

## Chapter NR 664

## APPENDIX IX

GROUNDWATER MONITORING LIST<sup>1</sup>

Common name <sup>2</sup>	CAS RN <sup>3</sup>	Chemical abstracts service index name <sup>4</sup>	Suggested methods <sup>5</sup>	PQL (µg/L) <sup>6</sup>
Acenaphthene .....	83-32-9	Acenaphthylene, 1,2-dihydro- .....	8100 8270	200 10
Acenaphthylene .....	208-96-8	Acenaphthylene .....	8100 8270	200 10
Acetone .....	67-64-1	2-Propanone .....	8240	100
Acetophenone .....	98-86-2	Ethanone, 1-phenyl- .....	8270	10
Acetonitrile; Methyl cyanide .....	75-05-8	Acetonitrile .....	8015	100
2-Acetylaminofluorene; 2-AAF .....	53-96-3	Acetamide, N-9H-fluoren-2-yl- .....	8270	10
Acrolein .....	107-02-8	2-Propenal .....	8030 8240	5 5
Acrylonitrile .....	107-13-1	2-Propenenitrile .....	8030 8240	5 5
Aldrin .....	309-00-2	1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a-hexahy- dro-(1α,4α, 4aβ, 5α,8α,8aβ)-	8080 8270	0.05 10
Allyl chloride .....	107-05-1	1-Propene, 3-chloro- .....	8010 8240	5 100
4-Aminobiphenyl .....	92-67-1	[1,1'-Biphenyl]- 4-amine .....	8270	10
Aniline .....	62-53-3	Benzenamine .....	8270	10
Anthracene .....	120-12-7	Anthracene .....	8100 8270	200 10
Antimony .....	(Total)	Antimony .....	6010 7040 7041	300 2,000 30
Aramite .....	140-57-8	Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl) phe- noxy]-1-methylethyl ester	8270	10
Arsenic .....	(Total)	Arsenic .....	6010 7060 7061	500 10 20
Barium .....	(Total)	Barium .....	6010 7080	20 1,000
Benzene .....	71-43-2	Benzene .....	8020 8240	2 5
Benzo[a]anthracene; Benzan- thracene .....	56-55-3	Benz[a]anthracene .....	8100 8270	200 10
Benzo[b]fluoranthene .....	205-99-2	Benz[e]acephenanthrylene .....	8100 8270	200 10
Benzo[k]fluoranthene .....	207-08-9	Benzo[k]fluoranthene .....	8100 8270	200 10
Benzo[ghi]perylene .....	191-24-2	Benzo[ghi]perylene .....	8100 8270	200 10
Benzo[a]pyrene .....	50-32-8	Benzo[a]pyrene .....	8100 8270	200 10
Benzyl alcohol .....	100-51-6	Benzenemethanol .....	8270	20

