# Chapter NR 102

## WATER QUALITY STANDARDS FOR WISCONSIN SURFACE WATERS

NR 102.01	Purpose	NR 102.08	Mississippi River thermal standards
NR 102.02	Applicability	NR 102.09	Review of thermal standards
NR 102.03	Definitions	NR 102 10	Outstanding resource waters
NR 102.04	Categories of standards	NR 102.11	Exceptional resource waters
NR 102.05	Application of standards	NR 102 12	Great Lakes waters
NR 102.06	Phosphorus	NR 102.13	Fish and aquatic life waters
NR 102.07	Lake Michigan and Lake Superior thermal standards	NR 102.14	Taste and odor criterion

History: Chapter NR 102 as it existed on September 30, 1973 was repealed and a new chapter NR 102 was created, effective October 1, 1973.

NR 102.01 Purpose. (1) The purpose of this chapter is to establish, in conjunction with chs. NR 103 to 105, water quality standards for surface waters of the state pursuant to s. 144.025 (2) (b), Stats. This chapter describes the designated use categories for such waters and the water quality criteria necessary to support these uses. This chapter and chs. NR 103 to 105 constitute the water quality standards for the surface waters of Wisconsin.

(2) Water quality standards shall protect the public interest, which includes the protection of public health and welfare and the present and prospective uses of all waters of the state for public and private water supplies, propagation of fish and other aquatic life and wild and domestic animals, domestic and recreational purposes, and agricultural, commercial, industrial, and other legitimate uses. In all cases where the potential uses are in conflict, water quality standards shall protect the general public interest.

(3) Water quality standards serve as a basis for developing and implementing control strategies to achieve legislative policies and goals. Water quality standards are the basis for deriving water quality based effluent limitations. Water quality standards also serve as a basis for decisions in other regulatory, permitting or funding activities that impact water quality.

History: Cr. Register, February, 1989, No. 398, eff. 3-1-89

NR 102.02 Applicability. The provisions of this chapter are applicable to surface waters of Wisconsin.

History: Cr. Register, February, 1989, No. 398, eff. 3-1-89.

NR 102.03 Definitions. (1) "Mixing zone" means a region in which a discharge of different characteristics than the receiving water is in transit and progressively diluted from the source to the receiving system.

(2) "Natural conditions" means the normal daily and seasonal variations in climatic and atmospheric conditions, and the existing physical and chemical characteristics of a water or the course in which it flows.

(3) "Natural temperature" means the normal existing temperature of a surface water including daily and seasonal changes outside the zone of influence of any artificial inputs.

(4) "Resource management" means the application of control techniques to enhance or preserve a surface water

in accordance with statutory provisions and in the general public interest.

(5) "Sanitary survey" means a thorough investigation and evaluation of a surface water including bacteriological sampling to determine the extent and cause of any bacterial contamination.

(6) "Surface waters" means all natural and artificial named and unnamed lakes and all naturally flowing streams within the boundaries of the state, but not including cooling lakes, farm ponds and facilities constructed for the treatment of wastewaters (the term waters as used in this chapter means surface waters).

(7) "Unauthorized concentrations of substances" means pollutants or other chemicals introduced into surface waters without prior permit or knowledge of the department, but not including accidental or unintentional spills.

(8) "Best practicable control technology" means that level of treatment established by the department under s. 147.04 (2) (a), Stats., for categories and classes of point sources to be achieved by not later than July 1, 1977.

(9) "Best available control technology" means that level of treatment established by the department under s. 147.04 (2) (b) 1., Stats., for categories and classes of point sources to be achieved by not later than July 1, 1983.

(10) Class I and Class II trout waters are as defined in s. NR 1.02 (7).

History: Cr. Register, September, 1973, No. 213, eff. 10-1-73; r. (1), renum from NR 102.01, Register, February, 1989, No. 398, eff. 3-1-89; cr. (10), Register, May, 1993, No. 449, eff. 6-1-93.

