WISCONSIN LEGISLATIVE COUNCIL STAFF

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CLEARINGHOUSE REPORT TO AGENCY

[THIS REPORT HAS BEEN PREPARED PURSUANT TO S. 227.15, STATS. THIS IS A REPORT ON A RULE AS ORIGINALLY PROPOSED BY THE AGENCY; THE REPORT MAY NOT REFLECT THE FINAL CONTENT OF THE RULE IN FINAL DRAFT FORM AS IT WILL BE SUBMITTED TO THE LEGISLATURE. THIS REPORT CONSTITUTES A REVIEW OF, BUT NOT APPROVAL OR DISAPPROVAL OF, THE SUBSTANTIVE CONTENT AND TECHNICAL ACCURACY OF THE RULE.]

CLEARINGHOUSE RULE 00–162

AN ORDER to repeal NR 809.12 (9) (e) and (10) (e) and 809.561 (3), and Appendix B and C to subchapter VII of chapter NR 809 subchapter VII; to amend NR 809.11 (3) (b), 809.12 (6) (b), 809.80 (4) and (5) (e) 2., 809.833 (2) (c) (intro.), (3) (intro.), (c) 9. and (e) and (5) (c) and (d) and 809.837 (8); to repeal and recreate Appendix A to subchapter VII of chapter NR 809; and to create NR 809.561 (3) to (5), 809.81 (intro.) and (5) (dd), (ei), (ek), (ep) and (hy), 809.82 (6), 809.833 (2) (c) 3. and 4., 809.835 (5), subchapter IX of chapter NR 809, and Appendices A, B and C to subchapter IX of chapter NR 809, relating to public notification requirements for public water systems.

Submitted by DEPARTMENT OF NATURAL RESOURCES

11–08–00 RECEIVED BY LEGISLATIVE COUNCIL.

12-07-00 REPORT SENT TO AGENCY.

RNS:AS:jal;tlu

LEGISLATIVE COUNCIL RULES CLEARINGHOUSE REPORT

This rule has been reviewed by the Rules Clearinghouse. Based on that review, comments are reported as noted below: 1. STATUTORY AUTHORITY [s. 227.15 (2) (a)] YES Comment Attached FORM, STYLE AND PLACEMENT IN ADMINISTRATIVE CODE [s. 227.15 (2) (c)] YES Comment Attached CONFLICT WITH OR DUPLICATION OF EXISTING RULES [s. 227.15 (2) (d)] YES Comment Attached ADEQUACY OF REFERENCES TO RELATED STATUTES, RULES AND FORMS [s. 227.15 (2) (e)] YES / Comment Attached CLARITY, GRAMMAR, PUNCTUATION AND USE OF PLAIN LANGUAGE [s. 227.15 (2) (f)] YES Comment Attached POTENTIAL CONFLICTS WITH, AND COMPARABILITY TO, RELATED FEDERAL REGULATIONS [s. 227.15 (2) (g)] YES Comment Attached COMPLIANCE WITH PERMIT ACTION DEADLINE REQUIREMENTS [s. 227.15 (2) (h)]

YES

Comment Attached

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CLEARINGHOUSE RULE 00–162

Comments

[NOTE: All citations to "Manual" in the comments below are to the Administrative Rules Procedures Manual, prepared by the Revisor of Statutes Bureau and the Legislative Council Staff, dated September 1998.]

2. Form, Style and Placement in Administrative Code

- a. Throughout the rule, parenthetical abbreviations are inappropriately used. [See s. 1.01 (6) and (8), Manual.] They should either be deleted or the abbreviation should be defined. For example, see s. NR 809.81 (5) (hy).
- b. Section NR 809.81 (intro.) should be numbered sub. (1) as it does not contain introductory language and end with a colon.
- c. Section NR 809.81 (5) (ek) should be numbered as par. (ec) so that the list is in alphabetical order.
- d. Section NR 809.82 should be rewritten in the active voice, i.e., "The department shall keep"
- e. In s. NR 809.833 (3) (intro.), "regulated contaminants" should be replaced with "regulated contaminants" and "regulated contaminants" should be deleted.
- f. Section NR 809.950 (intro.) should be numbered sub. (1) as it does not contain introductory language.
- g. In s. NR 809.950 (1) (a), a title should be inserted to be consistent with the subsequent paragraph. This comment also applies to sub. (2) (a).

- h. Section NR 809.950 (1) (b) 1. should have language such as "are all of the following" inserted at the end of the sentence to introduce the subsequent text. Similar language is needed in subds. 2. and 3. and ss. 809.951 (1) (b), 809.952 (1) (b) and (2) (c), 809.953 (1) (b), (3) (a) and (4) (intro.) and 809.954 (3) (a).
- i. In s. NR 809.956, the subdivisions should be numbered (1) and (2) instead of (a) and (b).

4. Adequacy of References to Related Statutes, Rules and Forms

- a. Section 5 repeals s. NR 809.561 (3). There is no such subsection.
- b. In s. NR 809.950 (1) (b) 3. b., please check the citation to s. NR 809.959 (4). I was unable to find sub. (4).
- c. In s. NR 809.951 (1) (b) 7., it would be helpful to cite s. NR 809.04 (65) instead of just s. NR 809.04. However, this would not be needed if s. NR 809.04 (intro.) were created, stating "In this chapter:".
- d. In s. NR 809.954 (3) (b) 2., the citation to sub. (3) (b) 1. should be to subd. 1. instead.
- e. In s. NR 809.956 (b), the comma between s. NR 809.953 (3) and (4) (a) should be replaced with "and." This comment also applies to s. NR 809.957 (2).

5. Clarity, Grammar, Punctuation and Use of Plain Language

- a. Please review s. NR 809.561 (5) (c) and rewrite it as a complete sentence.
- b. In s. NR 809.81 (intro.), "these state-adopted rules become effective, whichever comes first" should be rewritten as "the effective date of this section [revisor inserts date], whichever is earlier." [See s. 1.01 (9) (b), Manual.]
- c. In the Section 16 treatment clause, "Appendix" should be inserted before "A is recreated to read."
- d. In Appendix A to subch. VII, what does it mean when the column entitled "To convert for CCR; multiply by" is blank? Should "N/A" be inserted? Also, "fluoride" is misspelled in the row relating to fluoride. In the row relating to bromate, it appears that there is no space between the words "containing" and "bromate." Also in Appendix A, in the health effects language for Heptachlor epoxide (ppt), "live" should be replaced with "liver." Finally, in the health effects language for TTHMs, Toluene and Vinyl Chloride, "MCl" should be replaced with "MCL."
 - e. In s. NR 809.950 (1) (b) 1. b., who prescribes the treatment technique?

- f. In s. NR 809.950 (1) (b) 1. d., is "a drinking water regulation" specific enough?
- g. In s. NR 809.950 (1) (b) 3. e., "already" should be deleted.
- h. In s. NR 809.950 (2) (b) 1. to 3., the dash should be replaced with "is." Also in subd. 2., "all other" should be deleted.
- i. In s. NR 809.950 (2) (b) 3., "all other" should be deleted. Also, "and" should be replaced with "or."
 - j. In s. NR 809.950 (3) (a), "to other public water systems, i.e.," should be deleted.
 - k. In s. NR 809.951 (1) (b) 1., "E. coli are" should be replaced with "E. coli is."
- 1. In s. NR 809.951 (1) (b) 6., the parentheses around "as identified in Appendix A" should be deleted.
 - m. In s. NR 809.951 (2) (title), "TO BE" should be replaced with "IS."
- n. In s. NR 809.951 (2) (intro.), "if Tier 1 notice is required" should be inserted at the end of the sentence.
- o. In s. NR 809.951 (3) (intro.), "are" in the second sentence should be replaced with "shall be designed" and ", but shall be designed" should be replaced with "and." Finally, "are to" in the last sentence should be replaced with "shall."
- p. In s. NR 809.952 (2) (b), "repeat notice frequency" in the first sentence should be replaced with "notice frequency."
 - q. In s. NR 809.952 (2) (c), "within the next 24 hours, i.e.," should be deleted.
- r. In s. NR 809.952 (3) (a) 2., both instances of "e.g." should be replaced with "such as." This comment also applies to par. (b) 2. Also, ", prison inmates, etc." should be replaced with "prison inmates." Finally, the colon after "include" should be deleted. These comments also apply to s. NR 809.953 (3) (a) and (b) 2.
- s. In s. NR 809.952 (3) (b) 2., the second sentence should be deleted. It is not very helpful in explaining the provision. This comment also applies to s. NR 809.953 (3) (b) 2.
- t. In s. NR 809.953 (2) (a), in the first sentence, "the public notice" should be replaced with "Tier 3 public notice."
- u. In s. NR 809.953 (4) (intro.), the sentence should end with "all of the following occur" or "any of the following occurs."
 - v. In s. NR 809.954 (2) (b), "listed" should be deleted.

w. In Appendix B to subch. IX, in the language relating to copper, should "Tillson's Disease" be replaced with "Wilson's Disease"?

Report to Legislative Council Rules Clearinghouse NR 809, Wis. Adm. Code Natural Resources Board Order No. DG-46-00

Wisconsin Statutory Authority

ss. 280.11 and 281.17(8), Stats.

Federal Authority

40 CFR 141, 142 and 143

Court Decisions Directly Relevant

None

Analysis of the Rule - Rule Effect - Reason for the Rule

In 1978, the Department entered into a primacy agreement with the U.S. Environmental Protection Agency to enforce federal drinking water standards under the Safe Drinking Water Act. U.S. EPA published amendments to 40 CFR 141, 142 and 143. Section 281.19(5), Stats., and our primacy agreement with U.S. EPA require us to adopt rules at least as stringent as federal regulations. These proposed amendments are necessary to assure that our administrative rules are consistent with federal regulations.

The revisions to the public notice rule are essentially an attempt to simplify and further clarify existing Safe Drinking Water Act required public notice requirements. These revisions separate public notifications into three categories called "tiers". Tier 1 public notices will be required for acute public health violations such as a violation of the Total Coliform Rule and notice must be issued within 24 hours. Tier 2 public notification will be required for non-acute maximum contaminant level violations and this type of notice may be delayed up to 30 days. Finally, tier 3 public notice is required for most monitoring and reporting violations and other "minor" violations and may be provided once per year.

The rule revisions clearly spell out what type of violations fit under each tier and provide step by step information regarding what must be done by public water systems that incur violations. In addition, creating the tiered notification process will substantially reduce overall noticing required of public water systems by allowing a "once per year" notice in a water system's annual consumer confidence report. This allowance should actually reduce the cost of noticing for some systems and greatly simplify the process for others.

In addition to clarifying and simplifying existing requirements, this rule revision includes new mandatory public notice language for newly regulated contaminants promulgated under other rules and reformats existing tables to make them easier to understand and use. Overall, this regulation should not increase the regulatory workload on public water systems and should make it more simple and less costly to comply with public notice requirements.

Agency Procedures for Promulgation

Public hearings, Natural Resources Board final adoption, followed by legislative review.

Description of any Forms (attach copies if available)

None

Name and Telephone Number of Agency Liaisons

Don Swailes, Bureau of Drinking Water and Groundwater – 266-7093 Edwina Kavanaugh, Bureau of Legal Services – 264-8991 Carol Turner, Bureau of Legal Services - 266-1959

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Submitted on November 8, 2000

Wisconsin Department of Administration Division of Executive Budget and Finance DOA-2048 (R09/1999)

Fiscal Estimate — 1999 Session

☑ Original ☐ Updated	KRUPAH ERBEDIAN KU	Amendment Number if Applicable
☐ Corrected ☐ Supplementa	Bill Number	Administrative Rule Number NR 809
Subject Revisions to NR 809 (Safe Drinking Water	PORTER REPORT OF THE REAL PROPERTY.	n central Line - Les anteres Albert (1986) - Anton (1986) - Anton (1986) - Les anteres (1986) - Anton (1986) - Anton (1986) - Anton (1986)
☐ Decrease Existing Appropriation ☐ Create New Appropriation Local: ☐ No Local Government Costs 1. ☐ Increase Costs ☐ Permissive ☐ Mandatory 2. ☒ Decrease Costs ☐ Permissive ☒ Mandatory Fund Sources Affected ☐ GPR ☐ FED ☐ PRO ☐ PRS Assumptions Used in Arriving at Fiscal Est SUMMARY OF BILL/RULE - This propsimplifies and further clarifies existing Sarpublic notifications into three categories or	Increase Existing Revenues Decrease Existing Revenues Increase Existing Revenues Increase Revenues Permissive Mandatory Decrease Revenues Permissive Mandatory SEG SEG-S imate Osed revision to Chapter NR 809 fe Drinking Water Act (SDWA) pr "tiers". Tier 1 public notices wi	□ Increase Costs — May be possible to absorb within agency's budget. □ Yes □ No □ Decrease Costs 5. Types of Local Governmental Units Affected: □ Towns □ Villages □ Cities □ Counties □ Others Sanitary Districts □ School Districts □ WTCS Districts Affected Chapter 20 Appropriations incorporates USEPA's Public Notice Rule, which public notice requirements. These revisions separate II be required for acute public health violations such
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ORDER OF THE STATE OF WISCONSIN NATURAL RESOURCES BOARD REPEALING, RENUMBERING, AMENDING, REPEALING AND RECREATING, AND CREATING RULES

The Natural Resources Board proposes an order to repeal NR 809.12(9)(e), (10)(e), 809.561(3), and Appendix B and C to NR 809 subch. VII; to amend NR 809.11(3)(b), 809.12(6)(b), 809.80(4) and (5)(e)2., 809.833(2)(c)(intro.),(3)(intro.), (3)(c)9., (3)(e), (5)(c) and (5)(d), and 809.837(8); to repeal and recreate NR 809 Appendix A to subch. VII; and to create NR 809.561(3) to (5), 809.81(intro.), (5)(dd), (ei), (ek), (ep) and (hy), 809.82(6), 809.833(2)(c)3. and 4., 809.835(5), subch. IX of ch. NR 809, and Appendixes A, B and C to NR 809 subch. IX relating to public notification requirements for public water systems.

