CAS No. Not Applicable)	0.09*	A
Remark: * Applies to the sum of these substances.		
Principal organic contaminant (CAS No. Not Applicable)	5*	C
Remark: * Applies to each individual substance to which the principal organic contaminant (POC) class GA ambient groundwater standard applies (whether listed in this TOGS or not) <u>except</u> for those substances with a groundwater effluent limitation other than 5 ug/L listed in this Table. For the convenience of the reader, the groundwater effluent limitations of 5 ug/L for <u>some</u> (but not all) individual POCs are listed in this Table.		
Prometon (1610-18-0)	50	C
Propachlor (1918-16-7)	35	A
Propanil (709-98-8)	7.0	A
Propazine (139-40-2)	16	A
Propham (122-42-9)	50	C
n-Propylbenzene (103-65-1)	5	C
Pyrene (129-00-0)	50	B
Pyridine (110-86-1)	50	B
Radium 226 (CAS No. Not Applicable)	*	
Remark: * Established through Radiation Control Permits, Part 380.		
Radium 226 and Radium 228 (CAS No. Not Applicable)	*	
Remark: * Established through Radiation Control Permits, Part 380.		
Radium 228 (CAS No. Not Applicable)	*	
Remark: * Established through Radiation Control Permits, Part 380.		

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
Selenium (CAS No. Not Applicable)	20	A
Silver (CAS No. Not Applicable)	100	A
Simazine (122-34-9)	0.5	A
Sodium (CAS No. Not Applicable)	*	D
Remark: * Case-by-case evaluation.		
Styrene (100-42-5)	930	A
Sulfate (CAS No. Not Applicable)	500,000	A
Sulfide (CAS No. Not Applicable)	1,000	A
Tebuthiuron (34014-18-1)	50	C
Terbacil (5902-51-2)	50	C
Terbufos (13071-79-9)	0.09	B
Tetrachlorobenzenes (634-66-2; 634-90-2; 95-94-3; 12408-10-5)	*	*
Remark: * Value of 5 ug/L, Category C applies to each tetrachlorobenzene individually. Value of 10 ug/L, Category B applies to the sum of these substances.		
1,1,1,2-Tetrachloroethane (630-20-6)	5	C
1,1,2,2-Tetrachloroethane (79-34-5)	5	C
Tetrachloroethene (127-18-4)	5	C
Tetrachloroterephthalic acid (2136-79-0)	50	C
alpha, alpha, alpha, 4-Tetrachlorotoluene (5216-25-1)	5	C
Tetrahydrofuran (109-99-9)	50	B
1,2,3,4-Tetramethylbenzene (488-23-3)	5	C
1,2,3,5-Tetramethylbenzene (527-53-7)	5	C
1,2,4,5-Tetramethylbenzene (95-93-2)	5	C
Thallium (CAS No. Not Applicable)	0.5	B
Theophylline (58-55-9)	40	B
Thiram (137-26-8)	1.8	A
Toluene (108-88-3)	5	C

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
Toluene-2,4-diamine (95-80-7)	5	C
Toluene-2,5-diamine (95-70-5)	5	C
Toluene-2,6-diamine (823-40-5)	5	C
o-Toluidine (95-53-4)	5	C
Tolyltriazole (29385-43-1)	50	B
Toxaphene (8001-35-2)	0.06	A
1,2,4-Tribromobenzene (615-54-3)	5	C
Tributyltin oxide (56-35-9)	50	B
2,4,6-Trichloroaniline (634-93-5)	5	C
Trichlorobenzenes (87-61-6; 120-82-1; 108-70-3; 12002-48-1)	*	*
Remark: * Value of 5 ug/L, Category C applies to each trichlorobenzene individually. Value of 10 ug/L, Category B applies to the sum of these substances.		
1,1,1-Trichloroethane (71-55-6)	5	C
1,1,2-Trichloroethane (79-00-5)	1	A
Trichloroethene (79-01-6)	5	A
Trichlorofluoromethane (75-69-4)	5	C
2,4,5-Trichlorophenoxyacetic acid (93-76-5)	35	A
2,4,5-Trichlorophenoxypropionic acid (93-72-1)	0.26	A
1,1,2-Trichloropropane (598-77-6)	5	C
1,2,3-Trichloropropane (96-18-4)	0.04	A
cis-1,2,3-Trichloropropene (13116-57-9)	5	C
trans-1,2,3-Trichloropropene (13116-58-0)	5	C
alpha,2,4-Trichlorotoluene (94-99-5)	5	C
alpha,2,6-Trichlorotoluene (2014-83-7)	5	C
alpha,3,4-Trichlorotoluene (102-47-6)	5	C
alpha,alpha,2-Trichlorotoluene (88-66-4)	5	C
alpha,alpha,4-Trichlorotoluene (13940-94-8)	5	C

Table 5 (Continued)

NEW YORK STATE GROUNDWATER EFFLUENT LIMITATIONS (CLASS GA)