NR 102.04 Categories of standards. (1) GENERAL To preserve and enhance the quality of waters, standards are established to govern water management decisions. Practices attributable to municipal, industrial, commercial, domestic, agricultural, land development or other activities shall be controlled so that all waters including the mixing zone and the effluent channel meet the following conditions at all times and under all flow conditions:

(a) Substances that will cause objectionable deposits on the shore or in the bed of a body of water, shall not be present in such amounts as to interfere with public rights in waters of the state.

(b) Floating or submerged debris, oil, scum or other material shall not be present in such amounts as to interfere with public rights in waters of the state.

Register, September, 1995, No. 477

#### NR 102.04

(c) Materials producing color, odor, taste or unsightliness shall not be present in such amounts as to interfere with public rights in waters of the state.

(d) Substances in concentrations or combinations which are toxic or harmful to humans shall not be present in amounts found to be of public health significance, nor shall substances be present in amounts which are acutely harmful to animal, plant or aquatic life.

(2) REVISED STANDARDS. It should be recognized that these standards will be revised as new information or advancing technology indicate that revisions are in the public interest. Water used for hydropower and commercial shipping depends mainly on quantity, depth and elevation; consequently, no specific quality standards for these uses have been prepared.

(3) FISH AND OTHER AQUATIC LIFE USES. The department shall classify all surface waters into one of the fish and other aquatic life subcategories described in this subsection. Only those use subcategories identified in pars. (a) to (d) shall be considered suitable for the protection and propagation of a balanced fish and other aquatic life community as provided in the federal water pollution control act amendments of 1972, P.L. 92-500; 33 USC 1251 et seq.

(a) Great Lakes communities. This subcategory includes Lake Superior, Lake Michigan and Green Bay including all bays, arms and inlets thereof and including those tributaries which serve as a spawning area for anadromous fish species.

(b) Cold water communities. This subcategory includes surface waters except those in par. (a), capable of supporting a community of cold water fish and other aquatic life, or serving as a spawning area for cold water fish species. This subcategory includes, but is not restricted to, surface waters identified as trout water by the department of natural resources (Wisconsin Trout Streams, publication 6-3600 (80)).

(c) Warm water sport fish communities. This subcategory includes surface waters capable of supporting a community of warm water sport fish or serving as a spawning area for warm water sport fish.

(d) Warm water forage fish communities. This subcategory includes surface waters capable of supporting an abundant diverse community of forage fish and other aquatic life.

(e) Limited forage fish communities (Intermediate surface waters). This subcategory includes surface waters of limited capacity and naturally poor water quality or habitat. These surface waters are capable of supporting only a limited community of forage fish and other aquatic life.

(f) Limited aquatic life (Marginal surface waters). This subcategory includes surface waters of severely limited capacity and naturally poor water quality or habitat. These surface waters are capable of supporting only a limited community of aquatic life.

(4) STANDARDS FOR FISH AND AQUATIC LIFE. Except for natural conditions, all waters classified for fish and aquatic life shall meet the following criteria:

Register, September, 1995, No. 477

(a) *Dissolved oxygen*. Except as provided in par. (e) and s. NR 104.02 (3), the dissolved oxygen content in surface waters may not be lowered to less than 5 mg/L at any time.

(b) *Temperature*. 1. There shall be no temperature changes that may adversely affect aquatic life.

2. Natural daily and seasonal temperature fluctuations shall be maintained.

3. The maximum temperature rise at the edge of the mixing zone above the existing natural temperature shall not exceed 5° F for streams and 3° F for lakes.

4. The temperature shall not exceed 89° F for warm water fish.

(c) pH. The pH shall be within the range of 6.0 to 9.0, with no change greater than 0.5 units outside the estimated natural seasonal maximum and minimum.

(d) Other substances. Unauthorized concentrations of substances are not permitted that alone or in combination with other materials present are toxic to fish or other aquatic life. Surface waters shall meet the acute and chronic criteria as set forth in or developed pursuant to ss. NR 105.05 and 105.06. Surface waters shall meet the criteria which correspond to the appropriate fish and aquatic life subcategory for the surface water, except as provided in s. NR 104.02 (3).

(e) Temperature and dissolved oxygen for cold waters. Streams classified as trout waters by the department of natural resources (Wisconsin Trout Streams, publication 6-3600 (80)) or as great lakes or cold water communities may not be altered from natural background temperature and dissolved oxygen levels to such an extent that trout populations are adversely affected.