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Beryllium .....	(Total)	Beryllium .....	6010 7090 7091	3 50 2
alpha-BHC .....	319-84-6	Cyclohexane, 1,2,3,4,5,6- hexa- chloro-, (1α,2α,3β,4α,5β, 6β)-	8080 8250	0.05 10
beta-BHC .....	319-85-7	Cyclohexane, 1,2,3,4,5,6- hexa- chloro-, (1α,2β,3α,4β,5α, 6β)-	8080 8250	0.05 40
delta-BHC .....	319-86-8	Cyclohexane, 1,2,3,4,5,6- hexa- chloro-, (1α,2α,3α,4β,5α, 6β)-	8080 8250	0.1 30
gamma-BHC; Lindane .....	58-89-9	Cyclohexane, 1,2,3,4,5,6- hexa- chloro-, (1α,2α,3β,4α,5α, 6β)-	8080 8250	0.05 10
Bis(2-chloroethoxy)methane .....	111-91-1	Ethane, 1,1'-[methylenebis(oxy)] bis [2-chloro-	8270	10
Bis(2-chloroethyl)ether .....	111-44-4	Ethane, 1,1'-oxybis[2-chloro-	8270	10
Bis(2-chloro-1-methylethyl) ether; 2,2'- Di- chlorodiisopropyl ether	108-60-1	Propane, 2,2'-oxybis[1-chloro-	8010 8270	100 10
Bis(2-ethylhexyl) phthalate .....	117-81-7	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl)ester	8060 8270	20 10
Bromodichloromethane .....	75-27-4	Methane, bromodichloro-	8010 8240	1 5
Bromoform; Tribromomethane	75-25-2	Methane, tribromo-	8010 8240	2 5
4-Bromophenyl phenyl ether .....	101-55-3	Benzene, 1-bromo-4-phenoxy-	8270	10
Butyl benzyl phthalate; Benzyl butyl phthalate	85-68-7	1,2-Benzenedicarboxylic acid, butyl phe- nylmethyl ester	8060 8270	5 10
Cadmium .....	(Total)	Cadmium .....	6010 7130 7131	40 50 1
Carbon disulfide .....	75-15-0	Carbon disulfide .....	8240	5
Carbon tetrachloride .....	56-23-5	Methane, tetrachloro-	8010 8240	1 5
Chlordane .....	57-74-9	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octa- chloro-2,3,3a,4,7,7a- hexahydro-	8080 8250	0.1 10
p-Chloroaniline .....	106-47-8	Benzenamine, 4-chloro-	8270	20
Chlorobenzene .....	108-90-7	Benzene, chloro-	8010 8020 8240	2 2 5
Chlorobenzilate .....	510-15-6	Benzenoacetic acid, 4-chloro- α-(4-chlorophenyl)-α-hydroxy-, ethyl ester	8270	10
p-Chloro-m-cresol .....	59-50-7	Phenol, 4-chloro-3-methyl-	8040 8270	5 20
Chloroethane; Ethyl chloride .....	75-00-3	Ethane, chloro-	8010 8240	5 10
Chloroform .....	67-66-3	Methane, trichloro-	8010 8240	0.5 5
2-Chloronaphthalene .....	91-58-7	Naphthalene, 2-chloro-	8120 8270	10 10
2-Chlorophenol .....	95-57-8	Phenol, 2-chloro-	8040 8270	5 10
4-Chlorophenyl phenyl ether .....	7005-72-3	Benzene, 1-chloro-4-phenoxy-	8270	10
Chloroprene .....	126-99-8	1,3-Butadiene, 2-chloro-	8010 8240	50 5

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Chromium .....	(Total)	Chromium .....	6010 7190 7191	70 500 10
Chrysene .....	218-01-9	Chrysene .....	8100 8270	200 10
Cobalt .....	(Total)	Cobalt .....	6010 7200 7201	70 500 10
Copper .....	(Total)	Copper .....	6010 7210	60 200
m-Cresol .....	108-39-4	Phenol, 3-methyl- .....	8270	10
o-Cresol .....	95-48-7	Phenol, 2-methyl- .....	8270	10
p-Cresol .....	106-44-5	Phenol, 4-methyl- .....	8270	10
Cyanide .....	57-12-5	Cyanide .....	9010	40
2,4-D; 2,4-Dichlorophenoxyacetic acid	94-75-7	Acetic acid, (2,4- dichlorophenoxy)-	8150	10
4,4'-DDD .....	72-54-8	Benzene 1,1'-(2,2-dichloroethylidene) bis[4-chloro-	8080 8270	0.1 10
4,4'-DDE .....	72-55-9	Benzene, 1,1'-(dichloroethenylidene) bis[4-chloro-	8080 8270	0.05 10
4,4'-DDT .....	50-29-3	Benzene, 1,1'-(2,2,2-trichloroethylidene) bis[4-chloro-	8080 8270	0.1 10
Diallate .....	2303-16-4	Carbamothioic acid, bis(1-methylethyl)-, S- (2,3-dichloro-2-propenyl) ester	8270	10
Dibenz[a,h]anthracene .....	53-70-3	Dibenz[a,h]anthracene .....	8100 8270	200 10
Dibenzofuran .....	132-64-9	Dibenzofuran .....	8270	10
Dibromochloromethane; Chlorodibromomethane	124-48-1	Methane, dibromochloro- .....	8010 8240	1 5
1,2-Dibromo-3-chloropropane; DBCP	96-12-8	Propane, 1,2-dibromo-3-chloro- .....	8010 8240 8270	100 5 10
1,2-Dibromoethane; Ethylene dibromide	106-93-4	Ethane, 1,2-dibromo- .....	8010 8240	10 5
Di-n-butyl phthalate .....	84-74-2	1,2-Benzenedicarboxylic acid, dibutyl ester	8060 8270	5 10
o-Dichlorobenzene .....	95-50-1	Benzene, 1,2-dichloro- .....	8010 8020 8120 8270	2 5 10 10
m-Dichlorobenzene .....	541-73-1	Benzene, 1,3-dichloro- .....	8010 8020 8120 8270	5 5 10 10
p-Dichlorobenzene .....	106-46-7	Benzene, 1,4-dichloro- .....	8010 8020 8120 8270	2 5 15 10
3,3'-Dichlorobenzidine .....	91-94-1	[1,1'-Biphenyl]- 4,4'- diamine, 3,3'-dichloro-	8270	20
trans-1,4-Dichloro-2-butene .... and	110-57-6 and	2-Butene, 1,4-dichloro-, (E)- .....	8240 8010	5 10
Dichlorodifluoromethane .....	75-71-8	Methane, dichlorodifluoro- .....	8240	5

