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3745-506-60 **Ground water assessment standards for parameters in the ground water assessment program.**

(A) Prior to implementing the ground water detection monitoring program in accordance with rule 3745-506-400 of the Administrative Code, an owner or operator shall determine a ground water assessment standard (GWAS) for the parameters required by the ground water detection monitoring program and ground water assessment monitoring schedules applicable to the facility contained in rules 3745-506-700 to 3745-506-999 of the Administrative Code to be used in the ground water assessment program in accordance with rule 3745-506-500 of the Administrative Code. A GWAS may be revised in accordance with paragraph (B) of this rule at any time during detection or assessment monitoring.

(B) A GWAS for a ground water monitoring parameter shall be established as follows:

(1) The GWAS shall be protective of public health and safety and the environment, prevent nuisances and health hazards, and not cause or contribute to water pollution.

(2) Except as provided in paragraphs (B)(3) to (B)(6) of this rule, the promulgated value for a parameter in Table 1 of this rule shall be the generic GWAS.

(3) If a hazardous parameter listed in Table 1 of this rule is designated as background, the GWAS shall be a value from the background data or an appropriate statistic based on the background data in accordance with the methods described in paragraph (B) of rule 3745-506-310 of the Administrative Code. If a non-hazardous parameter listed in Table 1 of this rule is designated as not applicable, then no GWAS is required for that parameter.

(4) If an owner or operator demonstrates that a parameter is already present in the ground water at a background concentration exceeding the corresponding generic GWAS in Table 1 of this rule, the owner or operator may instead use an appropriate value from the background data or an appropriate statistic based on the background data in accordance with the methods described in paragraph (B) of rule 3745-506-310 of the Administrative Code as an alternative GWAS.

(5) For a facility entering the compliance monitoring program within the ground water assessment program, if concentrations of a non-hazardous parameter in the release exceed the generic GWAS in Table 1 of this rule, the owner or operator may prior to implementing the initial compliance monitoring plan use a value from or an appropriate statistic based on the impacted downgradient monitoring well data as an alternative GWAS in accordance with the methods described in paragraph (B) of rule 3745-506-310 of the Administrative Code. Unless the director approves in writing, the owner or operator may not increase this alternative GWAS after implementing the compliance monitoring plan.

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(6) The director may by order require the use of a different GWAS than was submitted by the owner or operator pursuant to paragraphs (B)(3) to (B)(5) of this rule. The GWAS shall not be ordered below the background concentrations unless the director determines that a level below the background concentrations is necessary to protect of public health or safety or the environment, or prevent a nuisance or a health hazard, or prevent the cause or contribution to water pollution.

(C) Generic GWAS for parameters in the ground water assessment program.

The following table contains the common names of parameters that are widely used in government regulation, scientific publications, and commerce. However, synonyms may exist for many parameters. The chemical abstract service registry number (CAS RN) for each parameter has been provided. The metals include all species in ground water that contain the element. For the purpose of this chapter, parameters numbered one to fourteen in this table are considered non-hazardous and parameters numbered fifteen to two hundred forty-six are considered hazardous.