1. There shall be no significant artificial increases in temperature where natural trout reproduction is to be protected.

2. Dissolved oxygen in classified trout streams shall not be artificially lowered to less than 6.0 mg/L at any time, nor shall the dissolved oxygen be lowered to less 7.0 mg/L during the spawning season.

3. The dissolved oxygen in great lakes tributaries used by stocked salmonids for spawning runs shall not be lowered below natural background during the period of habitation.

(5) STANDARDS FOR RECREATIONAL USE A sanitary survey and/or evaluation to assure protection from fecal contamination is the chief criterion in determining the suitability of a surface water for recreational use.

(a) *Bacteriological guidelines.* The membrane filter fecal coliform count may not exceed 200 per 100 ml as a geometric mean based on not less than 5 samples per month, nor exceed 400 per 100 ml in more than 10% of all samples during any month.

(b) Exceptions. Whenever the department determines, in accordance with the procedures specified in s. NR 210.06, that wastewater disinfection is not required to protect recreational uses, the recreational use criteria and classifications as established in this subsection and in chs. NR 103 and 104 do not apply.

8

(6) STANDARDS FOR PUBLIC HEALTH AND WELFARE All surface waters shall meet the human threshold and human cancer criteria specified in or developed pursuant to ss. NR 105.08 and 105.09, respectively. The applicable criteria vary depending on whether the surface water is used for public drinking water supplies and vary with the type of fish and other aquatic life subcategory. All surface waters providing public drinking water supplies or classified as great lakes, cold water, or warm water sport fish communities as described in sub. (3) shall meet the taste and odor criteria specified in or developed pursuant to s. NR 102.14.

(7) STANDARDS FOR WILD AND DOMESTIC ANIMALS. All surface waters shall be classified for wild and domestic animal uses and meet the wild and domestic animal criteria specified in or developed pursuant to s. NR 105.07.

**History:** Cr. Register, September, 1973. No. 213, eff. 10-1-73; am. (3), Register, December, 1977, No. 264, eff. 1-1-78; renum. from NR 102 02, r. (3) (d) 1 to 3, and (5), renum. (3) (intro.) to (d) (intro.) and (e) and (4) to be (4) (intro.) to (e) and (5) and am. (4) (a), (d), (e) (intro.) and (5), cr. (6) and (7), Register, February, 1989, No. 398, eff. 3-1-89.

NR 102.05 Application of standards. (1) ANTIDEGRADA-TION. (a) No waters of the state shall be lowered in quality unless it has been affirmatively demonstrated to the department that such a change is justified as a result of necessary economic and social development, provided that no new or increased effluent interferes with or becomes injurious to any assigned uses made of or presently possible in such waters.

(b) *Classification system*. For the purposes of this subsection, all surface waters of the state, or portions thereof, shall be classified as one of the following:

1: Outstanding resource waters as listed in s. NR 102.10,

2. Exceptional resource waters as listed in s. NR 102.11,

3. Great Lakes waters as listed in s. NR 102.12 (1),

4. Fish and aquatic life waters as described in s. NR 102.13, or

5. Waters listed in tables 3 through 8 in ss. NR 104.05 to 104.10.

(2) STREAMFLOW. Water quality standards will not be maintained under all natural occurrences of flow, temperature, or other water quality characteristics. The determination of water quality based effluent limitations or other management practices shall be based upon the following conditions except as provided in ch. NR 106 for toxic and organoleptic substances and whole effluent toxicity:

(a) The average minimum 7-day low streamflow which occurs once in 10 years (7-day  $Q_{10}$ ); or,

(b) In the case of dissolved oxygen and wherever sufficient data on streamflow and temperature are available, by application of a 0.274% level of nonattainment. This is equivalent to an expected nonattainment of the dissolved oxygen criterion of one day per year.

