



OFFICE OF THE SECRETARY OF STATE

JESSE WHITE • Secretary of State

October 15, 2013

POLLUTION CONTROL BOARD
JOHN THERRIAULT ASSISTANT CLERK
100 W RANDOLPH ST, STE 11-500
CHICAGO, IL 60601

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CLERK'S OFFICE

OCT 18 2013

STATE OF ILLINOIS
Pollution Control Board

Dear JOHN THERRIAULT ASSISTANT CLERK

Your rules Listed below met our codification standards and have been published in Volume 37, Issue 42 of the Illinois Register, dated 10/18/2013.

ADOPTED RULES

Groundwater Quality	
35 Ill. Adm. Code 620	16529
Point of Contact: Nancy Miller	

APPROVAL OF EXPEDITED CORRECTION

Organic Material Emission Standards and Limitations	
35 Ill. Adm. Code 215	16858
Point of Contact: Nancy Miller	

If you have any questions, you may contact the Administrative Code Division at (217) 782 - 7017.

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NOTICE OF ADOPTED AMENDMENT

- 1) Heading of the Part: Groundwater Quality
- 2) Code Citation: 35 Ill. Adm. Code 620
- 3) Section Numbers: 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) Effective Date of Amendment: OCT - 7 2013
- 6) Does this rulemaking contain an automatic repeal date? No.
- 7) Does this amendment contain incorporations by reference? No.
- 8) The text of the adopted amendment is on file in the Board's Chicago office at the James R. Thompson Center, 100 W. Randolph Street, Suite 11-500, and is available there for public inspection.
- 9) Notice of Proposal Published in Illinois Register: May 10, 2013, 37 Ill. Reg. 6123.
- 10) Has JCAR issued a Statement of Objections to this amendment? No.
- 11) Differences between proposal and final version: No changes were made from First Notice.
- 12) Have all the changes agreed upon by the agency and JCAR been made as indicated in the agreements letter issued by JCAR? Yes.
- 13) Will this amendment replace emergency amendments currently in effect? No.
- 14) Are there any amendments pending on this Part? No.
- 15) Summary and Purpose of Amendment: The proposed amendment merely corrects several typographical errors that occurred during the publication of rules adopted during the R08-18 rulemaking, *i.e.*, the inadvertent (1) deletion of trichloroethylene and its Class II groundwater quality standard (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

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II GQS to reflect that the chemical is carcinogenic. The Board opened subdocket B solely to correct these scriveners' errors, as explained in detail in the Board's final-notice opinion and order of October 3, 2013, in R08-18(B), Proposed Amendments to Groundwater Quality Standards (35 Ill. Adm. Code 620).

- 16) Information and questions regarding this adopted amendment shall be directed to:

Richard McGill
Illinois Pollution Control Board
100 W. Randolph Street, Suite 11-500
Chicago, IL 60601

312-814-6983
richard.mcgill@illinois.gov

Copies of the Board's opinions and orders may be requested from the Clerk of the Board at the address listed in #8 above or by calling 312-814-3620. Please refer to the docket number R08-18(b) in your request. The Board's opinions and orders are also available from the Board's Web site (www.ipcb.state.il.us).

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

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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

Section

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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	
620.505	Compliance Determination
620.510	Monitoring and Analytical Requirements

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 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

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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
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)
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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 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

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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

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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
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

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1,1,2-Trichloroethane	0.0250.05
<u>Trichloroethylene*</u>	0.025
Trichlorofluoromethane	10.5
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
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
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	(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 _____)