

## POLLUTION CONTROL BOARD

## NOTICE OF PROPOSED AMENDMENT

- 1) Heading of the Part: Groundwater Quality
- 2) Code Citation: 35 Ill. Adm. Code 620
- 3) Section Number: 620.420      Proposed Action: Amend
- 4) Statutory Authority: Implementing and authorized by Section 8 of the Illinois Groundwater Protection Act [415 ILCS 55/8] and Section 27 of the Environmental Protection Act [415 ILCS 5/27]
- 5) A Complete Description of the Subjects and Issues Involved: The Board, on April 18, 2013, issued an opinion and order opening a subdocket B for the R08-18 rulemaking and proposing, for first notice, technical corrections to recently-adopted amendments of the Part 620 groundwater quality standards (GQS). The adopted amendments were published in the *Illinois Register* at 36 Ill. Reg. 15206 (Oct. 19, 2012) and became effective October 5, 2012. The technical corrections proposed in R08-18(B) are needed due to scrivener's errors that occurred during the R08-18 rulemaking.

R08-18(B) was opened solely to make several technical corrections to Section 620.420(b)(1) (35 Ill. Adm. Code 620.420(b)(1)), which lists organic chemicals and corresponding concentrations and provides that the concentrations must not be exceeded in Class II general resource groundwater. The amendments proposed in subdocket B remedy the inadvertent (1) deletion of trichloroethylene and its Class II GQS, (2) modification of the 1,1,2-trichloroethane Class II GQS, and (3) failure to place an asterisk next to the dibenzo(a,h)anthracene Class II GQS to reflect that the chemical is carcinogenic. The Board has already held the public hearings required by the Environmental Protection Act during the R08-18 rulemaking and does not intend to hold any additional hearing for subdocket B unless requested to do so pursuant the Illinois Administrative Procedure Act.

The Class II GQS of 0.025 milligrams per liter (mg/L) for trichloroethylene has been a part of the GQS since their adoption in 1991. The trichloroethylene Class II GQS was not at issue in R08-18, but Section 620.420(b)(1) was amended in that rulemaking. The trichloroethylene Class II GQS in Section 620.420(b)(1) failed to appear in the *Illinois Register* at first notice or final adoption of the R08-18 amendments. See 35 Ill. Reg. at 18534 (Nov. 14, 2011); 36 Ill. Reg. at 15236 (Oct. 19, 2012). To correct the inadvertent deletion of the trichloroethylene Class II GQS, the Board's April 18, 2013 opinion and order proposed restoring this carcinogenic chemical and its Class II GQS to Section 620.420(b)(1).

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Pollution Control Board

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The Class II GQS of 0.05 mg/L for 1,1,2-trichloroethane has been a part of the GQS since the Part 620 amendments of 1994. The 1,1,2-trichloroethane Class II GQS was not at issue in R08-18, but Section 620.420(b)(1) was amended in that rulemaking. The 1,1,2-trichloroethane Class II GQS of 0.05 mg/L in Section 620.420(b)(1) appeared incorrectly as 0.025 mg/L in the *Illinois Register* at first notice and final adoption of the R08-18 amendments. See 35 Ill. Reg. at 18534 (Nov. 14, 2011); 36 Ill. Reg. at 15236 (Oct. 19, 2012). To remedy the inadvertent modification of the 1,1,2-trichloroethane Class II GQS, the Board's April 18, 2013 opinion and order proposed deleting the incorrect concentration of 0.025 mg/L and restoring the concentration of 0.05 mg/L as the Class II GQS for 1,1,2-trichloroethane Section 620.420(b)(1).

In R08-18, Class I potable resource GQS and Class II general resource GQS were added for dibenzo(a,h)anthracene and 38 other chemicals. An asterisk should appear next to dibenzo(a,h)anthracene in the rules to denote that the chemical is a carcinogen. However, the *Illinois Register* at first notice and final adoption of the R08-18 amendments listed dibenzo(a,h)anthracene in the Class II GQS of Section 620.420(b)(1) without an asterisk. See 35 Ill. Reg. at 18527, 18533 (Nov. 14, 2011); 36 Ill. Reg. at 15229, 15235 (Oct. 19, 2012). To correct the inadvertent omission of an asterisk next to the chemical's Class II GQS, the Board's April 18, 2013 opinion and order adding "\*" next to "dibenzo(a,h)anthracene" in Section 620.420(b)(1) to reflect the chemical's carcinogenic nature.