(3) MIXING ZONES Water quality standards shall be met at every point outside of a mixing zone. The size of the mixing zone cannot be uniformly prescribed, but shall be based on such factors as effluent quality and quantity, available dilution, temperature, current, type of outfall, channel configuration and restrictions to fish movement. For toxic and organoleptic substances with water quality criteria specified in or developed pursuant to chs. NR 102 and 105, allowable dilution shall be determined as specified in ch. NR 106 in addition to the requirements specified in this subsection. As a guide to the delineation of a mixing zone, the following shall be taken into consideration:

(a) Limiting mixing zones to as small an area as practicable, and conforming to the time exposure responses of aquatic life.

(b) Providing passageways in rivers for fish and other mobile aquatic organisms.

(c) Where possible, mixing zones being no larger than 25% of the cross-sectional area or volume of flow of the stream and not extending more than 50% of the width.

(d) Final acute values specified in or developed pursuant to s. NR 105.05 for the fish and aquatic life subcategory for which the receiving water is classified not being exceeded at any point in the mixing zone.

(e) Mixing zones not exceeding 10% of a lake's total surface area.

(f) Mixing zones not interfering with spawning or nursery areas, migratory routes, nor mouths of tributary streams.

(g) Mixing zones not overlapping, but where they do, taking measures to prevent adverse synergistic effects.

(h) Restricting the pH to values greater than 4.0 s.u. and to values less than 11.0 s.u. at any point in the mixing zone for the protection of indigenous fish and fish food organisms.

(4) EXEMPTIONS The thermal mixing zone provisions of this chapter are not applicable to municipal waste and water treatment plants, to vessels, or to discharges to enclosed harbors.

(5) RESOURCE MANAGEMENT EXEMPTIONS Application of chemicals for water resource management purposes in accordance with statutory provisions is not subject to the requirements of the standards except in case of water used for public water supply.

(6) ANALYTICAL PROCEDURES. (a) The criteria in the Radiation Protection Code, s. HSS 157.15, shall apply to the disposal and permissible concentrations of radioactive substances.

(b) Methods used for analysis of samples shall be as set forth in ch. NR 219 unless alternative methods are specified by the department.

**History:** Cr. Register, September, 1973; No. 213, eff. 10-1-73; renum. (5) and (6) to be (6) and (7), cr. (5), Register, July, 1975, No. 235, eff. 8-1-75; r. and recr. (3), Register, August, 1981, No. 308, eff. 9-1-81; correction in (7) made under s. 13.93 (2m) (b) 7, Stats., cr. (4) (h), Register, September, 1984, No. 345, eff. 10-1-84; renum from NR 102.03, r. (1), cr. (1) (b), renum. (2) to (7) to be (1) (a) to (6) and am. (2), (3) (intro.) and (d) and (6), Register, February, 1989, No. 398, eff. 3-1-89.

NR 102.06 Phosphorus. In addition to the requirements established in ch. NR 217, any wastewater discharger, regardless of population, volume or type of waste discharge, or geographic location, may be required to remove excess amounts of phosphorus. Effluent limitations for to-

Register, September, 1995, No. 477

NR 102.06

#### NR 102.06

10

tal phosphorus based on surface water quality may be established where, in the best professional judgment of the department, such limitations will result in an improvement in water quality, or preserve the quality of surface waters where long-term discharges may result in impairment of water quality. Such limitations for phosphorus shall include an evaluation of the discharges from point sources, nonpoint sources, background sources, tributaries, and a consideration of a margin of safety.

History: Cr Register, July, 1975, No. 235, eff. 8-1-75; am Register, October, 1986, No. 370, eff. 11-1-86; renum from NR 102.04, Register, February, 1989, No. 398, eff. 3-1-89; am Register, November, 1992, No. 443, eff. 12-1-92.

NR 102.07 Lake Michigan and Lake Superior thermal standards. For Lake Michigan and Lake Superior the following thermal standards are established so as to minimize effects on the aquatic biota in the receiving waters.

(1) (a) Thermal discharges shall not raise the receiving water temperature more than  $3^{\circ}F$  above the existing natural temperature at the boundary of mixing zones established in pars. (b) and (c).

(b) 1. The mixing zone for a shoreline thermal discharge shall be the area included within the perimeter of a rectangular figure extending 1,250 feet in both directions along the shoreline from the outfall and 1,250 feet into the lake.

