

Part 264 Appendix IX

APPENDIX IX--GROUNDWATER MONITORING LIST¹

| Ground-Water Monitoring List ¹ | | | | |
|---|---------------------|---|--------------------------------|-------------------------|
| Common name ² | CAS RN ³ | Chemical abstracts service index name ⁴ | Suggested methods ⁵ | PQL (µg/L) ⁶ |
| Acenaphthene | 83-32-9 | Acenaphthylene, 1,2-dihydro- | 8100 | 200 |
| | | | 8270 | 10 |
| Acenaphthylene | 208-96-8 | Acenaphthylene | 8100 | 200 |
| | | | 8270 | 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 | 5 |
| | | | 8240 | 5 |
| Acrylonitrile | 107-13-1 | 2-Propenenitrile | 8030 | 5 |
| | | | 8240 | 5 |
| Aldrin | 309-00-2 | 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-(1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)- | 8080 | 0.05 |
| | | | 8270 | 10 |
| Allyl chloride | 107-05-1 | 1-Propene, 3-chloro- | 8010 | 5 |
| | | | 8240 | 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 | 200 |
| | | | 8270 | 10 |
| Antimony | (Total) | Antimony | 6010 | 300 |
| | | | 7040 | 2,000 |
| | | | 7041 | 30 |
| Aramite | 140-57-8 | Sulfurous acid, 2-chloroethyl 2-[4-(1,1-dimethylethyl)phenoxy]-1-methylethyl ester | 8270 | 10 |
| Arsenic | (Total) | Arsenic | 6010 | 500 |
| | | | 7060 | 10 |
| | | | 7061 | 20 |
| Barium | (Total) | Barium | 6010 | 20 |
| | | | 7080 | 1,000 |
| Benzene | 71-43-2 | Benzene | 8020 | 2 |
| | | | 8240 | 5 |

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| Common name ² | CAS RN ³ | Chemical abstracts service index name ⁴ | Suggested methods ⁵ | PQL (µg/L) ⁶ |
|--|---------------------|---|--------------------------------|-------------------------|
| Benzo[a]anthracene; Benzo[a]anthracene | 56-55-3 | Benz[a]anthracene | 8100 | 200 |
| | | | 8270 | 10 |
| Benzo[b]fluoranthene | 205-99-2 | Benz[e]acephenanthrylene | 8100 | 200 |
| | | | 8270 | 10 |
| Benzo[k]fluoranthene | 207-08-9 | Benzo[k]fluoranthene | 8100 | 200 |
| | | | 8270 | 10 |
| Benzo[ghi]perylene | 191-24-2 | Benzo[ghi]perylene | 8100 | 200 |
| | | | 8270 | 10 |
| Benzo[a]pyrene | 50-32-8 | Benzo[a]pyrene | 8100 | 200 |
| | | | 8270 | 10 |
| Benzyl alcohol | 100-51-6 | Benzenemethanol | 8270 | 20 |
| Beryllium | (Total) | Beryllium | 6010 | 3 |
| | | | 7090 | 50 |
| | | | 7091 | 2 |
| alpha-BHC | 319-84-6 | Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha, 3beta, 4alpha, 5beta, 6beta)- | 8080 | 0.05 |
| | | | 8250 | 10 |
| beta-BHC | 319-85-7 | Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2beta, 3alpha, 4beta, 5alpha, 6beta)- | 8080 | 0.05 |
| | | | 8250 | 40 |
| delta-BHC | 319-86-8 | Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha, 3alpha, 4beta, 5alpha, 6beta)- | 8080 | 0.1 |
| | | | 8250 | 30 |
| gamma-BHC; Lindane | 58-89-9 | Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha, 3beta, 4alpha, 5alpha, 6beta)- | 8080 | 0.05 |
| | | | 8250 | 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'-Dichlorodiisopropyl ether | 108-60-1 | Propane, 2,2'-oxybis[1-chloro- | 8010 | 100 |
| | | | 8270 | 10 |