- 6) Published studies or reports and sources of underlying data, used to compose this rulemaking: None. The technical corrections proposed for first notice in R08-18(B) are needed due to scriveners' errors that occurred during the R08-18 rulemaking, as described above.
- 7) Will this proposed amendment replace an emergency rule currently in effect? No
- 8) Does this amendment contain an automatic repeal date? No
- 9) Does this proposed amendment contain incorporations by reference? No
- 10) Are there any other proposed amendments pending on this Part? No
- 11) Statement of Statewide Policy Objectives: This proposed amendment does not create or enlarge a State mandate as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3(b)].

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- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comments on this proposal for a period of 45 days after the date of publication in the *Illinois Register*. Comments should refer to docket R08-18(B) and must be filed with the Clerk of the Board. Comments may be filed at the following address:

Clerk's Office  
Illinois Pollution Control Board  
100 W. Randolph St., Suite 11-500  
Chicago, IL 60601

In addition, public comments may be filed electronically through the Clerk's Office On-Line (COOL) at [www.ipcb.state.il.us](http://www.ipcb.state.il.us).

Interested persons may request copies of the Board's opinion and order in R08-18(B) by calling the Clerk's Office at (312) 814-3620, or may download copies from the Board's Web site at [www.ipcb.state.il.us](http://www.ipcb.state.il.us). For more information, please contact hearing officer Richard McGill at (312) 814-6983 or [richard.mcgill@illinois.gov](mailto:richard.mcgill@illinois.gov).

- 13) Initial Regulatory Flexibility Analysis:
- A) Types of small businesses, small municipalities and not for profit corporations affected: The technical corrections proposed for first notice in R08-18(B) are needed due to scrivener's errors that occurred during the R08-18 rulemaking, as described above. Accordingly, for any facilities of a small business, small municipality, or not-for-profit corporation that cause, threaten, or allow trichloroethylene, 1,1,2-trichloroethane, or dibenzo(a,h)anthracene contamination of Class II groundwater, the proposed R08-18(B) amendments will ensure that these entities are subject to the correct Class II GQS for these chemicals.
  - B) Reporting, bookkeeping or other procedures required for compliance: No additional reporting or bookkeeping will be required for compliance.
  - C) Types of Professional skills necessary for compliance: No professional skills will be necessary beyond those currently required by the existing regulations applicable to affected facilities. These may include the services of a licensed professional engineer, a licensed professional geologist, and an attorney.
- 14) Regulatory Agenda in which these amendments were summarized: June 2011

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The full text of the Proposed Amendment begins on the next page:

1 TITLE 35: ENVIRONMENTAL PROTECTION  
2 SUBTITLE F: PUBLIC WATER SUPPLIES  
3 CHAPTER I: POLLUTION CONTROL BOARD  
4

5 PART 620  
6 GROUNDWATER QUALITY  
7

8 SUBPART A: GENERAL  
9

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11	620.105	Purpose
12	620.110	Definitions
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14	620.125	Incorporations by Reference
15	620.130	Exemption from General Use Standards and Public and Food Processing Water 16 Supply Standards
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30 SUBPART C: NONDEGRADATION PROVISIONS  
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32

33	Section	
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39 SUBPART D: GROUNDWATER QUALITY STANDARDS  
40

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- 44 620.410 Groundwater Quality Standards for Class I: Potable Resource Groundwater
- 45 620.420 Groundwater Quality Standards for Class II: General Resource Groundwater
- 46 620.430 Groundwater Quality Standards for Class III: Special Resource Groundwater
- 47 620.440 Groundwater Quality Standards for Class IV: Other Groundwater
- 48 620.450 Alternative Groundwater Quality Standards