-Table 1-

<u>Parameter</u>	<u>CAS RN</u>	<u>GWAS mg/L</u>	<u>Origin^a</u>
<u>- Non-hazardous -</u>			
<u>1) Calcium</u>	<u>7440-70-2</u>	<u>Not applicable</u>	
<u>2) Magnesium</u>	<u>7439-95-4</u>	<u>Not applicable</u>	
<u>3) Potassium</u>	<u>7440-09-07</u>	<u>Not applicable</u>	
<u>4) Specific conductance</u>		<u>Not applicable</u>	
<u>5) Total alkalinity</u>		<u>Not applicable</u>	
<u>6) Ammonia</u>	<u>7664-41-7</u>	<u>30</u>	<u>4</u>
<u>7) Boron</u>	<u>7440-42-8</u>	<u>0.73</u>	<u>2</u>
<u>8) Chloride</u>	<u>16887-00-6</u>	<u>250</u>	<u>3</u>
<u>9) Iron</u>	<u>7439-89-6</u>	<u>0.3</u>	<u>3</u>
<u>10) Manganese</u>	<u>7439-96-5</u>	<u>0.05</u>	<u>3</u>
<u>11) Sodium</u>	<u>7440-23-5</u>	<u>200</u>	<u>5</u>
<u>12) Sulfate</u>	<u>14808-79-8</u>	<u>250</u>	<u>3</u>
<u>13) pH</u>		<u>6.5 < pH < 8.5^b</u>	<u>3</u>
<u>14) Total dissolved solids</u>		<u>500</u>	<u>3</u>
<u>- Hazardous -</u>			
<u>15) Nitrate/Nitrite</u>		<u>10</u>	<u>1</u>
<u>16) Cyanide (free)</u>	<u>57-12-5</u>	<u>0.2</u>	<u>1</u>
<u>17) Sulfide</u>	<u>18496-25-8</u>	<u>Background</u>	
<u>18) Aluminum</u>	<u>7429-90-5</u>	<u>0.2</u>	<u>3</u>
<u>19) Antimony</u>	<u>7440-36-0</u>	<u>0.006</u>	<u>1</u>
<u>20) Arsenic</u>	<u>7440-38-2</u>	<u>0.01</u>	<u>1</u>
<u>21) Barium</u>	<u>7440-39-3</u>	<u>2</u>	<u>1</u>
<u>22) Beryllium</u>	<u>7440-41-7</u>	<u>0.004</u>	<u>1</u>

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23) Cadmium	7440-43-9	0.005	1
24) Chromium	7440-47-3	0.1	2
25) Cobalt	7440-48-4	Background	
26) Copper	7440-50-8	1	3
27) Lead	7439-92-1	0.015	1
28) Mercury	7439-97-6	0.002	1
29) Nickel	7440-02-0	0.073	2
30) Selenium	7782-49-2	0.05	1
31) Silver	7440-22-4	0.1	3
32) Strontium	7440-24-6	2.2	2
33) Thallium	7440-28-0	0.002	1
34) Tin	7440-31-5	2.2	2
35) Vanadium	7440-62-2	0.018	2
36) Zinc	7440-66-6	5	3
37) Acetone; 2-Propanone	67-64-1	2.2	2
38) Acrylonitrile; 2-Propenenitrile	107-13-1	Background	
39) Benzene	71-43-2	0.005	1
40) Bromochloromethane; Chlorobromomethane	74-97-5	Background	
41) Bromodichloromethane; Dibromochloromethane	75-27-4	0.08	1,6
42) Bromoform; Tribromomethane	75-25-2	0.0085	2
43) Carbon disulfide	75-15-0	0.1	2
44) Carbon tetrachloride; Tetrachloromethane	56-23-5	0.005	1
45) Chlorobenzene; Monochlorobenzene	108-90-7	0.1	1
46) Chloroethane; Ethyl chloride	75-00-3	2.1	2
47) Chloroform; Trichloromethane	67-66-3	0.08	1,6
48) 2-Chlorotoluene; o-Chlorotoluene	95-49-8	0.073	2
49) 4-Chlorotoluene; p-Chlorotoluene	106-43-4	0.26	2
50) Dibromochloromethane; Chlorodibromomethane	124-48-1	0.08	1,6
51) 1,2-Dibromo-3-chloropropane; DBCP	96-12-8	0.0002	1
52) 1,2-Dibromoethane; Ethylene dibromide; EDB	106-93-4	0.00005	1
53) o-Dichlorobenzene; 1,2-Dichlorobenzene	95-50-1	0.6	1
54) m-Dichlorobenzene; 1,3-Dichlorobenzene	541-73-1	Background	
55) p-Dichlorobenzene; 1,4-Dichlorobenzene	106-46-7	0.075	1
56) trans-1,4-Dichloro-2-butene	110-57-6	Background	
57) Dichlorodifluoromethane; CFC 12	75-71-8	0.039	2
58) 1,1-Dichloroethane; Ethylidene chloride	75-34-3	0.0024	2
59) 1,2-Dichloroethane; Ethylene dichloride	107-06-2	0.005	1
60) 1,1-Dichloroethylene; 1,1-Dichloroethene; Vinylidene chloride	75-35-4	0.007	1
61) cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene	156-59-2	0.07	1
62) trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene	156-60-5	0.1	1
63) 1,2-Dichloropropane; Propylene dichloride	78-87-5	0.005	1
64) 1,3-Dichloropropane; Trimethylene dichloride	142-28-9	0.073	2