DG-46-00

Analysis Prepared by Department of Natural Resources

Statutory authority: ss. 280.11 and 281.17(8), Stats.
Statutes interpreted: ss. 280.11 and 281.17(8), Stats.

USÉPA published amendments to 40 CFR 141, 142 and 143. Our primacy agreement with EPA requires us to adopt rules no less stringent than federal regulations. The proposed changes to Chapter NR 809 update it to reflect changes in 40 CFR, and are necessary to assure that our administrative rules are consistent with federal regulations.

Revisions to the Public Notice Rule are essentially an attempt to simplify and further clarify existing SDWA public notice requirements. These revisions separate public notifications into three categories called "tiers". The rule changes set forth the specifications, qualifications and violations for each tier. In addition to clarification and simplification, this rule revision includes new mandatory public notice language on newly regulated contaminants promulgated under other rules and reformats existing tables to make them easier to understand and use.

Additionally, a few minor revisions are included in this document that were overlooked in the previous rule change submitted. Sections 5, 6 and 9 fall into this category, but only clarify and complete rule revisions previously adopted.

SECTION 1. NR 809.11(3)(b) is amended to read:

NR 809.11(3)(b) There will be The non-community water system is meeting the public notification requirements under s. NR 809.958, including continuous posting of the fact that nitrate as nitrogen levels exceed 10 mg/l and the potential health effects of exposure; and

SECTION 2. NR 809.12(6)(b) is amended to read:

NR 809.12(6)(b) Where nitrate or nitrite sampling results indicate an exceedance of the MCL, the system shall take a confirmation sample within 24 hours of the system's receipt of notification of the analytical results of the first sample. Systems unable to comply with the 24-hour sampling requirement shall immediately notify the consumers served by the pubic water system in accordance with s. NR 809.81 and meet other Tier 1 public notification requirements under subch. IX. Systems exercising this option shall take and analyze a confirmation sample within 2 weeks of notification of the analytical results of the first sample.

SECTION 3. NR 809.12(9)(e) is repealed.

SECTION 4. NR 809.21(10)(e) is repealed.

SECTION 5. NR 809.561(3) is repealed.

1, (4/ no 1, (3)



SECTION 6. NR 809.561(3) to (5) are created to read:

(3) MAXIMUM CONTAMINANT LEVEL GOALS. The MCLGs for the following disinfection byproducts are as indicated:

Disinfection byproduct	MCLG (mg/L)	ydopasau do Vydo – spideno
Chloroform	Zero	eritarile er o
Bromodichloromethane	Zero	
Bromoform there at the services (see that death again	Zero	WARRAN BY
Bromate	Zero	
Dichloroacetic acid	Zero	RMSJOK W
Trichloroacetic acid		
Chlorite	0.8	i an ometei e
Dibromochloromethane		

(4) MAXIMUM RESIDUAL DISINFECTANT LEVEL GOALS. MRDLGs for disinfectants are as follows:

1	Disinfectant residual	MRDLG (mg/L)
	Chlorine	4 (as Cl ₂)
13	Chloramines	4 (as Cl ₂)
۱	Chlorine dioxide	0.8 (as ClO ₂)

(5) BEST AVAILABLE TREATMENT. (a) The department, pursuant to 42 USC 300g-1 and related regulations applicable to public water systems, identifies the following as the best available treatment technology, treatment techniques or other means available for achieving compliance with the maximum contaminant levels for disinfection byproducts identified in s. NR 809.561(1):

(b) Disinfection byproduct	Best available treatment
TTHM	Enhanced coagulation or enhanced softening or GAC10,
	with chlorine as the primary and residual disinfectant.
HAA5	Enhanced coagulation or enhanced softening or GAC10,
	with chlorine as the primary and residual disinfectant.
Bromate	Control of ozone treatment process to reduce production of
and the second second second second	bromate.
Chlorite	Control of treatment processes to reduce disinfectant demand
Manufacture of a separate particular	and control of disinfection treatment processes to reduce
	disinfectant levels.

(c) Maximum residual disinfectant levels identified in s. NR 809.560(2): control of treatment processes to reduce disinfectant demand and control of disinfection treatment processes to reduce disinfectant levels.

SECTION 7. NR 809.80(4) and (5)(e)2. are amended to read:

NR 809.80(4) The supplier of water, within 10 days of completion of each public notification required under & NR 809.81 subch. IX, shall submit to the department a certification that it has fully complied with the public notification regulations. The supplier of water shall include with this certification a representative copy of each type of notice distributed, published, posted, or made available to the person served by the system or to the media, or both.

(5)(e)2. If at any time the turbidity exceeds 5 NTU, the water supplier shall inform consult with the department as soon as possible, but no later than the end of the next business day 24 hours after the exceedance is known, in accordance with the public notification requirements under s. NR 809.952(2)(c).

SECTION 8. NR 809.81(intro.) is created to read:

NR 809.81(intro.) The requirements in this section apply until the requirements of subch. IX are applicable. Public water systems where EPA directly implements the public water system supervision program shall comply with the requirements in subch. IX on October 31, 2000. All other public water systems shall comply with the requirements in subch. IX on May 6, 2002 or on the date these state-adopted rules become effective, whichever comes first.

SECTION 9. NR 809.81(5)(dd) (ei), (ek), (em), (ep) and (hy) are created to read:

NR 809.81(5)(dd) Bromate. The United States Environmental Protection Agency (EPA) sets drinking water standards and has determined that bromate is a health concern at certain levels of exposure. Bromate is formed as a byproduct of ozone disinfection of drinking water. Ozone reacts with naturally occurring bromide in the water to form bromate. Bromate has been shown to produce cancer in rats. EPA has set a drinking water standard to limit exposure to bromate.

(ei) Chlorine. The United States Environmental Protection Agency (EPA) sets drinking water standards and has determined that chlorine is a health concern at certain levels of exposure. Chlorine is added to drinking water as a disinfectant to kill bacteria and other disease-causing microorganisms and is also added to provide continuous disinfection throughout the distribution system. Disinfection is required for surface water systems. However, at high doses for extended periods of time, chlorine has been shown to affect blood and the liver in laboratory animals. EPA has set a drinking water standard for chlorine to protect against the risk of these adverse effects. Drinking water which meets this EPA standard is associated with little to none of this risk and should be considered safe with respect to chlorine.

(ek) Chloramines. The United States Environmental Protection Agency (EPA) sets drinking water standards and has determined that chloramines are a health concern at certain levels of exposure. Chloramines are added to drinking water as a disinfectant to kill bacteria and other disease-causing microorganisms and are also added to provide continuous disinfection throughout the distribution system. Disinfection is required for surface water systems. However, at high doses for extended periods of time, chloramines have been shown to affect blood and the liver in laboratory animals. EPA has set a drinking water standard for chloramines to protect against the risk of these adverse effects. Drinking water which meets this EPA standard is associated with little to none of this risk and should be considered safe with respect to chloramines.

(em) Chlorine dioxide. The United States Environmental Protection Agency (EPA) sets drinking water standards and has determined that chlorine dioxide is a health concern at certain levels of exposure. Chlorine dioxide is used in water treatment to kill bacteria and other disease-causing microorganisms and can be used to control tastes and odors. Disinfection is required for surface water systems. However, at high doses, chlorine dioxide-treated drinking water has been shown to affect blood in laboratory animals. Also, high levels of chlorine dioxide given to laboratory animals in drinking water have been shown to cause neurological effects on the developing nervous system. These neurodevelopmental effects may occur as a result of a short-term excessive chlorine dioxide exposure. To protect against such potentially harmful exposures, EPA requires chlorine dioxide monitoring at the treatment plant, where disinfection occurs, and at representative points in the distribution system serving water users. EPA has set a drinking water standard for chlorine dioxide to protect against the risk of these adverse effects.

Note: In addition to the language in this introductory text of par. (em), systems shall include either the language in subd. 1. or 2. Systems with a violation at the treatment plant, but not in the distribution system, are required to use the language in subd. 1. and treat the violation as a nonacute violation. Systems with a violation in the distribution system are required to use the language in subd. 2. and treat the violation as an acute violation.

1. The chlorine dioxide violations reported today are the result of exceedances at the treatment facility only, and do not include violations within the distribution system serving users of this water supply.

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Continued compliance with chlorine dioxide levels within the distribution system minimizes the potential risk of these violations to present consumers.

- 2. The chlorine dioxide violations reported today include exceedances of the EPA standard within the distribution system serving water users. Violations of the chlorine dioxide standard within the distribution system may harm human health based on short-term exposures. Certain groups, including pregnant women, infants, and young children, may be especially susceptible to adverse effects of excessive exposure to chlorine dioxide-treated water. The purpose of this notice is to advise that such persons should consider reducing their risk of adverse effects from these chlorine dioxide violations by seeking alternate sources of water for human consumption until such exceedances are rectified. Local and state health authorities are the best sources for information concerning alternate drinking water.
- (ep) Chlorite. The United States Environmental Protection Agency (EPA) sets drinking water standards and has determined that chlorite is a health concern at certain levels of exposure. Chlorite is formed from the breakdown of chlorine dioxide, a drinking water disinfectant. Chlorite in drinking water has been shown to affect blood and the developing nervous system. EPA has set a drinking water standard for chlorite to protect against these effects. Drinking water which meets this standard is associated with little to none of these risks and should be considered safe with respect to chlorite.
- (hy) Disinfection byproducts and treatment technique for DBPs. The United States Environmental Protection Agency (EPA) sets drinking water standards and requires the disinfection of drinking water. However, when used in the treatment of drinking water, disinfectants react with naturally-occurring organic and inorganic matter present in water to form chemicals called disinfection byproducts (DBPs). EPA has determined that a number of DBPs are a health concern at certain levels of exposure. Certain DBPs, including some trihalomethanes (THMs) and some haloacetic acids (HAAs), have been shown to cause cancer in laboratory animals. Other DBPs have been shown to affect the liver and the nervous system, and cause reproductive or developmental effects in laboratory animals. Exposure to certain DBPs may produce similar effects in people. EPA has set standards to limit exposure to THMs, HAAs, and other DBPs.

SECTION 10. NR 809.82(6) is created to read:

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NR 809.82(6) Copies of public notices issued pursuant to subch. IX and certifications made to the department pursuant to s. NR 809.80 shall be kept for 3 years after issuance.

SECTION 11. NR 809.833(2)(c)(intro.) is amended to read:

NR 809.833(2)(c)(intro.) A report which contains data on a contaminant contaminants for which EPA has set a treatment technique or an action level shall include one or both of the following definitions as applicable regulates using any of the following terms shall include the applicable definitions:

SECTION 12. NR 809.833(2)(c) 3. and 4. are created to read:

NR 809.833(2)(c)3. Maximum residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

4. Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

SECTION 13. NR 809.833(3)(intro.), (3)(c)9., (3)(e), (5)(c) and (5)(d) are amended to read:

NR 809.833(3)(intro.) With the exception of Cryptosporidium, reports shall contain the following information in the specified format, for regulated contaminants with MCLs treatment techniques, or action levels regulated contaminants subject to a MCL, action level, maximum residual disinfectant level, or treatment technique, unregulated contaminants for which monitoring is required under subch. I, and

define

disinfection by-products and microbial contaminants for which monitoring is required under subchs. IV and V:

- 9. The likely sources of detected contaminants to the best of the water system owner or operator's knowledge. Specific information regarding contaminants may be available in sanitary surveys and source water assessments, and should be used when available to the water system owner or operator. If the water system owner or operator lacks specific information on the likely source, the report shall include one or more of the typical sources for that contaminant listed in Appendix <u>BA</u> that are most applicable to the system.
- (e) The tables shall clearly identify any data indicating violations of MCLs or treatment techniques and the report shall contain a clear and readily understandable explanation of the violation including: the length of the violation, the potential adverse health effects, and actions taken by the system to address the violation. To describe the potential health effects, the system shall use the relevant language of Appendix GA.
- (5)(c) <u>Lead and copper control requirements prescribed by subch. II.</u> For systems that fail to take one or more actions prescribed by s. NR 809.541(4), 809.542, 809.543, 809.544 or 809.545, the report shall include the applicable language of Appendix GA for lead, copper or both.
- (d) <u>Treatment techniques for Acrylamide and Epichlorohydrin prescribed by subch. I.</u> For systems that violate the requirements of s. NR 809.26(4), the report shall include the relevant language from Appendix CA.

SECTION 14. NR 809.835(5) is created to read:

NR 809.835(5) Community water systems that detect TTHM above 0.080 mg/l, but below the MCL in s. NR 809.22, as an annual average, monitored and calculated under the provisions of s. NR 809.23, shall include health effects language for TTHMs prescribed by appendix A.

SECTION 15. NR 809.837(8) is amended to read:

NR 809.837(8) Any systems subject to this subchapter shall retain copies of its consumer confidence report for no less than $\frac{53}{2}$ years.