2. The mixing zone for an offshore thermal discharge shall be the area within a 1,000-foot radius circle with its center at the point of discharge.

(c) The department may, upon request from the owner of a source of thermal discharge, adjust the boundaries of the mixing zone established in par. (b) for that source. In no case may any mixing zone so established include an area greater than 72 acres nor may it include more than 2,800 feet of shoreline.

(2) In addition to the limitation set forth in sub. (1), but excepting the Milwaukee Harbor, Port Washington Harbor and the mouth of the Fox River, thermal discharges to Lake Michigan shall not raise the temperature of the receiving waters at the boundary of the established mixing zone above the following limits:

January	 	4
February		
March		
April	 	5
May	 	
June		
July	 	8
August	 •••••	8
September	 •••••••	8
October		
November		
December	 	5

History: Cr. Register, September, 1973, No. 213, eff. 10-1-73; r. and recr. Register, July, 1975, No. 235, eff. 8-1-75; renum from NR 102 05, Register, February, 1989, No. 398, eff. 3-1-89.

NR 102.08 Mississippi river thermal standards. In addition to the standards for fish and aquatic life, the monthly average of the maximum daily temperature in the Mississippi river outside the mixing zone shall not exceed the following limits:

Register, September, 1995, No. 477

January.			• •				a			a -			 	9						•						•	•	• •					•	•		•			40°I
February .			• •		•		, o				, .			a .							•	•			0		•	• •				 	•				•	a	40°
March			a (				•	•	•	•		•	•	•		• •												•••			÷.	 , .					•		54°
April	•	•					•	•	•	•		•	•	•					,			9		•			a .'	• •				 	•		•	•	•		65°
May		•	• •							•			• •		, .						4	••			a		•									•		v	75°
June			• •		•	a				•		•••	 								•	;	•			•						 						•	84°
July								•		• •		•••	 • •	, ,	, .						•	•	•	•	•				•				•	•	•	•			84°
August		• •	• •		•		•	•		• •		• •	 •				i.		. a					•								•		•					84°
September	•	•		•	٥	•	, í	•		•			 					•		•	÷		•	•	•	•						•	•	•		•	•		82°
October					•	•	•	•										•			.,			•	0				•	•	•	•	•	•	•	•	•	•	73°
November																																							
December		• •				•	0						 •					•	•	•		•	•	•	•	• •					•	•		÷	. 0 -	•	•	•	<b>48°</b>

History: Cr. Register, July, 1975, No. 235, eff. 8-1-75; renum. from NR 102.06, Register, February, 1989, No. 398, eff. 3-1-89.

NR 102.09 Review of thermal standards. (1) Whenever the owner of any source of thermal discharges that existed on or before July 31, 1975, in compliance with department guidelines and after opportunity for public hearing, can demonstrate to the satisfaction of the department that the mixing zone established pursuant to this chapter is more stringent than necessary to assure the protection and propagation of a balanced, indigenous population of shellfish, fish and wildlife in and on the receiving water, the department may:

(a) Impose a mixing zone with respect to such thermal discharge that will assure the protection and propagation of such a population, or

(b) Exempt such thermal discharge from the thermal requirements of this chapter provided this exemption will not endanger the propagation of such a population.

(2) Any owner desiring a review pursuant to sub. (1) shall submit a demonstration to the department no later than June 30, 1976. The department shall reach a decision no later than December 31, 1976.

(3) In the event the owner fails to make a satisfactory demonstration pursuant to sub. (1), the department shall establish a compliance date for the thermal component to be achieved no later than July 1, 1979.

(4) Whenever the owner of any source of thermal discharges that commenced on or after August 1, 1975, in compliance with department guidelines and after opportunity for public hearing, can demonstrate to the satisfaction of the department that the mixing zone established pursuant to this chapter is more stringent than necessary to assure the protection and propagation of a balanced, indigenous population of shellfish, fish and wildlife in and on the receiving water, the department may:

(a) Impose a mixing zone with respect to such thermal discharge that will assure the protection and propagation of such a population, or

(b) Exempt such thermal discharge from the thermal requirements of this chapter provided this exemption will not endanger the propagation of such a population.