JUNE 1998

SUBSTANCE (CAS No.)	MAXIMUM ALLOWABLE CONCENTRATION (ug/L)	CATEGORY
2,3,4-Trichlorotoluene (7359-72-0)	5	C
2,3,5-Trichlorotoluene (56961-86-5)	5	C
2,3,6-Trichlorotoluene (2077-46-5)	5	C
2,4,5-Trichlorotoluene (6639-30-1)	5	C
2,4,6-Trichlorotoluene (23749-65-7)	5	C
1,1,1-Trichloro-2,2,2-trifluoroethane (354-58-5)	5	C
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	5	C
Trifluralin (1582-09-8)	35	A
1,2,3-Trimethylbenzene (526-73-8)	5	C
1,2,4-Trimethylbenzene (95-63-6)	5	C
1,3,5-Trimethylbenzene (108-67-8)	5	C
2,3,6-Trimethylpyridine (1462-84-6)	50	B
2,4,6-Trimethylpyridine (108-75-8)	50	B
sym-Trinitrobenzene (99-35-4)	5	C
2,3,4-Trinitrotoluene (602-29-9)	5	C
2,3,6-Trinitrotoluene (18292-97-2)	5	C
2,4,5-Trinitrotoluene (610-25-3)	5	C
2,4,6-Trinitrotoluene (118-96-7)	5	C
3,4,5-Trinitrotoluene (603-15-6)	5	C
Triphenyl phosphate (115-86-6)	50	B
Uranyl ion (CAS No. Not Applicable)	10,000	C
Vinyl chloride (75-01-4)	2	A
1,2-Xylene (95-47-6)	5	C
1,3-Xylene (108-38-3)	5	C
1,4-Xylene (106-42-3)	5	C
Zinc (CAS No. Not Applicable)	5,000	A
Zineb (12122-67-7)	1.8	A
Ziram (137-30-4)	4.2	A

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER

JUNE 1998

Notes: 1. This index refers to the user to Table 1, 3 or 5 of this TOGS. Entries within each Table are listed alphabetically. As this index indicates, a few entries are listed in both Tables 1 and 3. Substances in Table 1 with an ambient groundwater value also have a groundwater effluent limitation and are thus also listed in Table 5. The user is cautioned that not all substances included in "group" entries are individually listed in this index, and should read the text of Parts I and II of this TOGS.

2. Where an entry includes multiple substances, underlining identifies the specific substances that corresponds to the CAS number listed. Entries having no CAS number are indicated by "NA" (not applicable).

3. CAS numbers that represent groups of substances, including pairs of cis- and trans- isomers, may not be included in this index. The user may need to determine individual substances and CAS numbers.

4. Where entries in this index are separated by a semicolon, the table listings are also so separated and apply to the entry before and after the semicolon, respectively.

CAS Number	Entry	Table
NA	Alkyl diphenyl oxide sulfonates	1,5
NA	Aluminum, ionic; Aluminum	1;5
NA	Aminomethylene phosphonic acid salts	1,5
NA	Ammonia and Ammonium	1,5
NA	Antimony	1,5
NA	Arsenic	1,5
NA	Aryltriazoles	1,5
NA	Asbestos	1,5
NA	Barium	1,5
NA	Beryllium	1,5
NA	Boric acid, Borates and Metaborates	1,5
NA	Boron	1,5
NA	Bromide	1,5
NA	Butyl isopropyl phthalate	1,5
NA	Cadmium	1,5
NA	Chloramben	1,5
NA	Chloride	1,5
NA	Chlorinated dibenzo-p-dioxins and Chlorinated dibenzofurans	1,5

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
NA	Chlorine, Total Residual	1
NA	Chromium	1,5
NA	Chromium (hexavalent)	1,5
NA	Cobalt	1
NA	Copper	1,5
NA	Cyanide	1,5
NA	Dalapon	1,5
NA	Dissolved solids, total	5
NA	Fluoride	1,5
NA	Foaming agents	1,5
NA	Gross alpha radiation	1,5
NA	Gross beta radiation	1,5
NA	Iron; Iron and Manganese	1,5;1,5
NA	Isothiazolones, total; Isothiazolones	1;3
NA	Lead	1,5
NA	Linear alkylbenzene sulfonates (LAS)	1,3
NA	Magnesium	1,5
NA	Manganese; Iron and Manganese	1,5;1,5
NA	Mercury	1,5
NA	Methylbenz(a)anthracenes	1,5
NA	Nickel	1,5
NA	Nitrate (expressed as N); Nitrate and Nitrite (expressed as N)	1,5;1,5
NA	Nitrilotriacetic acid	1,5
NA	Nitrite (expressed as N); Nitrate and Nitrite (expressed as N)	1,5;1,5
NA	Nitrogen, total (expressed as N)	5
NA	Oil and Grease	5
NA	Organic substances, total	5
NA	pH	5
NA	Phenolic compounds (total phenols)	1,5

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
NA	Phenols, total chlorinated	1,5
NA	Phenols, total unchlorinated	1,5
NA	Phosphorus	1
NA	Picloram	1,5
NA	Polybrominated biphenyls	1,5
NA	Polychlorinated biphenyls	1,5
NA	Principal organic contaminant	1,5
NA	Quaternary ammonium compounds	1,3
NA	Radium 226; Radium 226 and Radium 228	1,5;1,5
NA	Radium 228; Radium 226 and Radium 228	1,5;1,5
NA	Selenium	1,5
NA	Silver	1,5
NA	Sodium	1,5
NA	Strontium 90	1
NA	Sulfate	1,5
NA	Sulfides, total; Sulfide	1;5
NA	Sulfite	1
NA	Thallium	1,5
NA	Tritium	1
NA	Uranyl ion	1,5
NA	Vanadium	1
NA	Zinc	1,5
50-00-0	Formaldehyde	3
50-29-3	p,p'-DDT	1,5
50-32-8	Benzo(a)pyrene	1,5
50-55-5	Reserpine	3
51-28-5	2,4-Dinitrophenol	1,5
52-51-7	Bronopol	3
52-85-7	Famphur	3

