

94, April 11

P182

4

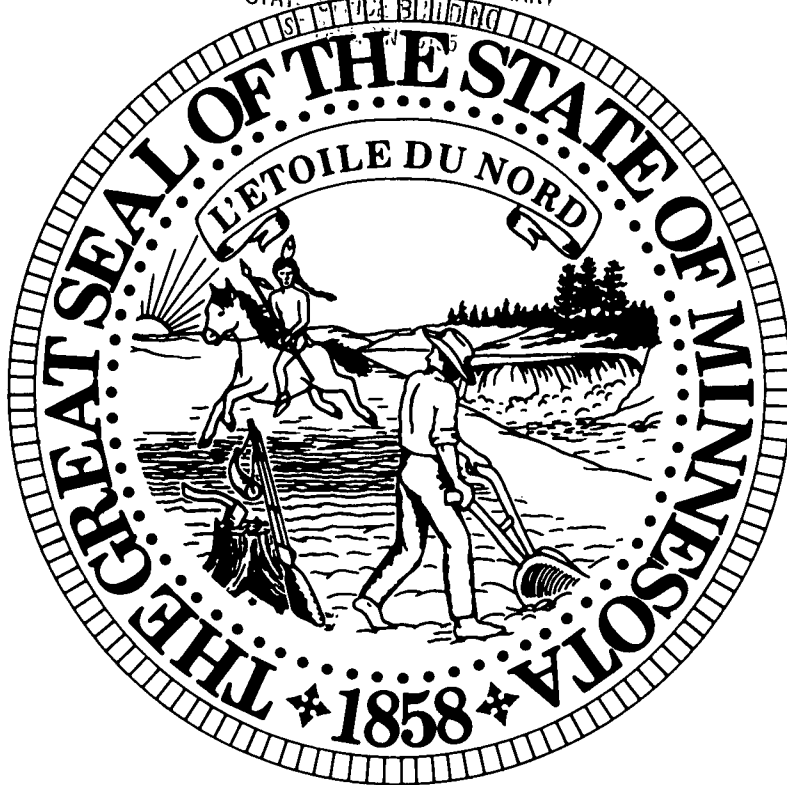
The Minnesota  
**State  
Register**

Department of Administration—Print Communications Division

RECEIVED

APR 08 1994

LEGISLATIVE REFERENCE LIBRARY  
STATE CAPITOL BUILDING



Rules edition  
Published every Monday  
(Tuesday if Monday is a holiday)

Monday 11 April 1994

Volume 18, Number 41

Pages 2189-2232

# State Register

## Judicial Notice Shall Be Taken of Material Published in the *State Register*

The *State Register* is the official publication of the State of Minnesota, containing executive and commissioners' orders, proposed and adopted rules, official and revenue notices, professional-technical-consulting contracts, non-state bids and public contracts and grants.

A *Contracts Supplement* is published Tuesday, Wednesday and Friday and contains bids and proposals for commodities, including printing bids.

### Printing Schedule and Submission Deadlines

Deadline extensions may be possible at the editor's discretion. Requests for deadline extensions should only be made in valid emergency situations. Please call 297-7963 and leave your fax number—you will be faxed a one-page information sheet regarding submissions and a submission calendar.

Vol. 18 Issue Number	PUBLISH DATE	Deadline for both Adopted and Proposed RULES	Deadline for: Emergency Rules, Executive and Commissioner's Orders, Revenue and Official Notices, State Grants, Professional-Technical-Consulting Contracts, Non-State Bids and Public Contracts
41	Monday 11 April	Monday 28 March	Monday 4 April
42	Monday 18 April	Monday 4 April	Monday 11 April
43	Monday 25 April	Monday 11 April	Monday 18 April
44	Monday 2 May	Monday 18 April	Monday 25 April

Arne H. Carlson, Governor

Debra Rae Anderson, Commissioner  
Department of Administration

Kathi Lynch, Director  
Print Communications Division

Robin PanLener, Editor 612/297-7963  
Debbie George, Circulation Manager 612/296-0931

The *State Register* is published by the State of Minnesota, Department of Administration, Print Communications Division, 117 University Avenue, St. Paul MN 55155, pursuant to *Minnesota Statutes* § 14.46.

#### *State Register* and *Contracts Supplement* SUBSCRIPTIONS:

- One year subscription to the *State Register* (published every Monday, or Tuesday if Monday is a holiday) \$150.00
- One year subscription to the *Contracts Supplement* (published every Tuesday, Wednesday, Friday):
  - \$125.00 via first class mail
  - \$140.00 via fax or through our on-Line Service via your computer modem
- For a free sample demo of the On-Line Service call via your modem: 612/821-4096
- Item S: *State Register* Modem parameters 8-N-1 1200/2400
- 13-week trial subscription which includes both the *State Register* and *Contracts Supplement*. \$60.00
- Single issues are available for a limited time: *State Register* \$3.50, *Contracts Supplement* .50

Order by phone: Metro area: 297-3000 Toll free 800-657-3757

Telecommunication Device for the Deaf Metro area: 282-5077 Toll free 800-657-3706

No refunds. By purchasing the On-Line access you are agreeing to not redistribute without authorization.

Both editions are delivered postpaid to points in the United States, second class postage paid for the *State Register* at St. Paul, MN, first class for the *Contracts Supplement*. Publication Number 326630 (ISSN 0146-7751). Subscribers who do not receive a copy of an issue should notify the *State Register* circulation manager immediately at (612) 296-0931. Copies of back issues may not be available more than two weeks after publication.

## FOR LEGISLATIVE NEWS

Publications containing news and information from the Minnesota Senate and House of Representatives are available free to concerned citizens and the news media. To be placed on the mailing list, write or call the offices listed below:

### SENATE

**Briefly-Preview**—Senate news and committee calendar; published weekly during legislative sessions.

**Perspectives**—Publication about the Senate.

**Session Review**—Summarizes actions of the Minnesota Senate.

Contact: Senate Public Information Office  
Room 231 State Capitol, St. Paul, MN 55155  
(612) 296-0504

### HOUSE

**Session Weekly**—House committees, committee assignments of individual representatives; news on committee meetings and action. House action and bill introductions

**This Week**—weekly interim bulletin of the House.

**Session Summary**—Summarizes all bills that both the Minnesota House of Representatives and Minnesota Senate passed during their regular and special sessions.

Contact: House Information Office  
Room 175 State Office Building, St. Paul, MN 55155  
(612) 296-2146

## Minnesota Rules: Amendments & Additions

Issues #40-41 inclusive (issues #1-39 appeared in issue #39).... 2192

### Proposed Rules

#### Housing Finance Agency

Purchase and rehabilitation of refinance and rehabilitation mortgage loans..... 2193

### Adopted Rules

#### Jobs & Training Department

Unemployment compensation; reports; rates..... 2194

#### Nursing Board

Licensure and registration of professional and practical nurses ..... 2195

#### Pollution Control Agency

Pipeline interface material ..... 2195 ✓

Water quality..... 2195 ✓

#### Transportation Department

Limousine service and permit requirements ..... 2220

### Official Notices

#### Agriculture Department

Extension of public comment period for proposed amendments to rules governing poultry and eggs and purified water ..... 2221

Special local need registration for Poleguard ..... 2222

#### Animal Health Board

Meeting April 20..... 2222

Opinion sought for rules on importation of swine, pseudorabies control, pseudorabies requirements for exhibition, sale of swine at markets and other sales, sale of swine at state-federal markets, and sale of swine at public stockyards ..... 2222

#### Ethical Practices Board

Advisory opinion #139: First-time candidate ..... 2223

#### Health Department

Opinion sought on rules for services to clients of intermediate care facilities for persons with mental retardation or related conditions (ICFs/MR) ..... 2223

### Labor & Industry Department

Prevailing wage certifications for commercial construction projects..... 2224

### Pollution Control Agency

Opinion sought for rules for servicing and disposal of appliances and motor vehicle air conditioners ..... 2225 ✓

### Public Employees Retirement Association (PERA)

Meeting of the Board of Trustees ..... 2226

### Professional, Technical & Consulting Contracts

#### Employee Relations Department

Proposals sought for providing administrative services to the State of Minnesota Pre-tax Benefits Plan ..... 2226

#### Iron Range Resources and Rehabilitation Board

Proposals sought for owner's representative for on-site inspection of a major development project ..... 2227

#### Minnesota Racing Commission

Correction to notice of contractual position for state stewards (3)..... 2228

#### State University System

Deadline extended for request for professional auditing services ..... 2229

### Non-State Public Bids and Contracts

#### Metropolitan Council

Proposals sought for functional industry and pressure points analysis for creating/expanding recycled materials markets for four specified commodities: 1) corrugated cardboard and kraft paper; 2) food waste; 3) wood waste; and 4) plastic film..... 2229

### Awards of State Contracts & Advertised Bids

Commodities and requisitions are advertised in the *State Register Contracts Supplement*, published every Tuesday, Wednesday and Friday.

For subscription information call 612/296-0931.

Commodity awards can be obtained from the **Materials Management Helpline** 612/296-2600.

# Minnesota Rules: Amendments and Additions

## NOTICE: How to Follow State Agency Rulemaking in the *State Register*

The *State Register* is the official source, and only complete listing, for all state agency rulemaking in its various stages. State agencies are required to publish notice of their rulemaking action in the *State Register*. Published every Monday, the *State Register* makes it easy to follow and participate in the important rulemaking process. Approximately 75 state agencies have the authority to issue rules. Each agency is assigned specific *Minnesota Rule* chapter numbers. Every odd-numbered year the *Minnesota Rules* are published. This is a ten-volume bound collection of all adopted rules in effect at the time. Supplements are published to update this set of rules. Proposed and adopted emergency rules do not appear in this set because of their short-term nature, but are published in the *State Register*.

If an agency seeks outside opinion before issuing new rules or rule amendments, it must publish a NOTICE OF INTENT TO SOLICIT OUTSIDE OPINION in the *Official Notices* section of the *State Register*. When rules are first drafted, state agencies publish them as **Proposed Rules**, along with a notice of hearing, or notice of intent to adopt rules without a hearing in the case of noncontroversial rules. This notice asks for comment on the rules as proposed. Proposed emergency rules and withdrawn proposed rules are also published in the *State Register*. After proposed rules have gone through the comment period, and have been rewritten into their final form, they again appear in the *State Register* as **Adopted Rules**. These final adopted rules are not printed in their entirety in the *State Register*, only the changes made since their publication as Proposed Rules. To see the full rule, as adopted and in effect, a person simply needs two issues of the *State Register*, the issue the rule appeared in as proposed, and later as adopted. For a more detailed description of the rulemaking process, see the *Minnesota Guidebook to State Agency Services*.

The *State Register* features partial and cumulative listings of rules in this section on the following schedule: issues 1-13 inclusive; issues 14-25 inclusive; issue 26, cumulative for issues 1-26; issues 27-38 inclusive; issue 39, cumulative for 1-39; issues 40-51 inclusive; and issue 52, cumulative for 1-52. An annual subject matter index for rules appears in August. For copies of the *State Register*, a subscription, the annual index, the *Minnesota Rules* or the *Minnesota Guidebook to State Agency Services*, contact the Print Communications Division, 117 University Avenue, St. Paul, MN 55155 (612) 297-3000 or toll-free in Minnesota 1-800-657-3757.

### Issues #40-41 Inclusive (issues #1-39 appeared in #39)

<b>Agriculture Department</b>	
1512.0010-.0085 (proposed).....	2157
<b>Architecture, Engineering, Land Surveying, Landscape Architecture and Interior Design Board</b>	
1800.0500; .0800; .2100; .2200; .2300; .4100; .4200(adopted).....	2174
<b>Jobs &amp; Training Department</b>	
3315.1020; .1315 (adopted).....	2194
<b>Housing Finance Agency</b>	
4900.2005 (proposed).....	2193
<b>Nursing Board</b>	
6305.0100; .0300; .0400; .0600; 6310.3600 (adopted).....	2195
6305.0100 s.3,8,9; .0400 s.2,9,11; .0700 (repealed).....	2195
<b>Pollution Control Agency</b>	
7045.0020; .0120; .0125; .0230 (adopted).....	2195

7050.0110; .0130; .0150; .0170; .0180; .0185; .0186; .0200; .0210; .0211; .0212; .0213; .0214; .0215; .0216; .0217; .0218; .0220; .0221; .0222; .0223; .0224; .0225; .0226; .0227; .0410; .0420; .0425; .0430; .0460; .0466; .0470; (adopted).....	2195
7050.0465 (repealed).....	2195
7050.0215 s.2; .0220 s.3,4 - the total cyanide standard; .0220 s.3,4 - the hexachlorocyclopentadiene secondary drinking water standard; .0220 s.3,4,5 - the iron and manganese aquatic life standards; .0220 s.2,3,4; .0470 s.1item B, subitems (41), (78), (100); .0470 s.7 item A, subitems (66) T.113, R.15, S.24,25,36 (withdrawn).....	2195
<b>Public Safety Department</b>	
7514.0100-.2000 (proposed).....	2162
<b>Transportation Department</b>	
8880.0100-.1400 (adopted).....	2220

## — Volunteer Services of Minnesota Publications —

### NEW!

**The Power & Potential of Youth in Service to Communities**  
 Outlines learner outcomes for leaders in developing service and mentoring programs. 10-48SR \$16.00

**Trainer's Manual: Part I**  
 Effective step-by-step training methods. 10-33SR \$30.00

**Trainer's Manual: Part II**  
 Training volunteer leaders. 10-34SR \$30.00

**Community Handbook, Part I:**  
**Developing Public/Private Partnerships**  
 Partnership issues: leadership, research 10-31SR \$5.00

**Community Handbook, Part II:**  
**Basic Volunteer Program Management**  
 Guidelines: recruitment, orientation... 10-32SR \$5.00

**Planning it Safe: How to Control Liability & Risk in Volunteer Programs**  
 Legal risk and liability concerns. 10-45SR \$17.95

Available through Minnesota's Bookstore. Use the handy order form on the back of the *State Register* to order. Visit Minnesota's Bookstore to view a variety of Volunteer Services publications.

Publication editors: As a public service, please reprint this ad in your publication as is, reduced, enlarged, or redesigned to suit your format. Thank you.



## Proposed Rules

Pursuant to Minn. Stat. §14.22, an agency may propose to adopt, amend, suspend or repeal rules without first holding a public hearing, as long as the agency determines that the rules will be noncontroversial in nature. The agency must first publish a notice of intent to adopt rules without a public hearing, together with the proposed rules, in the *State Register*. The notice must advise the public:

1. that they have 30 days in which to submit comment on the proposed rules;
2. that no public hearing will be held unless 25 or more persons make a written request for a hearing within the 30-day comment period;
3. of the manner in which persons shall request a hearing on the proposed rules; and
4. that the rule may be modified if the modifications are supported by the data and views submitted

If, during the 30-day comment period, 25 or more persons submit to the agency a written request for a hearing of the proposed rules, the agency must proceed under the provisions of §§14.14-14.20, which state that if an agency decides to hold a public hearing, it must publish a notice of intent in the *State Register*.

Pursuant to Minn. Stat. §§14.29 and 14.30, agencies may propose emergency rules under certain circumstances. Proposed emergency rules are published in the *State Register* and, for at least 25 days thereafter, interested persons may submit data and views in writing to the proposing agency.

## Minnesota Housing Finance Agency

### Proposed Permanent Rules Relating to Purchase and Rehabilitation or Refinance and Rehabilitation Mortgage Loans

#### Notice of Intent to Adopt a Rule Without a Public Hearing

The Minnesota Housing Finance Agency intends to adopt a permanent rule without a public hearing following the procedures set forth in the Administrative Procedures Act, *Minnesota Statutes*, sections 14.22 to 14.28. You have 30 days to submit written comments on the proposed rule and may also submit a written request that a hearing be held on the rule.

**Agency Contact Person.** Comments or questions on the rule and written requests for a public hearing on the rule must be submitted to:

Judie VanDerBosch  
Minnesota Housing Finance Agency  
400 Sibley Street, Suite 300  
St. Paul, MN 55101-1998  
(612) 296-9794

**Subject of Rule and Statutory Authority.** The proposed rule is about Purchase and Rehabilitation or Refinance and Rehabilitation Mortgage Loans. The statutory authority to adopt this rule is *Minnesota Statutes* 462A.06, subd. 4 and 11. You have until 4:30 PM, May 11, 1994 to submit written comment in support of or in opposition to the proposed rule and any part or subpart of the rule. Your comment must be in writing and received by the agency contact person by the due date. Comment is encouraged. Your comment should identify the portion of the proposed rule addressed, the reason for the comment, and any change proposed.