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65) 2,2-Dichloropropane; Isopropylidene chloride	594-20-7	Background	
66) 1,1-Dichloropropene; 1,1-Dichloro-1-propene	563-58-6	Background	
67) cis-1,3-Dichloropropene	10061-01-5	Background	
68) trans-1,3-Dichloropropene	10061-02-6	Background	
69) Ethylbenzene	100-41-4	0.7	1
70) 2-Hexanone; Methyl butyl ketone	591-78-6	Background	
71) Isopropylbenzene; Cumene	98-82-8	0.068	2
72) 4-Isopropyltoluene; p-Isopropyltoluene; p-cymene	99-87-6	Background	
73) Methyl bromide; Bromomethane	74-83-9	Background	
74) Methyl chloride; Chloromethane	74-87-3	0.019	2
75) Methyl ethyl ketone; MEK; 2-Butanone	78-93-3	0.71	2
76) Methyl iodide; Iodomethane	74-88-4	Background	
77) 4-Methyl-2-pentanone; Methyl isobutyl ketone	108-10-1	0.2	2
78) Methylene bromide; Dibromomethane	74-95-3	0.037	2
79) Methylene chloride; Dichloromethane	75-09-2	0.005	1
80) N-Butylbenzene	104-51-8	Background	
81) N-Propylbenzene	103-65-1	0.13	2
82) Sec-Butylbenzene	135-98-8	Background	
83) Styrene; Ethenylbenzene	100-42-5	0.1	1
84) Tert-Butylbenzene	98-06-6	Background	
85) 1,1,1,2-Tetrachloroethane	630-20-6	Background	
86) 1,1,2,2-Tetrachloroethane	79-34-5	Background	
87) Tetrachloroethylene; Tetrachloroethene; Perchloroethylene	127-18-4	0.005	1
88) Toluene; Methylbenzene	108-88-3	1	1
89) 1,2,3-Trichlorobenzene	87-61-6	0.0029	2
90) 1,2,4-Trichlorobenzene	120-82-1	0.07	1
91) 1,1,1-Trichloroethane; Methylchloroform	71-55-6	0.2	1
92) 1,1,2-Trichloroethane	79-00-5	0.005	1
93) Trichloroethylene; Trichloroethene	79-01-6	0.005	1
94) Trichlorofluoromethane; CFC-11	75-69-4	0.13	2
95) 1,2,3-Trichloropropane	96-18-4	Background	
96) 1,2,4-Trimethylbenzene	95-63-6	0.0015	2
97) 1,3,5-Trimethylbenzene	108-67-8	0.037	2
98) Vinyl acetate; Acetic acid ethenyl ester	108-05-4	0.041	2
99) Vinyl chloride; Chloroethene	75-01-4	0.002	1
100) Xylene (total); Dimethylbenzene	multiple^c	10	1
101) Acenaphthene; 1,2-Dihydroacenaphthylene	83-32-9	Background	
102) Acenaphthylene	208-96-8	Background	
103) Acetonitrile; Methyl cyanide	75-05-8	0.013	2
104) Acetophenone; 1-Phenylethanone	98-86-2	0.37	2
105) 2-Acetylaminofluorene; 2-AAF; N-9H-fluoren-2-yl-acetamide	53-96-3	Background	
106) Acrolein; 2-Propenal	107-02-8	Background	