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1,1-Dichloroethane	75-34-3	Ethane, 1,1-dichloro-	8010 8240	1 5
1,2-Dichloroethane; Ethylene dichloride	107-06-2	Ethane, 1,2-dichloro-	8010 8240	0.5 5
1,1-Dichloroethylene; Vinylidene chloride	75-35-4	Ethene, 1,1-dichloro-	8010 8240	1 5
trans-1,2-Dichloroethylene	156-60-5	Ethene, 1,2-dichloro-, (E)-	8010 8240	1 5
2,4-Dichlorophenol	120-83-2	Phenol, 2,4-dichloro-	8040 8270	5 10
2,6-Dichlorophenol	87-65-0	Phenol, 2,6-dichloro-	8270	10
1,2-Dichloropropane	78-87-5	Propane, 1,2-dichloro-	8010 8240	0.5 5
cis-1,3-Dichloropropene	10061-01-5	1-Propene, 1,3-dichloro-, (Z)-	8010 8240	20 5
trans-1,3-Dichloropropene	10061-02-6	1-Propene, 1,3-dichloro-, (E)-	8010 8240	5 5
Dieldrin	60-57-1	2,7:3,6-Dimethanonaphth [2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a- octahydro-, (1α,2β,2α,3β,6β,6α,7β, 7α)-	8080 8270	0.05 10
Diethyl phthalate	84-66-2	1,2-Benzenedicarboxylic acid, diethyl ester	8060 8270	5 10
O,O-Diethyl O-2-pyrazinyl phosphorothioate; Thionazin	297-97-2	Phosphorothioic acid, O,O- diethyl O-pyrazinyl ester	8270	10
Dimethoate	60-51-5	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)- 2-oxoethyl] ester	8270	10
p-(Dimethylamino) azobenzene	60-11-7	Benzenamine, N,N-dimethyl-4-(phenyl-azo)-	8270	10
7,12-Dimethylbenz[a] anthracene	57-97-6	Benz[a]anthracene, 7,12- dimethyl-	8270	10
3,3'-Dimethylbenzidine	119-93-7	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-	8270	10
alpha, alpha-Dimethylphenethylamine	122-09-8	Benzenethanamine, α,α-dimethyl-	8270	10
2,4-Dimethylphenol	105-67-9	Phenol, 2,4-dimethyl-	8040 8270	5 10
Dimethyl phthalate	131-11-3	1,2-Benzenedicarboxylic acid, dimethyl ester	8060 8270	5 10
m-Dinitrobenzene	99-65-0	Benzene, 1,3-dinitro-	8270	10
4,6-Dinitro-o-cresol	534-52-1	Phenol, 2-methyl-4,6-dinitro-	8040 8270	150 50
2,4-Dinitrophenol	51-28-5	Phenol, 2,4-dinitro-	8040 8270	150 50
2,4-Dinitrotoluene	121-14-2	Benzene, 1-methyl-2,4-dinitro-	8090 8270	0.2 10
2,6-Dinitrotoluene	606-20-2	Benzene, 2-methyl-1,3-dinitro-	8090 8270	0.1 10
Dinoseb; DNBP; 2-sec-Butyl-4,6- dinitrophenol	88-85-7	Phenol, 2-(1-methylpropyl)-4,6- dinitro-	8150 8270	1 10
Di-n-octyl phthalate	117-84-0	1,2-Benzenedicarboxylic acid, dioctyl ester	8060 8270	30 10
1,4-Dioxane	123-91-1	1,4-Dioxane	8015	150
Diphenylamine	122-39-4	Benzenamine, N-phenyl-	8270	10