**Request for a Hearing.** In addition to submitting comments, you may also request that a hearing be held on the rule. Your request for a public hearing must be in writing and must be received by the agency contact person by 4:30 PM, on May 11, 1994. Your written request for a public hearing must include your name and address. You are encouraged to identify the portion of the proposed rule which caused your request, the reason for the request, and any changes you want made to the proposed rule. If 25 or more persons submit a written request for a hearing, a public hearing will be held unless a sufficient number withdraw their requests in writing. If a public hearing is required, the agency will follow the procedures in *Minnesota Statutes*, sections 14.131 to 14.20.

**Modifications.** The proposed rule may be modified as a result of public comment. The modifications must be supported by data and views submitted to the agency and may not result in a substantial change in the proposed rule. If the proposed rule affects you in any way, you are encouraged to participate in the rulemaking process.

**Statement of Need and Reasonableness.** A statement of need and reasonableness is now available from the agency contact person. This statement describes the need for and reasonableness of each provision of the proposed rule and identifies the data and information relied upon to support the proposed rule.

**Adoption and Review of Rule.** If no hearing is required, after the end of the comment period the agency may adopt the rule. The rule and supporting documents will then be submitted to the attorney general for review as to legality and form to the extent form

**KEY: PROPOSED RULES SECTION** — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." **ADOPTED RULES SECTION** — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

## Adopted Rules

---

---

relates to legality. You may request to be notified of the date the rule is submitted to the attorney general or be notified of the attorney general's decision on the rule. If you wish to be so notified, or wish to receive a copy of the adopted rule, submit your request to the agency contact person listed above.

James J. Solem  
Commissioner

### Rules as Proposed

#### 4900.2005 PURCHASE AND REHABILITATION OR REFINANCE AND REHABILITATION MORTGAGE LOANS.

[For text of subpart 1, see M.R.]

Subp. 2. **Minimum rehabilitation.** Each property financed with a purchase and rehabilitation mortgage loan or a refinance and rehabilitation loan must require and receive rehabilitation in a dollar amount greater than or equal to the amounts in items A and B.

A. ~~For properties~~ If the property to be financed is located within in Anoka, Benton, Carver, Chisago, Clay, Dakota, Hennepin, Isanti, Olmsted, Ramsey, Scott, Sherburne, Stearns, Washington, ~~and or~~ Wright counties county, the minimum required rehabilitation requirement is \$5,000.

B. For properties located ~~within in~~ all other counties, the minimum rehabilitation requirement is the lesser of \$5,000 or 15 percent of the value of the property ~~prior to~~ before rehabilitation.

[For text of subps 3 and 5, see M.R.]

Subp. 6. **Maximum mortgage amount.** The maximum mortgage amount for any purchase and rehabilitation or refinance and rehabilitation mortgage loan must not exceed the maximum mortgage amount for ~~applicable areas of the state~~ the Minneapolis/St. Paul Metropolitan Statistical Area for mortgage loans to be insured by the Federal Housing Administration as determined and adjusted from time to time by the United States Department of Housing and Urban Development.

## Adopted Rules

The adoption of a rule becomes effective after the requirements of Minn. Stat. §§14.14-14.28 have been met and five working days after the rule is published in *State Register*, unless a later date is required by statutes or specified in the rule.

If an adopted rule is identical to its proposed form as previously published, a notice of adoption and citation to its previous *State Register* publication will be printed.

If an adopted rule differs from its proposed form, language which has been deleted will be printed with strikeouts and new language will be underlined. The rule's previous *State Register* publication will be cited.

An emergency rule becomes effective five working days after the approval of the Attorney General as specified in Minn. Stat. §14.33 and upon the approval of the Revisor of Statutes as specified in §14.36. Notice of approval by the Attorney General will be published as soon as practicable, and the adopted emergency rule will be published in the manner provided for adopted rules under §14.18.

## Department of Jobs and Training

### Adopted Permanent Rules Relating to Unemployment Compensation; Reports; Rates

The rules proposed and published at *State Register*, Volume 18, Number 5, pages 464-465, August 2, 1993 (18 SR 464), and Volume 18, Number 12, pages 881-882, September 20, 1993 (18 SR 881), are adopted as proposed.

## Board of Nursing

### Adopted Permanent Rules Relating to Licensure and Registration of Professional and Practical Nurses

The rules proposed and published at *State Register*, Volume 18, Number 30, pages 1745-1751, January 24, 1994 (18 SR 1745), are adopted as proposed.

## Pollution Control Agency

### Adopted Permanent Rules Relating to Pipeline Interface Material

The rules proposed and published at *State Register*, Volume 18, Number 20, pages 1334-1336, November 15, 1993 (18 SR 1334), are adopted with the following modifications:

#### Rules as Adopted

#### 7045.0125 MANAGEMENT OF WASTE BY USE, REUSE, RECYCLING, AND RECLAMATION.

Subp. 4. **Management of specific hazardous wastes.** Management of the following wastes when recycled, is not subject to regulation under parts 7045.0205 to 7045.0695 and 7045.1300 to 7045.1380:

K. pipeline interface material, provided that the material is transported solely in a pipeline system as defined in Code of Federal Regulations, title 49, part 195, and is sent to a refinery for use as an ingredient in a refining process or to a facility for reclamation.

Subp. 5. **Requirements for use of hazardous waste as feedstock.**

B. A generator of hazardous waste for use as feedstock is subject to the following generator requirements:

(4) the generator must maintain records at the licensed site for at least three years confirming that the hazardous waste was received at the designated facility as indicated in the management plan required by part 7045.0230; and

Subp. 6. **Requirements for reclamation of specific hazardous waste.**

A. A by-product or a sludge that is hazardous only because it exhibits a characteristic of hazardous waste as defined in part 7045.0131 and is reclaimed is subject to only the following requirements:

## Pollution Control Agency

### Adopted Permanent Rules Relating to Water Quality

The rules proposed and published at *State Register*, Volume 18, Number 3, pages 146-250, July 19, 1993 (18 SR 146), are adopted with the following modifications:

#### Rules as Adopted

#### 7050.0130 DEFINITIONS.

D. "Physical alteration" means the dredging, filling, draining, or permanent inundating of a wetland. Restoring a degraded wetland by reestablishing its hydrology is not a physical alteration.

#### 7050.0186 WETLAND MITIGATION.

Subp. 6. **Impact compensation.** The permit or certification applicant shall provide compensatory mitigation for unavoidable impacts on the designated uses of the wetland in accordance with this subpart.

**KEY: PROPOSED RULES SECTION** — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." **ADOPTED RULES SECTION** — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

## Adopted Rules

C. If compensatory mitigation is accomplished by restoration or creation, the replacement wetland shall be of the same type and in the same watershed as the impacted wetland, to the extent prudent and feasible.

D. Compensatory mitigation shall be completed before or concurrent with the actual physical alteration of the wetland affected by the proposed project to the extent prudent and feasible.

### 7050.0200 WATER USE CLASSIFICATIONS FOR WATERS OF THE STATE.

Subp. 8. **Class 7 waters, limited resource value waters.** Limited resource value waters include surface waters of the state which have been subject to a use attainability analysis and have been found to have limited value as a water resource. Water quantities in these waters are intermittent or less than one cubic foot per second at the once in ten year, seven-day low flow as defined in part 7050.0210, subpart 7. These waters shall be protected so as to allow secondary body contact use, to preserve the groundwater for use as a potable water supply, and to protect aesthetic qualities of the water. It is the intent of the agency that very few waters be classified as limited resource value waters. The use attainability analysis must take into consideration those factors listed in *Minnesota Statutes*, section 115.44, subdivisions 2 and 3, the agency, in cooperation and agreement with the Department of Natural Resources with respect to determination of fisheries values and potential, shall be used to determine the extent to which the waters of the state demonstrate:

C. there are limited recreational opportunities (such as fishing, swimming, wading, or boating) in and on the water resource.

The conditions in items A and C or B and C must be established by the use attainability analysis before the waters can be classified as limited resource value waters.

### 7050.0215 REQUIREMENTS FOR ANIMAL FEEDLOTS.

Subp. 2. **Requirements Effluent limitations for a discharge.**

A. Any person discharging pollutants to surface waters of the state from an animal feedlot or manure storage area who is not regulated by federal requirements under part 7050.0212, subpart 1, shall ~~have a feedlot pollution rating of zero using a 25-year, 24-hour rainfall event; comply with the following limitations~~ after allowance for pollutant removal by a treatment works: ~~The feedlot pollution rating is determined by the "feedlot evaluation system model," which is incorporated by reference. The model appears in "An Evaluation System to Rate Feedlot Pollution Potential," published by the United States Department of Agriculture (Illinois, 1982); and is available at the State Law Library through the Minitex interlibrary loan system. This document is not subject to frequent change.~~

5-day biochemical  
oxygen demand

25 milligrams per liter  
(arithmetic mean of all  
samples taken during any  
calendar month).

~~B.~~ If the discharge is directly to or affects a lake or reservoir, the person discharging the pollutants shall comply with the nutrient control requirements of part 7050.0211, subpart 1.

~~B.~~ The effluent limitations in item ~~B~~ A are not applicable whenever rainfall events, either chronic or catastrophic, cause an overflow from an animal feedlot or manure storage area designed, constructed, and operated:

(1) to meet the effluent limitations in item ~~B~~ A for rainfall events less than or equal to a 25-year, 24-hour rainfall event for that location; or

### 7050.0220 SPECIFIC STANDARDS OF QUALITY AND PURITY BY ASSOCIATED USE CLASSES.

Subp. 2. **Explanation of tables.** Class 1 standards listed in the tables in subparts 3 to 6 are the United States Environmental Protection Agency primary (maximum contaminant levels) and secondary drinking water standards, as contained in Code of Federal Regulations, title 40, part 141, subparts B and G, and part 143 (1992); and sections 141.61 and 141.62 as amended through July 17, 1992, excluding the bacteriological, radiological, treatment technological, and water treatment additive standards.

The tables include the following abbreviations and acronyms:

- (c) means the chemical is assumed to be a human carcinogen
- CS or "chronic standard" means the highest water concentration of a toxicant to which organisms can be exposed indefinitely without causing chronic toxicity
- exp. ( ) means the natural antilogarithm (base e) of the expression in parenthesis
- FAV or "final acute value" means an estimate of the concentration of a pollutant corresponding to the cumulative probability of 0.05 in the distribution of all the acute toxicity values for the genera or species from the acceptable acute toxicity tests conducted on a pollutant
- MS or "maximum standard" means the highest concentration of a toxicant in water to which aquatic organisms can be

- exposed for a brief time with zero to slight mortality. The MS equals the FAV divided by two
- (S) means the associated value is a secondary drinking water standard
- TH means total hardness in mg/l, which is the sum of the calcium and magnesium concentrations expressed as CaCO<sub>3</sub>
- TON means threshold odor number

For the FAV and MS values noted with an asterisk (\*), see part 7050.0222, subpart 7, item E.

Important synonyms or acronyms for some chemicals are listed in parentheses below the primary name. Standards that vary with total hardness or pH are in the form of formulas and are listed as numbered notes at the end of the tables.

When two or more use classes have standards for the same pollutant, the most stringent standard applies pursuant to part 7050.0450. All surface waters are protected for Class 6, but this class has no numerical standards so it is not included in the tables.

Subp. 3. Water quality standards applicable to use Classes 1B, 2A, 3A or 3B, 4A and 4B, and 5.

SUBSTANCE OR CHARACTERISTIC	UNITS	STANDARDS FOR USE CLASSES								
		2A CHRONIC	2A MAXIMUM	2A FAV	1B DRINKING WATER	3A/3B INDUST. CONSUMPT.	4A IRRIGA- TION	4B LIVESTOCK	5 AESTHETIC	
<b>MISCELLANEOUS</b>										
Ammonia, un-ionized as N	ug/l	16	none	none						
Asbestos, >10 um (c)	fibers/l				7.0e+06					
Bicarbonates (HCO <sub>3</sub> )	meq/l						5			
Chloride	mg/l	230	860	1720	250(S)	50/100				
Chlorine, total residual	ug/l	6	19	38						
Color	Pt-Co	30	none	none	15(S)					
Cyanide, free	ug/l	5.2	22	45	<u>200</u>					
<del>Cyanide, total</del>	<del>ug/l</del>				<del>200</del>					
Dissolved oxygen	mg/l	7 as a daily minimum								
Fecal coliform organisms		See note No. 1 below								
Fluoride	mg/l				4					
Fluoride	mg/l				2(S)					
Foaming agents	mg/l ug/l				500(S)					
Hardness, Ca+Mg as CaCO <sub>3</sub>	mg/l					50/250				
Hydrogen sulfide	mg/l								0.02	
Nitrate, as N	mg/l				10					
Nitrite, as N	mg/l				1					
Nitrate + Nitrite, as N	mg/l				10					
Odor	TON				3(S)					
Oil	ug/l	500	5000	10000						
pH	low	6.5	none	none	6.5(S)	6.5/6.0	6.0	6.0	6.0	
	high	8.5	none	none	8.5(S)	8.5/9.0	8.5	9.0	9.0	
Radioactive materials		See note No. 2 below								
Salinity, total	mg/l								1000	
Sodium	meq/l						60% of total cations			

**KEY: PROPOSED RULES SECTION** — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." **ADOPTED RULES SECTION** — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

# Adopted Rules

SUBSTANCE OR CHARACTERISTIC	UNITS	STANDARDS FOR USE CLASSES							
		2A CHRONIC	2A MAXIMUM	2A FAV	1B DRINKING WATER	3A/3B INDUST. CONSUMPT.	4A IRRIGA- TION	4B LIVESTOCK	5 AESTHETIC
<b>MISCELLANEOUS continued</b>									
Sulfate	mg/l				250(S)				
Sulfates, wild rice present	mg/l						10		
Specific conductance	umhos/cm						1000		
Temperature	F	no material increase							
Total dissolved salts	mg/l						700		
Total dissolved solids	mg/l				500(S)				
Turbidity	NTUs	10	none	none	1-5				
<b>METALS AND ELEMENTS</b>									
Aluminum	ug/l	87	748	1496	50-200(S)				
Antimony	ug/l	5.5	90	180	6				
Arsenic	ug/l	2.0	360	720	50				
Barium	ug/l				2000				
Beryllium	ug/l				4.0				
Boron	ug/l						500		
Cadmium	ug/l	See note No. 3 below			5				
Chromium, +3	ug/l	See note No. 4 below							
Chromium, +6	ug/l	11	16	32					
Chromium, total	ug/l				100				
Cobalt	ug/l	2.8	436	872					
Copper	ug/l	See note No. 5 below			1000(S)				
Iron	ug/l	<del>221</del>	<del>243</del>	<del>485</del>	300(S)				
Lead	ug/l	See note No. 6 below							
Manganese	ug/l	<del>138</del>	<del>4643</del>	<del>9285</del>	50(S)				
Mercury	ug/l	0.0069	2.4*	4.9*	2				
Nickel	ug/l	See note No. 7 below			100				
Selenium	ug/l	5.0	20	40	50				
Silver	ug/l	1.0	See note No. 9 below		100(S)				
Thallium	ug/l	0.28	64	128	2				
Zinc	ug/l	See note No. 10 below			5000(S)				
<b>ORGANICS</b>									
Acenaphthene	ug/l	12	41	81					
Acrylonitrile (c)	ug/l	0.38	1140*	2281*					
Alachlor (c)	ug/l	4.2	800*	1600*	2				
Aldicarb	ug/l				3				
Aldicarb sulfone	ug/l				2				
Aldicarb sulfoxide	ug/l				4				
Anthracene	ug/l	0.029	0.78	1.6					
Atrazine (c)	ug/l	3.4	323	645	3				
Benzene (c)	ug/l	11	4487*	8974*	5				
Benzo(a)pyrene	ug/l				0.2				
Bromoform	ug/l	41	2900	5800					
Carbofuran	ug/l				40				
Carbon tetrachloride (c)	ug/l	1.9	1750*	3500*	5				
Chlordane (c)	ug/l	0.00029	1.2*	2.4*	2				
Chlorobenzene (Monochlorobenzene)	ug/l	10	423	846	100				
Chloroform (c)	ug/l	55	2235	4471					
Chlorpyrifos	ug/l	0.041	0.083	0.17					
Dalapon	ug/l				200				
DDT (c)	ug/l	0.0017	0.55*	1.1*					
1,2-Dibromo-3-chloropropane (c)	ug/l				0.2				