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
53-96-3	2-Acetylaminofluorene	3
55-18-5	N-Nitrosodiethylamine	3
55-70-3	Dibenz(a,h)anthracene	3
56-23-5	Carbon tetrachloride	1,5
56-35-9	Tributyltin oxide	1,5
56-38-2	Parathion; Parathion & Methyl parathion	1;1,5
56-49-5	3-Methylcholanthrene	3
56-55-3	Benz(a)anthracene	1,5
56-57-5	4-Nitroquinoline-1-oxide	3
57-14-7	1,1-Dimethylhydrazine	3
57-24-9	Strychnine	3
57-74-9	Chlordane	1,5
57-97-6	7, 12-Dimethylbenz(a)anthracene	3
58-55-6	Propylene glycol	3
58-55-9	Theophylline	1,5
58-89-9	gamma-Hexachlorocyclohexane	1,5
59-87-0	Nitrofurazone	3
59-89-2	N-Nitrosomorpholine	3
60-11-7	4-(Dimethylamino)azobenzene	3
60-29-7	Ethyl ether	3
60-51-5	Dimethoate	3
60-57-1	Aldrin and Dieldrin; Dieldrin	1;1,5
62-44-2	Phenacetin	3
62-50-0	Ethyl methane sulfonate	3
62-53-3	Aniline	1,5
62-56-6	Thiourea	3
62-75-9	N-Nitrosodimethylamine	3
63-25-2	Carbaryl	1,5
64-18-6	Formic acid	3

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
65-85-0	Benzoic acid	3
66-27-3	Methylmethanesulfonate	3
67-20-9	Nitrofurantoin	3
67-45-8	Furazolidone	3
67-56-1	Methanol	3
67-63-0	Isopropyl alcohol	3
67-64-1	Acetone	1,5
67-66-3	Chloroform	1,5
67-72-1	Hexachloroethane	1,5
68-12-2	Dimethylformamide	1,5
70-30-4	Hexachlorophene	1,5
70-55-3	4-Methyl benzene sulfonamide	3
71-23-8	1-Propanol	3
71-36-3	1-Butanol	3
71-43-2	Benzene	1,5
71-55-6	1,1,1-Trichloroethane	1,5
72-20-8	Endrin	1,5
72-43-5	Methoxychlor	1,5
72-54-8	p,p'-DDD	1,5
72-55-9	p,p'-DDE	1,5
74-11-3	4-Chlorobenzoic acid	3
74-83-9	Bromomethane	1,5
74-87-3	Methyl chloride	1,5
74-88-4	Methyl iodide	1,5
74-89-5	Methylamine	3
74-95-3	Dibromomethane	1,5
74-97-5	Bromochloromethane	1,5
75-00-3	Chloroethane	1,5
75-01-4	Vinyl chloride	1,5

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
75-05-8	Acetonitrile	3
75-09-2	Methylene chloride	1,5
75-15-0	Carbon disulfide	3
75-21-8	Ethylene oxide	1,5
75-25-2	Bromoform	1,5
75-27-4	Bromodichloromethane	1,5
75-31-0	Isopropylamine	3
75-34-3	1,1-Dichloroethane	1,5
75-35-4	1,1-Dichloroethene	1,5
75-43-4	Dichlorofluoromethane	1,5
75-56-9	Propylene oxide	3
75-60-5	Cacodylic acid	3
75-65-0	tert-Butyl alcohol	3
75-69-4	Trichlorofluoromethane	1,5
75-71-8	Dichlorodifluoromethane	1,5
75-86-5	Acetone cyanohydrin	3
75-87-6	Chloral	3
76-01-7	Pentachloroethane	1,5
76-03-9	Trichloroacetic acid	3
76-12-0	1,2-Difluoro-1,1,2,2-tetrachloroethane	1,5
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1,5
76-44-8	Heptachlor	1,5
77-47-4	Hexachlorocyclopentadiene	1,5
77-58-7	Dibutyltin dilaurate	3
77-73-6	Dicyclopentadiene	3
78-00-2	Tetraethyl lead	3
78-59-1	Isophorone	1,5
78-83-1	Isobutyl alcohol	3
78-87-5	1,2-Dichloropropane	1,5

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
78-93-3	Methyl ethyl ketone	1,5
78-99-9	1,1-Dichloropropane	1,5
79-00-5	1,1,2-Trichloroethane	1,5
79-01-6	Trichloroethene	1,5
79-06-1	Acrylamide	1,5
79-10-7	Acrylic acid	1,5
79-11-8	Chloroacetic acid	3
79-20-9	Methyl acetate	3
79-34-5	1,1,2,2-Tetrachloroethane	1,5
79-39-0	Methacrylamide	3
79-41-4	Methacrylic acid	1,5
79-43-6	Dichloroacetic acid	3
79-45-8	Dimethyldithiocarbamate	3
79-46-9	2-Nitropropane	3
80-15-9	Isopropylbenzene hydroperoxide	3
80-62-6	Methyl methacrylate	1,5
81-81-2	Warfarin	3
82-68-8	Pentachloronitrobenzene	1,5
83-32-9	Acenaphthene	1,5
83-79-4	Rotenone	3
84-66-2	Diethyl phthalate	1,5
84-74-2	Di-n-butylphthalate	1,5
85-00-7	See 2764-72-9	
85-01-8	Phenanthrene	1,5
85-44-9	1,3-Isobenzofurandione	3
85-68-7	Butyl benzyl phthalate	1,5
86-30-6	N-Nitrosodiphenylamine	1,5
86-50-0	Azinphosmethyl	1,5
86-73-7	Fluorene	1,5