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Disulfoton	298-04-4	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl]ester	8140 8270	2 10
Endosulfan I	959-98-8	6,9-Methano-2,4,3-benzodioxathiepin,6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide,(3α,5aβ,6α,9 α,9aβ)-	8080 8250	0.1 10
Endosulfan II	33213-65-9	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide, (3α,5aα,6β,9β, 9aα)-	8080	0.05
Endosulfan sulfate	1031-07-8	6,9-Methano-2,4,3-benzodioxathiepin,6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3,3-dioxide	8080 8270	0.5 10
Endrin	72-20-8	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a, 7,7a- octahydro-, (1α,2β, 2aβ,3α,6α,6aβ,7β, 7aα)-	8080 8250	0.1 10
Endrin aldehyde	7421-93-4	1,2,4-Methenocyclopenta[cd] pentalene-5-carboxaldehyde,2,2a,3,3,4,7-hexachlorodecahydro-, (1α,2β,2aβ,4β,4aβ,5β,6aβ, 6bβ,7R*)-	8080 8270	0.2 10
Ethylbenzene	100-41-4	Benzene, ethyl-	8020 8240	2 5
Ethyl methacrylate	97-63-2	2-Propenoic acid, 2-methyl-, ethyl ester	8015 8240 8270	10 5 10
Ethyl methanesulfonate	62-50-0	Methanesulfonic acid, ethyl ester	8270	10
Famphur	52-85-7	Phosphorothioic acid, O-[4-[(dimethylamino)sulfonyl] phenyl]-O,O-dimethyl ester	8270	10
Fluoranthene	206-44-0	Fluoranthene	8100 8270	200 10
Fluorene	86-73-7	9H-Fluorene	8100 8270	200 10
Heptachlor	76-44-8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-	8080 8270	0.05 10
Heptachlor epoxide	1024-57-3	2,5-Methano-2H-indeno[1,2-b] oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a,-hexahydro-,(1α,1bβ,2α,5α, 5aβ,6β,6aα)	8080 8270	1 10
Hexachlorobenzene	118-74-1	Benzene, hexachloro-	8120 8270	0.5 10
Hexachlorobutadiene	87-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-	8120 8270	5 10
Hexachlorocyclopentadiene	77-47-4	1,3-Cyclopentadiene,1,2,3,4,5,5-hexachloro-	8120 8270	5 10
Hexachloroethane	67-72-1	Ethane, hexachloro-	8120 8270	0.5 10
Hexachlorophene	70-30-4	Phenol, 2,2'-methylenebis[3,4,6-trichloro-	8270	10
Hexachloropropene	1888-71-7	1-Propene, 1,1,2,3,3,3-hexachloro-	8270	10