SUBSTANCE OR CHARACTERISTIC	UNITS	STANDARDS FOR USE CLASSES							
		2Bd CHRONIC	2Bd MAXIMUM	2Bd FAV	1B/1C DRINKING WATER	3A/3B INDUST. CONSUMPT.	4A IRRIGA- TION	4B LIVESTOCK	5 AESTHETIC
<b>ORGANICS continued</b>									
Dichlorobenzene (ortho)	ug/l				600				
1,4-Dichlorobenzene (para) (c)	ug/l				75				
1,2-Dichloroethane (c)	ug/l	3.8	45050*	90100*	5				
1,1-Dichloroethylene	ug/l				7				
1,2-Dichloroethylene (cis)	ug/l				70				
1,2-Dichloroethylene (trans)	ug/l				100				
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/l				70				
1,2-Dichloropropane (c)	ug/l				5				
Dieldrin (c)	ug/l	0.000026	1.3*	2.5*					
Di-2-ethylhexyl adipate	ug/l				400				
Di-2-ethylhexyl phthalate (c)	ug/l	1.9	none	none	6				
Di-n-Octyl phthalate	ug/l	30	825	1650					
Dinoseb	ug/l				7				
Diquat	ug/l				20				
Endosulfan	ug/l	0.029	0.28	0.56					
Endothall	ug/l				100				
Endrin	ug/l	0.016	0.090	0.18	2				
Ethylbenzene (c)	ug/l	68	1859	3717	700				
Ethylene dibromide	ug/l				0.05				
Fluoranthene	ug/l	20	199	398					
Glyphosate	ug/l				700				
Heptachlor (c)	ug/l	0.00039	0.26*	0.52*	0.4				
Heptachlor epoxide (c)	ug/l	0.00048	0.27*	0.53*	0.2				
Hexachlorobenzene (c)	ug/l	0.00024	none	none	1				
Hexachlorocyclopentadiene	ug/l				50				
<del>Hexachlorocyclopentadiene</del>	<del>ug/l</del>				<del>8(6)</del>				

Subp. 4. Water quality standards applicable to use Classes 1B or 1C, 2Bd, 3A or 3B, 4A and 4B, and 5.

SUBSTANCE OR CHARACTERISTIC	UNITS	STANDARDS FOR USE CLASSES							
		2Bd CHRONIC	2Bd MAXIMUM	2Bd FAV	1B/1C DRINKING WATER	3A/3B INDUST. CONSUMPT.	4A IRRIGA- TION	4B LIVESTOCK	5 AESTHETIC
<b>MISCELLANEOUS</b>									
Ammonia, un-ionized as N	ug/l	40	none	none					
Asbestos, >10 um (c)	fibers/l				7.0e+06				
Bicarbonates (HCO3)	meq/l						5		
Chloride	mg/l	230	860	1720	250(S)	50/100			
Chlorine, total residual	ug/l	6	19	38					
Color	Pt-Co				15(S)				
Cyanide, free	ug/l	5.2	22	45	200				
<del>Cyanide, total</del>	<del>ug/l</del>				<del>200</del>				
Dissolved oxygen	mg/l	5 as a daily minimum							
Fecal coliform organisms		See note No. 1 below							
Fluoride	mg/l				4				
Fluoride	mg/l				2(S)				
Foaming agents	mg/l ug/l				500(S)				
Hardness, Ca+Mg as CaCO3	mg/l					50/250			
Hydrogen sulfide	mg/l							0.02	
Nitrate, as N	mg/l				10				
Nitrite, as N	mg/l				1				
Nitrate + Nitrite, as N	mg/l				10				
Odor	TON				3(S)				
Oil	ug/l	500	5000	10000					
pH	low	6.5	none	none	6.5(S)	6.5/6.0	6.0	6.0	6.0
	high	9.0	none	none	8.5(S)	8.5/9.0	8.5	9.0	9.0
Radioactive materials		See note No. 2 below							
Salinity, total	mg/l							1000	
Sodium	meq/l					60% of total cations			

# Adopted Rules

SUBSTANCE OR CHARACTERISTIC	UNITS	STANDARDS FOR USE CLASSES							
		2Bd CHRONIC	2Bd MAXIMUM	2Bd FAV	1B/1C DRINKING WATER	3A/3B INDUST. CONSUMPT.	4A IRRIGA- TION	4B LIVESTOCK	5 AESTHETIC
<b>MISCELLANEOUS continued</b>									
Sulfate	mg/l				250(S)				
Sulfates, wild rice present	mg/l						10		
Specific conductance	umhos/cm						1000		
Temperature	F	See note No. 3 below							
Total dissolved salts	mg/l						700		
Total dissolved solids	mg/l				500(S)				
Turbidity	NTUs	25	none	none	1-5/25				
<b>METALS AND ELEMENTS</b>									
Aluminum	ug/l	125	1072	2145	50-200(S)				
Antimony	ug/l	5.5	90	180	6				
Arsenic	ug/l	2.0	360	720	50				
Barium	ug/l				2000				
Beryllium	ug/l				4.0				
Boron	ug/l						500		
Cadmium	ug/l	See note No. 4 below			5				
Chromium, +3	ug/l	See note No. 5 below							
Chromium, +6	ug/l	11	16	32					
Chromium, total	ug/l				100				
Cobalt	ug/l	2.8	436	872					
Copper	ug/l	See note No. 6 below			1000(S)				
Iron	ug/l	<del>221</del>	<del>243</del>	<del>485</del>	300(S)				
Lead	ug/l	See note No. 7 below							
Manganese	ug/l	<del>138</del>	<del>4643</del>	<del>9285</del>	50(S)				
Mercury	ug/l	0.0069	2.4*	4.9*	2				
Nickel	ug/l	See note No. 8 below			100				
Selenium	ug/l	5.0	20	40	50				
Silver	ug/l	0.12	see note No. 8 below		100(S)				
Thallium	ug/l	0.28	64	128	2				
Zinc	ug/l	See note No. 9 below			5000(S)				
<b>ORGANICS</b>									
Acenaphthene	ug/l	12	41	81					
Acrylonitrile (c)	ug/l	0.38	1140*	2281*					
Alachlor (c)	ug/l	3.8	800*	1600*	2				
Aldicarb	ug/l				3				
Aldicarb sulfone	ug/l				2				
Aldicarb sulfoxide	ug/l				4				
Anthracene	ug/l	0.029	0.78	1.6					
Atrazine (c)	ug/l	3.4	323	645	3				
Benzene (c)	ug/l	9.7	4487*	8974*	5				
Benzo(a)pyrene	ug/l				0.2				
Bromoform	ug/l	33	2900	5800					
Carbofuran	ug/l				40				
Carbon tetrachloride (c)	ug/l	1.9	1750*	3500*	5				
Chlordane (c)	ug/l	0.000073	1.2*	2.4*	2				
Chlorobenzene (Monochlorobenzene)	ug/l	10	423	846	100				
Chloroform (c)	ug/l	49	2235	4471					
Chlorpyrifos	ug/l	0.041	0.083	0.17					
Delepon	ug/l				200				
DDT (c)	ug/l	0.00011	0.55*	1.1*					
1,2-Dibromo-3-chloropropane (c)	ug/l				0.2				



SUBSTANCE OR CHARACTERISTIC	UNITS	STANDARDS FOR USE CLASSES						
		2A CHRONIC	2A MAXIMUM	2A FAV	1B DRINKING WATER	3A/3B INDUST. CONSUMPT.	4A IRRIGA- TION	4B LIVESTOCK
ORGANICS continued								
Dichlorobenzene (ortho)	ug/l				600			
1,4-Dichlorobenzene (para) (c)	ug/l				75			
1,2-Dichloroethane (c)	ug/l	3.5	45050*	90100*	5			
1,1-Dichloroethylene	ug/l				7			
1,2-Dichloroethylene (cis)	ug/l				70			
1,2-Dichloroethylene (trans)	ug/l				100			
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/l				70			
1,2-Dichloropropane (c)	ug/l				5			
Dieldrin (c)	ug/l	6.5e-06	1.3*	2.5*				
Di-2-ethylhexyl adipate	ug/l				400			
Di-2-ethylhexyl phthalate (c)	ug/l	1.9	none	none	6			
Di-n-Octyl phthalate	ug/l	30	825	1650				
Dinoseb	ug/l				7			
Diquat	ug/l				20			
Endosulfen	ug/l	0.0076	0.084	0.17				
Endothall	ug/l				100			
Endrin	ug/l	0.0039	0.090	0.18	2			
Ethylbenzene (c)	ug/l	68	1859	3717	700			
Ethylene dibromide	ug/l				0.05			
Fluoranthene	ug/l	7.1	199	398				
Glyphosate	ug/l				700			
Heptachlor (c)	ug/l	0.00010	0.26*	0.52*	0.4			
Heptachlor epoxide (c)	ug/l	0.00012	0.27*	0.53*	0.2			
Hexachlorobenzene (c)	ug/l	0.000061	none	none	1			
Hexachlorocyclopentadiene	ug/l				50			
Hexachlorocyclopentadiene	ug/l				8(8)			

Subp. 5. Water quality standards applicable to use Classes 2B, 2C, or 2D; 3A, 3B, 3C, or 3D; 4A and 4B or 4C; and 5. See note No. 1 below.

SUBSTANCE OR CHARACTERISTIC	UNITS	STANDARDS FOR USE CLASSES						
		2B, C&D CHRONIC	2B, C&D MAXIMUM	2B, C&D FAV	3A/3B/3C INDUST. CONSUMPT.	4A IRRIGA- TION	4B LIVESTOCK	5 AESTHETIC
MISCELLANEOUS								
Ammonia, un-ionized as N	ug/l	40	none	none				
Bicarbonates (HCO3)	meq/l					5		
Chloride	mg/l	230	860	1720	50/100/250			
Chlorine, total residual	ug/l	6	19	38				
Cyanide, free	ug/l	5.2	22	45				
Dissolved oxygen	mg/l	5 as a daily minimum, see note No. 2 below						
Fecal coliform organisms		See note No. 3 below						
Hardness, Ca+Mg as CaCO3	mg/l				50/250/500			
Hydrogen sulfide	mg/l							0.02
Oil	ug/l	500	5000	10000				
pH	low	6.5, see note No. 4 below			6.5/6.0/6.0	6.0	6.0	6.0
	high	9.0, see note No. 4 below			8.5/9.0/9.0	8.5	9.0	9.0
Radioactive materials		See note No. 5 below						
Salinity, total	mg/l							1000
Sodium	meq/l					60% of total cations		
Sulfates, wild rice present	mg/l					10		
Specific conductance	umhos/cm					1000		
Temperature	F	See note No. 6 below						
Total dissolved salts	mg/l					700		
Turbidity	NTUs	25	none	none				

# Adopted Rules

SUBSTANCE OR CHARACTERISTIC	UNITS	STANDARDS FOR USE CLASSES					
		2B, C&D CHRONIC	2B, C&D MAXIMUM	2B, C&D FAV	3A/3B/3C INDUST. CONSUMPT.	4A IRRIGA- TION	4B LIVESTOCK
<b>METALS AND ELEMENTS</b>							
Aluminum	ug/l	125	1072	2145			
Antimony	ug/l	31	90	180			
Arsenic	ug/l	53	360	720			
Boron	ug/l					500	
Cadmium	ug/l	See note No. 7 below					
Chromium, +3	ug/l	See note No. 8 below					
Chromium, +6	ug/l	11	16	32			
Cobalt	ug/l	5.0	436	872			
Copper	ug/l	See note No. 9 below					
Iron	ug/l	1245	1363	2726			
Lead	ug/l	See note No. 10 below					
Manganese	ug/l	491	4643	9285			
Mercury	ug/l	0.0069	2.4*	4.9*			
Nickel	ug/l	See note No. 11 below					
Selenium	ug/l	5.0	20	40			
Silver	ug/l	1.0	See note No. 12 below				
Thallium	ug/l	0.56	64	128			
Zinc	ug/l	See note No. 13 below					

## 7050.0221 SPECIFIC STANDARDS OF QUALITY AND PURITY FOR CLASS 1 WATERS OF THE STATE; DOMESTIC CONSUMPTION.

Subp. 2. **Class 1A waters; domestic consumption.** The quality of Class 1A waters of the state shall be such that without treatment of any kind the raw waters will meet in all respects both the primary (maximum contaminant levels) and secondary drinking water standards issued by the United States Environmental Protection Agency as contained in *Code of Federal Regulations*, title 40, part 141, subparts B and G, and part 143, ~~and any revisions, amendments, or supplements (1992); and section 141.61 and 141.62, as amended through July 17, 1992.~~ These Environmental Protection Agency standards are adopted and incorporated by reference. These standards will ordinarily be restricted to underground waters with a high degree of natural protection.

Subp. 3. **Class 1B waters.** The quality of Class 1B waters of the state shall be such that with approved disinfection, such as simple chlorination or its equivalent, the treated water will meet both the primary (maximum contaminant levels) and secondary drinking water standards issued by the United States Environmental Protection Agency as contained in *Code of Federal Regulations*, title 40, part 141, subparts B and G, and part 143, ~~and any revisions, amendments, or supplements (1992); and sections 141.61 and 141.62, as amended through July 17, 1992;~~ except that the bacteriological standards shall not apply. These Environmental Protection Agency standards, as modified in this part, are adopted and incorporated by reference. These standards will ordinarily be restricted to surface and underground waters with a moderately high degree of natural protection and apply to these waters in the untreated state.

Subp. 4. **Class 1C waters.** The quality of Class 1C waters of the state shall be such that with treatment consisting of coagulation, sedimentation, filtration, storage, and chlorination, or other equivalent treatment processes, the treated water will meet both the primary (maximum contaminant levels) and secondary drinking water standards issued by the United States Environmental Protection Agency as contained in *Code of Federal Regulations*, title 40, part 141, subparts B and G, and part 143, ~~and any revisions, amendments, or supplements (1992); and sections 141.61 and 141.62, as amended through July 17, 1992;~~ except that the bacteriological standards shall not apply, and the turbidity standard shall be 25 mg/l. These Environmental Protection Agency standards, as modified in this part, are adopted and incorporated by reference. These standards will ordinarily be restricted to surface waters, and groundwaters in aquifers not considered to afford adequate protection against contamination from surface or other sources of pollution. Such aquifers normally would include fractured and channeled limestone, unprotected impervious hard rock where water is obtained from mechanical fractures or joints with surface connections, and coarse gravels subjected to surface water infiltration. These standards shall also apply to these waters in the untreated state.

Subp. 5. **Class 1D waters.** The quality of Class 1D waters of the state shall be such that after treatment consisting of coagulation, sedimentation, filtration, storage, and chlorination, plus additional pre, post, or intermediate stages of treatment, or other equivalent treatment processes, the treated water will meet both the primary (maximum contaminant levels) and secondary drinking water standards issued by the United States Environmental Protection Agency as contained in *Code of Federal Regulations*, title 40, part 141, subparts B and G, and part 143, ~~and any revisions, amendments, or supplements (1992); and sections 141.61 and 141.62, as amended through July 17, 1992;~~ except that the bacteriological standards shall not apply, and the standards for the substances identified below shall apply. These Environmental Protection Agency standards, as modified in this part, are adopted and incorporated by reference. These standards will ordinarily be restricted to surface waters, and groundwaters in aquifers not considered to afford adequate protection against contamination from surface or other sources of pollution. Such aquifers normally would include fractured and channeled limestone, unprotected impervious hard rock where water is obtained from mechanical fractures or joints with surface connections, and coarse gravels subjected to surface water infiltration. These standards shall not be exceeded in the raw waters before treatment:

Substance or Characteristic	Class 1D Standard
Arsenic (As)	0.05 milligram per liter
Barium (Ba)	1 milligram per liter
Cadmium (Cd)	0.01 milligram per liter
Chromium (Hexavalent, Cr)	0.05 milligram per liter
Cyanide (CN)	0.2 milligram per liter
Fluoride (F)	1.5 milligrams per liter
Lead (Pb)	0.05 milligram per liter
Selenium (Se)	0.01 milligram per liter
Silver (Ag)	0.05 milligram per liter
Radioactive material	Not to exceed the lowest concentrations permitted to be discharged to an uncontrolled environment as prescribed by the appropriate authority having control over their use.