49

50 SUBPART E: GROUNDWATER MONITORING AND ANALYTICAL PROCEDURES

51

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57

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- 60 620.605 Issuance of a Health Advisory
- 61 620.610 Publishing Health Advisories
- 62 620.615 Additional Health Advice for Mixtures of Similar-Acting Substances

63

- 64 620.APPENDIX A Procedures for Determining Human Threshold Toxicant Advisory
- 65 Concentration for Class I: Potable Resource Groundwater
- 66 620.APPENDIX B Procedures for Determining Hazard Indices for Class I: Potable
- 67 Resource Groundwater for Mixtures of Similar-Acting Substances
- 68 620.APPENDIX C Guidelines for Determining When Dose Addition of Similar-
- 69 Acting Substances in Class I: Potable Resource Groundwaters is
- 70 Appropriate
- 71 620.APPENDIX D Confirmation of an Adequate Corrective Action Pursuant to 35 Ill.
- 72 Adm. Code 620.250(a)(2)

73

74 AUTHORITY: Implementing and authorized by Section 8 of the Illinois Groundwater  
75 Protection Act [415 ILCS 55/8] and authorized by Section 27 of the Illinois Environmental  
76 Protection Act [415 ILCS 5/27].

77

78 SOURCE: Adopted in R89-14(B) at 15 Ill. Reg. 17614, effective November 25, 1991; amended  
79 in R89-14(C) at 16 Ill. Reg. 14667, effective September 11, 1992; amended in R93-27 at 18 Ill.  
80 Reg. 14084, effective August 24, 1994; amended in R96-18 at 21 Ill. Reg. 6518, effective May 8,  
81 1997; amended in R97-11 at 21 Ill. Reg. 7869, effective July 1, 1997; amended in R01-14 at 26  
82 Ill. Reg. 2662, effective February 5, 2002; amended in R08-18 at 36 Ill. Reg. 15206, effective  
83 October 5, 2012; amended in R08-18(B) at 37 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

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85 SUBPART D: GROUNDWATER QUALITY STANDARDS

86

87 **Section 620.420 Groundwater Quality Standards for Class II: General Resource**  
 88 **Groundwater**

89  
 90 a) Inorganic Chemical Constituents

- 91  
 92 1) Except due to natural causes or as provided in Section 620.450 or  
 93 subsection (a)(3) or (e) of this Section, concentrations of the following  
 94 chemical constituents must not be exceeded in Class II groundwater:  
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Constituent	Standard (mg/L)
Antimony	0.024
Arsenic*	0.2
Barium	2.0
Beryllium	0.5
Cadmium	0.05
Chromium	1.0
Cobalt	1.0
Cyanide	0.6
Fluoride	4.0
Lead	0.1
Mercury	0.01
Nitrate as N	100.0
Perchlorate	0.0049
Thallium	0.02
Vanadium	0.1

\*Denotes a carcinogen.

- 96  
 97 2) Except as provided in Section 620.450 or subsection (a)(3) or (e) of this  
 98 Section, concentrations of the following chemical constituents must not be  
 99 exceeded in Class II groundwater:  
 100

Constituent	Standard (mg/L)
Boron	2.0
Chloride	200.0
Copper	0.65
Iron	5.0
Manganese	10.0
Nickel	2.0

Selenium	0.05
Total Dissolved Solids (TDS)	1,200.0
Sulfate	400.0
Zinc	10.0

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- 3) The standard for any inorganic chemical constituent listed in subsection (a)(2) of this Section, for barium, or for pH does not apply to groundwater within fill material or within the upper 10 feet of parent material under such fill material on a site not within the rural property class for which:
    - A) Prior to November 25, 1991, surficial characteristics have been altered by the placement of such fill material so as to impact the concentration of the parameters listed in subsection (a)(3) of this Section, and any on-site groundwater monitoring of such parameters is available for review by the Agency.
    - B) On November 25, 1991, surficial characteristics are in the process of being altered by the placement of such fill material, that proceeds in a reasonably continuous manner to completion, so as to impact the concentration of the parameters listed in subsection (a)(3) of this Section, and any on-site groundwater monitoring of such parameters is available for review by the Agency.
  - 4) For purposes of subsection (a)(3) of this Section, the term "fill material" means clean earthen materials, slag, ash, clean demolition debris, or other similar materials.