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2-Hexanone	591-78-6	2-Hexanone	8240	50
Indeno(1,2,3-cd)pyrene	193-39-5	Indeno[1,2,3-cd]pyrene	8100 8270	200 10
Isobutyl alcohol	78-83-1	1-Propanol, 2-methyl-	8015	50
Isodrin	465-73-6	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa- chloro-1,4,4a,5,8,8a hexahydro-(1α, 4α, 4aβ,5β, 8β,8aβ)-	8270	10
Isophorone	78-59-1	2-Cyclohexen-1-one, 3,5,5-trimethyl-	8090 8270	60 10
Isosafrole	120-58-1	1,3-Benzodioxole, 5-(1-propenyl)-	8270	10
Kepone	143-50-0	1,3,4-Metheno-2H-cyclobuta-[cd]penta- len-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decach- lorooctahydro-	8270	10
Lead	(Total)	Lead	6010 7420 7421	40 1,000 10
Mercury	(Total)	Mercury	7470	2
Methacrylonitrile	126-98-7	2-Propenenitrile, 2-methyl-	8015 8240	5 5
Methapyrilene	91-80-5	1,2-Ethanediamine, N,N-dimethyl-N'-2- pyridinyl- N'-(2-thienylmethyl)-	8270	10
Methoxychlor	72-43-5	Benzene, 1,1'-(2,2,2,2-trichloro- ethylidene)bis[4-methoxy-	8080 8270	2 10
Methyl bromide; Bromomethane	74-83-9	Methane, bromo-	8010 8240	20 10
Methyl chloride; Chloromethane	74-87-3	Methane, chloro-	8010 8240	1 10
3-Methylcholanthrene	56-49-5	Benz[j]aceanthrylene, 1,2-dihy- dro-3-methyl-	8270	10
Methylene bromide; Dibromo- methane	74-95-3	Methane, dibromo-	8010 8240	15 5
Methylene chloride; Dichloro- methane	75-09-2	Methane, dichloro-	8010 8240	5 5
Methyl ethyl ketone; MEK	78-93-3	2-Butanone	8015 8240	10 100
Methyl iodide; Iodomethane	74-88-4	Methane, iodo-	8010 8240	40 5
Methyl methacrylate	80-62-6	2-Propenoic acid, 2-methyl-, methyl ester	8015 8240	2 5
Methyl methanesulfonate	66-27-3	Methanesulfonic acid, methyl ester	8270	10
2-Methylnaphthalene	91-57-6	Naphthalene, 2-methyl-	8270	10
Methyl parathion; Parathion methyl	298-00-0	Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester	8140 8270	0.5 10
4-Methyl-2-pentanone; Methyl isobutyl ketone	108-10-1	2-Pentanone, 4-methyl-	8015 8240	5 50
Naphthalene	91-20-3	Naphthalene	8100 8270	200 10
1,4-Naphthoquinone	130-15-4	1,4-Naphthalenedione	8270	10
1-Naphthylamine	134-32-7	1-Naphthalenamine	8270	10
2-Naphthylamine	91-59-8	2-Naphthalenamine	8270	10
Nickel	(Total)	Nickel	6010 7520	50 400

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o-Nitroaniline . . . . .	88-74-4	Benzenamine, 2-nitro- . . . . .	8270	50
m-Nitroaniline . . . . .	99-09-2	Benzenamine, 3-nitro- . . . . .	8270	50
p-Nitroaniline . . . . .	100-01-6	Benzenamine, 4-nitro- . . . . .	8270	50
Nitrobenzene . . . . .	98-95-3	Benzene, nitro- . . . . .	8090 8270	40 10
o-Nitrophenol . . . . .	88-75-5	Phenol, 2-nitro- . . . . .	8040 8270	5 10
p-Nitrophenol . . . . .	100-02-7	Phenol, 4-nitro- . . . . .	8040 8270	10 50
4-Nitroquinoline 1-oxide . . . . .	56-57-5	Quinoline, 4-nitro-, 1-oxide . . . . .	8270	10
N-Nitrosodi-n-butylamine . . . . .	924-16-3	1-Butanamine, N-butyl-N-nitroso- . . . . .	8270	10
N-Nitrosodiethylamine . . . . .	55-18-5	Ethanamine, N-ethyl-N-nitroso-. . . . .	8270	10
N-Nitrosodimethylamine . . . . .	62-75-9	Methanamine, N-methyl-N-nitroso-	8270	10
N-Nitrosodiphenylamine . . . . .	86-30-6	Benzenamine, N-nitroso-N-phenyl- . . . . .	8270	10
N-Nitrosodipropylamine; Di-n-propylnitrosamine	621-64-7	1-Propanamine, N-nitroso-N-propyl-	8270	10
N-Nitrosomethylethylamine . . . . .	10595-95-6	Ethanamine, N-methyl-N-nitroso- . . . . .	8270	10
N-Nitrosomorpholine . . . . .	59-89-2	Morpholine, 4-nitroso- . . . . .	8270	10
N-Nitrosopiperidine . . . . .	100-75-4	Piperidine, 1-nitroso- . . . . .	8270	10
N-Nitrosopyrrolidine . . . . .	930-55-2	Pyrrolidine, 1-nitroso- . . . . .	8270	10
5-Nitro-o-toluidine . . . . .	99-55-8	Benzenamine, 2-methyl-5-nitro- . . . . .	8270	10
Parathion . . . . .	56-38-2	Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester	8270	10
Polychlorinated biphenyls; PCBs	See Note 7	1,1'-Biphenyl, chloro derivatives . . . . .	8080 8250	50 100
Polychlorinated dibenzo-p-dioxins; PCDDs	See Note 8	Dibenzo[b,e][1,4]dioxin, chloro derivatives	8280	0.01
Polychlorinated dibenzofurans; PCDFs	See Note 9	Dibenzofuran, chloro derivatives . . . . .	8280	0.01
Pentachlorobenzene . . . . .	608-93-5	Benzene, pentachloro- . . . . .	8270	10
Pentachloroethane . . . . .	76-01-7	Ethane, pentachloro- . . . . .	8240 8270	5 10
Pentachloronitrobenzene . . . . .	82-68-8	Benzene, pentachloronitro- . . . . .	8270	10
Pentachlorophenol . . . . .	87-86-5	Phenol, pentachloro- . . . . .	8040 8270	5 50
Phenacetin . . . . .	62-44-2	Acetamide, N-(4-ethoxyphenyl) . . . . .	8270	10
Phenanthrene . . . . .	85-01-8	Phenanthrene . . . . .	8100 8270	200 10
Phenol . . . . .	108-95-2	Phenol . . . . .	8040 8270	1 10
p-Phenylenediamine . . . . .	106-50-3	1,4-Benzenediamine . . . . .	8270	10
Phorate . . . . .	298-02-2	Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester	8140 8270	2 10
2-Picoline . . . . .	109-06-8	Pyridine, 2-methyl- . . . . .	8240 8270	5 10
Pronamide . . . . .	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-	8270	10
Propionitrile; Ethyl cyanide . . . . .	107-12-0	Propanenitrile . . . . .	8015 8240	60 5
Pyrene . . . . .	129-00-0	Pyrene . . . . .	8100 8270	200 10