**7050.0222 SPECIFIC STANDARDS OF QUALITY AND PURITY FOR CLASS 2 WATERS OF THE STATE; AQUATIC LIFE AND RECREATION.**

Subp. 2. **Class 2A waters; aquatic life and recreation.** The quality of Class 2A surface waters shall be such as to permit the propagation and maintenance of a healthy community of cold water sport or commercial fish and associated aquatic life, and their habitats. These waters shall be suitable for aquatic recreation of all kinds, including bathing, for which the waters may be usable. This class of surface waters is also protected as a source of drinking water. The applicable standards are given below, with substances considered carcinogenic and having human health-based standards followed by a (c). Subpart 7, item E, should be referenced for FAV and MS values noted with an asterisk (\*):

Substance or Characteristic	Class 2A Standard		
	CS	MS	FAV
(c) = carcinogen			
Acenaphthene µg/l	12	41	81
Acrylonitrile (c) µg/l	0.38	1140*	2281*
Alachlor (c) µg/l	3.8	800*	1600*
Aluminum, total µg/l	87	748	1496
Ammonia un-ionized as N µg/l	16	none	none

The percent un-ionized ammonia can be calculated for any temperature and pH by using the following formula taken from Emerson, K., R.C. Russo, R.E. Lund, and R.V. Thurston, 1975. Aqueous ammonia equilibrium calculations; effect of pH and temperature. *Journal of the Fisheries Board of Canada* 32: 2379-2383.

**KEY: PROPOSED RULES SECTION** — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." **ADOPTED RULES SECTION** — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

# Adopted Rules

$$f = \frac{1}{10^{(pk_a - pH)} + 1} \times 100$$

where:

f = the percent of total ammonia in the un-ionized state

$pk_a = 0.09 + \frac{2730}{T}$ , dissociation constant for ammonia

T = temperature in degrees Kelvin (273.16° Kelvin = 0° Celsius)

## Class 2A Standards continued

	CS	MS	FAV
Anthracene µg/l	0.029	0.78	1.6
Antimony µg/l	5.5	90	180
Arsenic, total µg/l	2.0	360	720
Atrazine (c) µg/l	3.4	323	645
Benzene (c) µg/l	9.7	4487*	8974*
Bromoform µg/l	33	2900	5800
Cadmium, total µg/l			

The CS shall not exceed:	$\exp.(0.7852[\ln(\text{total hardness mg/l})]-3.49)$ .
The MS shall not exceed:	$\exp.(1.128[\ln(\text{total hardness mg/l})]-3.828)$ .
The FAV shall not exceed:	$\exp.(1.128[\ln(\text{total hardness mg/l})]-3.1349)$ .

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

## Cadmium standards in µg/l at various hardness values

### Hardness mg/l

50	0.66	1.8	3.6
100	1.1	3.9	7.8
200	2.0	8.6	17.1

## Class 2A Standards continued

	CS	MS	FAV
Carbon tetra-chloride (c) µg/l	1.9	1750*	3500*
Chlordane (c) µg/l	0.000073	1.2*	2.4*
Chloride µg/l	230	860	1720
Chlorine, total residual µg/l	6	19	38

Applies to conditions of continuous exposure, where continuous exposure refers to chlorinated effluents that are discharged for more than a total of two hours in any 24-hour period.

## Class 2A Standards continued

	CS	MS	FAV
Chlorobenzene µg/l (Monochlorobenzene)	10	423	846
Chloroform (c) µg/l	49	2235	4471
Chlorpyrifos µg/l	0.041	0.083	0.17
Chromium +3, total µg/l			

The CS shall not exceed:	$\exp.(0.819[\ln(\text{total hardness mg/l})]+1.561)$ .
--------------------------	---

The MS shall not exceed:  $\exp.(0.819[\ln(\text{total hardness mg/l})+3.688]).$

The FAV shall not exceed:  $\exp.(0.819[\ln(\text{total hardness mg/l})+4.380]).$

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

Chromium +3 standards in µg/l at various hardness values

	Hardness mg/l			
	50	117	984	1966
	100	207	1737	3469
	200	365	3064	6120
	Class 2A Standards continued			
	CS	MS	FAV	
Chromium +6, total µg/l	11	16	32	
Cobalt µg/l	2.8	436	872	
Color value				
Pt.-Co. units	30	none	none	
Copper, total µg/l				

The CS shall not exceed:  $\exp.(0.62[\ln(\text{total hardness mg/l})-0.57]).$

The MS shall not exceed:  $\exp.(0.9422[\ln(\text{total hardness mg/l})-1.464]).$

The FAV shall not exceed:  $\exp.(0.9422[\ln(\text{total hardness mg/l})-0.7703]).$

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

Copper standards in µg/l at various hardness values

	Hardness mg/l			
	50	6.4	9.2	18
	100	9.8	18	35
	200	15	34	68
	Class 2A Standards continued			
	CS	MS	FAV	
Cyanide, free µg/l	5.2	22	45	
Dissolved oxygen mg/l	7 as a daily minimum	none	none	

This dissolved oxygen standard requires compliance with the standard 50 percent of the days at which the flow of the receiving water is equal to the lowest weekly flow with a once in ten-year recurrence interval (7Q10).

Class 2A Standards continued

	CS	MS	FAV
DDT (c) µg/l	0.00011	0.55*	1.1*
1,2-Dichloroethane (c) µg/l	3.5	45050*	90100*
Dieldrin (c) µg/l	0.0000065	1.3*	2.5*
Di-2-Ethylhexyl			

**KEY: PROPOSED RULES SECTION** — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." **ADOPTED RULES SECTION** — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

# Adopted Rules

	CS	MS	FAV
phthalate (c) µg/l	1.9	none	none
Di-n-Octyl phthalate µg/l	30	825	1650
Endosulfan µg/l	0.0076	0.084	0.17
Endrin µg/l	0.0039	0.090	0.18
Ethylbenzene µg/l	68	1859	3717
Fecal coliform organisms			

Not to exceed 200 organisms per 100 milliliters as a geometric mean of not less than five samples in any calendar month, nor shall more than ten percent of all samples taken during any calendar month individually exceed 400 organisms per 100 milliliters. The standard applies only between March 1 and October 31.

### Class 2A Standards continued

	CS	MS	FAV
Fluoranthene µg/l	7.1	199	398
Heptachlor (c) µg/l	0.00010	0.26*	0.52*
Heptachlor epoxide (c) µg/l	0.00012	0.27*	0.53*
Hexachlorobenzene (c) µg/l	0.000061	none	none
Iron µg/l	221	242	485

The CS shall not exceed:

$\exp.(1.273[\ln(\text{total hardness mg/l})-4.705])$ .

The MS shall not exceed:

$\exp.(1.273[\ln(\text{total hardness mg/l})-1.460])$ .

The FAV shall not exceed:

$\exp.(1.273[\ln(\text{total hardness mg/l})-0.7643])$ .

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

### Lead standard in µg/l at various hardness values

#### Hardness mg/l

50	1.3	34	68
100	3.2	82	164
200	7.7	197	396

### Class 2A Standards continued

	CS	MS	FAV
Lindane (c) µg/l (Hexachlorocyclohexane, gamma-)	0.0087	1.0*	2.0*
Manganese µg/l	138	4643	9285
Mercury, total µg/l	0.0069	2.4*	4.9*
Methylene chloride (c) mg/l (Dichloromethane)	45	9600*	19200*
Naphthalene µg/l	81	409	818
Nickel, total µg/l			

The CS shall not exceed the human health-based criterion of 297 µg/l.

For waters with total hardness values less than 212 mg/l, the CS

shall not exceed:

$\exp.(0.846[\ln(\text{total hardness mg/l})+1.1645])$ .

The MS shall not exceed:  $\exp.(0.846[\ln(\text{total hardness mg/l})+3.3612])$ .  
 The FAV shall not exceed:  $\exp.(0.846[\ln(\text{total hardness mg/l})+4.0543])$ .

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

Nickel standards in  $\mu\text{g/l}$  at various hardness values

Hardness mg/l			
50	88	789	1578
100	158	1418	2836
200	283	2549	5098

Class 2A Standards continued

	CS	MS	FAV
Oil $\mu\text{g/l}$	500	5000	10000
Parathion $\mu\text{g/l}$	0.013	0.07	0.13
Pentachlorophenol $\mu\text{g/l}$			
The CS shall not exceed:	0.93.		
The MS shall not exceed:	$\exp.(1.005[\text{pH}]-4.830)$ .		
The FAV shall not exceed:	$\exp.(1.005[\text{pH}]-4.1373)$ .		

Pentachlorophenol standards in  $\mu\text{g/l}$  at various pH values

pH			
7.0	0.93	9.1	18
7.5	0.93	15	30
8.0	0.93	25	50

pH value not less than 6.5 nor greater than 8.5

Class 2A Standards continued

	CS	MS	FAV
Phenanthrene $\mu\text{g/l}$	2.1	29	58
Phenol $\mu\text{g/l}$	123	2214	4428
Polychlorinated biphenyls, total (c) $\mu\text{g/l}$	0.000014	1.0*	2.0*
Radioactive materials			

Not to exceed the lowest concentrations permitted to be discharged to an uncontrolled environment as prescribed by the appropriate authority having control over their use.

Class 2A Standards continued

	CS	MS	FAV
Selenium, total $\mu\text{g/l}$	5.0	20	40
Silver, total $\mu\text{g/l}$			
The CS shall not exceed:	0.12.		
The MS shall not exceed:	$\exp.(1.72[\ln(\text{total hardness mg/l})]-7.2156)$ and		
The FAV shall not exceed:	$\exp.(1.72[\ln(\text{total hardness$		

**KEY: PROPOSED RULES SECTION** — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." **ADOPTED RULES SECTION** — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

# Adopted Rules

mg/l)]-6.52) provided that the MS and FAV shall be no less than 0.12 µg/l.

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

### Silver standards in µg/l at various hardness values

Hardness mg/l			
50	n/a	0.61	1.2
100	n/a	2.0	4.1
200	n/a	6.7	13

Temperature  
No material increase

### Class 2A Standards continued

	CS	MS	FAV
1,1,2,2-Tetrachloroethane (c) µg/l	1.1	1127*	2253*
Tetrachloroethylene (c) µg/l	3.8	428*	857*
Thallium µg/l	0.28	64	128
Toluene µg/l	253	1352	2703
Toxaphene (c) µg/l	0.00031	0.73*	1.5*
1,1,1-Trichloroethane µg/l	263	2628	5256
1,1,2-Trichloroethylene (c) µg/l	25	6988*	13976*
2,4,6-Trichlorophenol µg/l	2.0	102	203
Turbidity value NTUs	10	none	none
Vinyl chloride (c) µg/l	0.17	none	none
Xylene, total m, p, and o µg/l	166	1407	2814
Zinc, total µg/l			

- The CS shall not exceed:  $\exp.(0.8473[\ln(\text{total hardness mg/l})+0.7615])$ .
- The MS shall not exceed:  $\exp.(0.8473[\ln(\text{total hardness mg/l})+0.8604])$ .
- The FAV shall not exceed:  $\exp.(0.8473[\ln(\text{total hardness mg/l})+1.5536])$ .

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

### Zinc standards in µg/l at various hardness values

Hardness mg/l			
50	59	65	130
100	106	117	234
200	191	211	421

Subp. 3. **Class 2Bd waters.** The quality of Class 2Bd surface waters shall be such as to permit the propagation and maintenance of a healthy community of cool or warm water sport or commercial fish and associated aquatic life and their habitats. These waters shall be suitable for aquatic recreation of all kinds, including bathing, for which the waters may be usable. This class of surface waters are also protected as a source of drinking water. The standards for waters listed in ~~item A~~ subpart 2 shall apply to these waters except as listed below, with substances considered carcinogenic and having human health-based standards followed by a (c). Part 7050.0222, subpart 7, item E, should be referenced for FAV and MS values noted with an asterisk (\*):



## Adopted Rules

Substance or Characteristic	Class 2Bd Standard		
	CS	MS	FAV
(c) = carcinogen	CS	MS	FAV
Alachlor (c) µg/l	4.2	800*	1600*
Aluminum, total µg/l	125	1072	2145
Ammonia			
un-ionized as N µg/l	40	none	none

The percent un-ionized ammonia can be calculated for any temperature and pH as described in subpart 2.

### Class 2Bd Standards continued

	CS	MS	FAV
Benzene (c) µg/l	11	4487*	8974*
Bromoform µg/l	41	2900	5800
Cadmium, total µg/l			

The CS shall not exceed:  $\exp.(0.7852[\ln(\text{total hardness mg/l})]-3.49)$ .

The MS shall not exceed:  $\exp.(1.128[\ln(\text{total hardness mg/l})]-1.685)$ .

The FAV shall not exceed:  $\exp.(1.128[\ln(\text{total hardness mg/l})]-0.9919)$ .

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

### Cadmium standards in µg/l at various hardness values

Hardness mg/l	CS	MS	FAV
50	0.66	15	31
100	1.1	33	67
200	2.0	73	146

### Class 2Bd Standards continued

	CS	MS	FAV
Chlordane (c) µg/l	0.00029	1.2*	2.4*
Chloroform (c) µg/l	55	2235	4471
Color value	none	none	none
Dissolved oxygen mg/l	5 as a daily minimum	none	none

This dissolved oxygen standard requires compliance with the standard 50 percent of the days at which the flow of the receiving water is equal to the lowest weekly flow with a once in ten year recurrence interval (7Q10).

### Class 2Bd Standards continued

	CS	MS	FAV
DDT (c) µg/l	0.0017	0.55*	1.1*
1,2-Dichloroethane (c) µg/l	3.8	45050*	90100*
Dieldrin (c) µg/l	0.000026	1.3*	2.5*
Endosulfan µg/l	0.029	0.28	0.56
Endrin µg/l	0.016	0.090	0.18
Fecal coliform organisms			

Not to exceed 200 organisms per 100 milliliters as a geometric mean of not less than five samples in any calendar month, nor

**KEY: PROPOSED RULES SECTION** — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." **ADOPTED RULES SECTION** — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

# Adopted Rules

shall more than ten percent of all samples taken during any calendar month individually exceed 2,000 organisms per 100 milliliters. The standard applies only between March 1 and October 31.

## Class 2Bd Standards continued

	CS	MS	FAV
Fluoranthene µg/l	20	199	398
Heptachlor (c) µg/l	0.00039	0.26*	0.52*
Heptachlor epoxide (c) µg/l	0.00048	0.27*	0.53*
Hexachlorobenzene (c) µg/l	0.00024	none	none
<del>Iron µg/l</del>	<del>1245</del>	<del>1363</del>	<del>2726</del>
Lindane (c) µg/l (Hexachlorocyclohexane gamma-)	0.032	4.4*	8.8*
Methylene chloride (c) µg/l (Dichloromethane)	46	9600*	19200*
pH value	Not less than 6.5 nor greater than 9.0		
Pentachlorophenol µg/l	The CS shall not exceed: 1.9 µg/l. The MS shall not exceed: exp.(1.005[pH]-4.830). The FAV shall not exceed: exp.(1.005[pH]-4.1373).		

### Pentachlorophenol standards in µg/l at various pH values

pH	CS	MS	FAV
7.0	1.9	9.1	18
7.5	1.9	15	30
8.0	1.9	25	50

## Class 2Bd Standards continued

	CS	MS	FAV
Polychlorinated biphenyls, total (c) µg/l	0.000029	1.0*	2.0*
Silver, total µg/l	The CS shall not exceed: 1.0. The MS shall not exceed: exp.(1.72[ln(total hardness mg/l)]-7.2156) and The FAV shall not exceed: exp.(1.72[ln(total hardness mg/l)]-6.52) provided that the MS and FAV shall be no less than 1.0 µg/l.		

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

### Silver standards in µg/l at various hardness values

Hardness mg/l	CS	MS	FAV
50	n/a	1.0	1.2
100	n/a	2.0	4.1
200	n/a	6.7	13

### Temperature

5°F above natural in streams and 3°F above natural in lakes, based on monthly average of the maximum daily temperature, except in no case shall it exceed the daily average temperature of 86°F.