124 b) Organic Chemical Constituents

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- 1) Except due to natural causes or as provided in Section 620.450 or subsection (b)(2) or (e) of this Section, concentrations of the following organic chemical constituents must not be exceeded in Class II groundwater:

Constituent	Standard (mg/L)
Acenaphthene	2.1
Acetone	6.3
Alachlor*	0.010
Aldicarb	0.015
Anthracene	10.5



Atrazine	0.015
Benzene*	0.025
Benzo(a)anthracene*	0.00065
Benzo(b)fluoranthene*	0.0009
Benzo(k)fluoranthene*	0.006
Benzo(a)pyrene*	0.002
Benzoic acid	28.0
2-Butanone (MEK)	4.2
Carbon Disulfide	3.5
Carbofuran	0.2
Carbon Tetrachloride*	0.025
Chlordane*	0.01
Chloroform*	0.35
Chrysene*	0.06
Dalapon	2.0
Dibenzo(a,h)anthracene*	0.0015
Dicamba	0.21
Dichlorodifluoromethane	7.0
1,1-Dichloroethane	7.0
Dichloromethane*	0.05
Di(2-ethylhexyl)phthalate*	0.06
Diethyl Phthalate	5.6
Di-n-butyl Phthalate	3.5
Dinoseb	0.07
Endothall	0.1
Endrin	0.01
Ethylene Dibromide*	0.0005
Fluoranthene	1.4
Fluorene	1.4
Heptachlor*	0.002
Heptachlor Epoxide*	0.001
Hexachlorocyclopentadiene	0.5
Indeno(1,2,3-cd)pyrene*	0.0022
Isopropylbenzene (Cumene)	3.5
Lindane (Gamma-Hexachloro cyclohexane)	0.001
2,4-D	0.35
Ortho-Dichlorobenze	1.5
Para-Dichlorobenzene	0.375
1,2-Dibromo-3-Chloropropane*	0.002
1,2-Dichloroethane*	0.025
1,1-Dichloroethylene	0.035
cis-1,2-Dichloroethylene	0.2

Trans-1,2-Dichloroethylene	0.5
1,2-Dichloropropane*	0.025
Ethylbenzene	1.0
MCCP (Mecoprop)	0.007
Methoxychlor	0.2
2-Methylnaphthalene	0.14
2-Methylphenol	0.35
Methyl Tertiary-Butyl Ether (MTBE)	0.07
Monochlorobenzene	0.5
Naphthalene	0.22
P-Dioxane*	0.0077
Pentachlorophenol*	0.005
Phenols	0.1
Picloram	5.0
Pyrene	1.05
Polychlorinated Biphenyls (PCBs) (as decachloro-biphenyl)*	0.0025
alpha-BHC (alpha-Benzene hexachloride)*	0.00055
Simazine	0.04
Styrene	0.5
2,4,5-TP	0.25
Tetrachloroethylene*	0.025
Toluene	2.5
Toxaphene*	0.015
1,1,1-Trichloroethane	1.0
1,2,4-Trichlorobenzene	0.7
1,1,2-Trichloroethane	<u>0.050-0.025</u>
<u>Trichloroethylene*</u>	<u>0.025</u>
Trichlorofluoromethane	10.5
Vinyl Chloride*	0.01
Xylenes	10.0

\* Denotes a carcinogen.

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- 132                   2)    The standards for pesticide chemical constituents listed in subsection
- 133                               (b)(1) of this Section do not apply to groundwater within 10 feet of the
- 134                               land surface, provided that the concentrations of such constituents result
- 135                               from the application of pesticides in a manner consistent with the
- 136                               requirements of the Federal Insecticide, Fungicide and Rodenticide Act (7
- 137                               USC 136 et seq.) and the Illinois Pesticide Act [415 ILCS 60].
- 138
- 139                   c)    Explosive Constituents

140 Concentrations of the following explosive constituents must not exceed the Class  
 141 II groundwater standard:

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Constituent	Standard (mg/L)
1,3-Dinitrobenzene	0.0007
2,4-Dinitrotoluene*	0.0001
2,6-Dinitrotoluene*	0.00031
HMX (High Melting Explosive, Octogen)	1.4
Nitrobenzene	0.014
RDX (Royal Demolition Explosive, Cyclonite)	0.084
1,3,5-Trinitrobenzene	0.84
2,4,6-Trinitrotoluene (TNT)	0.014

\*Denotes a carcinogen.