Common name <sup>2</sup>	CAS RN <sup>3</sup>	Chemical abstracts service index name <sup>4</sup>	Suggested methods <sup>5</sup>	PQL (µg/L) <sup>6</sup>
Pyridine	110-86-1	Pyridine	8240 8270	5 10
Safrole	94-59-7	1,3-Benzodioxole, 5-(2-propenyl)-	8270	10
Selenium	(Total)	Selenium	6010 7740 7741	750 20 20
Silver	(Total)	Silver	6010 7760	70 100
Silvex; 2,4,5-TP	93-72-1	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-	8150	2
Styrene	100-42-5	Benzene, ethenyl-	8020 8240	1 5
Sulfide	18496-25-8	Sulfide	9030	10,000
2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid	93-76-5	Acetic acid, (2,4,5-trichlorophenoxy)-	8150	2
2,3,7,8-TCDD; 2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	Dibenzo[b,e][1,4]dioxin, 2,3,7,8-tetrachloro-	8280	0.005
1,2,4,5-Tetrachlorobenzene	95-94-3	Benzene, 1,2,4,5-tetrachloro-	8270	10
1,1,1,2-Tetrachloroethane	630-20-6	Ethane, 1,1,1,2-tetrachloro-	8010 8240	5 5
1,1,2,2-Tetrachloroethane	79-34-5	Ethane, 1,1,2,2-tetrachloro-	8010 8240	0.5 5
Tetrachloroethylene; Perchloroethylene; Tetrachloroethene	127-18-4	Ethene, tetrachloro-	8010 8240	0.5 5
2,3,4,6-Tetrachlorophenol	58-90-2	Phenol, 2,3,4,6-tetrachloro-	8270	10
Tetraethyl dithiopyrophosphate; Sulfotepp	3689-24-5	Thiodiphosphoric acid ((HO) <sub>2</sub> P(S) <sub>2</sub> O), tetraethyl ester	8270	10
Thallium	(Total)	Thallium	6010 7840 7841	400 1,000 10
Tin	(Total)	Tin	7870	8,000
Toluene	108-88-3	Benzene, methyl-	8020 8240	2 5
o-Toluidine	95-53-4	Benzenamine, 2-methyl-	8270	10
Toxaphene	8001-35-2	Toxaphene	8080 8250	2 10
1,2,4-Trichlorobenzene	120-82-1	Benzene, 1,2,4-trichloro-	8270	10
1,1,1-Trichloroethane; Methylchloroform	71-55-6	Ethane, 1,1,1-trichloro-	8240	5
1,1,2-Trichloroethane	79-00-5	Ethane, 1,1,2-trichloro-	8010 8240	0.2 5
Trichloroethylene; Trichloroethene	79-01-6	Ethene, trichloro-	8010 8240	1 5
Trichlorofluoromethane	75-69-4	Methane, trichlorofluoro-	8010 8240	10 5
2,4,5-Trichlorophenol	95-95-4	Phenol, 2,4,5-trichloro-	8270	10
2,4,6-Trichlorophenol	88-06-2	Phenol, 2,4,6-trichloro-	8040 8270	5 10
1,2,3-Trichloropropane	96-18-4	Propane, 1,2,3-trichloro-	8010 8240	10 5
O,O,O-Triethyl phosphorothioate	126-68-1	Phosphorothioic acid, O,O,O-triethyl ester	8270	10