Class 2Bd Standards continued

	CS	MS	FAV
1,1,2,2-Tetrachloroethane (c) µg/l	1.5	1127*	2253*
Toxaphene (c) µg/l	0.0013	0.73*	1.5*
Turbidity value NTUs	25	none	none
Vinyl chloride (c) µg/l	0.18	none	none

Subp. 4. **Class 2B waters.** The quality of Class 2B surface waters shall be such as to permit the propagation and maintenance of a healthy community of cool or warm water sport or commercial fish and associated aquatic life, and their habitats. These waters shall be suitable for aquatic recreation of all kinds, including bathing, for which the waters may be usable. This class of surface water is not protected as a source of drinking water. The applicable standards are given below, with substances considered carcinogenic and having human health-based standards followed by a (c). Part 7050.0222, subpart 7, item E, should be referenced for FAV and MS values noted with an asterisk (\*):

Substance or Characteristic	Class 2B Standard		
	CS	MS	FAV
(c) = carcinogen			
Acenaphthene µg/l	12	41	81
Acrylonitrile (c) µg/l	0.89	1140*	2281*
Alachlor µg/l	59	800	1600
Aluminum, total µg/l	125	1072	2145
Ammonia un-ionized as N µg/l	40	none	none

The percent un-ionized ammonia can be calculated for any temperature and pH as described in subpart 2.

Class 2B Standards continued

	CS	MS	FAV
Anthracene µg/l	0.029	0.78	1.6
Antimony µg/l	31	90	180
Arsenic, total µg/l	53	360	720
Atrazine (c) µg/l	10	323	645
Benzene µg/l	114	4487	8974
Bromoform µg/l	466	2900	5800
Cadmium, total µg/l			

- The CS shall not exceed:  $\text{exp.}(0.7852[\ln(\text{total hardness mg/l})]-3.49)$ .
- The MS shall not exceed:  $\text{exp.}(1.128[\ln(\text{total hardness mg/l})]-1.685)$ .
- The FAV shall not exceed:  $\text{exp.}(1.128[\ln(\text{total hardness mg/l})]-0.9919)$ .

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

Cadmium standards in µg/l at various hardness values

Hardness mg/l	CS	MS	FAV
50	0.66	15	31
100	1.1	33	67
200	2.0	73	146

**KEY: PROPOSED RULES SECTION** — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." **ADOPTED RULES SECTION** — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

# Adopted Rules

## Class 2B Standards continued

	CS	MS	FAV
Carbon tetra-chloride (c) µg/l	5.9	1750*	3500*
Chlordane (c) µg/l	0.00029	1.2*	2.4*
Chloride mg/l	230	860	1720
Chlorine, total residual µg/l	6	19	38

Applies to conditions of continuous exposure, where continuous exposure refers to chlorinated effluents that are discharged for more than a total of two hours in any 24-hour period.

## Class 2B Standards continued

	CS	MS	FAV
Chlorobenzene µg/l (Monochlorobenzene)	10	423	846
Chloroform µg/l	224	2235	4471
Chlorpyrifos µg/l	0.041	0.083	0.17
Chromium +3, total µg/l			

- The CS shall not exceed:  $\exp.(0.819[\ln(\text{total hardness mg/l})+1.561])$ .
- The MS shall not exceed:  $\exp.(0.819[\ln(\text{total hardness mg/l})+3.688])$ .
- The FAV shall not exceed:  $\exp.(0.819[\ln(\text{total hardness mg/l})+4.38])$ .

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

Chromium +3 standards in µg/l at various hardness values

Hardness mg/l	CS	MS	FAV
50	117	984	1966
100	207	1737	3469
200	365	3064	6120

## Class 2B Standards continued

	CS	MS	FAV
Chromium +6, total µg/l	11	16	32
Cobalt µg/l	5	436	872
Copper, total µg/l			

- The CS shall not exceed:  $\exp.(0.62[\ln(\text{total hardness mg/l})-0.57])$ .
- The MS shall not exceed:  $\exp.(0.9422[\ln(\text{total hardness mg/l})-1.464])$ .
- The FAV shall not exceed:  $\exp.(0.9422[\ln(\text{total hardness mg/l})-0.7703])$ .

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

Copper standards in µg/l at various hardness values

Hardness mg/l	CS	MS	FAV
50	6.4	9.2	18
100	9.8	18	35
200	15	34	68

Class 2B Standards continued

	CS	MS	FAV
Cyanide, free µg/l	5.2	22	45
Dissolved oxygen mg/l	5 as a daily minimum	none	none

This standard applies to all Class 2 waters except for the reach of the Mississippi River from the outlet of the metro wastewater treatment works in Saint Paul (River Mile 835) to Lock and Dam No. 2 at Hastings (River Mile 815). For this reach of the Mississippi River the standard is not less than five milligrams per liter as a daily average from April 1 through November 30, and not less than four milligrams per liter at other times.

This dissolved oxygen standard requires compliance with the standard 50 percent of the days at which the flow of the receiving water is equal to the lowest weekly flow with a once in ten year recurrence interval (7Q10).

Class 2B Standards continued

	CS	MS	FAV
DDT (c) µg/l	0.0017	0.55*	1.1*
1,2-Dichloroethane (c) µg/l	190	45050*	90100*
Dieldrin (c) µg/l	0.000026	1.3*	2.5*
Di-2-Ethylhexyl phthalate (c) µg/l	2.1	none	none
Di-n-Octyl phthalate µg/l	30	825	1650
Endosulfan µg/l	0.031	0.28	0.56
Endrin µg/l	0.016	0.090	0.18
Ethylbenzene µg/l	68	1859	3717
Fecal coliform organisms			

Not to exceed 200 organisms per 100 milliliters as a geometric mean of not less than five samples in any calendar month, nor shall more than ten percent of all samples taken during any calendar month individually exceed 2,000 organisms per 100 milliliters. The standard applies only between March 1 and October 31.

Class 2B Standards continued

	CS	MS	FAV
Fluoranthene µg/l	20	199	398
Heptachlor (c) µg/l	0.00039	0.26*	0.52*
Heptachlor epoxide (c) µg/l	0.00048	0.27*	0.53*
Hexachlorobenzene (c) µg/l	0.00024	none	none
Iron µg/l	1245	1363	2726
Lead, total µg/l			

The CS shall not exceed:  $\exp.(1.273[\ln(\text{total hardness mg/l})]-4.705)$ .  
 The MS shall not exceed:  $\exp.(1.273[\ln(\text{total hardness mg/l})]-1.460)$ .  
 The FAV shall not exceed:  $\exp.(1.273[\ln(\text{total hardness mg/l})]-0.7643)$ .

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

**KEY: PROPOSED RULES SECTION** — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." **ADOPTED RULES SECTION** — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

# Adopted Rules

## Lead standards in µg/l at various hardness values

### Hardness mg/l

50	1.3	34	68
100	3.2	82	164
200	7.7	197	396

### Class 2B Standards continued

	CS	MS	FAV
Lindane (c) µg/l (Hexachlorocyclohexane gamma-)	0.036	4.4*	8.8*
Manganese µg/l	491	4643	9285
Mercury, total µg/l	0.0069	2.4*	4.9*
Methylene chloride µg/l (Dichloromethane)	1561	9600	19200
Naphthalene µg/l	81	409	818
Nickel, total µg/l			

- The CS shall not exceed:  $\exp.(0.846[\ln(\text{total hardness mg/l})+1.1645])$ .
- The MS shall not exceed:  $\exp.(0.846[\ln(\text{total hardness mg/l})+3.3612])$ .
- The FAV shall not exceed:  $\exp.(0.846[\ln(\text{total hardness mg/l})+4.0543])$ .

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

## Nickel standards in µg/l at various hardness values

### Hardness mg/l

50	88	789	1578
100	158	1418	2836
200	283	2549	5098

### Class 2B Standards continued

	CS	MS	FAV
Oil µg/l	500	5000	10000
Parathion µg/l	0.013	0.07	0.13
Pentachlorophenol µg/l			

For waters with pH values greater than 6.95, the CS shall not exceed the human health-based criterion of 5.5 µg/l. For waters with pH values less than 6.96,

- The CS shall not exceed:  $\exp.(1.005[\text{pH}]-5.290)$ .
- The MS shall not exceed:  $\exp.(1.005[\text{pH}]-4.830)$ .
- The FAV shall not exceed:  $\exp.(1.005[\text{pH}]-4.1373)$ .

## Pentachlorophenol standards in µg/l at various pH values

pH	CS	MS	FAV
7.0	5.5	9.1	18
7.5	5.5	15	30
8.0	5.5	25	50

pH value  
not less than 6.5  
nor greater than 9.0

Class 2B Standards continued

	CS	MS	FAV
Phenanthrene µg/l	2.1	29	58
Phenol µg/l	123	2214	4428
Polychlorinated biphenyls, total (c) µg/l	0.000029	1.0*	2.0*
Radioactive materials			

Not to exceed the lowest concentration permitted to be discharged to an uncontrolled environment as prescribed by the appropriate authority having control over their use.

Class 2B Standards continued

	CS	MS	FAV
Selenium, total µg/l	5.0	20	40
Silver, total µg/l			
The CS shall not exceed:	1.0.		
The MS shall not exceed:	exp.(1.72[ln(total hardness and		
The FAV shall not exceed:	exp.(1.72[ln(total hardness		
	mg/l)]-6.52) provided that the		
	MS and FAV shall be no		
	less than 1.0 µg/l.		

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

Silver standards in µg/l at various hardness values

Hardness mg/l	CS	MS	FAV
50	n/a	1.0	1.2
100	n/a	2.0	4.1
200	n/a	6.7	13

Temperature

5°F above natural in streams and 3°F above natural in lakes, based on monthly average of the maximum daily temperature, except in no case shall it exceed the daily average temperature of 86°F.

Class 2B Standards continued

	CS	MS	FAV
1,1,2,2-Tetrachloroethane (c) µg/l	13	1127	2253
Tetrachloroethylene (c) µg/l	8.9	428	857
Thallium µg/l	0.56	64	128
Toluene µg/l	253	1352	2703
Toxaphene (c) µg/l	0.0013	0.73*	1.5*
1,1,1-Trichloroethane µg/l	263	2628	5256
1,1,2-Trichloroethylene (c) µg/l	120	6988	13976
2,4,6-Trichlorophenol µg/l	2.0	102	203
Turbidity value NTUs	25	none	none
Vinyl chloride (c) µg/l	9.2	none	none

**KEY: PROPOSED RULES SECTION** — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." **ADOPTED RULES SECTION** — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

## Adopted Rules

	CS	MS	FA
Xylene, total m, p, and o µg/l	166	1407	2814
Zinc, total µg/l			
The CS shall not exceed:	exp.(0.8473[ln(total hardness mg/l)]+0.7615).		
The MS shall not exceed:	exp.(0.8473[ln(total hardness mg/l)]+0.8604).		
The FAV shall not exceed:	exp.(0.8473[ln(total hardness mg/l)]+1.5536).		

For hardness values greater than 400 mg/l, 400 mg/l shall be used in the calculation of the standard.

### Zinc standards in µg/l at various hardness values

Hardness mg/l			
50	59	65	130
100	106	117	234
200	191	211	421

Subp. 6. **Class 2D waters.** The quality of Class 2D wetlands shall be such as to permit the propagation and maintenance of a healthy community of aquatic and terrestrial species indigenous to wetlands, and their habitats. Wetlands also add to the biological diversity of the landscape. These waters shall be suitable for boating and other forms of aquatic recreation for which the wetland may be usable. The standards for Class 2B waters listed under subpart 4 shall apply to these waters except as listed below:

Substance or Characteristic	Class 2D Standard
Dissolved oxygen	If background is less than 5.0 mg/l as a daily minimum, maintain background*
pH	Maintain background
Temperature	Maintain background

\*"Maintain background" means the concentration of the water quality substance or characteristic shall not deviate from the range of natural background concentrations or conditions such that there is a potential significant adverse impact to the designated uses.

Activities in wetlands which involve the normal farm practices of planting with annually seeded crops or the utilization of a crop rotation seeding of pasture grasses or legumes, including the recommended applications of fertilizer and pesticides, are excluded from these standards in this subpart and the wetland standards in parts 7050.0224, subpart 4; 7050.0225, subpart 2; and 7050.0227. All other activities in these wetlands must meet water quality standards.

### 7050.0420 TROUT WATERS.

Trout lakes identified in part 6262.0400, subpart 3 2, as amended through July 19, 1993, are classified as trout waters and are listed under part 7050.0470. Trout streams and their tributaries within the sections specified that are identified in part 6262.0400, subpart 5 4, as amended through July 19, 1993, are classified as trout waters. Trout streams are listed in part 7050.0470. Other lakes that are classified as trout waters are listed in part 7050.0470. All trout waters are classified as Class 1B, 2A, 3B, 3C, 4A, 4B, 5, and 6 waters.

### 7050.0470 CLASSIFICATIONS FOR WATERS IN MAJOR SURFACE WATER DRAINAGE BASINS.

Subpart 1. **Lake Superior Basin.** The water use classifications for the listed waters in the Lake Superior Basin are as identified in items A, B, and D.

#### B. Lakes:

- (41) Enterprise Mine Pit Lake, (T.58, R.17, S.5): 1C, 2Bd, 3B;
- (42) Esther Lake, (T.63, R.3E, S.6; T.64, R.3E, S.31): 1B, 2A, 3B;
- (43) (42) \*Fan Lake, [11/5/84P] (T.65, R.2E): 1B, 2Bd, 3A;
- (44) (43) Flour Lake, (T.64, R.1E, 1W): 1B, 2A, 3B;
- (45) (44) Forsyth Mine Pit, (T.58, R.19W, S.11): 1B, 2A, 3B;



- (46) ~~(45)~~ Fowl Lake, North, (T.64, 65, R.3E): 1B, 2Bd, 3A;  
(47) ~~(46)~~ Fowl Lake, South, (T.64, 65, R.3E): 1B, 2Bd, 3A;  
(48) ~~(47)~~ Fraser Mine Pit Lake, (T.58, R.20, S.23): 1C, 2Bd, 3B, until the city of Chisholm no longer uses Fraser Mine Pit Lake as a water supply source for its public water system, and then the classification is identified in part 7050.0430;  
(49) ~~(48)~~ \*Gadwall Lake, [11/5/84P] (T.64, R.2E, S.3): 1B, 2A, 3B;  
(50) ~~(49)~~ \*Gaskin Lake, [11/5/84P] (T.64, R.2): 1B, 2A, 3B;  
(51) ~~(50)~~ \*Gogebic Lake, [11/5/84P] (T.65, R.2E, S.30, 31): 1B, 2A, 3B;  
(52) ~~(51)~~ Goldeneye (Duck) Lake, (T.59, R.6W, S.15): 1B, 2A, 3B;  
(53) ~~(52)~~ \*Greenwood Lake, [3/7/88R] (T.64, R.2E): 1B, 2A, 3B;  
(54) ~~(53)~~ Hungry Jack Lake, (T.64, 65, R.1): 1B, 2A, 3B;  
(55) ~~(54)~~ \*Jake (Jackel) Lake, [11/5/84P] (T.64, R.1W, S.28): 1B, 2A, 3B;  
(56) ~~(55)~~ Jim Lake (Jerry Lake), (T.64, R.1E): 1B, 2A, 3B;  
(57) ~~(56)~~ Judson Mine Pit, (T.58, R.19W, S.20, 29): 1B, 2A, 3B;  
(58) ~~(57)~~ Junco Lake, (T.62, R.1W, S.11, 12, 13): 1B, 2A, 3B;  
(59) ~~(58)~~ \*Kemo Lake, [3/7/88R] (T.63, R.1): 1B, 2A, 3B;  
(60) ~~(59)~~ Kimball Lake, (T.62, R.2E, S.7, 8, 17): 1B, 2A, 3B;  
(61) ~~(60)~~ Leo Lake, (T.64, R.1W, S.4, 5): 1B, 2A, 3B;  
(62) ~~(61)~~ \*Lily Lakes, [11/5/84P] (T.65, R.2E): 1B, 2Bd, 3A;  
(63) ~~(62)~~ Lima Lake, (T.64, R.1W, S.35): 1B, 2A, 3B;  
(64) ~~(63)~~ \*Lizzie Lake, [11/5/84P] (T.64, R.1W, S.7, 18): 1B, 2A, 3B;  
(65) ~~(64)~~ Loaine (Sand) Lake, (T.54, R.12W, S.16, 17): 1B, 2A, 3B;  
(66) ~~(65)~~ Loft Lake, (T.64, R.3E, S.21): 1B, 2A, 3B;  
(67) ~~(66)~~ Lost Lake, (T.63, R.3E, S.32): 1B, 2A, 3B;  
(68) ~~(67)~~ Margaret Lake, (T.64, R.3E, S.27, 28, 33, 34): 1B, 2A, 3B;  
(69) ~~(68)~~ McFarland Lake, (T.64, R.3E): 1B, 2A, 3B;  
(70) ~~(69)~~ Mink Lake, (T.62, R.2E, S.8): 1B, 2A, 3B;  
(71) ~~(70)~~ \*Misquah Lake, [11/5/84P] (T.64, R.1): 1B, 2A, 3B;  
(72) ~~(71)~~ Missabe Mountain Mine Pit Lake, (T.58, R.17, S.8): 1C, 2Bd, 3B;  
(73) ~~(72)~~ Moosehorn Lake, (T.63, R.3E, S.36; T.63, R.4E, S.31): 1B, 2A, 3B;  
(74) ~~(73)~~ \*Moose Lake, [11/5/84P] (T.65, R.2E, 3E): 1B, 2A, 3A;  
(75) ~~(74)~~ \*Morgan Lake, [11/5/84P] (T.64, R.1W, S.27, 28): 1B, 2A, 3B;  
(76) ~~(75)~~ Morton Mine Pit Lake, (T.57, R.21, S.10, 11, 14): 1C, 2Bd, 3B;  
(77) ~~(76)~~ \*Moss Lake, [3/7/88R] (T.65, R.1): 1B, 2A, 3B;  
(78) ~~Mountain Iron Mine Pit Lake, (T.58, R.18, S.3, 4): 1C, 2Bd, 3B;~~  
(79) ~~(77)~~ \*Mountain Lake, [11/5/84P] (T.65, R.1E, 2E): 1B, 2A, 3B;  
(80) ~~(78)~~ Muckwa Lake, (T.63, R.1E, S.21, 28): 1B, 2A, 3B;  
(81) ~~(79)~~ \*Mulligan Lake, [11/5/84P] (T.63, R.3W, S.1, 12): 1B, 2A, 3B;  
(82) ~~(80)~~ Musquash Lake, (T.63, R.1E, S.20, 28, 29): 1B, 2A, 3B;