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
86-74-8	Carbazole	3
87-41-2	1(3H)-Isobenzofuranone	3
87-59-2	2,3-Dimethylaniline	1,5
87-61-6	Trichlorobenzenes (1,2,3-)	1,5
87-62-7	2,6-Dimethylaniline	1,5
87-68-3	Hexachlorobutadiene	1,5
87-86-5	Pentachlorophenol	1,5
88-19-7	2-Methyl benzene sulfonamide	3
88-66-4	alpha, alpha,2-Trichlorotoluene	1,5
88-72-2	2-Nitrotoluene	1,5
88-73-3	2-Chloronitrobenzene	1,5
88-74-4	2-Nitroaniline	1,5
88-85-7	Dinoseb	1,5
91-20-3	Naphthalene	1,5
91-22-5	Quinoline	3
91-57-6	2-Methylnaphthalene	1,3
91-58-7	2-Chloronaphthalene	1,5
91-59-8	2-Napthylamine	3
91-80-5	Methapyrilene	3
91-94-1	3,3'-Dichlorobenzidine	1,5
92-52-4	1,1'-Biphenyl	1,5
92-67-1	4-Aminobiphenyl	1,5
92-87-5	Benzidine	1,5
93-14-1	Guaifenesin	1,5
93-65-2	2-(4-Chloro-2-methylphenoxy)propionic acid	3
93-72-1	2,4,5-Trichlorophenoxypropionic acid	1,5
93-76-5	2,4,5-Trichlorophenoxyacetic acid	1,5
94-59-7	Safrole	3
94-74-6	2-Methyl-4-chlorophenoxyacetic acid	1,5

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
94-75-7	2,4-Dichlorophenoxyacetic acid	1,5
94-81-5	4-(4-Chloro-2-methylphenoxy)butyric acid	3
94-82-6	2,4-DB	3
94-99-5	alpha,2,4-Trichlorotoluene	1,5
95-47-6	1,2-Xylene	1,5
95-49-8	2-Chlorotoluene	1,5
95-50-1	Dichlorobenzenes (1,2-)	1,5
95-51-2	2-Chloroaniline	1,5
95-53-4	o-Toluidine	1,5
95-54-5	1,2-Phenylenediamine	1,5
95-63-6	1,2,4-Trimethylbenzene	1,5
95-64-7	3,4-Dimethylaniline	1,5
95-68-1	2,4-Dimethylaniline	1,5
95-69-2	4-Chloro-o-toluidine	1,5
95-70-5	Toluene-2,5-diamine	1,5
95-73-8	2,4-Dichlorotoluene	1,5
95-75-0	3,4-Dichlorotoluene	1,5
95-78-3	2,5-Dimethylaniline	1,5
95-79-4	5-Chloro-o-toluidine	1,5
95-80-7	Toluene-2,4-diamine	1,5
95-84-1	Aminocresols (2-Amino-para-cresol)	1,5
95-93-2	1,2,4,5-Tetramethylbenzene	1,5
95-94-3	Tetrachlorobenzenes (1,2,4,5-)	1,5
96-12-8	1,2-Dibromo-3-chloropropane	1,5
96-18-4	1,2,3-Trichloropropane	1,5
96-19-5	See 13116-57-9 and 13116-58-0	
96-33-3	Methylacrylate	3
96-37-7	Methylcyclopentane	3
96-45-7	Ethylenethiourea	1,5

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
97-63-2	Ethyl methacrylate	3
98-01-1	Furfural	3
98-06-6	tert-Butylbenzene	1,5
98-07-7	alpha, alpha, alpha-Trichlorotoluene	3
98-56-6	4-Chlorobenzotrifluoride	1,5
98-82-8	Isopropylbenzene	1,5
98-83-9	alpha-Methylstyrene	1,5
98-86-2	Acetophenone	3
98-87-3	alpha, alpha-Dichlorotoluene	3
98-92-0	Niacinamide	1,5
98-95-3	Nitrobenzene	1,5
99-04-7	3-Methylbenzoic acid	3
99-08-1	3-Nitrotoluene	1,5
99-09-2	3-Nitroaniline	1,5
99-35-4	sym-Trinitrobenzene	1,5
99-55-8	5-Nitro-o-toluidine	1,5
99-59-2	2-Methoxy-5-nitroaniline	3
99-62-7	1,3-Diisopropylbenzene	1,5
99-65-0	1,3-Dinitrobenzene	1,5
99-87-6	4-Isopropyltoluene	1,5
99-99-0	4-Nitrotoluene	1,5
100-00-5	4-Chloronitrobenzene	1,5
100-01-6	4-Nitroaniline	1,5
100-18-5	1,4-Diisopropylbenzene	1,5
100-37-8	2-(Diethylamino)ethanol	3
100-41-4	Ethylbenzene	1,5
100-42-5	Styrene	1,5
100-44-7	Benzyl chloride	3
100-51-6	Benzyl alcohol	3

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
100-52-7	Benzaldehyde	3
100-61-8	N-Methylaniline	1,5
100-63-0	Phenylhydrazine	1,5
100-64-1	Cyclohexanone oxime	3
100-66-3	Anisole	3
100-75-4	N-Nitrosopiperidine	3
100-80-1	3-Methylstyrene	1,5
101-14-4	4,4'-Methylene-bis-(2-chloroaniline)	1,5
101-55-3	4-Bromophenylphenylether	3
101-61-1	4,4'-Methylene-bis-(N,N'-dimethyl)aniline	1,5
101-84-8	Phenyl ether	1,5
102-47-6	alpha, 3,4-Trichlorotoluene	1,5
103-23-1	Di(2-ethylhexyl)adipate	1,5
103-33-3	Azobenzene	1,5
103-65-1	n-Propylbenzene	1,5
103-82-2	Benzeneacetic acid	3
104-51-8	n-Butylbenzene	1,5
104-87-0	4-Methylbenzaldehyde	3
105-11-3	1,4-Quinone dioxide	3
105-60-1	Caprolactam	3
105-67-9	2,4-Dimethylphenol	1,5
106-37-6	1,4-Dibromobenzene	1,5
106-42-3	1,4-Xylene	1,5
106-43-4	4-Chlorotoluene	1,5
106-46-7	Dichlorobenzenes (1,4-)	1,5
106-47-8	4-Chloroaniline	1,5
106-49-0	4-Aminotoluene	1,5
106-50-3	1,4-Phenylenediamine	1,5
106-89-8	Epichlorohydrin	3