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107) Allyl chloride; 3-Chloro-1-propene	107-05-1	Background	
108) 4-Aminobiphenyl; [1,1'-Biphenyl]-4-amine	92-67-1	Background	
109) Anthracene	120-12-7	1.1	2
110) Benzo[a]anthracene; Benzanthracene	56-55-3	Background	
111) Benzo[b]fluoranthene; Benz[e]acephenanthylene	205-99-2	Background	
112) Benzo[k]fluoranthene	207-08-9	Background	
113) Benzo[ghi]perylene	191-24-2	Background	
114) Benzo[a]pyrene	50-32-8	0.002	1
115) Benzyl alcohol; Benzenemethanol	100-51-6	0.37	2
116) bis(2-Chloroethoxy)methane; 1,1-[methylenebis(oxy)]bis[2-Chloroethane]	111-91-1	Background	
117) bis-(2-Chloroethyl)ether; Dichloroethyl ether; 1,1'-oxybis[2-Chloroethane]	111-44-4	Background	
118) bis-(2-Chloro-1-methylethyl) Ether; 2,2'-Dichloro-diisopropyl ether; DCIP; 2,2'-oxybis[1-Chloropropane]	108-60-1	Background	
119) bis(2-ethylhexyl)phthalate; Di(2-ethylhexyl)phthalate; 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl ester)	117-81-7	0.006	1
120) 4-Bromophenyl phenyl ether; 1- Bromo-4-phenoxy-benzene	101-55-3	Background	
121) Butyl benzyl phthalate; Benzyl butyl phthalate; 1,2-Benzendicarboxylic acid; Butyl phenylmethyl ester	85-68-7	0.035	2
122) p-Chloroaniline; 4-Chlorobenzenamine	106-47-8	Background	
123) Chlorobenzilate; 4-Chloro-a-Chlorophenyl)-a- hydroxybenzeneacetic acid, Ethyl ester	510-15-6	Background	
124) p-Chloro-m-Cresol; 4-Chloro-3-Methylphenol	59-50-7	0.37	2
125) 2-Chloronaphthalene	91-58-7	0.29	2
126) 2-Chlorophenol	95-57-8	0.018	2
127) 4-Chlorophenyl phenyl ether; 1-Chloro-4-phenoxy benzene	7005-72-3	Background	
128) Chloroprene; 2-Chloro-1,3-butadiene	126-99-8	Background	
129) Chrysene	218-01-9	Background	
130) m-Cresol; 3-Methylphenol	108-39-4	0.18	2
131) o-Cresol; 2-Methylphenol	95-48-7	0.18	2
132) p-Cresol; 4-Methylphenol	106-44-5	0.018	2
133) Dibenz[a,h]anthracene	53-70-3	Background	
134) Dibenzofuran	132-64-9	Background	
135) Di-n-butyl phthalate; 1,2-Benzenedicarboxylic acid dibutyl ester	84-74-2	0.37	2
136) 3,3'-Dichlorobenzidine; 3,3'-Dichloro-[1,1'-bephenyl]-4,4'-diamine	91-94-1	Background	
137) 2,4-Dichlorophenol	120-83-2	0.011	2
138) 2,6-Dichlorophenol	87-65-0	Background	