**KEY: PROPOSED RULES SECTION** — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." **ADOPTED RULES SECTION** — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

## Adopted Rules

---

---

- ~~(83)~~ (81) Normanna Lake, (T.52, R.13W, S.7, 8): 1B, 2A, 3B;  
~~(84)~~ (82) Olson Lake, (T.62, R.1W, S.9, 16): 1B, 2A, 3B;  
~~(85)~~ (83) \*Omega Lake (Omega Lake), [11/5/84P] (T.64, R.2, 3): 1B, 2A, 3B;  
~~(86)~~ (84) \*Otto Lake, Lower, [11/5/84P] (T.64, R.2): 1B, 2A, 3B;  
~~(87)~~ (85) Pancore (Lost) Lake, (T.61, R.4W, S.22, 27): 1B, 2A, 3B;  
~~(88)~~ (86) \*Partridge Lake, [11/5/84P] (T.65, R.1): 1B, 2A, 3B;  
~~(89)~~ (87) \*Pemmican Lake, [11/5/84P] (T.65, R.2E, S.22): 1B, 2A, 3B;  
~~(90)~~ (88) \*Pike Lake, West, [11/5/84P] (T.65, R.2E): 1B, 2A, 3B;  
~~(91)~~ (89) Pine Lake, (T.63, R.1W, S.35, 36): 1B, 2A, 3B;  
~~(92)~~ (90) \*Pine Lake, [11/5/84P] (T.64, 65, R.1E, 2E, 3E): 1B, 2A, 3B;  
~~(93)~~ (91) Pine Mountain Lake, (T.63, R.1E, S.26, 27, 34, 35): 1B, 2A, 3B;  
~~(94)~~ (92) Poplar Lake, (T.64N, R.1, 2W): 1C, 2Bd, 3B;  
~~(95)~~ (93) \*Ram Lake, [11/5/84P] (T.63, R.1W, S.9, 10): 1B, 2A, 3B;  
~~(96)~~ (94) \*Rose Lake, [11/5/84P] (T.65, R.1): 1B, 2A, 3B;  
~~(97)~~ (95) St. James Mine Pit, (T.58, R.15W, S.3, 4): 1B, 2A, 3B;  
~~(98)~~ (96) Saint Mary's Lake, (T.57, R.17, S.9, 16, 17): 1C, 2Bd, 3B;  
~~(99)~~ (97) \*Sawbill Lake, [11/5/84P] (T.62, 63, R.4): 1B, 2Bd, 3B;  
~~(100)~~ ~~Scranton Mine Pit Lake (Hull-Rust-Mahoning-Scranton-Susquehanna)~~, (T.57, R.20, S.6, 7; T.57, R.21, S.1, 2, 11, 12): 1C, 2Bd, 3B;  
~~(101)~~ (98) Section 8 Lake, (T.59, R.7W, S.8): 1B, 2A, 3B;  
~~(102)~~ (99) Seven Beaver Lake, (T.58, R.11, 12): 2B, 3A;  
~~(103)~~ (100) Shady, North, Lake, (T.64, R.2E, S.21, 22): 1B, 2A, 3B;  
~~(104)~~ (101) Shoe Lake, (T.64, 2E, S.30): 1B, 2A, 3B;  
~~(105)~~ (102) Sled Lake, (T.63, R.1W, S.3): 1B, 2A, 3B;  
~~(106)~~ (103) \*Sock Lake, [11/5/84P] (T.65, R.2W, S.26): 1B, 2A, 3B;  
~~(107)~~ (104) \*South Lake, [11/5/84P] (T.65, R.1, 2): 1B, 2A, 3B;  
~~(108)~~ (105) Spring Hole Lake, (T.55, R.14W, S.14): 1B, 2A, 3B;  
~~(109)~~ (106) Squaw Lake, (T.63, R.3E, S.6; T.64, R.3E, S.31): 1B, 2A, 3B;  
~~(110)~~ (107) \*State Lake, [11/5/84P] (T.63, 64, R.2): 1B, 2A, 3B;  
~~(111)~~ (108) Steer Lake, (T.60, R.6W, S.32): 1B, 2A, 3B;  
~~(112)~~ (109) \*Superior, Lake, [11/5/84R] (T.49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, R.14W-7E): 1B, 2A, 3A;  
~~(113)~~ (110) \*Swan Lake, [11/5/84P] (T.63, R.2): 1B, 2A, 3B;  
~~(114)~~ (111) Talus Lake, (T.63, R.1W, S.26, 27): 1B, 2A, 3B;  
~~(115)~~ (112) Thompson Lake, (T.62, R.1W, S.19, 20, 29, 30): 1B, 2A, 3B;  
~~(116)~~ (113) Thrasher Lake, (T.63, R.1W, S.31): 1B, 2A, 3B;  
~~(117)~~ (114) Thrush Lake, (T.63, R.1W, S.31): 1B, 2A, 3B;  
~~(118)~~ (115) \*Topper Lake, [11/5/84P] (T.65, R.2W, S.27): 1B, 2A, 3B;  
~~(119)~~ (116) \*Trout Lake, [3/7/88R] (T.62, R.2E): 1B, 2A, 3B;  
~~(120)~~ (117) \*Trout Lake, Little, [11/5/84P] (T.63, R.1): 1B, 2A, 3B;  
~~(121)~~ (118) Turnip Lake, (T.64, R.1E, S.24): 1B, 2A, 3B;  
~~(122)~~ (119) Twin Lake, (T.50, R.14W, S.28, 33): 1B, 2A, 3B;

- (~~123~~) (120) \*Twin Lake, Upper (Bear Lake), [3/7/88R] (T.56, R.8): 1B, 2A, 3B;  
(~~124~~) (121) Unnamed Lake, (T.63, R.3E, S.20, 21, 28, 29): 1B, 2A, 3B;  
(~~125~~) (122) Unnamed Lake, (T.63, R.1W, S.31): 1B, 2A, 3B;  
(~~126~~) (123) \*Vale Lake, [11/5/84P] (T.64, R.2E, S.3): 1B, 2A, 3B;  
(~~127~~) (124) \*Vista Lake, [11/5/84P] (T.64, R.1): 1B, 2A, 3B;  
(~~128~~) (125) \*Wanighan Lake (Trap Lake), [11/5/84P] (T.63, 64, R.2, 3): 1B, 2A, 3B;  
(~~129~~) (126) \*Wee Lake, [11/5/84P] (T.62, R.4W, S.13): 1B, 2A, 3B;  
(~~130~~) (127) \*Wench Lake, [11/5/84P] (T.63, R.3W, S.7, 18): 1B, 2A, 3B;  
(~~131~~) (128) \*Winchell Lake, [11/5/84P] (T.64, R.2, 3): 1B, 2A, 3B;  
(~~132~~) (129) \*All other lakes in the Boundary Waters Canoe Area Wilderness [11/5/84P]: 1B, 2Bd, 3B; and  
(~~133~~) (130) \*All wetlands in the Boundary Waters Canoe Area Wilderness [11/5/84P]: 2D.

C. Calcareous Fens: None currently listed.

Subp. 2. **Lake of the Woods Basin.** The water use classifications for the listed waters in Lake of the Woods Basin are as identified in items A, B, and D.

C. Calcareous Fens: None currently listed.

Subp. 3. **Red River of the North Basin.** The water use classifications for the listed waters in the Red River of the North Basin are as identified in items A, B, C, and D.

C. Calcareous Fens:

Subp. 4. **Upper Mississippi River Basin.** The water use classifications for the listed waters in the Upper Mississippi River Basin are as identified in items A, B, and D.

C. Calcareous Fens: None currently listed.

Subp. 5. **Minnesota River Basin.** The water use classifications for the listed waters in the Minnesota River Basin are as identified in items A, B, C, and D.

C. Calcareous Fens:

Subp. 6. **Saint Croix River Basin.** The water use for the listed waters in the Saint Croix River Basin are as identified in items A, B, and D.

C. Calcareous Fens: None currently listed.

Subp. 7. **Lower Mississippi River Basin.** The water use classifications for the listed waters in the Lower Mississippi River Basin are as identified in items A, B, and C.

A. Streams:

(66) Hay Creek, (T.111, R.15, S.4; T.112, R.14, S.19; T.112, R.15, S.1, 12, 13, 23, 24, 26, 27, 33, 34; ~~T.113, R.15, S.24, 25, 36~~): 1B, 2A, 3B;

C. Calcareous Fens:

Subp. 8. **Cedar-Des Moines Rivers Basin.** The water use classifications for the listed waters in the Cedar-Des Moines Rivers Basin are as identified in items A, C, and D.

B. Lakes: None currently ~~classified~~ listed.

C. Calcareous Fens:

Subp. 9. **Missouri River Basin.** The water use classifications for the listed waters in the Missouri River Basin are as identified in items A and C.

B. Lakes: None currently ~~classified~~ listed.

**KEY: PROPOSED RULES SECTION** — Underlining indicates additions to existing rule language. ~~Strike outs~~ indicate deletions from existing rule language. If a proposed rule is totally new, it is designated "all new material." **ADOPTED RULES SECTION** — Underlining indicates additions to proposed rule language. ~~Strike outs~~ indicate deletions from proposed rule language.

## Adopted Rules

### C. Calcareous Fens:

#### Notice of Withdrawal

The amendments to *Minnesota Rules*, parts 7050.0215, subpart 2; and 7050.0470, subpart 1, item B, subitems (41), (78), and (100); and the addition of T.113, R.15, S.24, 25, 36 to *Minnesota Rules*, part 7050.0470, subpart 7, item A, subitem (66); the addition of the total cyanide standard in part 7050.0220, subparts 3 and 4; the addition of the hexachlorocyclopentadiene secondary drinking water standard in part 7050.0220, subparts 3 and 4; and the addition of the iron and manganese aquatic life standards in *Minnesota Rules*, parts 7050.0220, subparts 3, 4, and 5; and 7050.0222, subparts 2, 3, and 4, as proposed at *State Register*, Volume 18, Number 3, pages 146-250, July 19, 1993 (18 SR 146) are withdrawn.

## Department of Transportation

### Adopted Permanent Rules Relating to Limousine Service and Permit Requirements

The rules proposed and published at *State Register*, Volume 18, Number 18, pages 1178-1189, November 1, 1993 (18 SR 1178), are adopted with the following modifications:

#### Rules as Adopted

##### 8880.0100 DEFINITIONS.

Subp. 12. **Luxury passenger automobile.** "Luxury passenger automobile" means a passenger automobile that does not have a meter and:

A. has a chassis and wheelbase that have been stretched beyond the length of the manufacturer's original specifications for the vehicle;

B. is ~~an executive~~ a sedan originally manufactured with four doors and a seating capacity of not more than five persons, excluding the driver, and equipped with interior furnishings and amenities controllable from the rear passenger seating area that are not normally provided in passenger automobiles, such as a television, musical sound system, telephone, or a driver-passenger intercom communication system or power-operated partition dividing the driver and passenger compartments that the manufacturer characterizes as a luxury automobile in sales or promotional material regularly distributed to the public; or

C. is ~~an executive~~ a sedan with a an original manufacturer's suggested retail price or present fair market value of more than \$25,000 that has four doors and a seating capacity of not more than five persons, excluding the driver.

Luxury passenger automobile does not include a bus, pickup truck, station wagon, taxicab, truck, or van.

Subp. 23. **Taxicab.** "Taxicab" means a motor vehicle, other than a limousine or bus, used for transporting passengers for compensation as determined by a meter; or by a flat rate schedule, according to the distance traveled, the time elapsed, and or number of passengers carried, irrespective of whether the transportation extends beyond the boundary lines of a city.

##### 8880.0300 GENERAL REQUIREMENTS.

Subp. 9. **Solicitation prohibited.** A limousine operator, its agents or employees, may not solicit passengers in person to provide limousine service at the time of, or shortly after, the solicitation. This subpart does not prohibit a limousine operator from advertising the service it provides in the normal course of business.

##### 8880.0600 LIMOUSINE IDENTIFICATION DECAL APPLICATION; FEES.

Subp. 2. **Information required.** Applicants for a limousine identification decal shall give the following information to the commissioner:

H. a representation that the motor vehicle is a luxury passenger automobile. If the applicant states that the vehicle is the kind of luxury passenger automobile described in part 8880.0100, subpart 12, item B, the commissioner may require a copy of the manufacturer's promotional material before issuing a limousine identification decal and the applicant must keep a copy of the promotional material in the vehicle's record described in part 8880.1000, subpart 4.

##### 8880.0800 DRIVER QUALIFICATIONS.

Subp. 5. **Driving record.** A driver must, for the past three years, have a driving record clear of:

C. a conviction for driving a motor vehicle without a valid license for the class of vehicle driven under *Minnesota Statutes*, section 171.02;

**8880.1300 SUSPENSION OR REVOCATION OF PERMIT.**

Subp. 2. ~~Definite suspension period.~~ Upon request of a political subdivision, the commissioner may immediately suspend a permit for 15 days for multiple violations of local ordinances.

Subp. 3. ~~Revocation.~~ The commissioner shall revoke a permit if the commissioner determines that a limousine operator:

Subp. 4. ~~3.~~ **Notice of suspension or revocation.** The commissioner shall mail notice of suspension or revocation of a permit by certified mail, return receipt requested, to the last known address of the limousine operator. The suspension or revocation is effective five days after it is mailed by the commissioner.

Subp. 5. ~~4.~~ **Demand for hearing.** A limousine operator whose permit is suspended under subpart 1 or 2, or revoked under subpart 3, may within 20 days after the notice of suspension or revocation was mailed, demand a hearing. Failure of a person to respond to a notice of suspension or revocation by demanding a hearing within 20 days after the date on which the notice was mailed constitutes a waiver of the person's right to appear and contest the suspension or revocation. A demand for hearing must be delivered or mailed to the Minnesota Department of Transportation, Office of Motor Carrier Services, Minnesota Administrative Truck Center, 100 Stockyards Road, South Saint Paul, Minnesota 55075, and must include a statement of the issues the limousine operator intends to raise at the hearing. A demand for hearing stays the effective date of a suspension under subpart 1, item B, or a revocation under subpart 2, item A.