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
106-93-4	Ethylene dibromide	1,5
107-02-8	Acrolein	1,5
107-05-1	Allyl chloride	1,5
107-06-2	1,2-Dichloroethane	1,5
107-07-3	Ethylene chlorohydrin	1,5
107-12-0	Propionitrile	3
107-13-1	Acrylonitrile	1,5
107-18-6	Allyl alcohol	3
107-21-1	Ethylene glycol	1,5
107-30-2	Chloromethyl methyl ether	1,5
108-05-4	Vinyl acetate	3
108-10-1	4-Methyl-2-pentanone	3
108-18-9	Diisopropylamine	3
108-20-3	Diisopropyl ether	3
108-31-6	Maleic anhydride	3
108-36-1	1,3-Dibromobenzene	1,5
108-38-3	1,3-Xylene	1,5
108-41-8	3-Chlorotoluene	1,5
108-42-9	3-Chloroaniline	1,5
108-44-1	3-Aminotoluene	1,5
108-45-2	1,3-Phenylenediamine	1,5
108-60-1	Bis(2-chloro-1-methylethyl)ether	1,5
108-67-8	1,3,5-Trimethylbenzene	1,5
108-69-0	3,5-Dimethylaniline	1,5
108-70-3	Trichlorobenzenes (1,3,5-)	1,5
108-75-8	2,4,6-Trimethylpyridine	1,5
108-86-1	Bromobenzene	1,5
108-88-3	Toluene	1,5
108-90-7	Chlorobenzene	1,5

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
108-91-8	Cyclohexylamine	3
108-93-0	Cyclohexanol	3
108-94-1	Cyclohexanone	3
108-95-2	Phenol	1,5
109-06-8	alpha-Picoline	3
109-69-3	1-Chlorobutane	1,5
109-77-3	Malononitrile	3
109-78-4	Ethylene cyanohydrin	3
109-86-4	2-Methoxyethanol	3
109-89-7	Diethylamine	3
109-99-9	Tetrahydrofuran	1,5
110-00-9	Furan	3
110-49-6	2-Methoxyethanol acetate	3
110-54-3	n-Hexane	3
110-57-6	trans-1,4-Dichloro-2-butene	1,5
110-75-8	2-Chloroethyl vinyl ether	3
110-80-5	2-Ethoxyethanol	3
110-82-7	Cyclohexane	3
110-83-8	Cyclohexene	3
110-86-1	Pyridine	1,5
111-15-9	2-Ethoxyethanol acetate	3
111-44-4	Bis(2-chloroethyl)ether	1,5
111-46-6	Diethylene glycol	3
111-70-6	1-Heptanol	3
111-90-0	Diethylene glycol monoethyl ether	3
111-91-1	Bis(2-chloroethoxy)methane	1,5
112-31-2	Decanal	3
112-34-5	Butoxyethoxyethanol	1,5
115-07-1	1-Propene	3

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
115-29-7	Endosulfan	1,3
115-86-6	Triphenyl phosphate	1,5
116-06-3	Aldicarb; Aldicarb and Methomyl	1,5
117-80-6	2,3-Dichloro-1,4-napthoquinone	3
117-81-7	Bis(2-ethylhexyl)phthalate	1,5
117-84-0	Di-n-octyl phthalate	1,5
118-69-4	2,6-Dichlorotoluene	1,5
118-74-1	Hexachlorobenzene	1,5
118-75-2	Chloranil	1,5
118-90-1	2-Methylbenzoic acid	3
118-96-7	2,4,6-Trinitrotoluene	1,5
119-90-4	3,3'-Dimethoxybenzidine	3
119-93-7	3,3'-Dimethylbenzidine	1,5
120-12-7	Anthracene	1,5
120-58-1	Isosafrole	3
120-61-6	Dimethylterephthalate	3
120-82-1	Trichlorobenzenes (1,2,4-)	1,5
120-83-2	2,4-Dichlorophenol	1,5
120-92-3	Cyclopentanone	3
121-14-2	2,4-Dinitrotoluene	1,5
121-44-8	Triethylamine	3
121-69-7	N,N-Dimethylaniline	1,5
121-73-3	3-Chloronitrobenzene	1,5
121-75-5	Malathion	1,5
121-82-4	Cyclotrimethylenetrinitramine	3
122-09-8	alpha, alpha-Dimethyl phenethylamine	1,5
122-34-9	Simazine	1,5
122-39-4	Diphenylamine	1,5
122-42-9	Propham	1,5

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
122-66-7	Diphenylhydrazines (1,2-); 1,2-Diphenylhydrazine	1;5
123-31-9	Hydroquinone	1,5
123-33-1	Maleic hydrazide	3
123-73-9	trans-2-Butenal	1,5
123-91-1	1,4-Dioxane	3
124-09-4	Hexamethylene diamine	3
124-19-6	Nonanal	3
124-40-3	Dimethylamine	3
124-48-1	Dibromochloromethane	1,5
126-39-6	2-Methylethyl-1,3-dioxolane	1,5
126-68-1	o,o,o-Triethylphosphorothioate	3
126-75-0	Demeton (-S)	1
126-98-7	Methacrylonitrile	1,5
126-99-8	Chloroprene	1,5
127-18-4	Tetrachloroethene	1,5
129-00-0	Pyrene	1,5
130-15-4	1,4-Naphthoquinone	3
131-11-3	Dimethyl phthalate	1,5
132-64-9	Dibenzofuran	3
133-06-2	Captan	1,5
133-07-3	Folpet	1,5
134-32-7	1-Napthylamine	3
135-98-8	sec-Butylbenzene	1,5
136-25-4	Pentanate	3
137-26-8	Thiram	1,5
137-30-4	Ziram	1,5
138-86-3	1-Methyl-4-(1-methylethenyl)cyclohexene	3
139-40-2	Propazine	1,5
140-57-8	Aramite	3