SECTION 16. NR 809 Appendix A, B and C to subch. VII are repealed and A is recreated to read:

Contaminant (units)	Traditional MCL in mg/L	To convert for CCR; multiply by	MCL in CCR units	MCLG	Major sources in drinking water	Health effects language
Microbiological contaminants: Total Coliform Bacteria	MCL: (systems that collect ≥40 samples/ month) 5% of monthly samples are positive; (systems that collect ≤40 samples/ monthly positive monthly sample.		MCL: (systems that collect ≥40 samples/ month) 5% of monthly samples are positive; (systems that collect ≤40 samples/ month) 1 positive monthly sample.	0	Naturally present in the environment.	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.
Fecal coliform and E. coli	0	and a larger of the larger of	0	0	Human and animal fecal waste.	Fecal coliforms and E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a special health risk for infants, young children, some of the elderly, and people with severely compromised immune systems.
Total organic carbon (ppm)				A/A	Naturally present in the environment.	Total organic carbon (TOC) has no health effects. However, total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection by products. Their byproducts include trihalomethanes (THMs) and haloacetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of perting cancer.
Turbidity (NTU)				N/A	Soil runoff.	Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.
Radioactive contaminants: Beta/photon emitters (mrem/yr)	4 mrem/yr	e C	4	N/A	Decay of natural and man- made deposits.	Certain minerals are radioactive and may emit forms of radiation known as photons and beta radiation. Some people who drink water containing beta and photon emitters in excess of the MCL over many years may have an increased risk of getting cancer.
Alpha emitters (pc.//)	15 pCi/l		S	N/A	Erosion of natural deposits.	Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.
Combined radium (pCi/l)	5 pCi/l		S	N/A	Erosion of natural deposits.	Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.
Antimony (ppb)	900	0001	9	9	Discharge from petroleum refineries, fire retardants, ceramics, electronics, solder.	Some people who drink water containing antimony well in excess of the MCL over many years could experience increases in blood cholesterol and decreases in blood sugar.
Arsenic (ppb)	.05	1000	20	N/A	Erosion of natural deposits; Runoff from orchards; Runoff	Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or

		the MCL over many years could experience an increase in their blood pressure.	Some people who drink water containing beryllium well in excess of the MCL over many years could develop intestinal lesions.	sipes; Some people who drink water containing cadmium in excess of the MCL over many years could experience kidney damage.	pulp Some people who drink water containing chromium well in excess of the MCL over many years could experience allergic dermatitis.			8		is; Some people who drink water containing inorganic mercury and well in excess of the MCL over many years could experience kidney damage.	; Infants below the age of 6 months who drink water containing
from glass and electronics production wastes.	Decay of asbestos cement water, Erosion of natural deposits.	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.	Discharge from metal refineries and coal-burning factories; Discharge from electrical, aerospace, and defense industries.	Corrosion of galvanized pipes; Erosion of natural deposits; Discharge from metal refineries; Runoff from waste batteries and paints.				Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	Corrosion of household plumbing system; Erosion of natural deposits.	Erosion of natural deposits, Discharge from refineries and factories; Runoff from landfills; Runoff from cropland.	Runoff from fertilizer use;
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			1000	0000	1000		1000		1000 AI	1000	10
	7 MFL	2	.004	5002		AL = 1.3	2:	4	AL = .015	.002	10
	Asbestos (MFL)	Barium (ppm)	Beryllium (ppb)	Cadmium (ppb)	Chromium (ppb)	Copper (ppm)	Cyanide (ppb)	Flouride (ppm)	Lead (ppb)	Mercury [inorganic] (ppb)	Nitrate (ppm)

							The state of the s
**************************************						Leaching from septic tanks, sewage; Erosion of natural deposits.	nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.
Nitrite (ppm)			-		_	Runoff from fertilizer use;	Infants below the age of 6 months who drink water containing
	-	14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -				Leaching from septic tanks,	nitrite in excess of the MCL could become seriously ill and, if
						deposits.	and blue baby syndrome.
Selenium (ppb)	.05	1000	50		50	Discharge from petroleum and	Selenium is an essential nutrient. However, some people who
	: - - -					metal refineries; Erosion of natural deposits; Discharge from mines	drink water containing selenium in excess of the MCI over many years could experience hair or fingernail loss, numbness in fingers or togs, or anothers with their circulation.
Thallium (ppb)	000	1000	2		0.5	I eaching from ore-processing	Some people who drink water containing thellium is account.
	: 2		1		3	sites; Discharge from	Source people who units, water containing mainting in excess of the MCL over many years could experience hair loss, changes the MCL over many years could experience hair loss, changes the MCL over many years could experience hair loss, changes the MCL over many years could experience hair loss, changes the MCL over many years could experience hair loss of the MCL over many years.
						electronic, grass, and drug factories.	in their blood, or problems with their kidneys, intestines, or liver.
Synthetic organic contaminants including pesticides and herbicides:					TO A		の 1975年 - 19
2,4-D (ppb)		1000	20		70	Runoff from herbicide used on row crops.	Some people who drink water containing the weed killer 2,4-D well in excess of the MCL over many years could experience problems with their kidneys, liver, or adrenal plands.
2,4,5-TP [Silvex] (ppb)		1000	20		50	Residue of banned herbicide.	Some people who drink water containing silvex in excess of the MCI, over many years could experience liver problems
Acrylamide	TT		Ш		0	Added to water during	Some people who drink water containing high levels of
					1	sewage/wastewater treatment.	acrylamide over a long period of time could have problems with their nervous system or blood, and may have an increased risk of getting cancer.
Alachlor (ppb)	.002	1000	2		0	Runoff from herbicide used on	Some people who drink water containing alachlor in excess of
			er Sylvania			row crops.	the MCL over many years could have problems with their eyes, liver, kidney, or spleen, or experience anemia, and may have an increased risk of getting cancer.
Atrazine (ppb)	.003	1000	3		3	Runoff from herbicide used on	Some people who drink water containing atrazine well in
		and the second s				row crops.	excess of the MCL over many years could experience problems with their cardiovascular system or reproductive difficulties.
Benzo(a)pyrene [PAH]	.0002	1,000,000	200	Morri	0	Leaching from lining of water	Some people who drink water containing benxo(a)pyrene in
(nanograms/1)						storage tanks and distribution lines.	excess of the MCL over many years may experience reproductive difficulties and may have an increased risk of pertung cancer.
Carbofuran (ppb)	9.04	1000	40		40	Leaching of soil fumigant used on rice and alfalfa.	Some people who drink water containing carbofuran in excess of the MCL over many years could experience problems with
Chlordane (ppb)	.002	1000	2		0	Residue of banned termiticide.	uterr blood, or nervous or reproductive systems. Some people who drink water containing chlordane in excess
		-					of the MCL over many years could experience problems with their liver or nervous system, and may have an increased risk of getting cancer.
Dalapon (ppb)	2	0001	200		200	Runoff from herbicide used on rights of way.	Some people who drink water containing dalapon well in excess of the MCL over many years could experience minor kidney changes.
Di(2-ethylhexyl) adipate (ppb)	A section of the sect	-1000 man and a second of the	400		400	Discharge from chemical factories.	Some people who drink water containing di (2-ethylhexyl) phthalate in excess of the MCL over many years may have

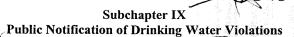
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problems with their liver, or experience reproductive difficulties, and may have an increase risk of getting cancer.	Some people who drink water containing DBCP in excess of the MCL over many years could experience reproductive problems and may have an increased risk of getting cancer.	Some people who drink water containing dinoseb well in excess of the MCL over many years could experience reproductive difficulties.	Some people who drink water containing diquat in excess of the MCL over many years could get cataracts.	Some people who drink water containing dioxin in excess of the MCL over many years could experience reproductive difficulties and may have an increased risk of getting cancer.	Some people who drink water containing endothall in excess of the MCL over many years could experience problems with their stomach or intestines.	Some people who drink water containing endrin in excess of the MCL over many years could experience liver problems.	Some people who drink water containing high levels of epichlorohydrin over a long period of time could experience stomach problems, and may have an increased risk of getting cancer.	Some people who drink water containing ethylenedibromide in excess of the MCL over many years could experience problems with their liver, stomach, reproductive systems, or kidneys, and may have an increased risk of getting cancer.	Some people who drink water containingglyphosate in excess of the MCL over many years could experience problems with their kidneys or reproductive difficulties.	Some people who drink water containing heptachlor in excess of the MCL over many years could experience liver damage and may have an increased risk of getting cancer.	Some people who drink water containing heptachlorepoxide in excess of the MCL over many years could experience live damage, and may have an increased risk of getting cancer.	Some people who drink water containing hexachlorobenzene in excess of the MCL over many years could experience problems with their liver or kidneys, or adverse reproductive effects, and may have an increased risk of getting cancer.	Some people who drink water containing hexachlorocyclopentadiene well in excess of the MCL over many years could experience problems with their kidneys or stomach.	Some people who drink water containing lindane in excess of the MCL over many years could experience problems with their kidneys or liver.	Some people who drink water containing methoxychlor in excess of the MCL over many years could experience reproductive difficulties.
	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards.	Runoff from herbicide used on soybeans and vegetables.	Runoff from herbicide use.	Emissions from waste incineration and other combustion; Discharge from chemical factories.	Runoff from herbicide use.	Residue of banned insecticide.	Discharge from industrial chemical factories; An impurity of some water treatment chemicals.	Discharge from petroleum refineries.	Runoff from herbicide use.	Residue of banned pesticide.	Breakdown of heptachlor.	Discharge from metal refineries and agricultural chemical factories.	Discharge from chemical factories.	Runoff/leaching from insecticide used on cattle, lumber and gardens.	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa and
	0	2	20	0	100	2	0		700	0	0	0	20	200	40
	200	<u>, </u>	20	30	100	2	11	20	007	400	200	- 1	20	200	40
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	.0002	200	.02	.00000003		.002	TT	\$0000		.0004	.0002	.001	50.	.0002	.04
	opropane (ppt)	Dinoseb (ppb)		Dioxin [2,3,7,8-TCDD] (ppq)	(90	Endrin (ppb)		Ethylene dibromide (ppt)	Glyphosate (ppb)	Heptachlor (ppt)	Heptachlor epoxide (ppt)		Hexachlorocyclopentadiene (ppb)		Methoxychlor (ppb)

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Some people who drink water containingoxamyl in excess of	system effects.	Some people who drink water containing PCBs in excess of the MCL over many years could experience changes in their skin, problems with their thymus gland, immune deficiencies, or reproductive or nervous system difficulties, and may have	Some people who drink water containing pentachlorophenol in excess of the MCL over many years could experience problems with their liver or kidneys, and may have an increased risk of getting cancer.	Some people who drink water containing picloram in excess of the MCL over many years could experience problems with their liver.	Some people who drink water containing simazine in excess of the MCL over many years could experience problems with their blood.	Some people who drink water containing toxaphene in excess of the MCL over many years could have problems with their kidneys, liver, or thyroid, and may have an increased risk of getting cancer.	Some people who drink water containing benzene in excess of the MCL over many years could experience anemia or a decrease in blood platelets, and may have an increased risk of getting cancer.	Some people who drink water containing bromate in excess of the MCL over many years may have an increased risk of getting cancer.	Some people who drink water containing carbon tetrachloride in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer.	Some people who drink water containing chloramines well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chloramines well in excess of the MRDL could experience stomach discomfort or anemia.	Some people who use water containing chlorine well in excess of the MRDL could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.	Some infants and young children who drink water containing chlorite in excess of the MCL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorite in excess of the MCL. Some people may experience anemia.	Some infants and young children who drink water containing chlorine dioxide in excess of the MRDL could experience nervous sytem effects. Similar effects may occur in fetuses of
Runoff/leaching from insecticide used on apples.	potatoes and tomatoes.	Kunoff from landfills; Discharge of waste chemicals.	Discharge from wood preserving factories.	Herbicide runoff.	Herbicide runoff.	Runoff/leaching from insecticide used on cotton and cattle.	Discharge from factories; Leaching from gas storage tanks and landfills.	By-product of drinking water chlorination.	Discharge from chemical plants and other industrial activities.	Water additive used to control microbes.	Water additive used to control microbes.	By-product of drinking water chlorination.	Water additive used to control microbes.
200			0	200	*	0	0	0	0	MRDLG = 4	MRDLG = 4	0.8	MRDLG = 800
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Oxamyl [Vydate] (ppb)	PCBs	[Polychlorinatedbiphenyls] (ppt)	(pdd) loua	ricioram (ppb)			ic contaminants:		e (Dbb)	(wd			Chionae dioxide (ppb)

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circulatory system. Some neonle who drink water containing 1.1.2.	Discharge from industrial	3		5		1000	5005	-	1.1.2-Trichloroethane (ppb)
Some people who drink water containing 1,1,1- trichloroethane in excess of the MCL over many years could experience problems with their liver, nervous system, or	Discharge from metal degreasing sites and other factories.	200		200		1000		7	1,1,1-Trichloroethane (ppb)
Some people who drink water containing 1,2,4- trichlorobenzene well in excess of the MCL over many years could experience changes in their adrenal glands.	Discharge from textile- finishing factories.	20		20		1000	7.	.07	1,2,4-Trichlorobenzene (ppb)
Some people who drink water containing tetrachloroethylene in excess of the MCL over many years could have problems with their liver, and may have an increased risk of getting cancer.	Discharge from factories and dry cleaners.	0		0		0000	\$ 000:	o.	i etrachloroethylene (ppb)
Some people who drink water containing styrene well in excess of the MCI over many years could have problems with their liver, kidneys, or circulatory system.	Discharge from rubber and plastic factories; Leaching from landfills.	000		00		1000		-	Styrene (ppb)
Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.	By-product of drinking water disinfection.	N/A		09		1000	.060		Haloacetic Acids (HAA) (pbb)
Some people who drink water containingethylbenzene well in excess of the MCL over many years could experience problems with their liver or kidneys.	Discharge from petroleum refineries.	700		700	·	1000			Ethylbenzene (ppb)
Some people who drink water containing 1,2-dichloropropane in excess of the MCL over many years may have an increased risk of getting cancer.	Discharge from industrial chemical factories.	0	92 200 300 300 400 400 400 400 400 400 400 4	S 8		1000	.005	9.	1,2-dichloropropane (ppb)
Some people who drink water containing dichlorormethane in excess of the MCL over many years could have liver problems and may have an increased risk of getting cancer.	Discharge from pharmaceutical and chemical factories.	0		بر		1000	.005	0.	Dichloromethane (ppb)
Some people who drink water containing trans-1,2-dichloroethylene well in excess of the MCL over many years could experience problems with their liver.	Discharge from industrial chemical factories.	001		0		000 I		-	Trans-1,2-Dichloroethylene (ppb)
Some people who drink water containing cis-1,2-dichloroethylene in excess of the MCL over many years could experience problems with their liver.	Discharge from industrial chemical factories.	70		70		1000	20.		cis-1,2-dichloroethylene (ppb)
Some people who drink water containing 1,1-dichloroethylene in excess of the MCL over many years could experience problems with their liver.	Discharge from industrial chemical factories.	7		7		1000	.00 7		1,1-Dichloroethylene (ppb)
Some people who drink water containing 1,2-dichloroethane in excess of the MCL over many years may have an increased risk of getting cancer.	Discharge from industrial chemical factories.	0		رم م		1000	.005	0;	1,2-Dichloroethane (ppb)
Some people who drink water containing p-dichlorobenzene in excess of the MCL over many years could experience anemia, damage to their liver, kidneys, or spleen, or changes in their blood.	Discharge from industrial chemical factories.	75		75		1000	.075	0.	p-Dichlorobenzene (ppb)
Some people who drink water containing o-dichlorobenzene well in excess of the MCL over many years could experience problems with their liver, kidneys, or circulatory systems.	Discharge from industrial chemical factories.	009		009		1000		9.	o-Dichlorobenzene (ppb)
Some people who drink water containing chlorobenzene in excess of the MCL over many years could experience problems with their liver or kidneys.	Discharge from chemical and agricultural chemical factories.	100		100		1000		- :	Chlorobenzene (ppb)
pregnant women who drink water containing chlorine dioxide in excess of the MRDL. Some people may experience anemia.		9							