Subp. 6. ~~5.~~ **Hearing.** Within 30 days of receiving a demand for hearing that meets the requirements of subpart 5, the commissioner shall initiate a contested case proceeding under *Minnesota Statutes*, chapter 14. If the administrative law judge makes a finding that the hearing was demanded solely for purposes of delay or that the demand for hearing was frivolous, the commissioner may assess the costs charged to the commissioner by the office of administrative hearings for the hearing to the limousine operator. Costs assessed by the commissioner must be collected in the manner that administrative penalties are collected under part 8880.1200.

Subp. 7. ~~6.~~ **Revocation final.** A revoked permit may not be reinstated. The holder of a revoked permit may not apply for a new permit for one year from the effective date of revocation.

---

---

**Official Notices**

Pursuant to the provisions of Minnesota Statutes §14.10, an agency, in preparing proposed rules, may seek information or opinion from sources outside the agency. Notices of intent to solicit outside opinion must be published in the *State Register* and all interested persons afforded the opportunity to submit data or views on the subject, either orally or in writing.

The *State Register* also publishes other official notices of state agencies, notices of meetings, and matters of public interest.

---

**Department of Agriculture****Food Inspection Division****Notice of Extension of Public Comment Period for Proposed Amendments to Rules Governing Poultry and Eggs and Purified Water**

**NOTICE IS HEREBY GIVEN** that the comment period for the proposed amendments to rules governing poultry and eggs and purified water, as published in the *State Register* on February 7, 1994, pages 1826-1831, (18 S.R. 1826), is extended until 4:30 p.m. May 11, 1994.

The original notice as published stated in error that the comment period ended on February 7, 1994. Anyone wishing a copy of the Notice of Intent to Adopt Rules Without a Public Hearing or the proposed rules may contact Carol Milligan, Minnesota Department of Agriculture, 90 West Plato Blvd., St. Paul, MN 55107, (612) 296-6906, Fax (612) 297-7678.

Dated: 22 March 1994

Elton Redalen  
Commissioner

## Official Notices

---

### Department of Agriculture

#### Agronomy Services Division

#### Notice of Special Local Need Registration

Pursuant to *Minnesota Statutes* 18B.27 and Parts 1505.0870 - 1505.0930, the Minnesota Department of Agriculture, on March 31, 1994, issued a Special Local Need 24(c) registration for Poleguard, manufactured by Nortech Forest Products, St. Louis Park, MN, to be used to prevent woodpecker predation on utility poles.

A federal or state agency, a local unit of government, or any person or groups of persons filing with the commissioner a petition that contains the signatures and addresses of 500 or more individuals of legal voting age, shall have 30 days from publication of notice in the *State Register* to file written objections with the commissioner regarding the issuance of the special local need registration.

Objections may be submitted to: John C. Sierk, Minnesota Department of Agriculture, Agronomy Services Division, 90 West Plato Boulevard, St. Paul, MN 55107. Comment deadline is May 11, 1994.

### Board of Animal Health

#### Notice of Meeting of the Board

The Board of Animal Health meeting will be held on April 20, 1994 at 90 W Plato Blvd., St. Paul, Minnesota starting at 9:30 a.m.

### Board of Animal Health

#### Notice of Solicitation of Outside Information or Opinions Regarding Amendment to Minnesota Rules Governing Importation of Swine, Pseudorabies Control, Pseudorabies Requirements for Exhibition, Sale of Swine at Markets and Other Sales, Sale of Swine at State-Federal Markets, and Sale of Swine at Public Stockyards

**NOTICE IS HEREBY GIVEN** that the Minnesota Board of Animal Health is seeking information or opinions from sources outside the agency in preparing to propose the amendment of *Minnesota Rules*, parts

- 1700.2590 to 1700.3010 importation of swine,
- 1705.2400 to 1705.2530 pseudorabies control,
- 1715.0105 pseudorabies requirements for exhibition,
- 1715.0550 sale of swine at markets and other sales,
- 1715.0705 sale of swine at state-federal markets, and
- 1715.1450 sale of swine at public stockyards.

The adoption of the rules is authorized by *Minnesota Statutes*, sections 35.03 and 3.255, which requires the agency to adopt rules to protect the health of domestic animals and control pseudorabies in swine.

The issues that may be considered by the agency when the amended rules are proposed include recognition of qualified negative gene-altered vaccinated herd status, recognition of the differential pseudorabies tests for movement of swine, recognition of state and area pseudorabies status for movement of swine, requirements for movement of swine semen and embryos, movement of swine within and out of swine herds, surveillance testing in quarantined swine herds, movement of swine to approved premises, methods of quarantine release, identification of feeder pigs, testing schedules for qualified herds, and phasing out of controlled vaccinated herd status.

The Board of Animal Health has a standing pseudorabies advisory committee made up of members who represent the Minnesota Veterinary Medical Association, Minnesota Pork Producers Association, Minnesota Livestock Marketing Association, Minnesota Livestock Breeders Association, Minnesota State Cattlemen's Association, University of Minnesota College of Veterinary Medicine, University of Minnesota College of Agriculture Department of Animal Science, Minnesota Purebred Swine Producers Association, Minnesota Feeder Pig Association, Minnesota Farm Bureau, Minnesota Farmer's Union, and the United States Department of Agriculture Animal and Plant Inspection Service - Veterinary Services Division.

This committee has been consulted by the Board and has had an active voice in the proposal of these amendments. A meeting of this committee will be scheduled for Friday June 10, 1994, in order to complete their work as it relates to these amendments.

The rulemaking process as it relates to these proposed amendments should be completed by September 30, 1994.

The Board of Animal Health requests information and opinions concerning the subject matter of the rules. Interested persons or groups may submit data or views in writing or orally. Written statements should be addressed to:

Paul L. Anderson, DVM, MS  
Minnesota Board of Animal Health  
90 West Plato Boulevard  
St. Paul, MN 55107

Oral statements will be received during regular business hours over the telephone at 612-296-2942 ext 21 and in person at the above address.

All statements of information and opinions will be accepted until further notice is published in the *State Register* that the Board of Animal Health intends to adopt or to withdraw the rules. Any written material received by the Board of Animal Health will become part of the rulemaking record to be submitted to the attorney general or administrative law judge in the event that the rules are adopted.

Dated: 29 March 1994

Thomas J. Hagerty, DVM  
Executive Secretary  
Board of Animal Health

## **Ethical Practices Board**

### **Advisory Opinion #139 Re: First-time Candidate**

Issued 3/2/94 to Richard Ottman - SUMMARY - 139. An individual who has been a candidate for state representative and who was a candidate for Ramsey County Soil and Water Conservation Board is not a first-time candidate under *Minnesota Statutes* § 10A.25, subd. 2 (c). The full text of this opinion is available upon request from the Ethical Practices Board, 1st Floor South, Centennial Building, 658 Cedar Street, St. Paul, MN 55155-1603; (612) 296-5148.

## **Department of Health**

### **Health Resources Division**

#### **Notice of Solicitation of Outside Information or Opinions Regarding Proposed Rules Relating to Services to Clients of Intermediate Care Facilities for Persons With Mental Retardation or Related Conditions (ICFs/MR)**

**NOTICE IS HEREBY GIVEN** that the Minnesota Department of Health is seeking information or opinions from sources outside the agency in preparing to propose rules to establish procedures for the assessment of services to clients of intermediate care facilities for persons with mental retardation or a related condition (ICFs/MR). The adoption of the rules is authorized by

## Official Notices

---

*Minnesota Statutes*, section 144.0723, which requires the Commissioner of Health to adopt rules necessary to implement the assessment system for clients in intermediate care facilities for the mentally retarded.

The proposed adoption of the rules is being done concurrently with the amendment of *Minnesota Rules*, parts 9553.0010 to 9553.0080, proposed by the Minnesota Department of Human Services. *Minnesota Rules*, chapter 9553, also known as Rule 53, establishes procedures for determining the total payment rate for all ICFs/MR participating in the Medical Assistance program.

The proposed rules will include the establishment of procedures for: the assessment of the amount and type of services being provided to ICF/MR clients; and the assignment of client classifications according to the amount and type of services being provided to the clients. Issues that may be considered during the rulemaking process include: conducting the annual client assessment concurrently with the federally mandated Inspection of Care; determining areas to be assessed; assigning client classifications; requesting reconsideration of client classifications; and conducting audits of assessments completed by ICF/MR staff.

The Department of Health has received assistance from the Rule 53 Public Advisory Committee in relation to these proposed rules, and does not plan to form an additional task force. The Rule 53 Public Advisory Committee includes representatives from ICF/MR providers, professional organizations, client advocate organizations, and staff of the Minnesota Departments of Health and Human Services.

The department anticipates that the rule adoption process will be completed by approximately December of 1994.

The Department of Health requests information and opinions concerning the subject matter of the rules. Interested persons or groups may submit data or views in writing or orally. Written statements should be addressed to:

Connie Krmopotich  
Minnesota Department of Health  
Health Resources Division  
393 North Dunlap Street  
Saint Paul, MN 55164-0900

Oral statements will be received during regular business hours over the telephone at (612) 643-2504 and in person at the above address.

All statements of information and opinions will be accepted until further notice is published in the *State Register* or the Notice of Hearing or Notice of Intent to Adopt Without a Hearing is published in the *State Register*. Any written material received by the Minnesota Department of Health will become part of the rulemaking record to be submitted to the attorney general or administrative law judge in the event that the rules are adopted.

Dated: 29 March 1994

Mary F. Hedges, Rulewriter  
Minnesota Department of Health

## Department of Labor and Industry

### Labor Standards Division

#### Notice of Prevailing Wage Certifications for Commercial Construction Projects

Effective April 11, 1994 prevailing wage rates were determined and certified for commercial construction projects in:

**Aitkin County:** Aitkin County Growth Center Building Expansion-Aitkin.

**Anoka County:** Coon Rapids Sr. High/Johnsville/Mississippi/Morris Bye/Mckinley Elementary/Fred Moore Middle Abatement Removal.

**Becker County:** Detroit Lakes Fish Hatchery.

**Blue Earth County:** MSU Gage Hall Shower Floors A6-A9-Mankato.

**Carlton County:** Jay Cooke State Park/Reroof, Tuckpointing, Repairs-Duluth. Washington & Churchill Elementary 1994 Reroofing-Cloquet.

**Dakota County:** Nicollet Jr. High & Metcalf Sr. High Life Safety & Accessibility Improvements, ISD #191 District Wide Exit Sign Upgrade & Fire Alarm Upgrade-Burnsville & Eagan. Roosevelt Elementary Abatement/Demolition-South St. Paul.

**Cass County:** Ah Gwah Ching Center Dietary/Kitchen Remodeling-Walker.

**Clay County:** MSU Nelson Hall Elevator Upgrade & Regional Science Center Site Development-Moorhead.



**Hennepin County:** Mn Center for Arts Education Delta Dorm Reroof-Golden Valley. Brooklyn Jr. High & Park Center Sr. High Media Center Asbestos Abatement-Brooklyn Park. U of M Chiller Repair, Service & Retrofit, Health Building Reroof-Minneapolis.

**Itasca County:** Greenway High School-Coleraine.

**Murray County:** Slayton School 1994 Reroof Areas B & F-Slayton.

**Nicollet County:** St. Peter R.T.C. Dietary Remodeling-St. Peter.

**Olmsted County:** Rochester DNR Office Elevator Addition-Rochester.

**Ramsey County:** Harding Sr. High & Sheridan Elementary School Addition & Renovation, DNR Region 6 Headquarters Elevator Addition-St. Paul. Mounds View Public Schools Computer Networking-New Brighton, North Oaks, Shoreview, Roseville.

**St. Louis County:** Hibbing DNR Minerals Building Remodeling & Elevator Installation.

**Stearns County:** Sauk Centre Elementary School ISD #743-Sauk Centre. Albany Jr. High Accessibility-Albany.

**Stevens County:** Transportation Garage Tank Monitoring-Morris.

**Washington County:** South Washington County DOT Building 1994 Reroof-Cottage Grove. Stillwater Public School 1994 Reroof-Stillwater.

**Winona County:** WSU Lourdes Hall Dishroom Remodeling-Winona.

Copies of the certified wage rates for these projects may be obtained by writing the Minnesota Department of Labor and Industry, Prevailing Wage Section, 443 Lafayette Road, St. Paul, Minnesota 55155-4306. The charge for the cost of copying and mailing are \$1.36 per project. Make check or money order payable to the State of Minnesota.

John B. Lennes, Jr  
Commissioner

## Pollution Control Agency

### Air Quality Division

#### Notice of Solicitation of Outside Information or Opinions Regarding Proposed Rules to Govern the Servicing and Disposal of Appliances and Motor Vehicle Air Conditioners

On November 15, 1990, President Bush signed the Clean Air Act Amendments of 1990 (Act), Public Law 101-549, including Title VI, "Stratospheric Ozone Protection." Title VI includes requirements for controlling ozone-depleting substances (Chlorofluorocarbons (CFC's), Halons, methyl chloroform, carbon tetrachloride, methyl bromide, Hydrobromofluorocarbons, and Hydrochlorofluorocarbons) which are generally consistent with, but in some cases more stringent than those contained in the revised Montreal Protocol. In addition to the phase out of ozone-depleting substances, Title VI includes provisions to reduce emission of all ozone-depleting substances used as a refrigerant. The U. S. Environmental Protection Agency (EPA) adopted regulations (*Code of Federal Regulations*, Title 40, Part 82) pursuant to the Act.

**NOTICE IS HEREBY GIVEN** that the Minnesota Pollution Control Agency (MPCA) is seeking information or opinions from sources outside the MPCA in preparing to propose the adoption of rules governing the following subjects:

1. A rule adopting *Code of Federal Regulations*, Title 40, Part 82, subpart B, as amended, entitled "Servicing of Motor Vehicle Air Conditioners," which requires that approved refrigerant recovery equipment and certified technicians be used when servicing motor vehicle air conditioners and restricts the sale of refrigerant in small containers.
2. A rule adopting *Code of Federal Regulations*, Title 40, Part 82, subpart F, as amended, entitled "Recycling and Emissions Reduction," which requires service practices that maximize recycling of ozone-depleting substances during the service and disposal of appliances and the disposal of motor vehicle air conditioners. These practices include the use of approved refrigerant recovery equipment and certified technicians, the repair of substantial leaks, and the restriction of refrigerant sales.
3. A rule stating that no person may knowingly vent or otherwise release into the environment any ozone-depleting substance used as a refrigerant in appliances.
4. A rule requiring disposers or recyclers of small appliances to become certified to handle ozone-depleting substances.

The adoption of the proposed rule is authorized by *Minnesota Statutes* § 116.07, subd. 4, which authorizes the MPCA to adopt

## Professional, Technical & Consulting Contracts

---

---

rules and standards for the prevention, abatement and control of air pollution, and § 116.731, subd. 6, which authorizes the MPCA to adopt rules for recycling of CFC's and to establish standards for CFC recycling equipment.

The MPCA does not intend to form an advisory task force for this rulemaking.

The MPCA requests information and opinions concerning the subject matter of the rule. For a copy of the draft rule concerning the subject matter listed above, or to submit data or views on the subject matter in writing or orally contact:

Troy Johnson  
Air Quality Division  
Minnesota Pollution Control Agency  
520 Lafayette Road North  
St. Paul, Minnesota 55155-4194

Oral statements will be received during regular business hours over the telephone at (612) 297-7153 and in person at the above address.

All statements of information and opinions shall be accepted until 4:30 p.m., May 11, 1994. Any written material received by the MPCA shall become part of the rulemaking record to be submitted to the attorney general or administrative law judge in the event that the rule is adopted. The MPCA anticipates this rule making process will be completed by October of 1994. If the rule becomes controversial the MPCA anticipates the completion date to be January 1995.

Charles W. Williams  
Commissioner

## Public Employees Retirement Association

### Board of Trustees, Notice of Meeting

A meeting of the Board of Trustees of the Public Employees Retirement Association (PERA) will be held on Thursday, April 14, 1994 at 9:30 a.m. in the PERA offices, 514 St. Peter Street - Suite 200, St. Paul, Minnesota.