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139) Diethyl phthalate; 1,2-Benzenedicarboxylic acid, diethyl ester	84-66-2	2.9	2
140) O,O-Diethyl O-2-Pyrazinyl phosphorothioate; Thionazin	297-97-2	Background	
141) Dimethoate; Phosphorodithioic acid O,O-Dimethyl-S-[2-(methylamino)-2-oxoethyl] ester	60-51-5	Background	
142) p-(Dimethylamino)azobenzene; N,N-Dimethyl-4-(phenylazobenzenamine)	60-11-7	Background	
143) 7,12-Dimethylbenz[a]anthracene	57-97-6	Background	
144) 3,3'-Dimethylbenzidine; 3,3'-Dimethyl[1,1'biphenyl]-4,4'-diamine	119-93-7	Background	
145) 2,4-Dimethylphenol; m-Xylenol	105-67-9	0.073	2
146) Dimethyl phthalate; 1,2-Benzenedicarboxylic acid, dimethyl ester	131-11-3	Background	
147) m-Dinitrobenzene; 1,3-Dinitrobenzene	99-65-0	Background	
148) 4,6-Dintro-o-cresol; 4,6-Dinitro-2-methylphenol; 2-Methyl-4,6-dinitrophenol	534-52-1	Background	
149) 2,4-Dinitrophenol	51-28-5	Background	
150) 2,4-Dinitrotoluene; 1-Methyl-2,4-dinitrobenzene	121-14-2	Background	
151) 2,6-Dinitrotoluene; 2-Methyl-1,3-dinitrobenzene	606-20-2	Background	
152) Di-n-octyl phthalate; 1,2-Benzenedicarboxylic acid, dioctyl ester	117-84-0	Background	
153) Diphenylamine; N-phenylbenzenamine	122-39-4	0.091	2
154) Disulfoton; Phosphorodithioic acid O,O-diethyl-S-[2-(ethylthio)ethyl] ester	298-04-4	Background	
155) Ethyl methacrylate; 2-methyl-2-propenoic acid, ethyl ester	97-63-2	0.33	2
156) Ethyl methanesulfonate; Methanesulfonic acid, ethyl ester	62-50-0	Background	
157) Fluoranthene	206-44-0	0.15	2
158) Fluorene; 9H-fluorene	86-73-7	0.15	2
159) Hexachlorobenzene	118-74-1	0.001	1
160) Hexachlorobutadiene; Hexachloro-1,3-butadiene; 1,1,2,3,4,4-Hexachloro-1,3-butadiene	87-68-3	Background	
161) Hexachlorocyclopentadiene; 1,2,3,4,5,5-Hexachloro-1,3-cyclopentadiene	77-47-4	0.05	1
162) Hexachloroethane	67-72-1	Background	
163) Hexachloropropene; 1,1,2,3,3,3-Hexachloro-1-propene	1888-71-7	Background	
164) Indeno(1,2,3-cd)pyrene	193-39-5	Background	
165) Isobutyl alcohol; 2-Methyl-1-propanol	78-83-1	1.1	2
166) Isophorone; 3,5,5-Trimethyl-2-cyclohexen-1-one	78-59-1	0.73	2
167) Isosafrole; 5-(1-Propenyl)-1,3-benzodioxole	120-58-1	Background	
168) Methylacrylonitrile; 2-Methyl-2-propenenitrile	126-98-7	Background	