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trichloroethane well in excess of the MCL over many years could have problems with their liver, kidneys, or immune systems.	Some people who drink water containing trichoroethylene in	excess of the MCL over many years could experience	getting cancer.	Some people who drink water containing trihalomethanes in	excess of the MCI over many years may experience problems	With their liver, kidneys, or central nervous systems, and may	Some meet included 113K of genuing cancer.	excess of the MCI over many years could have problems with	their nervous system, kidneys, or liver.	Some people who drink water containing vinyl chloride in	excess of the MCI over many years may have an increased	Some people who drink water containing wilden in	the MCL over many years could experience damages to their	nervous system.																				等。等。 18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19
chernical factories.	Discharge from metal	degreasing sites and other factories.		By-product of drinking water	chlorination.		Discharge from netroleum	factories.		Leaching from PVC piping;	Discharge from plastics factories.	Discharge from petroleum	factories; Discharge from	chemical factories.																				
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:	Key:	AL=	MCL ≈	MCLG =	MFL =	MRDL =	MRDLG=	mrem/year =	N/A =	NTU =	pCi/l =	= mdd	= qdd	ppt ==	= bdd	TT =				
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NR 809.950 General public notification requirements. Public water systems shall comply with the requirements in this subchapter no later than May 6, 2002 or on the date the rule becomes effective, whichever comes first. Prior to these dates, public water systems shall continue to comply with the public notice requirements in s. NR 809.80.

- (1) WHO SHALL GIVE PUBLIC NOTICE (a) Each owner or operator of a public water system including, community water systems, non-transient non-community water systems, and transient non-community water systems, shall give notice for all violations of national primary drinking water regulations (NPDWR) and for other situations, as listed in par. (b). The term "NPDWR violations" is used in this subchapter to include violations of the maximum contaminant level (MCL), maximum residual disinfection level (MRDL), treatment technique (TT), monitoring requirements, and testing procedures in ch. NR 809. Appendix A to this subpart identifies the tier assignment for each specific violation or situation requiring a public notice.
 - (b) Violation categories and other situations requiring a public notice. 1. NPDWR violations:
- a. Failure to comply with an applicable maximum contaminant level (MCL) or maximum residual disinfectant level (MRDL).
 - b. Failure to comply with a prescribed treatment technique (TT).
 - c. Failure to perform water quality monitoring, as required by the drinking water regulations.
 - d. Failure to comply with testing procedures as prescribed by a drinking water regulation.
 - 2. Variance and exemptions under subch. VII of ch. NR 809:
 - a. Operation under a variance or an exemption.
- b. Failure to comply with the requirements of any schedule that has been set under a variance or exemption.
 - 3. Special public notices:
 - a. Occurrence of a waterborne disease outbreak or other waterborne emergency.
- b. Exceedance of the nitrate MCL by non-community water systems (NCWS), where granted permission by the primacy agency under s. NR 809.959(4).
 - c. Exceedance of the secondary maximum contaminant level (SMCL) for fluoride.
 - d. Availability of unregulated contaminant monitoring data.
- e. Other violations and situations determined by the department to require a public notice under this subchapter, not already listed in Appendix A.
- (2) TYPE OF PUBLIC NOTICE IS REQUIRED FOR EACH VIOLATION OR SITUATION (a). Public notice requirements are divided into 3 tiers, to take into account the seriousness of the violation or situation and of any potential adverse health effects that may be involved. The public notice requirements for each violation or situation listed in sub. (1)(b) are determined by the tier to which it is assigned. The

definition of each tier is provided in par. (b). Appendix A identifies the tier assignment for each specific violation or situation.

- (b) Definition of public notice tiers. 1. Tier 1 public notice required for NPDWR violations and situations with significant potential to have serious adverse effects on human health as a result of short-term exposure.
- 2. Tier 2 public notice, required for all other NPDWR violations and situations with potential to have serious adverse effects on human health.
- 3. Tier 3 public notice--required for all other-NPDWR violations and situations not included in Tier 1 and Tier 2.
- (3) WHO SHALL BE NOTIFIED (a) Each public water system shall provide public notice to persons served by the water system, in accordance with this subsection. Public water systems that sell or otherwise provide drinking water to other public water systems, i.e., to consecutive systems, are required to give public notice to the owner or operator of the consecutive system; the consecutive system is responsible for providing public notice to the persons it serves.
- (b) If a public water system has a violation in a portion of the distribution system that is physically or hydraulically isolated from other parts of the distribution system, the department may allow the system to limit distribution of the public notice to only persons served by that portion of the system which is out of compliance. Permission by the department for limiting distribution of the notice shall be granted in writing.
- (c) A copy of the notice shall also be sent to the department, in accordance with the requirements under s. NR 809.80(5).

NR 809.951 Tier 1 Public Notice--Form, manner, and frequency of notice. (1) VIOLATIONS OR SITUATIONS WHICH REQUIRE A TIER 1 PUBLIC NOTICE (a) Paragraph (b) lists the violation categories and other situations requiring a Tier 1 public notice. Appendix A identifies the tier assignment for each specific violation or situation.

- (b) Violation categories and other situations requiring a Tier 1 public notice;
- 1. Violation of the MCL for total coliforms when fecal coliform or E. coli are present in the water distribution system, as specified in s. NR 809.30(2), or when the water system fails to test for fecal coliforms or E. coli when any repeat sample tests positive for coliform, as specified in s. NR 809.31(4).
- 2. Violation of the MCL for nitrate, nitrite, or total nitrate and nitrite, as defined in s. NR 809.11, or when the water system fails to take a confirmation sample within 24 hours of the system's receipt of the first sample showing an exceedance of the nitrate or nitrite MCL, as specified in s. NR 809.12(6)(b).
- 3. Exceedance of the nitrate MCL by non-community water systems, where permitted to exceed the MCL by the department under s. NR 809.11(3), as required under s. NR 809.958.
- 4. Violation of the MRDL for chlorine dioxide, as defined in s. NR 809.561(2), when one or more samples taken in the distribution system the day following an exceedance of the MRDL at the entrance of the distribution system exceed the MRDL, or when the water system does not take the required samples in the distribution system, as specified in s. NR 809.566(3)(b)1.
- 5. Violation of the turbidity MCL under s. NR 809.40(2), where the department determines after consultation that a Tier 1 notice is required or where consultation does not take place within 24 hours after the system learns of the violation.
- 6. Violation of the Surface Water Treatment Rule (SWTR) or Interim Enhanced Surface Water Treatment Rule (IESWTR) treatment technique requirement resulting from a single exceedance of the

maximum allowable turbidity limit (as identified in Appendix A), where the department determines after consultation that a Tier 1 notice is required or where consultation does not take place within 24 hours after the system learns of the violation.

- 7. Occurrence of a waterborne disease outbreak, as defined in s. NR 809.04, or other waterborne emergency, such as a failure or significant interruption in key water treatment processes, a natural disaster that disrupts the water supply or distribution system, or a chemical spill or unexpected loading of possible pathogens into the source water that significantly increases the potential for drinking water contamination.
- 8. Other violations or situations with significant potential to have serious adverse effects on human health as a result of short-term exposure, as determined by the department either in its regulations or on a case-by-case basis.
- (2) WHEN THE TIER 1 PUBLIC NOTICE TO BE PROVIDED AND WHAT ADDITIONAL STEPS ARE REQUIRED. Public water systems shall do all of the following:
- (a) Provide a public notice as soon as practical but no later than 24 hours after the system learns of the violation.
- (b) Initiate consultation with the department as soon as practical, but no later than 24 hours after the public water system learns of the violation or situation, to determine additional public notice requirements.
- (c) Comply with any additional public notification requirements, including any repeat notices or direction on the duration of the posted notices, that are established as a result of the consultation with the department. Requirements may include the timing, form, manner, frequency, and content of repeat notices, if any, and other actions designed to reach all persons served.
- (3) FORM AND MANNER OF THE PUBLIC NOTICE. Public water systems shall provide the notice within 24 hours in a form and manner reasonably calculated to reach all persons served. The form and manner used by the public water system are to fit the specific situation, but shall be designed to reach residential, transient and non-transient users of the water system. To reach all persons served, water systems are to use, at a minimum, one or more of the following forms of delivery:
 - (a) Appropriate broadcast media, such as radio and television.
 - (b) Posting of the notice in conspicuous locations throughout the area served by the water system.
 - (c) Hand delivery of the notice to persons served by the water system.
 - (d) Another delivery method approved in writing by the department.

NR 809.952 Tier 2 Public Notice—Form, manner, and frequency of notice. (1) VIOLATIONS OR SITUATIONS WHICH REQUIRE A TIER 2 PUBLIC NOTICE. (a) Paragraph (b) lists the violation categories and other situations requiring a Tier 2 public notice. Appendix A identifies the tier assignment for each specific violation or situation.

- (b) Violation categories and other situations requiring a Tier 2 public notice:
- 1. All violations of the MCL, MRDL, and treatment technique requirements, except where a Tier 1 notice is required under s. NR 809.951(1) or where the department determines that a Tier 1 notice is required.
- 2. Violations of the monitoring and testing procedure requirements, where the department determines that a Tier 2 rather than a Tier 3 public notice is required, taking into account potential health impacts and persistence of the violation.

- 3. Failure to comply with the terms and conditions of any variance or exemption in place.
- (2) WHEN TIER 2 PUBLIC NOTICE TO BE PROVIDED. (a) Public water systems shall provide the public notice as soon as practical, but no later than 30 days after the system learns of the violation. If the public notice is posted, the notice shall remain in place for as long as the violation or situation persists, but in no case for less than 7 days, even if the violation or situation is resolved. The department may, in appropriate circumstances, allow additional time for the initial notice of up to 3 months from the date the system learns of the violation. The department may not grant an extension to the 30-day deadline for any unresolved violation nor allow across-the-board extensions by rule or policy for other violations or situations requiring a Tier 2 public notice. Extensions granted by the department shall be in writing.
- (b) The public water system shall repeat the notice every 3 months as long as the violation or situation persists, unless the department determines that appropriate circumstances warrant a different repeat notice frequency. In no circumstance may the repeat notice be given less frequently than once per year. The department may not allow across-the-board reductions in the repeat notice frequency for other ongoing violations requiring a Tier 2 repeat notice. Department determinations allowing repeat notices to be given less frequently than once every 3 months shall be in writing.
- (c) For turbidity violations specified in this paragraph, public water systems shall consult with the department as soon as practical but no later than 24 hours after the public water system learns of the violation, to determine whether a Tier 1 public notice under s. NR 809.951(1) is required to protect public health. When consultation does not take place within the 24-hour period, the water system shall distribute a Tier 1 notice of the violation within the next 24 hours, i.e., no later than 48 hours after the system learns of the violation, following the requirements under s. NR 809.951(2) and (3). Consultation with the department is required for either:
 - 1. Violation of the turbidity MCL under s. NR 809.40(2).
- 2. Violation of the SWTR or IESWTR treatment technique requirement resulting from a single exceedance of the maximum allowable turbidity limit.
- (3) FORM AND MANNER OF THE TIER 2 PUBLIC NOTICE. Public water systems shall provide the initial public notice and any repeat notices in a form and manner that is reasonably calculated to reach persons served in the required time period. The form and manner of the public notice may vary based on the specific situation and type of water system, but it shall at a minimum meet the following requirements:
- (a) Unless directed otherwise by the department in writing, community water systems shall provide notice by both of the following:
- 1. Mail or other direct delivery to each customer receiving a bill and to other service connections to which water is delivered by the public water system.
- 2. Any other method reasonably calculated to reach other persons regularly served by the system, if they would not normally be reached by the notice required in subd. 1. Persons may include those who do not pay water bills or do not have service connection addresses, e.g., house renters, apartment dwellers, university students, nursing home patients, prison inmates, etc. Other methods may include publication in a local newspaper; delivery of multiple copies for distribution by customers that provide their drinking water to others, e.g., apartment building owners or large private employers; posting in public places served by the system or on the internet; or, delivery to community organizations.
- (b) Unless directed otherwise by the department in writing, non-community water systems shall provide notice by both of the following:

- 1. Posting the notice in conspicuous locations throughout the distribution system frequented by persons served by the system, or by mail or direct delivery to each customer and service connection, where known.
- 2. Any other method reasonably calculated to reach other persons served by the system if they would not normally be reached by the notice required in subd. 1. Persons may include those served who may not see a posted notice because the posted notice is not in a location they routinely pass by. Other methods may include: publication in a local newspaper or newsletter distributed to customers; use of E-mail to notify employees or students; or, delivery of multiple copies in central locations, e.g., community centers.