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| Common name ² | CAS RN ³ | Chemical abstracts service index name ⁴ | Suggested methods ⁵ | PQL (µg/L) ⁶ |
|--|---------------------|---|--------------------------------|-------------------------|
| Bis(2-ethylhexyl) phthalate | 117-81-7 | 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl)ester | 8060 | 20 |
| | | | 8270 | 10 |
| Bromodichloromethane | 75-27-4 | Methane, bromodichloro- | 8010 | 1 |
| | | | 8240 | 5 |
| Bromoform; Tribromomethane | 75-25-2 | Methane, tribromo- | 8010 | 2 |
| | | | 8240 | 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 phenylmethyl ester | 8060 | 5 |
| | | | 8270 | 10 |
| Cadmium | (Total) | Cadmium | 6010 | 40 |
| | | | 7130 | 50 |
| | | | 7131 | 1 |
| Carbon disulfide | 75-15-0 | Carbon disulfide | 8240 | 5 |
| Carbon tetrachloride | 56-23-5 | Methane, tetrachloro- | 8010 | 1 |
| | | | 8240 | 5 |
| Chlordane | 57-74-9 | 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro- | 8080 | 0.1 |
| | | | 8250 | 10 |
| p-Chloroaniline | 106-47-8 | Benzenamine, 4-chloro- | 8270 | 20 |
| Chlorobenzene | 108-90-7 | Benzene, chloro- | 8010 | 2 |
| | | | 8020 | 2 |
| | | | 8240 | 5 |
| Chlorobenzilate | 510-15-6 | Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester | 8270 | 10 |
| p-Chloro-m-cresol | 59-50-7 | Phenol, 4-chloro-3-methyl- | 8040 | 5 |
| | | | 8270 | 20 |
| Chloroethane; Ethyl chloride | 75-00-3 | Ethane, chloro- | 8010 | 5 |
| | | | 8240 | 10 |
| Chloroform | 67-66-3 | Methane, trichloro- | 8010 | 0.5 |
| | | | 8240 | 5 |

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| Common name ² | CAS RN ³ | Chemical abstracts service index name ⁴ | Suggested methods ⁵ | PQL (µg/L) ⁶ |
|---------------------------------------|---------------------|---|--------------------------------|-------------------------|
| 2-Chloronaphthalene | 91-58-7 | Naphthalene, 2-chloro- | 8120 | 10 |
| | | | 8270 | 10 |
| 2-Chlorophenol | 95-57-8 | Phenol, 2-chloro- | 8040 | 5 |
| | | | 8270 | 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 | 50 |
| | | | 8240 | 5 |
| Chromium | (Total) | Chromium | 6010 | 70 |
| | | | 7190 | 500 |
| | | | 7191 | 10 |
| Chrysene | 218-01-9 | Chrysene | 8100 | 200 |
| | | | 8270 | 10 |
| Cobalt | (Total) | Cobalt | 6010 | 70 |
| | | | 7200 | 500 |
| | | | 7201 | 10 |
| Copper | (Total) | Copper | 6010 | 60 |
| | | | 7210 | 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 | 0.1 |
| | | | 8270 | 10 |
| 4,4'-DDE | 72-55-9 | Benzene, 1,1'-(dichloroethenylidene)bis[4-chloro- | 8080 | 0.05 |
| | | | 8270 | 10 |
| 4,4'-DDT | 50-29-3 | Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro- | 8080 | 0.1 |
| | | | 8270 | 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 | 200 |
| | | | 8270 | 10 |
| Dibenzofuran | 132-64-9 | Dibenzofuran | 8270 | 10 |

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|--|---------------------|--|--------------------------------|-------------------------|
| Dibromo-chloromethane; 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 | 110-57-6 | 2-Butene, 1,4-dichloro-, (E)- | 8240 | 5 |
| Dichlorodifluoromethane | 75-71-8 | Methane, dichlorodifluoro- | 8010 8240 | 10 5 |
| 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 |