Common name <sup>2</sup>	CAS RN <sup>3</sup>	Chemical abstracts service index name <sup>4</sup>	Suggested methods <sup>5</sup>	PQL (µg/L) <sup>6</sup>
sym-Trinitrobenzene . . . . .	99-35-4	Benzene, 1,3,5-trinitro- . . . . .	8270	10
Vanadium . . . . .	(Total)	Vanadium . . . . .	6010	80
			7910	2,000
			7911	40
Vinyl acetate . . . . .	108-05-4	Acetic acid, ethenyl ester . . . . .	8240	5
Vinyl chloride . . . . .	75-01-4	Ethene, chloro- . . . . .	8010	2
			8240	10
Xylene (total) . . . . .	1330-20-7	Benzene, dimethyl- . . . . .	8020	5
			8240	5
Zinc . . . . .	(Total)	Zinc . . . . .	6010	20
			7950	50

<sup>1</sup> The rule requirements pertain only to the list of substances. The right hand columns (Methods and PQL) are given for informational purposes only. See also footnotes 5 and 6.

<sup>2</sup> Common names are those widely used in government regulations, scientific publications and commerce; synonyms exist for many chemicals.

<sup>3</sup> Chemical Abstracts Service registry number. Where "Total" is entered, all species in the groundwater that contain this element are included.

<sup>4</sup> CAS index names are those used in the 9th Cumulative Index.

<sup>5</sup> Suggested methods refer to analytical procedure numbers used in EPA SW-846, "Test Methods for Evaluating Solid Waste", incorporated by reference in s. NR 660.11. Analytical details can be found in SW-846 and in documentation on file with EPA. The packed column gas chromatography methods 8010, 8020, 8030, 8040, 8060, 8080, 8090, 8110, 8120, 8140, 8150, 8240 and 8250 were promulgated methods through update IIB of SW-846 and, as of update III, EPA has replaced these methods with "capillary column GC methods", as the suggested methods.

<sup>6</sup> Practical Quantitation Limits (PQLs) are the lowest concentrations of analytes in groundwaters that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions. The PQLs listed are generally stated to one significant figure. CAUTION: The PQL values in many cases are based only on a general estimate for and not on a determination for individual compounds. PQLs are not a part of the rule.

<sup>7</sup> Polychlorinated biphenyls (CAS RN 1336-36-3). This category contains congener chemicals, including constituents of Aroclor-1016 (CAS RN 12674-11-2), Aroclor-1221 (CAS RN 11104-28-2), Aroclor-1232 (CAS RN 11141-16-5), Aroclor-1242 (CAS RN 53469-21-9), Aroclor-1248 (CAS RN 12672-29-6), Aroclor-1254 (CAS RN 11097-69-1) and Aroclor-1260 (CAS RN 11096-82-5). The PQL shown is an average value for PCB congeners.

<sup>8</sup> This category contains congener chemicals, including tetrachlorodibenzo-p-dioxins (see also 2,3,7,8-TCDD), pentachlorodibenzo-p-dioxins and hexachlorodibenzo-p-dioxins. The PQL shown is an average value for PCDD congeners.

<sup>9</sup> This category contains congener chemicals, including tetrachlorodibenzofurans, pentachlorodibenzofurans and hexachlorodibenzofurans. The PQL shown is an average value for PCDF congeners.