NR 809.953 Tier 3 Public Notice—Form, manner, and frequency of notice. (1) VIOLATIONS OR SITUATIONS WHICH REQUIRE A TIER 3 PUBLIC NOTICE. (a) Paragraph (b) lists the violation categories and other situations requiring a Tier 3 public notice. Appendix A identifies the tier assignment for each specific violation or situation.

- (b) Violation categories and other situations requiring a Tier 3 public notice:
- 1. Monitoring violations under ch. NR 809, except where a Tier 1 notice is required under s. NR 809.951(1) or where the department determines that a Tier 2 notice is required.
- 2. Failure to comply with a testing procedure established in ch. NR 809, except where a Tier 1 notice is required under s. NR 809.951(1) or where the department determines that a Tier 2 notice is required.
- 3. Operation under a variance granted under s. 1415 or an exemption granted under s. 1416 of the safe drinking water act.
 - 4. Availability of unregulated contaminant monitoring results, as required under s. NR 809.956.
- 5. Exceedance of the fluoride secondary maximum contaminant level (SMCL), as required under s. NR 809.957.
- (2) WHEN TIER 3 PUBLIC NOTICE TO BE PROVIDED. (a) Public water systems shall provide the public notice not later than one year after the public water system learns of the violation or situation or begins operating under a variance or exemption. Following the initial notice, the public water system shall repeat the notice annually for as long as the violation, variance, exemption, or other situation persists. If the public notice is posted, the notice shall remain in place for as long as the violation, variance, exemption, or other situation persists, but in no case less than 7 days, even if the violation or situation is resolved.
- (b) Instead of individual Tier 3 public notices, a public water system may use an annual report detailing all violations and situations that occurred during the previous 12 months, as long as the timing requirements of par. (a) are met.
- (3) FORM AND MANNER OF THE TIER 3 PUBLIC NOTICE. Public water systems shall provide the initial notice and any repeat notices in a form and manner that is reasonably calculated to reach persons served in the required time period. The form and manner of the public notice may vary based on the specific situation and type of water system, but it shall at a minimum meet the following requirements:
- (a) Unless directed otherwise by the department in writing, community water systems shall provide notice by both:
- 1. Mail or other direct delivery to each customer receiving a bill and to other service connections to which water is delivered by the public water system.

2. Any other method reasonably calculated to reach other persons regularly served by the system, if they would not normally be reached by the notice required in subd. 1. Persons may include those who do not pay water bills or do not have service connection addresses, e.g., house renters, apartment dwellers, university students, nursing home patients, prison inmates, etc. Other methods may include: publication in a local newspaper; delivery of multiple copies for distribution by customers that provide their drinking water to others, e.g., apartment building owners or large private employers; posting in public places or on the internet; or delivery to community organizations.

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- (b) Unless directed otherwise by the department in writing, non-community water systems shall provide notice by both of the following:
- 1. Posting the notice in conspicuous locations throughout the distribution system frequented by persons served by the system, or by mail or direct delivery to each customer and service connection, where known.
- 2. Any other method reasonably calculated to reach other persons served by the system, if they would not normally be reached by the notice required in subd. 1. Such persons may include those who may not see a posted notice because the notice is not in a location they routinely pass by. Other methods may include: publication in a local newspaper or newsletter distributed to customers; use of E-mail to notify employees or students; or, delivery of multiple copies in central locations, e.g., community centers.
- (4) SITUATIONS IN WHICH THE CONSUMER CONFIDENCE REPORT MAY BE USED TO MEET THE TIER 3 PUBLIC NOTICE REQUIREMENTS. For community water systems, the consumer confidence report (CCR) required under subch. IX may be used as a vehicle for the initial Tier 3 public notice and all required repeat notices, as long as:
- (a) The CCR is provided to persons served no later than 12 months after the system learns of the violation or situation as required under s. NR 809.953(2).
 - (b) The Tier 3 notice contained in the CCR follows the content requirements under s. NR 809.954.
 - (c) The CCR is distributed following the delivery requirements under s, NR 809.953(3).

NR 809.954 Content of the public notice. (1) ELEMENTS TO BE INCLUDED IN THE PUBLIC NOTICE FOR VIOLATIONS OF NATIONAL PRIMARY DRINKING WATER REGULATIONS (NPDWR) OR OTHER SITUATIONS REQUIRING A PUBLIC NOTICE. When a public water system violates a NPDWR or has a situation requiring public notification, each public notice shall include all of the following elements:

- (a) A description of the violation or situation, including the contaminants of concern, and, as applicable, the contaminant levels.
 - (b) When the violation or situation occurred.
- (c) Any potential adverse health effects from the violation or situation, including the standard language under sub. (4)(a) or (b), whichever is applicable.
- (d) The population at risk, including subpopulations particularly vulnerable if exposed to the contaminant in their drinking water.
 - (e) Whether alternative water supplies should be used.
 - (f) What actions consumers should take, including when they should seek medical help, if known.
 - (g) What the system is doing to correct the violation or situation.

- (h) When the water system expects to return to compliance or resolve the situation.
- (i) The name, business address, and phone number of the water system owner, operator, or designee of the public water system as a source of additional information concerning the notice.
- (j) A statement to encourage the notice recipient to distribute the public notice to other persons served, using the standard language under sub. (4)(c), where applicable.
- (2) ELEMENTS INCLUDED IN THE PUBLIC NOTICE FOR PUBLIC WATER SYSTEMS OPERATING UNDER A VARIANCE OR EXEMPTION. (a) If a public water system has been granted a variance or an exemption, the public notice shall contain all of the following:
 - 1. An explanation of the reasons for the variance or exemption.
 - 2. The date on which the variance or exemption was issued.
- 3. A brief status report on the steps the system is taking to install treatment, find alternative sources of water, or otherwise comply with the terms and schedules of the variance or exemption.
 - 4. A notice of any opportunity for public input in the review of the variance or exemption.
- (b) If a public water system violates the conditions of a variance or exemption, the public notice shall contain the 10 elements listed in sub. (1).
- (3) HOW PUBLIC NOTICE IS TO BE PRESENTED. (a) Each public notice required by this section:
 - 1. Shall be displayed in a conspicuous way when printed or posted.
 - 2. May not contain overly technical language or very small print.
 - 3. May not be formatted in a way that defeats the purpose of the notice.
 - 4. May not contain language which nullifies the purpose of the notice.
- (b) Each public notice required by this section shall comply with multilingual requirements, as follows:
- 1. For public water systems where 5% or more of the population served consists of non-English speaking consumers, the public notice shall contain information in the appropriate languages regarding the importance of the notice or contain a telephone number or address where persons served may contact the water system to obtain a translated copy of the notice or to request assistance in the appropriate languages.
- 2. In cases where the public water system is unable to accurately determine whether non-English speaking consumers constitute 5% of the population served, the department may require inclusion in the public notice the same information as in sub (3)(b)1., to reach non-English speaking persons served by the water system.
- (4) STANDARD LANGUAGE PUBLIC WATER SYSTEMS TO INCLUDE IN THEIR PUBLIC NOTICE. Public water systems are required to include the following standard language in their public notice:
- (a) Standard health effects language for MCL or MRDL violations, treatment technique violations, and violations of the condition of a variance or exemption. Public water systems shall include in each public notice the health effects language specified in Appendix B corresponding to each MCL, MRDL and

treatment technique violation listed in Appendix A, and for each violation of a condition of a variance or exemption.

- (b) Standard language for monitoring and testing procedure violations. Public water systems shall include the following language in their notice, including the language necessary to fill in the blanks, for all monitoring and testing procedure violations listed in Appendix A: We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During [compliance period], we "did not monitor or test" or "did not complete all monitoring or testing" for [contaminant(s)], and therefore cannot be sure of the quality of your drinking water during that time.
- (c) Standard language to encourage the distribution of the public notice to all persons served. Public water systems shall include in their notice the following language, where applicable: Please share this information with all the other people who drink this water, especially those who may not have received this notice directly, for example, people in apartments, nursing homes, schools, and businesses. You can do this by posting this notice in a public place or distributing copies by hand or mail.

NR 809.955 Notice to new billing units or new customers. (1) REQUIREMENT FOR COMMUNITY WATER SYSTEMS. Community water systems shall give a copy of the most recent public notice for any continuing violation, the existence of a variance or exemption, or other ongoing situations requiring a public notice to all new billing units or new customers prior to or at the time service begins.

(2) REQUIREMENT FOR NON-COMMUNITY WATER SYSTEMS. Non-community water systems shall continuously post the public notice in conspicuous locations in order to inform new consumers of any continuing violation, variance or exemption, or other situation requiring a public notice for as long as the violation, variance, exemption, or other situation persists.

NR 809.956 Special notice of the availability of unregulated contaminant monitoring results. (a) WHEN SPECIAL NOTICE IS TO BE GIVEN. The owner or operator of a community water system or non-transient non-community water system required to monitor under s. NR 809.26 shall notify persons served by the system of the availability of the results of such sampling no later than 12 months after the monitoring results are known.

(b) FORM AND MANNER OF THE SPECIAL NOTICE. The form and manner of the public notice shall follow the requirements for a Tier 3 public notice prescribed in s. NR 809.953(3), (4)(a) and (c). The notice shall also identify a person and provide the telephone number to contact for information on the monitoring results.

NR 809.957 Special notice for exceedance of the SMCL for fluoride. (1) WHEN SPECIAL NOTICE IS TO BE GIVEN. Community water systems that exceed the fluoride secondary maximum contaminant level (SMCL) of 2 mg/l as specified in s. NR 809.05, determined by the last single sample taken in accordance with s. NR 809.12, but do not exceed the maximum contaminant level (MCL) of 4 mg/l for fluoride, as specified in s. NR 809.11, shall provide the public notice in sub. (3) to persons served. Public notice shall be provided as soon as practical but no later than 12 months from the day the water system learns of the exceedance. A copy of the notice shall also be sent to all new billing units and new customers at the time service begins and to the state public health officer. The public water system shall repeat the notice at least annually for as long as the SMCL is exceeded. If the public notice is posted, the notice shall remain in place for as long as the SMCL is exceeded, but in no case less than 7 days, even if the exceedance is eliminated. On a case-by-case basis, the department may require an initial notice sooner than 12 months and repeat notices more frequently than annually.

(2) FORM AND MANNER OF THE SPECIAL NOTICE. The form and manner of the public notice, including repeat notices, shall follow the requirements for a Tier 3 public notice in s. NR 809.953(3), (4)(a) and (c).

(3) MANDATORY LANGUAGE TO BE CONTAINED IN THE SPECIAL NOTICE. The notice shall contain the following language, including the language necessary to fill in the blanks: This is an alert about your drinking water and a cosmetic dental problem that might affect children under 9 years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/l) of fluoride may develop cosmetic discoloration of their permanent teeth known as dental fluorosis. The drinking water provided by your community water system [name] has a fluoride concentration of [insert value] mg/l. Dental fluorosis, in its moderate or severe forms, may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under 9 should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoridecontaining products. Older children and adults may safely drink the water. Drinking water containing more than 4 mg/L of fluoride, the U.S. Environmental Protection Agency's drinking water standard, can increase your risk of developing bone disease. Your drinking water does not contain more than 4 mg/l of fluoride, but we're required to notify you when we discover that the fluoride levels in your drinking water exceed 2 mg/l because of this cosmetic dental problem. For more information, please call [name of water system contact] of [name of community water system] at [phone number]. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-877-8-NSF-HELP.

NR 809.958 Special notice for nitrate exceedances above MCL by non-community water systems (NCWS), where granted permission by the department under s. NR 809.11(3). (1) WHEN SPECIAL NOTICE TO BE GIVEN. The owner or operator of a non-community water system granted permission by the department under s. NR 809.11(3) to exceed the nitrate MCL shall provide notice to persons served according to the requirements for a Tier 1 notice under s. NR 809.951(1) and (2).

(2) FORM AND MANNER OF THE SPECIAL NOTICE. Non-community water systems granted permission by the department to exceed the nitrate MCL under s. NR 809.11(3) shall provide continuous posting of the fact that nitrate levels exceed 10 mg/l and the potential health effects of exposure, according to the requirements for Tier 1 notice delivery under s. NR 809.951(3) and the content requirements under s. NR 809.954.

NR 809.959 Notice by the department on behalf of the public water system. (1) DEPARTMENT MAY GIVE NOTICE ON BEHALF OF THE PUBLIC WATER SYSTEM. The department may give the notice required by this subpart on behalf of the owner and operator of the public water system if the department complies with the requirements of this subchapter.

(2) RESPONSIBILITY OF THE PUBLIC WATER SYSTEM WHEN NOTICE IS GIVEN BY THE DEPARTMENT. The owner or operator of the public water system remains responsible for ensuring that the requirements of this subchapter are met.