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d) Complex Organic Chemical Mixtures

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Concentrations of the following organic chemical constituents of gasoline, diesel  
 fuel, or heating fuel must not be exceeded in Class II groundwater:

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Constituent	Standard (mg/L)
Benzene*	0.025
BETX	13.525

\*Denotes a carcinogen

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e) pH

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Except due to natural causes, a pH range of 6.5 - 9.0 units must not be exceeded  
 in Class II groundwater that is within 5 feet of the land surface.

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(Source: Amended at 37 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

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TITLE 35: ENVIRONMENTAL PROTECTION  
SUBTITLE F: PUBLIC WATER SUPPLIES  
CHAPTER I: POLLUTION CONTROL BOARD

PART 620  
GROUNDWATER QUALITY

SUBPART A: GENERAL

- Section
- 620.105 Purpose
- 620.110 Definitions
- 620.115 Prohibition
- 620.125 Incorporations by Reference
- 620.130 Exemption from General Use Standards and Public and Food Processing Water Supply Standards
- 620.135 Exclusion for Underground Waters in Certain Man-Made Conduits

SUBPART B: GROUNDWATER CLASSIFICATION

- Section
- 620.201 Groundwater Designations
- 620.210 Class I: Potable Resource Groundwater
- 620.220 Class II: General Resource Groundwater
- 620.230 Class III: Special Resource Groundwater
- 620.240 Class IV: Other Groundwater
- 620.250 Groundwater Management Zone
- 620.260 Reclassification of Groundwater by Adjusted Standard

SUBPART C: NONDEGRADATION PROVISIONS  
FOR APPROPRIATE GROUNDWATERS

- Section
- 620.301 General Prohibition Against Use Impairment of Resource Groundwater
- 620.302 Applicability of Preventive Notification and Preventive Response Activities
- 620.305 Preventive Notification Procedures
- 620.310 Preventive Response Activities

SUBPART D: GROUNDWATER QUALITY STANDARDS

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Section

620.401	Applicability
620.405	General Prohibitions Against Violations of Groundwater Quality Standards
620.410	Groundwater Quality Standards for Class I: Potable Resource Groundwater
620.420	Groundwater Quality Standards for Class II: General Resource Groundwater
620.430	Groundwater Quality Standards for Class III: Special Resource Groundwater
620.440	Groundwater Quality Standards for Class IV: Other Groundwater
620.450	Alternative Groundwater Quality Standards

SUBPART E: GROUNDWATER MONITORING AND ANALYTICAL PROCEDURES

Section

<del>620.505</del>	<del>Compliance Determination</del>
<del>620.510</del>	<del>Monitoring and Analytical Requirements</del>

<a href="#">620.505</a>	<a href="#">Compliance Determination</a>
<a href="#">620.510</a>	<a href="#">Monitoring and Analytical Requirements</a>

SUBPART F: HEALTH ADVISORIES

Section

620.601	Purpose of a Health Advisory
620.605	Issuance of a Health Advisory
620.610	Publishing Health Advisories
620.615	Additional Health Advice for Mixtures of Similar-Acting Substances
620.APPENDIX A	Procedures for Determining Human Threshold Toxicant Advisory Concentration for Class I: Potable Resource Groundwater
620.APPENDIX B	Procedures for Determining Hazard Indices for Class I: Potable Resource Groundwater for Mixtures of Similar-Acting Substances
620.APPENDIX C	Guidelines for Determining When Dose Addition of Similar-Acting Substances in Class I: Potable Resource Groundwaters is Appropriate
620.APPENDIX D	Confirmation of an Adequate Corrective Action Pursuant to 35 Ill. Adm. Code 620.250(a)(2)

AUTHORITY: Implementing and authorized by Section 8 of the Illinois Groundwater

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Protection Act [415 ILCS 55/8] and authorized by Section 27 of the Illinois Environmental Protection Act [415 ILCS 5/27].