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| Common name ² | CAS RN ³ | Chemical abstracts service index name ⁴ | Suggested methods ⁵ | PQL (µg/L) ⁶ |
|---|---------------------|---|--------------------------------|-------------------------|
| 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-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- | 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-(phenylazo)- | 8270 | 10 |
| 7,12-Dimethylbenz[a]anthracene | 57-97-6 | Benz[a]anthracene, 7,12-dimethyl- | 8270 | 10 |

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| Common name ² | CAS RN ³ | Chemical abstracts service index name ⁴ | Suggested methods ⁵ | PQL (µg/L) ⁶ |
|--|---------------------|--|--------------------------------|-------------------------|
| 3,3'-Dimethylbenzidine | 119-93-7 | [1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl- | 8270 | 10 |
| alpha, alpha-Dimethylphenethylamine | 122-09-8 | Benzeneethanamine, alpha,alpha-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-ocresol | 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 |
| 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, (3alpha,5abeta,6alpha,9alpha,9abeta)- | 8080 8250 | 0.1 10 |

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|--------------------------|---------------------|--|--------------------------------|-------------------------|
| 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, (3alpha,5alpha,6beta,9beta,9alpha)- | 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-, (1alpha,2beta,2beta,3alpha,6alpha,6alpha,7beta,7alpha)- | 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-, (1alpha,2beta,2beta,4beta,4beta,-5beta,6beta,6beta,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-, (1alpha,1beta,2alpha,5alpha,5beta,6beta,6alpha)- | 8080 8270 | 1 10 |
| Hexachloro-benzene | 118-74-1 | Benzene, hexachloro- | 8120 8270 | 0.5 10 |

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|---------------------------|---------------------|---|--------------------------------|-------------------------|
| Hexachloro-butadiene | 87-68-3 | 1,3-Butadiene, 1,1,2,3,4,4-hexachloro- | 8120 | 5 |
| | | | 8270 | 10 |
| Hexachlorocyclopentadiene | 77-47-4 | 1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro- | 8120 | 5 |
| | | | 8270 | 10 |
| Hexachloro-ethane | 67-72-1 | Ethane, hexachloro- | 8120 | 0.5 |
| | | | 8270 | 10 |
| Hexachloro-phene | 70-30-4 | Phenol, 2,2'-methylenebis[3,4,6-trichloro- | 8270 | 10 |
| Hexachloro-propene | 1888-71-7 | 1-Propene, 1,1,2,3,3,3-hexachloro- | 8270 | 10 |
| 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 | 200 |
| | | | 8270 | 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-hexachloro-1,4,4a,5,8,8a hexahydro-(1alpha,4alpha,4abeta,5beta,8beta,8abeta)- | 8270 | 10 |
| Isophorone | 78-59-1 | 2-Cyclohexen-1-one, 3,5,5-trimethyl- | 8090 | 60 |
| | | | 8270 | 10 |
| Isosafrole | 120-58-1 | 1,3-Benzodioxole, 5-(1-propenyl)- | 8270 | 10 |
| Kepone | 143-50-0 | 1,3,4-Metheno-2H-cyclobuta-[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachloro-octahydro- | 8270 | 10 |
| Lead | (Total) | Lead | 6010 | 40 |
| | | | 7420 | 1,000 |
| | | | 7421 | 10 |
| Mercury | (Total) | Mercury | 7470 | 2 |
| | | | | |
| | | | | |
| Methacrylonitrile | 126-98-7 | 2-Propenenitrile, 2-methyl- | 8015 | 5 |
| | | | 8240 | 5 |
| Methapyriline | 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, trichloroethylidene)bis [4-methoxy- | 8080 | 2 |
| | | | 8270 | 10 |