SECTION 18. NR 809 Appendix A to subch. IX is created to read:

Appendix A to Subchapter IX of ch. NR 809 – NPDWR VIOLATIONS AND OTHER SITUATIONS REQUIRING PUBLIC NOTICE $^{\rm I}$

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the bedret a contaminant to be because a substitution of the second section of the section of the second section of the section of the second section of the section	notice	Citation	Tier of public notice required	Citation
I. Violations of National Primary Drinking Water Regulations (NPDWR): ³	e en europea de la composição de la comp			
A. Microbiological Contaminants	DW DATY H	2000年1月2日		
Total coliform Fecal coliform/E. coli Turbidity MCLK	2. 1	809.30(1) 809.30(2) 809.40(1)	2001 (1 .30) 41,3 ₁	809.31(1)-(4) 809.31(4) 809.41
4. Turbidity MCL (average 2 days' samples >5	⁵ 2, 1	809.40(2)	3	809.4

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NTU) 5. Turbidity (for TT violations	rocultina from a		⁶ 2, 1	809.755(1)(b),	3	809.78(2)(a),
single exceedance of maxim			2, 1	809.755(3)(b)1.,	1 11791.4	809.78(2)(a), 809.78(1)(b),
turbidity level)	iuiii aiiowabic			809.76(1)(b),		809.76(1)(0),
tarouty icvery				809.76(1)(b), 809.76(3)(b),		009.70
4 U 4 C 0 0 C C C C C C C C C C C C C C C C				809.76(3)(b), 809.76(4)(b),	yč. 13 1.702	ors/Howards 1
and the second				809.76(5),	1 1 1 1 1 1	resolution and the A
- 744 9 988				809.76(1)(b),	654 C 10 C C	and the second
				809.76(5)		Vite Carachesto
6. Surface Water Treatement F	Pule violations		2	809.75 – 809.77	3	809.78
other than violations resulting			2	607.73 - 607.77	Levie o	609.76
exceedance of max. allowab					4,785	nager salasifi nas
(TT)	ic tarbianty icver					reitte sinn vie
7. Interim Enhanced Surface V	Vater Treatment		2	NR 809 subch. V	990 1 61 13 0	809.77, 809.76
Rule violations, other than v			_			phi saitu / TX
resulting from single exceed						over seed 198
turbidity level (TT)					POST BURN	AND STREET
B. Inorganic Chemicals (IOCs)						
1. Antimony			2	809.11(2)	3	809.12(intro.),
, A. 65 (98)		1	_	1 448	in a servició e	809.12(3)
2. Arsenic			2	809.11(2)(a),	3	809.12(intro.),
			-	809.80,	3,498	809.12(11),
				809 subch, IX	14/03/67	809.08,
				(ne frant	subch. IX
3. Asbestos (fibers >10 μm)			2	809.11(2)	37	809.12(intro.),
		1			nakon ora	809.12(3)
4. Barium			2	809.11(2)	3	809.12(intro.),
				()	1321.513	809.12(3)
5. Beryllium	15/4(16)8		2	809.11(2)	3 6	809.12(intro.),
						809.12(3)
6. Cadmium			2	809.11(2)	3	809.12(intro.),
						809.12(3)
7. Chromium (total)	A ANTO TO SERVICE AND A SERVIC		2	809.11(2)	3	809.12(intro.),
					18 1 S 1 1 1	809.12(3)
8. Cyanide			2	809.11(2)	3	809.12(intro.),
					77,51.8	809.12(3)
9. Fluoride			2	809.11(2)	3	809.12(intro.),
						809.12(3)
Mercury (inorganic)			1	809.11(2)	3	809.12(intro.),
			1.454		V 81 2	809.12(3)
11. Nitrate			1	809.11(2)	⁸ 1,3	809.12(intro.),
	1.4690.4				10 mg 47 %	809.12(4),
					• -	809.12(6)(b)
12. Nitrite			1	809.11(2)	. 5 - 5 - 5 - 5 81, 23 - 5	809.12(intro.),
					1, 100	809.12(5),
10 m 12m				Sayah a s	[4] S	809.12(6)(b)
13. Total Nitrate and Nitrite			2	809.11(2)	79 m i ma - /3	809.12(intro.)
14. Selenium			2	809.11(2)	3	809.12(intro.),
16 77 11				000 1100	44 AN TO SERVE A TO SE	809.12(3)
15. Thallium			2	809.11(2)	3	809.12(intro.),
C. L. d. C. D. L. (L. C. Y.	1011			a (Not stage)		809.12(3)
C. Lead and Copper Rule (Action La		,				ar and grade
0.015 mg/L, copper is 1.3 m			_	000 541 000 55	•	· ·
1. Lead and Copper Rule (TT)			2	809.541 – 809.55	3	809.541-809.55
D. Synthetic Organic Chemicals (SC	(Cs)			000 00/11		2000 01/1
1. 2,4-D			2	809.20(1)	3	809.21(1)
2. 2,4,5-TP (Silvex)			2	809.20(1)	3	809.21(1)
3. Alachlor			2	809.20(1)	3	809.21(1)
4. Atrazine			2	809.20(1)	3	809.21(1)
5. Benzo(a)pyrene (PAHs)			2	809.20(1)	3	809.21(1)
6. Carbofuran7. Chlordane			2	809.20(1)	3	809.21(1)
			2	809.20(1)	3 3	809.21(1)
8. Dalapon 9. Di (2-ethylhexyl)adipate			2	809.20(1)		809.21(1)
10. Di (2-ethylhexyl) adipate			2 2	809.20(1) 809.20(1)	3	809.21(1)
11. Dibromochloropropane	2 M 1 T		2 2	809.20(1)	3	809.21(1) 809.21(1)
12. Dinoseb			2 2	809.20(1)	3	809.21(1) 809.21(1)
13. Dioxin (2, 3, 7, 8-TCDD)			2	809.20(1)	3	809.21(1)
		l	- 1			
[4.])iguat		l	2 1	200 20/17	1	
14. Diquat 15. Endothall			2 2	809.20(1) 809.20(1)	3	809.21(1) 809.21(1)

11. Development of monitoring plan	N/A	N/A] 3	809.565(8)
H. Other Treatement Techniques	and the second section of			1
1. Acrylamide (TT)	2	809.26(5)	N/A	N/A
Epichlorohydrin (TT)	2	809.26(5)	N/A	N/A
II. Unregulated Contaminant Monitoring:13				3.000 3.000
A. Unregulated contaminants	N/A	N/A	3	809.74
B. Nickel	N/A	N/A	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	809.12(4)(c),
	First Lauthor Date in	ann Care, Mass, at 11 feg	. 14 per - 19 57 pe	809.735(1)
	VILA BE RESOURCE		a se industrialist	Table A
III. Public Notification for Vacancies and				1401011
Exemption:	ovavno noviz voli j	SOL - CAMAGEMENT	ra resignir i i i i i i i i i	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Operation under a variance or exception	- 3	¹⁴ 1415, 1416	N/A	N/A
B. Violation of conditions of a variance or exemption	2	1415, 1416,	N/A	N/A
TEMENTS	ek missona at A	15§142.307		
IV. Other Situations Requiring Public		•		
Notification:	Activities Assist	OR BU ASIA NA		Material A
A. Fluoride secondary maximum contaminant level (SMCL) exceedance	3	809.60	N/A	N/A
B. Exceedance of nitrate MCL for non-community	1	809.11(3)	N/A	N/A
systems, as allowed by the department				Page 17 Vist
C. Availability of unregulted contaminant monitoring	3	809.26	N/A	N/A
data				anti paneri dila?
D. Waterborne disease outbreak	1	809.04,	N/A	N/A
		809.755(3)(b)2.		****
E. Other waterborne emergency ¹⁶	1	N/A	N/A	N/A
F. Other situations as determined by the department	¹⁷ 1, 2, 3	N/A	N/A	N/A

Appendix A Footnotes

- 1. Violations and other situations not listed in this table, e.g., reporting violations and failure to prepare Consumer Confidence Reports, do not require notice, unless otherwise determined by the department. Departments may, at their option, also require a more stringent public notice tier, e.g., Tier 1 instead of Tier 2 or Tier 2 instead of Tier 3, for specific violations and situations listed in this Appendix, as authorized under §141.202(a) and
 - 2. MCL--Maximum contaminant level, MRDL—Maximum residual disinfectant level, TT—Treatment technique.
- The term Violations of National Primary Drinking Water Regulations (NPDWR) is used here to include violations of MCL, MRDL, TT, monitoring and testing procedure requirements.
- 4. Failure to test for fecal cofform or E. coli is a Tier 1 violation if testing is not done after any repeat sample tests positive for coliform. All other total coliform monitoring and testing procedure violations are Tier 3.
- 5. Systems that violate the turbidity MCL of 5 NTU based on an average of measurements over 2 consecutive days shall consult with the department within 24 hours after learning of the violation. Based on this consultation, the department may subsequently decide to elevate the violation to Tier 1. If a system is unable to make contact with the department in the 24-hour period, the violation is automatically elevated to Tier 1.
- 6. Systems with treatment technique violation involving a single exceedance of a maximum turbidity limit under the Surface Water Treatment Rule (SWTR) or the Interim Enhanced Surface Water Treatment Rule (IESWTR) are required to consult with the department within 24 hours after learning of the violation. Based on this consultation, the department may subsequently decide to elevate the violation to Tier 1. If a system is unable to make contact with the department in the 24-hour period, the violation is automatically elevated to Tier 1.
- 7. Most of the requirements of the Interim Enhanced Surface Water Treatment Rule (63 FR 69477) become effective January 1, 2002 for systems using surface water or ground water under the direct influence of surface water serving at least 10,000 persons. However, NR 809.77 has some requirements that become effective as early as April 16, 1999. The Surface Water Treatment Rule remains in effect for systems serving at least 10,000 persons even after 2002; the Interim Enhanced Surface Water Treatment Rule adds additional requirements and does not in many cases supersede the SWTR.
- 8. Failure to take a confirmation sample within 24 hours for nitrate or nitrite after an initial sample exceeds the MCL is a Tier 1 violation. Other monitoring violations for nitrate are Tier 3.
- 9. Water systems using surface water or ground water under the direct influence of surface water community and non-transient non-community systems serving greater that or equal to 10,000 must comply with the new DBP MCLs, disinfectant MRDLs, and related monitoring requirements beginning January 1, 2002. All other community and non-transient non-community systems must meet the MCLs and MRDLs beginning January 1, 2004. Water systems using surface water or ground water under the direct influence of surface water transient non-community systems serving 10,000 or more persons and using chlorine dioxide as a disinfectant or oxidant must comply with the chlorine dioxide MRDL beginning January 1, 2002. Water systems using surface water or ground water under the direct influence of surface water transient non-community systems serving fewer than 10,000 persons and using only ground water not under the direct influence of surface water and using chlorine dioxide as a disinfectant or oxidant must comply with the chlorine dioxide MRDL beginning January 1, 2004.
 - 10. NR 809.22 will no longer apply after January 1, 2004.
- 11. Failure to monitor for chlorine dioxide at the entrance to the distribution system the day after exceeding the MRDL at the entrance to the distribution system is a Tier 2 violation.
- 12. If any daily sample taken at the entrance to the distribution system exceeds the MRDL for chlorine dioxide and one or more samples taken in the distribution system the next day exceed the MRDL, Tier 1 notification is required. Failure to take the required samples in the distribution system after the MRDL is exceeded at the entry point also triggers Tier 1 notification.
 - 13. Some water systems must monitor for certain unregulated contaminants listed in NR 809.26.

- 14. This citation refers to §§ 1415 and 1416 of the Safe Drinking Water Act. §§ 1415 and 1416 require that "a schedule prescribed...for a public water system granted a variance [or exemption] shall require compliance by the system..."
- 15. In addition to § 1415 and 1416 of the Safe Drinking Water Act, 40 CFR §142.307 specifies the items and schedule milestones that must be included in a variance for small systems.
- 16. Other waterborne emergencies require a Tier 1 public notice under §141.202(a) for situations that do not meet the definition of a waterborne disease outbreak given in 40 CFR 141.2 but that still have the potential to have serious adverse effects on health as a result of short-term exposure. These could include outbreaks not related to treatment deficiencies, as well as situations that have the potential to cause outbreaks, such as failure or significant interruption in water treatment processes, natural disasters that disrupt the water supply, chemical spills, or unexpected loading of possible pathogens into the source water.

17. The department may place other situations in any Tier they believe appropriate, based on threat to public safety.

SECTION 19. NR 809 Appendix B to Subch. IX is created to read:

Appendix B to Subch. IX of ch. NR 809 – STANDARD HEALTH EFFECTS LANGUAGE FOR PUBLIC NOTIFICATION

Contaminant	MCGL ¹ mg/L	MCL ² mg/L	Standard health effects language for public notification
National Primary Drinking Water	192		
Regulations (NPDWR):	No. 14/(13)	100	
	, tyski to		
A. Microbiologocial Contaminants:	ASS.		
	-	G	
la. Total coliform	Zero	See footnote ³	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other
		er aves evases i ju	potentially-harmful, bacteria may be present
	and a suppose to the	Service and the service	Coliforms were found in more samples than allowed
	a decident	8. 7 1 3. Alan 11	and this was a warning of potential problems.
1b. Fecal coliform/E. coli	Zero	Zero	Fecal coliforms and E. coli are bacteria whose
		e ye kujiyasiya	presence indicate that the water may be contaminated
	e un en julio	an see god a f	with human or animal wastes. Microbes in these wastes can cause short-term effects, such as diarrhea
*	of the answer to	yare Tabarumbile	cramps, nausea, headaches, or other symptoms. The
	and the provinces	2,312	may pose a special health risk for infants, youn
			children, some of the elderly, and people with severel
for any emile explored the second to the		1785 V 1. 184 V V V	compromised immune systems.
2a. Turbidity (MCL) ⁴	None	1 NTU ⁵ /5	Turbidity has no health effects. However, turbidit
	1,191.0	NTU	can interfere with disinfection and provide a medium
		1,10	for microbial growth. Turbidity may indicate th
	A ALE TO SEE THE	Educated to September	presence of disease-causing organisms. Thes
		garanii ma Vin	organisms include bacteria, viruses, and parasites that
	date is host.	agivo e próblem en	
		1980 - Dec 1986	can cause symptoms such as nausea, cramps, diarrhe
of m 1:1: correspond	1,,	mm7	and associated headaches.
2b. Turbidity (SWTR TT) ⁶	None	TT ⁷	Turbidity has no health effects. However, turbidit
	n en en en en en en	Survive Year Lub (44)	can interfere with disinfection and provide a mediur
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	it jaka se me	for microbial growth. Turbidity may indicate the
e de la companya del companya de la companya del companya de la co	1.	r Dag one e	presence of disease-causing organisms. Thes
		14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	organisms include bacteria, viruses, and parasites tha
		Landa de Sala	can cause symptoms such as nausea, cramps, diarrhe
			and associated headaches.
2c. Turbidity (IESWTR TT) ⁸	None	TT	Turbidity has no health effects. However, turbidit
		- 20 cm	can interfere with disinfection and provide a mediur
	1		for microbial growth. Turbidity may indicate th
and the state of t	3		presence of disease-causing organisms. Thes
			organisms include bacteria, viruses, and parasites that
	1		can cause symptoms such as nausea, cramps, diarrhe
			and associated headaches.
B. Surface Water Treatment Rule		100	production of the convergence of
(SWTR) and Interim Enhanced	STAGE NOTES	15.	The state of the s
Surface Water Treatment Rule			
(IESWTR) violations:			The second of th
	and the second	Amir Mir	Application (Application) Application (Applic
3. Gardia lamblia	Zero	TT°	Inadequately treated water may contain disease
(SWTR/IESWTR)		107 10	causing organisms. These organisms include bacteria
	1		viruses, and parasites which can cause symptoms such
			as nausea, cramps, diarrhea, and associated headaches.
4. Viruses (SWTR/IESWTR)	Terriga A 15	pineux e ium	as mausca, cramps, charmea, and associated headacties.
T. VIIUSCS (SWINTESWIN)		1	