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169) Methapyrilene; N,N-Dimethyl-N',2-pyridinyl-N'-(2-thienylmethyl)- 1,2-ethanediamine	91-80-5	Background	
170) Methoxychlor; 1,1'-(2,2,2-Trichloroethylidenebis[4-Methoxybenzene]	72-43-5	0.04	1
171) Methyl methacrylate; 2- Methyl-2-propenoic acid, methyl ester	80-62-6	0.14	2
172) Methyl methanesulfonate; Methanesulfonic acid, methyl ester	66-27-3	Background	
173) 2-Methylnaphthalene	91-57-6	0.015	2
174) Naphthalene	91-20-3	Background	
175) 1,4-Naphthoquinone; 1,4-Naphthalenedione	130-15-4	Background	
176) 1-Naphthylamine; 1-Naphthalenamine	134-32-7	Background	
177) 2-Naphthylamine; 2-Naphthalenamine	91-59-8	Background	
178) o-Nitroaniline; 2-Nitroaniline; 2-Nitrobenzenamine	88-74-4	Background	
179) m-Nitroaniline; 3-Nitroaniline; 3-Nitrobenzenamine	99-09-02	Background	
180) p-Nitroaniline; 4-Nitroaniline; 4-Nitrobenzenamine	100-01-6	Background	
181) Nitrobenzene	98-95-3	Background	
182) o-Nitrophenol; 2-Nitrophenol	88-75-5	Background	
183) p-Nitrophenol; 4-Nitrophenol	100-02-7	Background	
184) N-Nitrosodi-n-butylamine; N-Butyl-N-Nitroso-1-butanamine	924-16-3	Background	
185) N-Nitrosodiethylamine; N-Ethyl-N-nitroso-ethanamine	55-18-5	Background	
186) N-Nitrosodimethylamine; N-Methyl-N-nitrosomethanamine	62-75-9	Background	
187) N-Nitrosodiphenylamine; N-Nitroso-N-phenylbenzenamine	86-30-6	0.014	2
188) N-Nitrosodipropylamine; N-Nitroso-N-dipropylamine; di-n-propylnitrosamine; N-Nitroso-N-propyl-1-propanamine	621-64-7	Background	
189) N-Nitroso(methyl)ethylamine; N-Methyl-N-nitrosoethylamine	10595-95-6	Background	
190) N-Nitrosopiperidine; 1-Nitrosopiperidine	100-75-4	Background	
191) N-Nitrosopyrrolidine; 1-Nitrosopyrrolidine	930-55-2	Background	
192) 5-Nitro-o-toluidine; 2-Methyl-5-nitrobenzenamine	99-55-8	Background	
193) Pentachlorobenzene	608-93-5	Background	
194) Pentachloronitrobenzene	82-68-8	Background	
195) Pentachlorophenol	87-96-5	0.001	1
196) Phenacetin; N-(4-Ethoxyphenylacetamide)	62-44-2	0.031	2
197) Phenanthrene	85-01-8	Background	

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198) Phenol	108-95-2	1.1	2
199) p-Phenylenediamine; 1,4-Benzenediamine	106-50-3	0.69	2
200) Pronamide; Kerb; 3,5-Dichloro-N-(1,1-dimethyl-2-propynyl benzamide)	23950-58-5	0.27	2
201) Propionitrile; Ethyl cyanide	107-12-0	Background	
202) Pyrene	129-00-0	0.11	2
203) Safrole; 5-(2-Propenyl-1,3-benzodioxole)	94-59-1	Background	
204) 1,2,4,5-Tetrachlorobenzene	95-94-3	Background	
205) 2,3,4,6-Tetrachlorophenol	58-90-2	0.11	2
206) o-Toluidine; 2-Methylbenzenamine	95-53-4	Background	
207) 2,4,5-Trichlorophenol	95-95-4	0.37	2
208) 2,4,6-Trichlorophenol	88-06-2	0.037	2
209) sym-Trinitrobenzene; 1,3,5-Trinitrobenzene	99-35-4	0.11	2
210) Aldrin	309-00-2	0.0011	2
211) alpha-BHC; alpha-benzenehexachloride	319-84-6	Background	
212) beta-BHC; beta-benzenehexachloride	319-85-7	Background	
213) delta-BHC; delta-benzenhexachloride	319-86-8	Background	
214) gamma-BHC; Lindane	58-89-9	0.0002	1
215) Chlordane	various^e	0.002	1
216) 2,4-D; 2,4-Dichlorophenoxyacetic acid	94-75-7	0.07	1
217) 2,4-DB; 4-(2,4-dichlorophenoxy)butyric acid; Butoxone	94-68-1	Background	
218) 2,4-DP; Dichloroprop; R-(+)-2-(2,4-dichlorophenoxy)propionic acid	120-36-5	Background	
219) 4,4'-DDD; 1,1'-(2,2-Dichloroethylidene) bis[4-chlorobenzene]	72-54-8	2.80E-04	2
220) 4,4'-DDE; 1,1'-(2,2-Dichloroethylenylidene) bis[4-chlorobenzene]	72-55-9	2.00E-04	2
221) 4,4'-DDT; 1,1'-(2,2,2,-Trichloroethylidene) bis[4-chlorobenzene]	50-29-3	2.00E-04	2
222) Diallylate; Carbamothioic acid, bis-(1-methyl-ethyl)-S-(2,3-dichloro-2-propenyl) ester	2303-16-4	Background	
223) Dieldrin	60-57-1	Background	
224) Dinoseb; DMBP	88-85-7	0.007	1
225) Endosulfan I	959-98-8	Background	
226) Endosulfan II	33213-65-9	Background	
227) Endosulfan sulfate	1031-07-8	Background	
228) Endrin	72-20-8	0.002	1
229) Endrin aldehyde	7421-93-4		
230) Famphur; Phosphorothioic acid, O-[4- [(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester	52-85-7	Background	
231) Heptachlor; 1,4,5,6,7,8,8-heptachloro-3a,4,6,6a- tetrahydro-4,7-methano-1H-indene	76-44-8	0.0004	1
232) Heptachlor epoxide	1024-57-3	0.0002	1
233) Isodrine	465-73-6	Background	