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
140-88-5	Ethyl acrylate	3
141-05-9	Diethyl maleate	3
141-78-6	Ethyl acetate	3
142-28-9	1,3-Dichloropropane	1,5
142-59-6	Nabam	1,5
142-82-5	n-Heptane	3
143-07-7	Dodecanoic acid	3
143-08-8	1-Nonanol	3
143-50-0	Kepone	1,5
145-73-3	Endothall	1,5
148-18-5	Sodium diethyldithiocarbamate	3
149-30-4	Mercaptobenzothiazole	1,5
152-16-9	Octamethylpyrophosphoramine	3
156-59-2	cis-1,2-Dichloroethene	1,5
156-60-5	trans-1,2-Dichloroethene	1,5
191-24-2	Benzo(g,h,i)perylene	3
192-97-2	Benzo(e)pyrene	3
193-39-5	Indeno (1,2,3-cd)pyrene	1,5
205-99-2	Benzo(b)fluoranthene	1,5
206-44-0	Fluoranthene	1,5
207-08-9	Benzo(k)fluoranthene	1,5
208-96-8	Acenaphthylene	3
218-01-9	Chrysene	1,5
271-61-4	Benzisothiazole	1,5
297-97-2	o,o-Diethyl-o-2-pyrazinyl phosphorothioate	3
298-00-0	Parathion & Methyl parathion	1,5
298-02-2	Phorate & Disulfoton	1,5
298-03-3	Demeton (-o)	1
298-04-4	Phorate & Disulfoton	1,5

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
299-84-3	Ronnel	3
302-01-2	Hydrazine	1,3
309-00-2	Aldrin; Aldrin & Dieldrin	1,5;1
314-40-9	Bromacil	1,5
319-84-6	alpha-Hexachlorocyclohexane	1,5
319-85-7	beta-Hexachlorocyclohexane	1,5
319-86-8	delta-Hexachlorocyclohexane	1,5
328-84-7	3,4-Dichlorobenzotrifluoride	1,5
330-55-2	Linuron	3
333-41-5	Diazinon	1,5
354-58-5	1,1,1-Trichloro-2,2,2-trifluoroethane	1,5
460-35-5	3-Chloro-1,1,1-trifluoropropane	1,5
462-08-8	Aminopyridines (3-)	1,5
465-73-6	Isodrin	1,5
479-18-5	Dyphylline	1,5
488-23-3	1,2,3,4-Tetramethylbenzene	1,5
501-52-0	Benzenepropanoic acid	3
504-24-5	Aminopyridines (4-)	1,5
504-29-0	Aminopyridines (2-)	1,5
506-68-3	Cyanogen bromide	1,5
506-77-4	Cyanogen chloride	1,5
510-15-6	Chlorobenzilate	3
512-56-1	Trimethyl phosphate	3
515-30-0	alpha-Hydroxy-alpha-methylbenzeneacetic acid	3
526-73-8	1,2,3-Trimethylbenzene	1,5
527-53-7	1,2,3,5-Tetramethylbenzene	1,5
527-84-4	2-Isopropyltoluene	1,5
529-20-4	2-Methylbenzaldehyde	3

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
530-50-7	Diphenylhydrazines (1,1-); 1,1-Diphenylhydrazine	1;5
531-82-8	Furium	3
535-77-3	3-Isopropyltoluene	1,5
538-39-6	4,4'-Dimethylbibenzyl	1,5
540-73-8	1,2-Dimethylhydrazine	3
541-73-1	Dichlorobenzenes (1,3-)	1,5
542-75-6	1,3-Dichloropropene (sum of cis- and trans-)	1,5
542-88-1	Bis(chloromethyl)ether	1,5
543-49-7	2-Heptanol	3
563-12-2	Ethion	3
563-58-6	1,1-Dichloropropene	1,5
577-55-9	1,2-Diisopropylbenzene	1,5
583-53-9	1,2-Dibromobenzene	1,5
584-84-9	Toluene diisocyanate	3
589-18-4	4-Methylbenzenemethanol	3
589-38-8	3-Hexanone	3
589-55-9	4-Heptanol	3
589-82-2	3-Heptanol	3
589-93-5	2,5-Lutidine	3
591-78-6	2-Hexanone	1,5
594-18-3	Dibromodichloromethane	1,5
594-20-7	2,2-Dichloropropane	1,5
597-64-8	Tetraethyl tin	3
598-77-6	1,1,2-Trichloropropane	1,5
602-01-7	2,3-Dinitrotoluene	1,5
602-29-9	2,3,4-Trinitrotoluene	1,5
603-15-6	3,4,5-Trinitrotoluene	1,5
606-20-2	2,6-Dinitrotoluene	1,5
608-73-1	See 58-89-9; 319-84-6; 319-85-7; 319-86-8; and 6108-10-7	