## Professional, Technical & Consulting Contracts

---

---

Department of Administration procedures require that notice of any consultant services contract or professional and technical services contract which has an estimated cost of over \$10,000 be printed in the *State Register*. These procedures also require that the following information be included in the notice: name of contact person, agency name and address, description of project and tasks, cost estimate, and final submission date of completed contract proposal. Certain quasi-state agencies are exempted from some of the provisions of this statute.

In accordance with *Minnesota Rules* Part 1230.1910, certified Targeted Group Businesses and individuals submitting proposals as prime contractors shall receive the equivalent of a 6% preference in the evaluation of their proposal. For information regarding certification, call the Materials Management Helpline (612)296-2600 or [TDD (612)297-5353 and ask for 296-2600].

---

## Department of Employee Relations

### Notice of Request for Proposals (RFP) for Provision of Administrative Services to the State of Minnesota Pre-tax Benefits Plan

The Minnesota Department of Employee Relations (DOER) is soliciting bids from qualified vendors to provide administrative services to the State of Minnesota Pre-Tax Benefits Plan. The Pre-Tax Benefits Plan provides eligible state employees an opportu-

---

---

## Professional, Technical & Consulting Contracts

nity for pre-tax health and dental insurance premium deductions as well as medical/dental and dependent care expense accounts which allow employees to pay for certain health, dental and dependent care expenses with money that is deducted from their pay before it is taxed. These services must comply with all applicable laws and administrative rules governing the operation of such pre-tax programs and must meet all specifications provided as part of the RFP. A complete statement of the state's requirements and other terms and conditions governing the RFP may be obtained by contacting:

Harry C. Carlson  
Minnesota Department of Employee Relations  
Employee Insurance Division  
200 Centennial Office Building  
658 Cedar Street  
St. Paul, MN 55155-1603  
(612) 282-5094  
or leave message with  
(612) 296-1495 Nelsene McGinn

All proposals must be received by DOER by 4:30 p.m. on May 4, 1994. Late proposals will not be accepted. Eight (8) copies of the proposal must be submitted in a sealed mailing envelope or package with the vendor's name and address written on the outside, and with evidence of the vendor's compliance with the Minnesota Human Rights Act attached to the envelope or package.

## Iron Range Resources and Rehabilitation Board

### Request for Proposal for Owner's Representative for On-site Inspection of a Major Development Project

The Iron Range Resources and Rehabilitation Board (IRRRB) is requesting proposals from qualified agencies/individuals for a Owners Representative for on-site inspection of a major development project. This contract will run from May 1, 1994 to November 30, 1994. The contract may include renewal options for additional time periods.

#### Background Information:

IRRRB plans to construct beginning mid-May, 1994 an up-scale resort and real estate development project which includes a world class 18 hole golf course.

#### Tasks:

Provide (on the project site as necessary) contract administration as an agent of the owner and establish and implement coordination and communication procedures among the Owners Representative, IRRRB, design professional(s), contractor(s), and other appropriate parties.

Establish and implement procedures for submittals, material samples, change orders, payment requests and maintain weekly job reports, logs, files and other necessary documentation. The OR shall be the party through which change orders, payment requests, request for information, submittals, and other information shall be processed and communicated from and to all parties.

The owners representative will monitor and report on all phases of site construction.

#### Qualifications:

At least ten (10) years senior supervisory experience in major real estate and/or landscape development is required. An advanced degree in civil engineering is preferred. Respondents should be familiar with major earth moving, drainage, and irrigation installation projects. Experience in environmentally sensitive projects is desired.

Estimated Cost of this project is \$35,000.00

#### Proposal Content:

All respondents must include with their proposals:

1. Resume stating education and work experience
2. List of accomplishments of similar duties along with names of references which may be contacted by the IRRRB

## Professional, Technical & Consulting Contracts

---

---

\*Responders may propose additional tasks or activities if they will substantially improve the results of the contract.

### Evaluation Procedure:

All proposals received by the deadline will be reviewed and evaluated by a review committee selected by the IRRRB.

Proposals will be evaluated by but are not limited to the following criteria:

- A. Expressed understanding of proposal objectives
- B. Work plan
- C. Qualifications of both company and/or individual who are committed to work on the contract
- D. Experience

Some responders may be required to make oral presentations before the review committee.

### Proposal Deadline and Contact:

Responders should mail or deliver seven (7) copies of their proposal, each signed in ink by a principal of the submitting firm, labeled "IRRRB OWNERS REPRESENTATIVE PROPOSAL" by 3:30 PM on April 22, 1994. Proposals received after this deadline will not be considered. Proposals should be submitted to:

Bob Benner or Shirley Robinson  
Iron Range Resources and Rehabilitation Board  
Highway 53 South  
P.O. Box 441  
Eveleth, MN 55734  
(218) 749-7721

**Please Note:** Responders with questions about this request may contact Bob Benner or Shirley Robinson directly at the address or telephone number above. Other IRRRB personnel are not authorized to discuss this request for proposal prior to proposal deadline.

This request for proposal does not obligate the IRRRB to complete the proposed project, and the State reserves the right to cancel the solicitation if it is considered to be in its best interest.

In accordance with the provisions of *Minnesota Statutes* Section 363.073, for all contracts estimated to be in excess of \$50,000, all responders having more than 20 full-time employees at any time during the previous 12 months must have an affirmative action plan approved by the commissioner of human rights before a proposal may be accepted. Your proposal will not be accepted unless it includes one of the following:

- A. A copy of your current certificate of compliance;
- B. Evidence of your compliance, such as a copy of your current listing of certified contractors, issued by the Department of Human Rights, that included your firm; or
- C. A notarized letter of affidavit certifying that your firm has not had more than 20 full-time employees at any time during the previous 12 months.

## Minnesota Racing Commission

### Correction to the Notice of Contractual Position for State Stewards (3)

The March 21, 1994 issue carried a Notice of Contractual Position for State Stewards (3) with a due date of May 13, 1994 that contained an error. It read "Per diem compensation is \$50.00 per race day worked, and \$25.00 for each non-race day worked, as assigned by the Chief Steward or designate of the Commission." It should have read "Per diem compensation is \$250.00 per race day worked, and \$125.00 for each non-race day worked, as assigned by the Chief Steward or designate of the Commission."

## State University System

### Deadline Extended for Request for Professional Auditing Services

The Minnesota State Universities is accepting proposals for auditing services. The system prepares two sets of financial statements in accordance with generally accepted accounting principles, and desires an opinion on the statements. One set of statements covers all financial activity, and is presented using the College and University model. The second set of financial statements covers the Revenue Bond Fund, which is a GASB enterprise fund. The contract will be a two year contract covering state fiscal years ending June 30, 1994 and 1995. Financial Statements are due by October 31 of each year.

The Vendor must have audit experience in higher education, governments, and bond activity. Interested vendors should submit written responses to the Request for Proposal (RFP) by April 22, 1994. The Minnesota State Universities intend to interview 3 vendors in order to learn about their audit approach. The system will select a vendor based on these interviews and the cost of the audit. Copies of the RFP are available at the address shown below.

Alan Finlayson  
Director of Financial Reporting  
Minnesota State Universities  
Suite 230, 555 Park Street  
(612) 296-7145

---

---

**Non-State Public Bids and Contracts**

The *State Register* also serves as a central marketplace for contracts let out on bid by the public sector. The *Register* meets state and federal guidelines for statewide circulation of public notices. Any tax-supported institution or government jurisdiction may advertise contracts and requests for proposals from the private sector.

It is recommended that contracts and RFPs include the following: 1) name of contact person; 2) institution name, address, and telephone number; 3) brief description of project and tasks; 4) cost estimate; and 5) final submission date of completed contract proposal. Allow at least three weeks from publication date (four weeks from date article is submitted for publication). Surveys show that subscribers are interested in hearing about contracts for estimates as low as \$1,000. Contact the editor for further details.

---

## Metropolitan Council

### Request for Proposals for Functional Industry and Pressure Points Analyses for Creating/Expanding Recycled Materials Markets for Four Specified Commodities - 1) Corrugated Cardboard and Kraft Paper; 2) Food Waste; 3) Wood Waste; and 4) Plastic Film

**ELIGIBLE APPLICANTS:** Businesses, research firms and post-secondary educational institutions with expertise in economics, especially in commodity issues and industry marketing analysis.

**OVERVIEW OF THIS RFP:** The purpose of the grant is to conduct research, analyze the information found, develop reports and make presentations that present a comprehensive functional industry, value-added and pressure points analyses for creating and/or expanding recycled materials markets for each of the following four commodities: 1) CORRUGATED CARDBOARD and KRAFT PAPER; 2) FOOD WASTE; 3) WOOD WASTE; and 4) PLASTIC FILM. The RFP application must include an analysis of how demand for each recycled commodity relates to final consumer markets and describe their potential. The RFP application must also include a description of the methodology that will be used to choose the industrial sectors examined as markets for the recycled commodities.

It is expected that an agreement will be made with a single entity, but separate grantees/contractors for one or more of the commodities will be considered. Therefore, each commodity may be the subject of a separate agreement.

The grantee/contractor(s) will be expected to involve the Council's project manager or solid waste team in the project activities. The grantee/contractor(s) will prepare and submit a draft report to the Council for review and approval. The grantee/contractor(s) will make all required changes and submit a final report, executive summary, diskettes using WorkPerfect 5.1, and presentation graphics. Work is expected to be of the highest quality with all decisions about whether the work meets this criterion made by the

## Non-State Public Bids and Contracts

project manager. Grantee/contractor(s) will make two presentations following the completion of each final report and before the end of the grant agreement period. The grantee/contractor(s) will be selected according to criteria found in the RFP. Targeted Group Business (TGB) participation is encouraged.

**BACKGROUND:** This project is an outgrowth of directed research prepared for the Council in 1992 and 1993. That research resulted in two reports — *Creating Recycled Materials Markets for PET Plastic Containers...Roles, Responsibilities and Pressure Points* and *Creating Recycled Materials Markets for Mixed Office Paper...Roles, Responsibilities and Pressure Points*. These reports examined the structure of each industry nationally, regionally and locally; identified major industry competitors, market forces, financial value-added and key switching points to determine which sectors in the industry are best positioned to “drive” increase demand for each recycled commodity. The reports also examined how different types of public sector market development tools may be used to best overcome industry barriers at those key switching points, and then recommended a course of action to expand the recycled materials markets for the two commodities.

The analysis of the four commodities listed above will examine the structure of the selected industrial sectors examined for each commodity nationally, regionally and locally. It will identify major industrial competitors, market forces (for the industry’s final products as well as the virgin materials used in the industry and the recycled commodity), financial value-added and key switching points. It will determine which sectors in the industry are best positioned to “drive” increased demand for each recycled commodity.

Copies of the two previously completed reports can be viewed in the Council library from 8:15 a.m. to 5 p.m. weekdays or can be purchased from the Council’s Data Center for \$4.00 each. To order copies, call the Data Center at (612) 291-8140, TDD (612) 291-0904 or FAX (612) 291-6550 or write to: Metropolitan Council Data Center, 230 East 5th Street, St. Paul, MN 55101-1634. For additional information about the previous studies, please contact: Jim Uttley at (612) 291-6361 or TDD (612) 291-0904.

Questions on the RFP should be directed to the Project Manager, Victor Ward, at (612) 291-6460 or to the Abatement Grants Administrator, Victoria Reinhardt at (612) 291-6536.

**DEADLINE FOR SUBMISSION OF PROPOSAL:** 4:00 P.M. (CST), Tuesday, May 3, 1994.

**GRANT AMOUNT:** Not to exceed \$100,000 for 4 commodities.

**SUBMITTAL ADDRESS:** Metropolitan Council, 230 East Fifth Street, St. Paul, MN 55101-1634.

Dated: April 1994

### NEW Fire Code Books Now Available

#### *Minnesota State Fire Marshal Amendments 1993*

Minn. Rules Chapter 7510.3100 - 7510.3280.  
State fire safety standards for buildings, smoke detectors and alarms and changes to the Uniform Fire Code. Also rules governing storage and handling of flammable materials. **3-80 SR \$6.00**

#### *Uniform Fire Code 1991*

National fire standards. Includes requirements for inspections, fire extinguishers, storage and handling of combustible materials, fireworks and more. **19-37 SR \$48.75**



**Available through Minnesota's Bookstore. Use the handy order form on the back of the State Register to order.  
Visit Minnesota's Bookstore to view a variety of building code publications.**

Publication editors: As a public service, please reprint this ad in your publication as is, reduced, enlarged, or redesigned to suit your format. Thank you.



## ATTENTION: Minnesota Business Leaders

Avoid getting lost in your search for government services and marketing information. Reach your market and keep you on top of state government policies and programs.

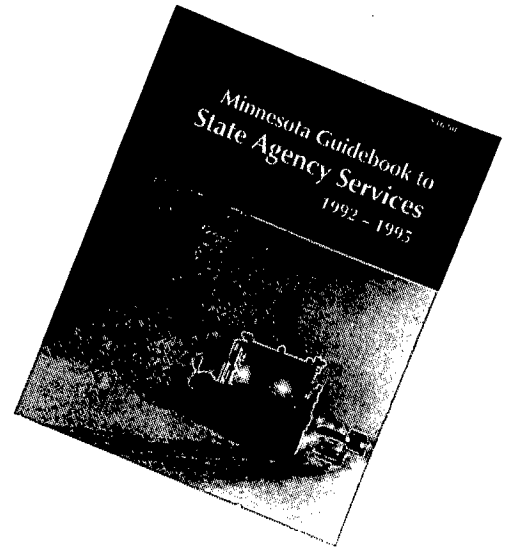
### Business & Professional Directories -----

#### **Minnesota Guidebook to State Agency Services 1992-95**

An obvious "headliner" on any list for the business reference desk. The perfect "owner's manual" to Minnesota state government is a great reference tool for:

- \* applying for grants, bidding on contracts
- \* addresses, phone numbers and key contact people for each agency
- \* license requirements and fees
- \* gaining access to government services
- \* participating in state policy making and service delivery
- \* understanding the structure of Minnesota government with detailed descriptions of state agencies, their functions and services.

A MUST for the Minnesota business person. 710 pp. **Stock No. 1-11 SR** ~~REDUCED PRICE -- \$16.00~~ **NOW \$9.95**



#### **Minnesota Manufacturer's Directory 1994**

Lists companies alphabetically, by community, and by type of product manufactured. Includes name, address, phone number, sales volume, market products, area sales, marketing and purchasing. Also FAX numbers, data processing managers and chief engineers, when available. 742 pp. **Stock No. 40-2 SR \$95.00**

#### **Airport Directory 1993**

List of airports throughout the state. Approaches, rivers, all detailed markings, and much more. 178 pp. (pocket-size) **Stock No. 1-8 SR \$5.95**

#### **Healing Arts (Physician's) Directory 1991**

Names and addresses in alphabetical order for licensed physicians, chiropractors, osteopaths, optometrists, podiatrists and registered physical therapists. 426 pp.

**Stock No. 1-1 SR \$19.95**

#### **Law Enforcement Directory 1993**

Directory of state law enforcement agencies, sheriffs and police departments 51pp. **Stock No. 1-6 SR \$7.00**

#### **Directory of Chemical Dependency Programs '92-93**

Comprehensive listing of chemical dependency treatment programs in Minnesota. Information on services provided, funding and staff, and a map are also included. 282 pp.

**Stock No. 1-12 SR \$17.00**

#### **State Agency Telephone Directory**

*Orders are now being taken for the 1994 Directory.*

This directory lists all State of Minnesota government agencies. Features a greatly expanded FAX section with over 250 numbers, alphabetical employee listings, a classified section, organized by department, and "yellow pages" listing state offices in Greater Minnesota. 264pp. **Stock No. 1-87 SR \$12.95**

#### **Mailing Lists ---**

Let our Mailing List Service guide you through their **broad selection of State of Minnesota licensed professionals and permit holders**. Lists are available in a variety of formats including computer printouts, directories, cheshire or pressure-sensitive labels, or diskette. **For a free catalog or further information, call - 612/ 296-0930.**

### Minnesota's Bookstore

117 University, St Paul, Minnesota 55155 (located 1/2 block west of the State Capitol)  
612/297-3000 (Metro area) 1-800-657-3757 (Toll Free)

TDD (Telecommunications Device for the Deaf): 612/282-5077 1-800-657-3706 (Toll Free)  
FAX 612/296-2265 Online computer access: 612/821-4096 (8-N-1, 1200/2400 bps)