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234) Kepone	143-50-0	Background	
235) MCPA; 4-chloro-o-tolyloxyacetic acid	94-74-6	0.0018	2
236) MCPP; 2-(4-Chlorophenoxy)-2-methylpropanoic acid	93-65-2	0.0037	2
237) MDBA; Dicamba; 3,6-Dichloro-o-anisic acid	1918-00-9	0.11	2
238) 3-Methylcholanthrene; 1,2-Dihydro-3-methyl-benze[j]aceanthrylene	56-49-5	Background	
239) Methyl parathion; Parathion methyl; Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester	298-00-0	Background	
240) Parathion; Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester	56-38-2	0.022	2
241) Phorate; Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester	298-02-2	Background	
242) Polychlorinated biphenyls; PCBs; aroclors; 1,1'-Biphenyl, chloro derivatives	various^e	0.0005	1
243) Silvex; 2,4,5-TP; 2-(2,4,5-Trichlorophenoxypropanoic acid)	93-72-1	0.05	1
244) 2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid	93-76-5	0.037	2
245) Toxaphene	8001-35-2	0.003	1
246) O,O,O-Triethyl phosphorothioate; Phosphorothioic acid, O,O,O-triethyl ester	126-68-1	Background	

[Footnotes:](#)

[a. The origin of GWAS is found in the following reference table:](#)

[-Reference table-](#)

1	USEPA, maximum contaminant level (MCL).
2	USEPA, region 3, regional screening level (RSL), or one-tenth of RSL for parameter with only non-carcinogenic effects based on Ohio EPA, division of emergency and remedial response, technical decision compendium document entitled "Use of U.S. EPA's Regional Screening Levels as Screening Values in Human Health Risk Assessments," dated August 21, 2009.
3	USEPA, secondary maximum contaminant level (SMCL).
4	USEPA drinking water advisory based on aesthetic (taste) effects.
5	World health organization advisory for sodium based on aesthetic (taste) effects.
6	MCL for total trihalomethanes.

[b. The unit of measurement for pH is standard units. A pH that is less than 6.5 or greater than 8.5 is an exceedance of the generic GWAS for pH.](#)

[c. Xylene \(total\): Where "total" is entered, all species in ground water that contain this element are included. This entry includes o-xylene \(CAS RN 96-47-6\), m-xylene \(CAS](#)

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[RN 108-38-3](#), [p-xylene \(CAS RN 106-42-3\)](#), and [unspecified xylenes \(dimethylbenzenes\) \(CAS RN 1330-20-7\)](#).

[d. Chlordane: This entry includes alpha chlordane \(CAS RN 5103-71-9\), beta chlordane \(CAS RN 5103-74-2\), gamma chlordane \(CAS RN 5566-34-7\), and constituents of chlordane \(CAS RN 57-74-9 and CAS RN 12789-03-6\)](#).

[e. Polychlorinated biphenols \(CAS RN 1336-36-3\): 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 \(CAS RN 11096-82-5\)](#).