SOURCE: Adopted in R89-14(B) at 15 Ill. Reg. 17614, effective November 25, 1991; amended in R89-14(C) at 16 Ill. Reg. 14667, effective September 11, 1992; amended in R93-27 at 18 Ill. Reg. 14084, effective August 24, 1994; amended in R96-18 at 21 Ill. Reg. 6518, effective May 8, 1997; amended in R97-11 at 21 Ill. Reg. 7869, effective July 1, 1997; amended in R01-14 at 26 Ill. Reg. 2662, effective February 5, 2002; amended in R08-18 at 36 Ill. Reg. 15206, effective October 5, 2012; amended in R08-18(B) at 37 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_.

SUBPART D: GROUNDWATER QUALITY STANDARDS

**Section 620.420 Groundwater Quality Standards for Class II: General Resource Groundwater**

- a) Inorganic Chemical Constituents
  - 1) Except due to natural causes or as provided in Section 620.450 or subsection (a)(3) or (e) of this Section, concentrations of the following chemical constituents must not be exceeded in Class II groundwater:

Constituent	Standard (mg/L)
Antimony	0.024
Arsenic*	0.2
Barium	2.0
Beryllium	0.5
Cadmium	0.05
Chromium	1.0
Cobalt	1.0
Cyanide	0.6
Fluoride	4.0
Lead	0.1
Mercury	0.01
Nitrate as N	100.0
Perchlorate	0.0049
Thallium	0.02

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Vanadium 0.1

\*Denotes a carcinogen.

- 2) Except as provided in Section 620.450 or subsection (a)(3) or (e) of this Section, concentrations of the following chemical constituents must not be exceeded in Class II groundwater:

Constituent	Standard (mg/L)
Boron	2.0
Chloride	200.0
Copper	0.65
Iron	5.0
Manganese	10.0
Nickel	2.0
Selenium	0.05
Total Dissolved Solids (TDS)	1,200.0
Sulfate	400.0
Zinc	10.0

- 3) The standard for any inorganic chemical constituent listed in subsection (a)(2) of this Section, for barium, or for pH does not apply to groundwater within fill material or within the upper 10 feet of parent material under such fill material on a site not within the rural property class for which:
- A) Prior to November 25, 1991, surficial characteristics have been altered by the placement of such fill material so as to impact the concentration of the parameters listed in subsection (a)(3) of this Section, and any on-site groundwater monitoring of such parameters is available for review by the Agency.
  - B) On November 25, 1991, surficial characteristics are in the process of being altered by the placement of such fill material, that proceeds in a reasonably continuous manner to completion, so as to impact the concentration of the parameters listed in subsection (a)(3) of this Section, and any on-site groundwater monitoring of

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such parameters is available for review by the Agency.

- 4) For purposes of subsection (a)(3) of this Section, the term "fill material" means clean earthen materials, slag, ash, clean demolition debris, or other similar materials.

b) Organic Chemical Constituents

- 1) Except due to natural causes or as provided in Section 620.450 or subsection (b)(2) or (e) of this Section, concentrations of the following organic chemical constituents must not be exceeded in Class II groundwater:

Constituent	Standard (mg/L)
Acenaphthene	2.1
Acetone	6.3
Alachlor*	0.010
Aldicarb	0.015
Anthracene	10.5
Atrazine	0.015
Benzene*	0.025
Benzo(a)anthracene*	0.00065
Benzo(b)fluoranthene*	0.0009
Benzo(k)fluoranthene*	0.006
Benzo(a)pyrene*	0.002
Benzoic acid	28.0
2-Butanone (MEK)	4.2
Carbon Disulfide	3.5
Carbofuran	0.2
Carbon Tetrachloride*	0.025
Chlordane*	0.01
Chloroform*	0.35
Chrysene*	0.06
Dalapon	2.0
Dibenzo(a,h)anthracene*	0.0015
Dicamba	0.21
Dichlorodifluoromethane	7.0