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
608-93-5	Pentachlorobenzene	1,5
610-25-3	2,4,5-Trinitrotoluene	1,5
610-39-9	3,4-Dinitrotoluene	1,5
611-15-4	2-Methylstyrene	1,5
613-12-7	2-Methylanthracene	3
615-54-3	1,2,4-Tribromobenzene	1,5
617-84-4	Diethyl formamide	3
617-94-7	Dimethylphenylcarbinol	3
618-85-9	3,5-Dinitrotoluene	1,5
619-15-8	2,5-Dinitrotoluene	1,5
620-23-5	3-Methylbenzaldehyde	3
621-64-7	N-Nitrosodipropylamine	3
622-97-9	4-Methylstyrene	1,5
625-86-5	2,5-Dimethylfuran	3
627-26-9	trans-2-Butenenitrile	1,5
630-20-6	1,1,1,2-Tetrachloroethane	1,5
634-66-2	Tetrachlorobenzenes (1,2,3,4-)	1,5
634-90-2	Tetrachlorobenzenes (1,2,3,5-)	1,5
634-93-5	2,4,6-Trichloroaniline	1,5
637-50-3	3-Phenyl-1-propene	1,5
643-79-8	1,2-Benzenedicarboxaldehyde	3
683-18-1	Dibutyltin chloride	3
684-93-5	N-Nitroso-N-methyl urea	3
709-98-8	Propanil	1,5
759-96-4	Ethyl di-n-propylthiocarbamate (EPTC)	3
764-41-0	See 1476-11-5 and 110-57-6	
765-34-4	Glycidaldehyde	3
766-90-5	cis-1-Phenyl-1-propene	1,5
767-58-8	2,3-Dihydro-1-methyl-1H-indene	3

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
823-40-5	Toluene-2,6-diamine	1,5
834-12-8	Ametryn	1,5
873-66-5	trans-1-Phenyl-1-propene	1,5
873-94-9	3,3,5-Trimethylcyclohexanone	3
923-02-4	Methylolmethacrylamide	3
924-16-3	N-Nitrosodi-N-butylamine	3
930-55-2	N-Nitrosopyrrolidine	3
957-51-7	Diphenamid	1,5
959-98-8	Endosulfan I	3
1024-57-3	Heptachlor epoxide	1,5
1031-07-8	Endosulfan sulfate	3
1071-83-6	Glyphosate	1,5
1114-71-2	Pebulate	3
1122-60-7	Nitrocyclohexane	3
1163-19-5	Bis(pentabromophenyl)ether	3
1190-76-7	cis-2-Butenenitrile	1,5
1321-12-6	See 88-72-2; 99-08-1 and 99-99-0	
1330-20-7	See 95-47-6; 106-42-3 and 108-38-3	
1462-84-6	2,3,6-Trimethylpyridine	1,5
1476-11-5	cis-1,4-Dichloro-2-butene	1,5
1563-66-2	Carbofuran	1,5
1582-09-8	Trifluralin	1,5
1589-49-7	Propylene glycol monomethyl ether	3
1610-18-0	Prometon	1,5
1634-04-4	Methyl tert-butyl ether	3
1646-87-3	Aldicarb sulfoxide	1,5
1646-88-4	Aldicarb sulfone	1,5
1702-17-6	Clopyralid	3
1807-55-2	4,4'-Methylene-bis-(N-methyl)aniline	1,5

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CAS Number	Entry	Table
1861-32-1	Dimethyl tetrachloroterephthalate	1,5
1861-40-1	Benefin	1,5
1863-63-4	Benzoic acid, ammonium salt	3
1875-92-9	Dimethylbenzylammonium chloride	3
1888-71-7	Hexachloropropene	1,5
1897-45-6	Chlorothalonil	1,5
1912-24-9	Atrazine	1,5
1918-00-9	Dicamba	1,5
1918-16-7	Propachlor	1,5
1929-77-7	Vernolate	3
2008-41-5	Butylate	1,5
2014-83-7	alpha, 2,6-Trichlorotoluene	1,5
2077-46-5	2,3,6-Trichlorotoluene	1,5
2104-96-3	Bromophos	3
2136-79-0	Tetrachloroterephthalic acid	1,5
2164-17-2	Fluometuron	1,5
2207-04-7	trans-1,4-Dimethyl cyclohexane	3
2212-67-1	Molinate	3
2303-16-4	Diallate	3
2303-17-5	Triallate	3
2385-85-5	Mirex	1,5
2425-06-1	Captafol	3
2439-10-3	Dodecylguanidine acetate and Dodecyguanidine hydrochloride	1,5
2641-56-7	Diethyltin dycaprylate	3
2764-72-9	Diquat	1,5
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	1,5
2835-95-2	Aminocresols (5-Amino-ortho-cresol)	1,5
2835-99-6	Aminocresols (4-Amino-meta-cresol)	1,5
2921-88-2	Chlorpyrifos	3

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CAS Number	Entry	Table
3252-43-5	2,2-Dibromo-3-nitrilopropionamide & Dibromoacetonitrile; Dibromoacetonitrile	1;3
3558-60-9	(2-Methoxyethyl)benzene	1,5
3689-24-5	Tetraethyl dithiopyrophosphate	3
4013-34-7	(1-Methoxyethyl)benzene	1,5
4170-30-3	See 123-73-9 and 15798-64-8	
4376-18-5	Methylphthalate	3
4685-14-7	Paraquat	1,5
4726-14-1	Nitralin	1,5
4786-20-3	See 1190-76-7 and 627-26-9	
4957-14-6	4,4'-Dimethyldiphenylmethane	1,5
5131-66-8	Butoxypropanol	1,5
5197-80-8	Dimethylethylbenzylammonium chloride	3
5216-25-1	alpha, alpha, alpha, 4-Tetrachlorotoluene	1,5
5234-68-4	Carboxin	1,5
5902-51-2	Terbacil	1,5
6108-10-7	epsilon-Hexachlorocyclohexane	1,5
6317-18-6	Methylene bisthiocyanate	1,5
6639-30-1	2,4,5-Trichlorotoluene	1,5
7005-72-3	4-Chlorophenyl phenyl ether	3
7359-72-0	2,3,4-Trichlorotoluene	1,5
7421-93-4	Endrin aldehyde	1,5
7486-38-6	Sodium adipate, disodium salt	3
7664-41-7	Ammonia and Ammonium	1,5
7783-06-4	Hydrogen sulfide	1,5
8001-35-2	Toxaphene	1,5
8018-01-7	Mancozeb	1,5
8065-48-3	Demeton	1,3
9003-27-4	Polybutene(1-propene, 2-methyl homopolymer)	3
10061-01-5	see 542-75-6	