(5) In the event an owner fails to make a satisfactory demonstration pursuant to sub. (4), the discharge shall be in compliance with the thermal requirements of this chapter upon commencement of the discharge.

(6) The department may require the reduction of thermal discharges or the size and configuration of a mixing zone if it finds that environmental damage is imminent or existent.

History: Cr. Register, July, 1975, No. 235, eff. 8-1-75; am. Register, February, 1977, No. 254, eff. 3-1-77; renum. from NR 102.07, Register, February, 1989, No. 398, eff. 3-1-89.

NR 102.10 Outstanding resource waters. (1) The following surface waters are designated as outstanding resource waters:

(a) National wild and scenic rivers. All rivers designated under the national wild and scenic rivers act, as amended, 16 USC 1271 to 1287, except those portions flowing through Indian reservations, including:

1. St. Croix river between the northern boundary of the Hudson city limits and the St. Croix flowage dam in Douglas county except that the portion of the St. Croix river from the northern boundary of the St. Croix Falls city limits to a distance one mile below the STH 243 bridge at Osceola shall be classified exceptional resource waters under s. NR 102.11.

2. Namekagon river between its confluence with the St. Croix river and the outlet of Lake Namekagon in Bayfield county.

(b) State wild and scenic rivers. All state wild and scenic rivers designated under s. 30.26, Stats., including:

1. Pike river in Marinette county.

2. Pine river and its tributary Popple river in Florence and Forest counties.

(c) Wolf river upstream of the northern Menominee county line.

(d) The following Class I trout waters:

1. Adams county — Big Roche-a-Cri creek

2. Barron county — Yellow river

3. Bayfield county — Flag river, Sioux river

4. Burnett county — North Fork Clam river, South Fork Clam river

5. Chippewa county — Duncan creek, Elk creek, Mc-Cann creek

6. Door county — Black Earth creek above the easternmost CTY KP crossing

7. Door county — Logan creek

8. Douglas county — Bois Brule river and its tributaries

9. Dunn county — Elk creek

10. Florence county — Brule river including Montagne creek and Riley creek tributaries; tributaries to the Pine-Popple rivers including Chipmunk, Cody, Haley, Haymarsh, LaMontagne, Lepage, Lunds, Martin, Olson, Patten, Pine, Riley, Rock, Simpson, Seven Mile, Wakefield and Woods creeks; Little Popple river

11. Forest county — Brule river

12. Iowa county — Love-Strutt creek, Trout creek

13. Kewaunee county — Little Scarboro creek

14. Langlade county — Clearwater creek, Drew creek, Evergreen river, South Branch Oconto river

15. Lincoln county — Center fork New Wood creek, Little Pine creek, Prairie river

16. Marathon county — Holt creek, Spranger creek, Plover river

17. Marinette county — Cedarville creek, Otter creek, Holmes creek, East Thunder creek, North fork Thunder river, Eagle creek, Little Eagle creek, Plumadore creek, Meadow brook, Upper Middle Inlet creek, Middle Inlet creek, Wausaukee river, Little Wausaukee creek, Coldwater brook, Medicine brook, South Branch Miscauno river, Miscauno river, Swede John creek, South Branch Pemebonwon river, Spikehorn creek, Silver creek, Little Silver creek, Sullivan creek; tributaries to the Pike river including Little South Branch Pike river, Camp D creek, Camp F creek, Camp 9 creek, Cole creek, Glen creek, Harvey creek, North Branch Harvey creek, South Branch Harvey creek, Hemlock creek, Holloway creek, K.C. creek, Little Harvey creek, Lost creek, MacIntire creek, Phillips creek, Sackerson creek, Shinns creek, Sidney creek, Smeesters creek, Springdale brook, Whiskey creek

18. Marquette county — Chaffee creek, Lawrence creek, Tagatz creek

19. Monroe county — Rullands Coulee creek

20. Oconto county — First South Branch Oconto river, Second South Branch Oconto river, South Branch Oconto river, Hills Pond creek