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|---|---------------------|--|--------------------------------|-------------------------|
| 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-dihydro-3-methyl- | 8270 | 10 |
| Methylene bromide; Dibromomethane | 74-95-3 | Methane, dibromo- | 8010 8240 | 15 5 |
| Methylene chloride; Dichloromethane | 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 |

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| Common name ² | CAS RN ³ | Chemical abstracts service index name ⁴ | Suggested methods ⁵ | PQL (µg/L) ⁶ |
|--------------------------|---------------------|--|--------------------------------|-------------------------|
| 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 |
| 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-Nitrosodibutylamine | 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 |

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| Common name ² | CAS RN ³ | Chemical abstracts service index name ⁴ | Suggested methods ⁵ | PQL (µg/L) ⁶ |
|--|---------------------|---|--------------------------------|-------------------------|
| N-Nitrosodi-propylamine; Di-n-propyl-nitrosamine | 621-64-7 | 1-Propanamine, N-nitroso-N-propyl- | 8270 | 10 |
| N-Nitroso-methylethylamine | 10595-95-6 | Ethanamine, N-methyl-N-nitroso- | 8270 | 10 |
| N-Nitroso-morpholine | 59-89-2 | Morpholine, 4-nitroso- | 8270 | 10 |
| N-Nitrosopi-peridine | 100-75-4 | Piperidine, 1-nitroso- | 8270 | 10 |
| N-Nitroso-pyrrolidin e | 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 |
| Polychlori n-ated biphenyls; PCBs | See Note 7 | 1,1'-Biphenyl, chloro derivatives | 8080 8250 | 50 100 |
| Polychlori n-ated dibenzo-p-dioxins; PCDDs | See Note 8 | Dibenzo[b,e][1,4]dioxin, chloro derivatives | 8280 | 0.01 |
| Polychlori n-ated dibenzofu r-ans; PCDFs | See Note 9 | Dibenzofuran, chloro derivatives | 8280 | 0.01 |
| Pentachlor o-benzene | 608-93-5 | Benzene, pentachloro- | 8270 | 10 |
| Pentachlor o-ethane | 76-01-7 | Ethane, pentachloro- | 8240 8270 | 5 10 |
| Pentachlor o-nitrobenze ne | 82-68-8 | Benzene, pentachloronitro- | 8270 | 10 |
| Pentachlor o-phenol | 87-86-5 | Phenol, pentachloro- | 8040 8270 | 5 50 |
| Phenacetin | 62-44-2 | Acetamide, N-(4-ethoxyphenyl) | 8270 | 10 |

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| Common name ² | CAS RN ³ | Chemical abstracts service index name ⁴ | Suggested methods ⁵ | PQL (µg/L) ⁶ |
|---|---------------------|---|--------------------------------|-------------------------|
| Phenanthrene | 85-01-8 | Phenanthrene | 8100 | 200 |
| | | | 8270 | 10 |
| Phenol | 108-95-2 | Phenol | 8040 | 1 |
| | | | 8270 | 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 | 2 |
| | | | 8270 | 10 |
| 2-Picoline | 109-06-8 | Pyridine, 2-methyl- | 8240 | 5 |
| | | | 8270 | 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 | 60 |
| | | | 8240 | 5 |
| Pyrene | 129-00-0 | Pyrene | 8100 | 200 |
| | | | 8270 | 10 |
| Pyridine | 110-86-1 | Pyridine | 8240 | 5 |
| | | | 8270 | 10 |
| Safrole | 94-59-7 | 1,3-Benzodioxole, 5-(2-propenyl)- | 8270 | 10 |
| Selenium | (Total) | Selenium | 6010 | 750 |
| | | | 7740 | 20 |
| | | | 7741 | 20 |
| Silver | (Total) | Silver | 6010 | 70 |
| | | | 7760 | 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 | 1 |
| | | | 8240 | 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 |