 5. Heterotrophic plate count (HPC) bacteria (SWTR/IESWTR) 6. Legionella (SWTR/IESWTR) 	ağı olu kası enesi	
7. Cryptosporidium (IESWTR)	sa en lega kanjang dag Kalagang dengahan	10004
C. Inorganic Chemicals (IOCs):		1
8. Antimony make the control of the	0.006	
	y yazır save Se sasar sayı	avravi i meda
10. Asbestos (10 μm)	7 MFL ¹¹	7 MFL
	2	2
	A Rose October	¢li
12. Beryllium	0.004	0.004
13. Cadmium	0.005	1
No respect to the second of the second second	Taki wat he	a su es
14. Chromium (total)	i.	
	der eignen som	
15 Cyanide (1885) 15 15 15 15 15 15 15 15 15 15 15 15 15	0.2 å	
	itiiti pydaulaav	production of
16. Fluoride on the second state of the second	4.0	4.0
eus (n. germana), il condi- elema cadro processored (1944)	, a	•
17 Mercury (inorganic)	0.002	0.002
18. Nitrate	distrigues anstrain	10
ita est gantasti es la les Assets is Lenga - 80 petr - especies in Soci	ilian Program desc Austrolian des	
19: Nitrite de la	1	1
	fwr est g	
	re vyži, stakkatac	
20. Total Nitrate and Nitrite		10
	Çev belyeki Vet	
21. Selenium (1995) 2778 December 1996		0.05
「「「「」」「「」「」「」「」「」「」「」「」「」「」「」「」「」「」「」「	1	
graph of a March 1997 of the second	to apposite to Absorbe averse	
	0.0005	0.002
y 1948 on a line to game boar and	asili wasanaan	
·	•	

Some people who drink water containing antimony well in excess of the MCL over many years could experience increases in blood cholesterol and decreases in blood sugar.

Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer.

Some people who drink water containing asbestos in excess of the MCL over many years may have an increased risk of developing benign intestinal polyps.

Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.

Some people who drink water containing beryllium well in excess of the MCL over many years could develop intestinal lesions.

Some people who drink water containing cadmium in excess of the MCL over many years could experience kidney damage.

Some people who use water containing chromium well in excess of the MCL over many years could experience allergic dermatitis.

Some people who drink water containing cyanide well in excess of the MCL over many years could experience nerve damage of problems with their thyroid.

Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Fluoride in drinking water at half the MCL or more may cause mottling of children's teeth, usually in children less than 9 years old. Mottling, also known as dental fluorosis, may include brown staining and/or pitting of the teeth, and occurs only in developing teeth before they erupt from the gums.

Some people who drink water containing mercury well in excess of the MCL over many years could experience kidney damage.

Infants below the age of 6 months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.

Infants below the age of 6 months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.

Infants below the age of 6 months who drink water containing nitrate and nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue baby syndrome.

Selenium is an essential nutrient. However, some people who drink water containing selenium in excess of the MCL over many years could experience hair or fingernail loss, changes in their blood, or problems with their kidneys, intestines, or liver.

Some people who drink water containing thallium in excess of the MCl over many years could experience hair loss, changes in their blood, or problems with their kidneys, intestines, or liver.

D. Lead and Copper Rule:		adjustments 1/15
23. Lead	Zero	TT ¹²
		\$ \$ 1
,		
24. Copper	1.3	TT13
A SECTION OF THE CONTRACT OF THE SECTION OF THE SEC		
A Company of the Comp		86 ns.
i in the market of the special and the special of t	100 min 100 M	Yorka -
	iera (komb	
I F C 41 4 O C C C		
25, 2,4-D	0.07	0.07
Transfer and Property and Albert Section (1998)		1880 - Se
The state of the s	filiado e sacres Mar elegidado de	
26. 2,4,5-TP (Silvex)	0.05	0.05
	Projection and cold and the second cold	
27. Alachlor	Zero	0.002
The sign of the state of the st		
Address Agrang Armen and Artifact		West 1
28. Atrazine	0.003	0.003
Taligado proper vision a di Caler M	a ya kasasa ng	1818/7
29. Benzo(a)pyrene (PAHs)	Zero	0.0002
्राकृत अवस्थितकार्वकी पुरस्कार सामानामा अस्तर । जनगणना		
20 Corbofinan	a Marini dras Basa Meninas	- ANNA
30. Carbofuran	0.04	0.04
31. Chlordane	Zero	0.002
	estra en endisj	April 1
and the second s		
32. Dalapon	0.2	0.2
Tanahan seriah bahan salah dibinangan Tanah bahasah bahasan salah seriah bahasan seri		
33. Di (2-ethylhexyl) adipate	0.4	0.4
	ি কাল্ডির পার্চ করি। ১৯০	
34. Di (2-ethylhexul) phthalate	Zero	0.006
1 1.15. A. 精神疾病 1 1.15 1.15 1.15 1.15 1.15 1.15 1.15 1	na lega made als	
Mark Williams of the Control of the		
ACCURATE SECTION OF THE SECTION OF T	o <u>z</u> ou u silodi	0.0002
35. Dibromochloropropane (DBCP)	Zero	0.0002
Legislacia consistenti il marki seri	and the second	×
36. Dinoseb	0.007	0.007
Tagespainings	a 1845 (SS).	1465 E
37. Dioxin (2,3,7,8-TCDD)	Zero	3x10 ⁻⁸
e provincia de la companio del companio de la companio della compa	THE SECTION SECTION	i ita
2 (1) (1) (1) (2) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		

Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Tillson's Disease should consult their personal doctor.

Some people who drink water containing the weed killer 2,4-D well in excess of the MCL over many years could experience problems with their kidneys, liver, or adrenal glands.

Some people who drink water containing silvex in excess of the MCL over many years could experience liver problems.

Some people who drink water containing alachlor in excess of the MCL over many years could experience problems with their cardiovascular system or reproductive difficulties.

Some people who drink water containing atrazine well in excess of the MCL over many years could experience problems with their cardiovascular system or reproductive difficulties.

Some people who drink water containing benzo(a)pyrene in excess of the MCL over many years may experience reproductive difficulties and may have an increased risk of getting cancer.

Some people who drink water containing carbofuran in excess of the MCL over many years could experience problems with their blood, or nervous or reproductive systems.

Some people who drink water containing chlordane in excess of the MCL over many years could experience problems with their liver or nervous system, and may have an increased risk of getting cancer.

Some people who drink water containing dalapon well in excess of the MCL over many years could experience minor kidney changes.

Some people who drink water containing di (2ethylhexyl) adipate well in excess of the MCL over many years could experience general toxic effects or reproductive difficulties.

Some people who drink water containing di (2ethylhexyl) phthalate in excess of the MCL over many years may have problems with their live, or experience reproductive difficulties, and may have an increase risk of getting cancer.

Some people who drink water containing DBCP in excess of the MCL over many years could experience reproductive difficulties and may have an increased risk of getting cancer.

Some people who drink water containing dinoseb well in excess of the MCL over many years could experience reproductive difficulties.

Some people who drink water containing dioxin in excess of the MCL over many years could experience reproductive difficulties and many have an increased risk of getting cancer.

38. Diquat	0.02	
39. Endothall	0.1	0.1
40. Endrin	0.002	0.002
<u>. Januari ing pakan ang ito na magani</u>	1	0.00005
	1	487 e 7
42. Glyphosate	0.7 _{0.82} 001122	0.7
43. Heptachlor	Zero	0.0004
44. Heptachlor epoxide		de a i
The state of the s	All the group of	
45. Hexachlorobenzene	Zero	0.001
46. Hexachlorocyclo-pentadiene	rištva ir ir ir ir ir	0.05
1	ar sundict	0.0002
48. Methoxychlor	0.04	0.04
49. Oxamyl (Vydate)	0.2	0.2
50. Pentachlorophenol	Zero	0.001
が 機能は、これが終わる。 acceptation and acceptance of processing acceptance of the control of the cont	o je projek 1) s projek 1) s projek	Samong Sir Ameri Sir C
51. Picloram	0.5	0.5
52. Polychlorinated biphenyls (PCBs)	Zero	0.0005
Figure VIII (1900) (1900) (1904) (1900) The Common Common (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900)		
	0.004	0.004
54. Toxaphene	Zero,	1
STEP STORY OF STORY SET		1
55. Benzene		0.005

Some people who drink water containing diquat in excess of the MCL over many years could get cataracts.

Some people who drink water containing endothall in excess of the MCL over many years could experience problems with their stomach or intestine.

Some people who drink water containing endrin in excess of the MCL over many years could experience liver problems.

Some people who drink water containing ethylene dibromide in excess of the MCL over many years could experience problems with their liver, stomach, reproductive system, or kidneys, and may have an increased risk of getting cancer.

Some people who drink water containing glyphosate in excess of the MCL over many years could experience problems with their kidneys or reproductive difficulties.

Some people who drink water containing heptachlor in excess of the MCL over many years could experience liver damage and may have an increased risk of getting cancer.

Some people who drink water containing heptachlor epoxide in excess of the MCL over many years could experience liver damage, and may have an increased risk of getting cancer.

Some people who drink water containing hexachlorobenzene in excess of the MCL over many years could experience problems with their liver or kidneys, or adverse reproductive effects, and may have an increased risk of getting cancer.

Some people who drink water containing hexachlorocyclopentadiene well in excess of the MCL over many years could experience problems with their kidneys or stomach.

Some people who drink water containing lindane in excess of the MCL over many years could experience problems with their kidneys or liver.

Some people who drink water containing methoxychlor in excess, of the MCL over many years could experience reproductive difficulties.

Some people who drink water containing oxamyl in excess of the MCL over many years could experience slight nervous system effects.

Some people who drink water containing pentachlorophenol in excess of the MCL over many years could experience problems with their liver or kidneys, and may have an increased risk of getting cancer.

Some people who drink water containing picloram in excess of the MCL over many years could experience problems with their liver.

Some people who drink water containing PCBs in excess of the MCL over many years could experience changes in their skin, problems with their thymus gland, immune deficiencies, or reproductive or nervous system difficulties, and may have an increased risk of getting cancer.

Some people who drink water containing simazine in excess of the MCL over many years could experience problems with their blood.

Some people who drink water containing toxaphene in excess of the MCL over many years could have problems with their kidneys, liver, or thyroid, and may have an increased risk of getting cancer.

Some people who drink water containing benzene in excess of the MCL over many years could experience

	y jawa dayaan a Nasa adayaa a	18
56. Carbon tetrachloride	Zero	0.005
	1	200 2 - 21
57. Chlorobenzene (monochlorobenzene)	0.1	0.1
58. <i>o</i> -Dichlorobenzene	0.6	0.6
59. <i>p</i> -Dichlorobenzene	0.075	0.075
60. 1,2-Dichloroethane	Zero	0.005
61. 1,1-Dichloroethylene	0.007	0.007
62. cis-1,2-Dichloroethylene	0.07	0.07
63. trans-1,2-Dichloroethylene	0.1	0.1
64. Dichloromethane	a street as A k _e act nowns	0.005
65. 1,2-Dichloropropane	Zero	0.005
66. Ethylbenzene	0.7	0.7
67. Styrene	0.1	0.1
	1 .	
68. Tetrachloroethylene	Zero	0.005
69. Toluene	A Commission A 1 A commission (Assumed	(
70. 1,2,4-Trichlorobenzene		0.07
71: 1,1,1-Trichloroethane	0.2	0.2
72. 1,1,2-Trichloroethane	0.003	0.005
73. Trichloroethylene	Zero	0.005
74. Vinyl chloride	Zero	0.002
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anemia or a decrease in blood platelets, and may have an increased risk of getting cancer.

Some people who drink water containing carbon tetrachloride in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer.

Some people who drink water containing chlorobenzene in excess of the MCL over many years could experience problems with their liver or kidneys.

Some people who drink water containin odichlorobenzene well in excess of the MCL over many years could experience problems with their liver, kidneys, or circulatory systems.

Some people who drink water containing pdichlorobenzene in excess of the MCL over many years could experience anemia, damage to their liver, kidneys, or spleen, or changes in their blood.

Some people who drink water containing 1,2-dichloroethane in excess of the MCL over many years may have an increased risk of getting cancer.

Some people who drink water containing 1,1-dichloroethylene in excess of the MCL over many years could experience problems with their liver.

Some people who drink water containing cis-1,2-dichloroethylene in excess of the MCL over many years could experience problems with their liver.

Some people who drink water containing trans-1,2-dichloroethylene well in excess of the MCL over many years could experience problems with their liver.

Some people who drink water containing dichloromethane in excess of the MCL over many years could have liver problems and may have an increased risk of getting cancer.