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1,1-Dichloroethane	7.0
Dichloromethane*	0.05
Di(2-ethylhexyl)phthalate*	0.06
Diethyl Phthalate	5.6
Di-n-butyl Phthalate	3.5
Dinoseb	0.07
Endothall	0.1
Endrin	0.01
Ethylene Dibromide*	0.0005
Fluoranthene	1.4
Fluorene	1.4
Heptachlor*	0.002
Heptachlor Epoxide*	0.001
Hexachlorocyclopentadiene	0.5
Indeno(1,2,3-cd)pyrene*	0.0022
Isopropylbenzene (Cumene)	3.5
Lindane (Gamma-Hexachloro cyclohexane)	0.001
2,4-D	0.35
Ortho-Dichlorobenze	1.5
Para-Dichlorobenzene	0.375
1,2-Dibromo-3-Chloropropane*	0.002
1,2-Dichloroethane*	0.025
1,1-Dichloroethylene	0.035
cis-1,2-Dichloroethylene	0.2
Trans-1,2-Dichloroethylene	0.5
1,2-Dichloropropane*	0.025
Ehylbenzene	1.0
MCCP (Mecoprop)	0.007
Methoxychlor	0.2
2-Methylnaphthalene	0.14
2-Methylphenol	0.35
Methyl Tertiary-Butyl Ether (MTBE)	0.07
Monochlorobenzene	0.5
Naphthalene	0.22
P-Dioxane*	0.0077
Pentachlorophenol*	0.005
Phenols	0.1
Picloram	5.0

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Pyrene	1.05
Polychlorinated Biphenyls (PCBs) (as decachloro-biphenyl)*	0.0025
alpha-BHC (alpha-Benzene hexachloride)*	0.00055
Simazine	0.04
Styrene	0.5
2,4,5-TP	0.25
Tetrachloroethylene*	0.025
Toluene	2.5
Toxaphene*	0.015
1,1,1-Trichloroethane	1.0
1,2,4-Trichlorobenzene	0.7
1,1,2-Trichloroethane	<del>0.025</del> <u>0.050</u>
	<u>5</u>
Trichloroethylene*	0.025
<del>Trichlorofluoromethane</del>	<del>10.5</del>
<u>Trichlorofluoromethane</u>	<u>10.5</u>
Vinyl Chloride*	0.01
Xylenes	10.0

\* Denotes a carcinogen.

2) The standards for pesticide chemical constituents listed in subsection (b)(1) of this Section do not apply to groundwater within 10 feet of the land surface, provided that the concentrations of such constituents result from the application of pesticides in a manner consistent with the requirements of the Federal Insecticide, Fungicide and Rodenticide Act (7 USC 136 et seq.) and the Illinois Pesticide Act [415 ILCS 60].

c) Explosive Constituents  
Concentrations of the following explosive constituents must not exceed the Class II groundwater standard:

Constituent	Standard (mg/L)
1,3-Dinitrobenzene	0.0007
2,4-Dinitrotoluene*	0.0001

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2,6-Dinitrotoluene*	0.00031
HMX (High Melting Explosive, Octogen)	1.4
Nitrobenzene	0.014
RDX (Royal Demolition Explosive, Cyclonite)	0.084
1,3,5-Trinitrobenzene	0.84
2,4,6-Trinitrotoluene (TNT)	0.014

\*Denotes a carcinogen.

- d) Complex Organic Chemical Mixtures  
Concentrations of the following organic chemical constituents of gasoline, diesel fuel, or heating fuel must not be exceeded in Class II groundwater:

Constituent	Standard (mg/L)
Benzene*	0.025
BETX	13.525



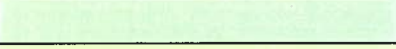

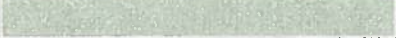
\*Denotes a carcinogen

- e) pH  
Except due to natural causes, a pH range of 6.5 - 9.0 units must not be exceeded in Class II groundwater that is within 5 feet of the land surface.

(Source: Amended at 37 Ill. Reg. \_\_\_\_\_, effective \_\_\_\_\_)

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