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| Common name ² | CAS RN ³ | Chemical abstracts service index name ⁴ | Suggested methods ⁵ | PQL (µg/L) ⁶ |
|--|---------------------|--|--------------------------------|-------------------------|
| 1,2,4,5-Tetrachloro-benzene | 95-94-3 | Benzene, 1,2,4,5-tetrachloro- | 8270 | 10 |
| 1,1,1,2-Tetrachloro-ethane | 630-20-6 | Ethane, 1,1,1,2-tetrachloro- | 8010 8240 | 5 5 |
| 1,1,2,2-Tetrachloro-ethane | 79-34-5 | Ethane, 1,1,2,2-tetrachloro- | 8010 8240 | 0.5 5 |
| Tetrachloro-ethylene; Perchloro-ethylene; Tetrachloro-ethene | 127-18-4 | Ethene, tetrachloro- | 8010 8240 | 0.5 5 |
| 2,3,4,6-Tetrachloro-phenol | 58-90-2 | Phenol, 2,3,4,6-tetrachloro- | 8270 | 10 |
| Tetraethyl dithiopyr- o-phosphate; Sulfotepp | 3689-24-5 | Thiodiphosphoric acid ([(HO) ₂ P(S)] ₂ 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 |

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| Common name ² | CAS RN ³ | Chemical abstracts service index name ⁴ | Suggested methods ⁵ | PQL (µg/L) ⁶ |
|-----------------------------------|---------------------|--|--------------------------------|-------------------------|
| Trichloro-fluorome-thane | 75-69-4 | Methane, trichlorofluoro- | 8010 8240 | 10 5 |
| 2,4,5-Tri-chlorophen-ol | 95-95-4 | Phenol, 2,4,5-trichloro- | 8270 | 10 |
| 2,4,6-Tri-chlorophen-ol | 88-06-2 | Phenol, 2,4,6-trichloro- | 8040 8270 | 5 10 |
| 1,2,3-Tri-chloropro-pane | 96-18-4 | Propane, 1,2,3-trichloro- | 8010 8240 | 10 5 |
| O,O,O-Tri-ethyl phosphoro-thioate | 126-68-1 | Phosphorothioic acid, O,O,O-triethyl ester | 8270 | 10 |
| sym-Trini-trobenzene | 99-35-4 | Benzene, 1,3,5-trinitro- | 8270 | 10 |
| Vanadium | (Total) | Vanadium | 6010 7910 7911 | 80 2,000 40 |
| Vinyl acetate | 108-05-4 | Acetic acid, ethenyl ester | 8240 | 5 |
| Vinyl chloride | 75-01-4 | Ethene, chloro- | 8010 8240 | 2 10 |
| Xylene (total) | 1330-20-7 | Benzene, dimethyl- | 8020 8240 | 5 5 |
| Zinc | (Total) | Zinc | 6010 7950 | 20 50 |

FOOTNOTE: ¹The regulatory 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.

FOOTNOTE: ²Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.

FOOTNOTE: ³Chemical Abstracts Service registry number. Where "Total" is entered, all species in the ground water that contain this element are included.

FOOTNOTE: ⁴CAS index names are those used in the 9th Cumulative Index.

FOOTNOTE: ⁵Suggested Methods refer to analytical procedure numbers used in the EPA publication, SW-846, "Test Methods for Evaluating Solid Waste", Third Edition. Analytical details can be found in SW-846 and in documentation on file at 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.

FOOTNOTE: ⁶Practical Quantitation Limits (PQLs) are the lowest concentrations of analytes in ground waters 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 the method and

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not on a determination for individual compounds; PQLs are not a part of the regulation.

FOOTNOTE: ⁷Polychlorinated 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.

FOOTNOTE: ⁸This 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.

FOOTNOTE: ⁹This category contains congener chemicals, including tetrachlorodibenzofurans, pentachlorodibenzofurans, and hexachlorodibenzofurans. The PQL shown is an average value for PCDF congeners.