Some people who drink water containing 1,2-dichloropropane in excess of the MCL over many years may have an increased risk of getting cancer.

Some people who drink water containing ethylbenzene well in excess of the MCL over many years could experience problems with their liver or kidneys.

Some people who drink water containing styrene well in excess of the MCL over many years could have problems with their liver, kidneys, or circulatory system.

Some people who drink water containing tetrachloroethylene in excess of the MCL over many years could have problems with their liver, and may have an increased risk of getting cancer.

Some people who drink water containing toluene well in excess of the MCL over many years could have problems with their nervous system, kidneys, or liver.

Some people who drink water containing 1,2,4-trichlorobenzene well in excess of the MCL over many years could experience changes in their adrenal glands.

Some people who drink water containing 1,1,1-trichloroethane in excess of the MCL over many years could experience problems with their liver, nervous system, or circulatory system.

Some people who drink water containing 1,1,2-trichloroethane well in excess of the MCL over many years could have problems with their liver, kidneys, or immune systems.

Some people who drink water containing trichloroethylene in excess of the MCL over many years could experience problems with their liver and may have an increased risk of getting cancer.

Some people who drink water containing vinyl chloride in excess of the MCL over many years may have an increased risk of getting cancer.

75. Xylenes (total)		10	Some people who drink water containing xylenes in excess of the MCL over many years could experience
G. Radioactive Contaminants:	osen maši jū Bura minerali	Meni i	damage to their nervous system.
76. Beta/photon emitters	Zero	4 mrem/yr ¹⁴	Certain minerals are radioactive and may emit forms
	Proceduración de la companya de la c	arit Moja	of radiation known as photons and beta radiation.
	e i valakaza ak	aris e	Some people who drink water containing beta and photon emitters in excess of the MCL over many years
	Mensi neurod o	46307	may have an increased risk of getting cancer.
77. Alpha emitters	Zero	15 pCi/L ¹⁵	Certain minerals are radioactive and may emit a
			form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in
Born Trail Government of Barrier Barrier	ers de de		excess of the MCL over many years may have an increased risk getting cancer.
78. Combined radium (226 & 228)	Zero	5 pCi/L	Some people who drink water containing radium 226 and 228 in excess of the MCL over many years may
THE RESERVE OF THE PROPERTY OF	N. 1965	10/40 1 2	have an increased risk of getting cancer.
H. Disinfection Byproducts (DBPs), Byproduct Precursors, and	ay etropa ingan a ayudho i fili	1 (4) 1 (4)	
Disinfectant Residuals: Where	disa na arati jara		
disinfection is used in the	ide umo kera ayya	(47b) 1	L. No.
treatment of drinking water,	area yeza - Ad	akit i	
disinfectants combine with organic			A SECULAR SECU
and inorganic matter present in water to form chemicals called			10 mm 1 m
disinfection byproducts (DBPs).	especial control of the	J. 35	
EPA sets standards for controlling	de rativa	a. S. S.	
the levels of disinfectants and	(1) 有人不要作品(1) (1) (
DBPs in drinking water, including			Section 1 Section 1 Section 1
trihalomethanes (THMs) and haloacetic acids (HAAs):16	State Pile 1 State		
midacetic acius (IIAAS).		19.5	
79. Total trihalomethanes	N/A	0.10/ 0.80 ¹⁷ 18	Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or
eriodore (g. 1904), kom i Sagar er i Valgaria eta 1906. 10. arenda erro - Españo Españo erro erro erro erro erro erro erro er	r togunari (17. es) Romani — Jesta	a na amanda Alber Balandara	central nervous system, and may have an increased risk of getting cancer.
80. Haloacetic Acids (HAA)	N/A	0.06019	Some people who drink water containing haloacetic
			acids in excess of the MCL over many years may have
81 Bromate	7	0.010	increased risk of getting cancer.
or. Diomate	Zero	0.010	Some people who drink water containing bromate in excess of the MCL over many years may have an increased rick of action server.
82. Chlorite	0.08	1.0	increased risk of getting cancer. Some infants and young children who drink water
and the commence of the commen	refered El moderni i ach	uttui vais	containing chlorite in excess of the MCL could
Principal de Santa de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Cara Productivo de Caracteria d	rage 1,4 fan 11 hau. Gâlan Heart yn 14	radora de la començão. Maistradoras	experience nervous system effects. Similar effects may
e graphy on the lead from	weren yara mara Ko√apya ese yokuren	i dan mari da dikerana	occur in fetuses of pregnant women who drink water containing chlorite in excess of the MCL. Some people may experience anemia.
83. Chlorine	44 May 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.0	Some people who use water containing chlorine well
estimate of the first of the fi	(MRDLG) ²⁰	(MRDL) ²¹	in excess of the MRDL could experience irritating
Agency of the support	i gatas y still latine.	gradien in Species Versteren en Species	effects to their eyes and nose. Some people who drink
Table (1997) The Committee of the Commit	er e	n de la compania. Nacionalista de la compania de la c	water containing chlorine well in excess of the MRDL
84. Chloramines	4 (MRDLG)	4.0 (MRDL)	could experience stomach discomfort. Some people who use water containing chloramines
	4 (MKDLG)	38 YES 10 17 Å	well in excess of the MRDL could experience irritating
er og begyde i filletje flikker i lækerere	Maria de Santa de Carlos de Car Carlos de Carlos de Carl	মাজীবাজ (See Free Aven) । ব	effects to their eyes and nose. Some people who drink water containing chlormines well in excess of the
			MRDL could experience stomach discomfort or
general regeneral antiques de la company	leMortaus ylines en el Manageria	and the second of the second of	
ing we will store and the store services and the services	y or Marakita saga	0.0000000000000000000000000000000000000	anemia.
· · · · · · · · · · · · · · · · · · ·		0.8 (MRDL)	anemia. Some infants and young children who drink water containing chlorine dioxide in excess of the MRDL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who
85a. Chlorine dioxide, where any 2 consecutive daily samples taken at the entrance to the distribution system are above the MRDL.	0.8	0.8 (MRDL)	anemia. Some infants and young children who drink water containing chlorine dioxide in excess of the MRDL could experience nervous system effects. Similar
85a. Chlorine dioxide, where any 2 consecutive daily samples taken at the entrance to the distribution	0.8	0.8 (MRDL) 0.8 (MRDL)	anemia. Some infants and young children who drink water containing chlorine dioxide in excess of the MRDL could experience nervous system effects. Similar effects may occur in fetuses of pregnant women who drink water containing chlorine dioxide in excess of the

effects may occur in fetuses of pregnant women who drink water containing chlorine dioxide in excess of the MRDL. Some people may experience anemia. Add for public notification only: The chlorine dioxide violations reported today include exceedances of the EPA standard within the distribution system which delivers water to consumers. Violations of the chlorine dioxide standard within the distribution system may harm human health based on short-term exposures. Certain groups, including fetuses, infants, and young children, may be especially susceptible to nervous system effects from excessive chlorine dioxide exposure. Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THMs) and haloacetic acids (HAAs). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer. 1. Other Treatment Techniques: 87. Acrylamide Zero TT Some people who drink water containing high levels of acrylamide over a long period of time could have problems with their nervous system or blood, and may have an increased risk of getting cancer. Some people who drink water containing high levels of epichlorohydrin over a long period of time could experience stomach problems, and may have an increased risk of getting cancer.	 In the contract of the contract o	42.0	4.	· [4]
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Appendix B Footnotes

- 1. MCLG--Maximum contaminant level goal.
- 2. MCL--Maximum contaminant level.
- 3. For water systems analyzing at least 40 samples per month, no more than 5.0 percent of the monthly samples may be positive for total coliforms. For systems analyzing fewer than 40 samples per month, no more than one sample per month may be positive for total coliforms.
- 4. There are various regulations that set turbidity standards for different types of systems, including 40 CFR 141.13, the 1989 Surface Water Treatment Rule, and the 1998 Interim Enhanced Surface Water Treatment Rule. The MCL for the monthly turbidity average is 1 NTU; the MCL for the 2-day average is 5 NTU for systems that are required to filter but have not yet installed filtration (40 CFR 141.13).
 - 5. NTU-Nephelometric turbidity unit.
- 6. There are various regulations that set turbidity standards for different types of systems, including 40 CFR 141.13, the 1989 Surface Water Treatment Rule (SWTR), and the 1998 Interim Enhanced Surface Water Treatment Rule (IESWTR). Systems subject to the Surface Water Treatment Rule (both filtered and unfiltered) may not exceed 5 NTU. In addition, in filtered systems, 95 percent of samples each month shall not exceed 0.5 NTU in systems using conventional or direct filtration and shall not exceed 1 NTU in systems using slow sand or diatomaceous earth filtration or other filtration technologies approved by the department.
 - 7. TT--Treatment technique.
- 8. There are various regulations that set turbidity standards for different types of systems, including 40 CFR 141.13, the 1989 Surface Water Treatment Rule (SWTR), and the 1998 Interim Enhanced Surface Water Treatment Rule (IESWTR). For systems subject to the IESWTR (systems serving at least 10,000 people, using surface water or ground water under the direct influence of surface water), that use conventional filtration or direct filtration, after January 1, 2002, the turbidity level of a system's combined filter effluent may not exceed 0.3 NTU in at least 95 percent of monthly measurements, and the turbidity level of a system's combined filter effluent shall not exceed 1 NTU at any time. Systems subject to the IESWTR using technologies other than conventional, direct, slow sand, or diatomaceous earth filtration shall meet turbidity limits set by the department.
- 9. SWTR and IESWTR treatment technique violations that involve turbidity exceedances may use the health effects language for turbidity instead.
- 10. The bacteria detected by heterotrophic plate count (HPC) are not necessarily harmful. HPC is simply an alternative method of determining disinfectant residual levels. The number of such bacteria is an indicator of whether there is enough disinfectant in the distribution system.
 - 11. Millions fibers per liter.
 - 12. Action Level = 0.015 mg/L.
 - 13. Action Level = 1.3 mg/L.
 - 14. Millirems per years.
 - 15. Picocuries per liter.
- 16. Surface water systems and ground water systems under the direct influence of surface water are regulated under Subpart H of 40 CFR 141. Community and non-transient non-community systems using ground water under the direct influence of surface water serving 10,000 or more shall comply with DBP MCLs and disinfectant maximum residual disinfectant levels (MRDLs) beginning January 1, 2002. All other community and non-transient noncommunity systems shall meet the MCLs and MRDLs beginning January

1, 2004. Transient non-community systems using ground water under the direct influence of surface water serving 10,000 or more persons and using chlorine dioxide as a disinfectant or oxidant shall comply with the chlorine dioxide MRDL beginning January 1, 2002. Transient non-community systems using ground water under the direct influence of surface water serving fewer than 10,000 persons and systems using only ground water not under the direct influence of surface water and using chlorine dioxide as a disinfectant or oxidant shall comply with the chlorine dioxide MRDL beginning January 1, 2004.

17. The MCL of 0.10 mg/l for TTHMs is in effect until January 1, 2002 for community water systems using ground water under the direct influence of surface water serving 10,000 or more. This MCL is in effect until January 1, 2004 for community water systems with a population of 10,000 or more using only ground water not under the direct influence of surface water. After these deadlines, the MCL will be 0.080 mg/l. On January 1, 2004, all systems serving less than 10,000 will have to comply with the new MCL as well.

18. The MCL for total trihalomethanes is the sum of the concentrations of the individual trihalomethanes.

19. The MCL for haloacetic acids is the sum of the concentrations of the individual haloacetic acids.

20. MRDLG--Maximum residual disinfectant level goal.

21. MRDL--Maximum residual disinfectant level.

SECTION 20. Appendix C to Subch. IX in ch. NR 809 is created to read:

Appendix C to Subchapter IX of Chapter 809--List of Acronyms Used in Public Notification Regulation

CCR Consumer Confidence Report

CWS Community Water System

DBP Disinfection Byproduct

EPA Environmental Protection Agency

HPC Heterotrophic Plate Count

IESWTR Interim Enhanced Surface Water Treatment Rule

IOC Inorganic Chemical

LCR Lead and Copper Rule

MCL Maximum Contaminant Level

MCLG Maximum Contaminant Level Goal

MRDL Maximum Residual Disinfectant Level

MRDLG Maximum Residual Disinfectant Level Goal

NCWS Non-Community Water System

NPDWR National Primary Drinking Water Regulation

NTNCWS Non-Transient Non-Community Water System

NTU Nephelometric Turbidity Unit

OGWDW Office of Ground Water and Drinking Water

OW Office of Water

PN Public Notification

PWS Public Water System

SDWA Safe Drinking Water Act

SMCL Secondary Maximum Contaminant Level

SOC Synthetic Organic Chemical

SWTR Surface Water Treatment Rule

TCR Total Coliform Rule

TT Treatment Technique

TWS Transient Non-Community Water System

VOC Volatile Organic Chemical

SECTION 21. Terminology changes. ss. NR 809.12(6)(b), 809.23(4), 809.30(2), 809.31(7)(a) and (b), 809.41(3), 809.53(1)(c) and (2)(d), 809.562(6) and (7), 809.566(2)(a), (2)(b) and (c), (3)(a)1., (3)(b)1. and 2., and s. NR 809.80(4) are amended by revising "s. NR 809.81" to read "subch. IX" and in 809.541(7) by revising "s. NR 809.81(5)(eu)" to read "subch. IX" and in 811.08(4)(e) by revising "s. NR 809.81(1)(a)3." to read "subch. IX".

The foregoing rules were approved and adopted by the State of Wisconsin Natural Resources

Board on

The rules shall take effect on the first day of the month following publication in the Wisconsin administrative register as provided in 227.22(2)(intro.), Stats.

Dated at Madison, WI

STATE OF WISCONSIN

DEPARTMENT OF NATURAL RESOURCES

By

George E. Meyer, Secretary

(SEAL)