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CAS Number	Entry	Table
10061-02-6	see 542-75-6	
10222-01-2	2,2-Dibromo-3-nitrilopropionamide & Dibromoacetonitrile	1,5
10595-95-6	N-Nitrosomethylethylamine	3
12002-48-1	Trichlorobenzenes	1,5
12122-67-7	Zineb	1,5
12408-10-5	Tetrachlorobenzenes	1,5
12427-38-2	Maneb	1,5
13071-79-9	Terbufos	1,5
13116-57-9	cis-1,2,3-Trichloropropene	1,5
13116-58-0	trans-1,2,3-Trichloropropene	1,5
13560-89-9	Dechlorane Plus	1,5
13590-97-1	Dodecylguanidine acetate and Dodecylguanidine hydrochloride	1,5
13940-94-8	alpha, alpha, 4-Trichlorotoluene	1,5
14484-64-1	Ferbam	1,5
14838-15-4	Phenylpropanolamine	1,5
15798-64-8	cis-2-Butenal	1,5
15972-60-8	Alachlor	1,5
16655-82-6	3-Hydroxycarbofuran	3
16752-77-5	Aldicarb & Methomyl	1,5
17059-48-2	2,3-Dihydro-1,6-dimethyl-1H-indene	3
18292-97-2	2,3,6-Trinitrotoluene	1,5
19089-47-5	Propylene glycol monoethyl ether	3
19398-61-9	2,5-Dichlorotoluene	1,5
21087-64-9	Metribuzin	1,5
21564-17-0	2-(Thiocyanomethylthio)benzothiazole	3
21725-46-2	Cyanazine	3
23135-22-0	Oxamyl	1,5
23184-66-9	Butachlor	1,5
23749-65-7	2,4,6-Trichlorotoluene	1,5

INDEX OF TOGS 1.1.1 TABLE 1, 3 AND 5 ENTRIES BY CHEMICAL ABSTRACTS SERVICE REGISTRY (CAS) NUMBER JUNE 1998 (Continued)

CAS Number	Entry	Table
23950-58-5	Pronamide	3
25056-70-6	Hexanate	3
25136-55-4	Dimethyldioxane	3
25154-54-5*	See 99-65-0	
25167-93-5	See 88-73-3; 100-00-5 and 121-73-3	
25168-05-2	See 95-49-8; 106-43-4 and 108-41-8	
25186-47-4	3,5-Dichlorotoluene	1,5
25265-76-3	See 95-54-5; 106-50-3 and 108-45-2	
25321-09-9	See 99-62-7; 100-18-5 and 577-55-9	
25321-14-6	See 121-14-2; 602-01-7; 606-20-2; 610-39-9; 618-85-9 and 619-15-8	
25321-22-6	See 95-50-1; 106-46-7 and 541-73-1	
25551-13-7	See 95-63-6; 108-67-8 and 526-73-8	
25973-55-1	2-(2-Hydroxy-3,5-di-tert-pentylphenyl)benzotriazole	1,5
26399-36-0	Profluralin	3
26445-05-6	Aminopyridines	1,5
26523-64-8	See 76-13-1 and 354-58-5	
27134-26-5	See 95-51-2; 106-47-8 and 108-42-9	
29082-74-4	Octachlorostyrene	1,5
29091-21-2	Prodiamine	3
29385-43-1	Tolyltriazole	1,5
29611-84-5*	See 108-75-8 and 1462-84-6	
29761-21-5	Isodecyl diphenyl phosphate	1,3
29797-40-8	See 95-73-8; 95-75-0; 118-69-4; 19398-61-9; 25186-47-4 and 32768-54-0	
30560-19-1	Acephate	3
31600-69-8	4-(1-Methylethoxy)-1-butanol	1,5
32768-54-0	2,3-Dichlorotoluene	1,5
33213-65-9	Endosulfan II	3
33820-53-0	Isopropalin	1,5
34014-18-1	Tebuthiuron	1,5

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CAS Number	Entry	Table
35448-14-7	Oxalic acid, benzyl ester	3
37299-86-8	Rhodamine WT	3
39196-18-4	Thiofanox	3
40487-42-1	Pendimethalin	1,5
51218-45-2	Metolachlor	3
51235-04-2	Hexazinone	1,5
53494-70-5	Endrin ketone	1,5
56961-86-5	2,3,5-Trichlorotoluene	1,5
68391-01-5	Alkyl dimethyl benzyl ammonium chloride	1,5
95266-40-3	Cimectacarb	3

* This non-individual CAS number also refers to one or more individual substances that are not specifically listed in the table. These individual substances, however, may be encompassed by a group entry in Table 1 (for example, Principal Organic Comtaminant or Phenolic Compounds). Refer to the text of Part I of this document for an explanation of group entries.

s/s (6/17/98)
N.G. Kaul, P.E.
Director
Division of Water