21. Polk county - Clam river, McKenzie creek

22. Portage county — Emmons creek, Radley creek, Sannes creek, Tomorrow river, Trout creek

23. Richland county — Camp creek

24. Sheboygan county — Nichols creek

25. St. Croix county — Kinnickinnic river above STH "35"

26. Vernon county — Rullands Coulee creek, Spring Coulee creek, Timber Coulee creek

27. Vilas county — Deerskin river, Plum creek

28. Walworth county — Bluff creek, Potawatomi creek, Van Slyke creek

29. Waupaca county — Emmons creek, Griffin creek, Jackson creek, Leers creek, Peterson creek, Radley creek, Sannes creek, Spaulding creek, Trout creek, Whitcomb creek, North Branch Little Wolf river

30. Waushara county — Willow creek north of Redgranite, Mecan river north of Richford, Little Pine creek, West Branch White river

(e) The following Class II trout waters:

1. Barron county — Yellow river

2. Burnett county — North Fork Clam river

3. Forest county — Brule river, Peshtigo river

4. Grant county — Big Green river, Castle Rock creek Register, September, 1995, No. 477 12ND 109 10

# WISCONSIN ADMINISTRATIVE CODE

NR 102.10				0002	
5. Marinette cour	nty — Peshtigo riv	ver	17. Richland 18. Rusk	Elk Creek Devils Creek	All All-Class I & II
6. Polk county –	– McKenzie creek			So. Fork Main Creek	Portions Class I & II Portions
7. Vilas county –	– Plum creek				(T35N R3W S28 downstream to T34N R4W S11)
(f) The following or portions thereof:	cold or warm water	streams and rivers	19. Sauk	Otter Creek	From headwaters to southern section line of T11N R6E S33
1 Barron	Engle Creek Hickey Creek	Class I & II Portions Class I & II Portions		Parfrey's Glen	From headwaters to CTH "DL"
	Upper Pine Creek	Above Dallas Flowage	20 Sawyer	Benson Creek Eddy Creek	All-Class I Portion All-Class I Portion
2 Bayfield	Bark River Big Brook	All-Class I Portion All		Grindstone Creek Little Weirgor Creek	All-Class I Portion All-Class I & II
	Cranberry River & Tribs.	All-Class I Portion		& Tribs McDermott Creek	Portions All
	East Fork Iron River & Tribs.	All-Class I Portion		Mosquito Brook	All-Class I Portion
	East Fork White River	All-Class I Portion	21. Shawano	Middle Br. Embarras R	including Homme
	Eighteen Mile Cr. & Tribs.	All-Class I Portion		No. Br. Embarrass R.	
	Fish Creek (Main) Long Lake Branch &	All From below		So. Br. Embarrass R.	Origin to but not including Tigerton
	Tribs.	Drummond Lake to White River	22. Vilas	Allequash Springs	Pond Class I & II Portions
	No. Fork Fish Creek	All-Class I Portions All-Class I & II		Brule Creek East Br. Blackjack	All All
and the second second	& Tribs. Onion River & Tribs.	Portions All-Class I Portions	an a	Cr Elvoy Creek &	Class I & II Portions
	Pikes Creek & Tribs Sioux River & Tribs	All-Class I Portion All-Class I & II	na na sera	Springs Mishonagon Creek	Class I & II Portions
	So. Fork White River Thompson Creek	Portions All-Class I Portion All-Class I Portion	أمريا المريمي	Siphon Creek Spring Meadow Creek	
an an an Araba an Araba. An Araba an Araba an Araba	Twenty Mile Creek	All-Class I & II Portions	23. Washburn	Tamarack Creek Beaver Brook	All All-Class I Portion
	White River Whittlesey Creek &	All-Class I Portion All-Class I Portions		Sawyer Creek	All-Class I & II Portions
3. Burnett	Tribs. Tributaries to the N	All-Class I & II		So Fork Bean Brook	All-Class I Portion
	& S. Forks of the	Portions	(1m) (The fell		tod in outstanding
4. Dane	Clam River Mt. Vernon Creek	All-Class I Portion	resource water	lowing lakes are designa	ted as outstanding
5 Door	Mink River	All	1 Ashland	Bad River Slough	
6. Forest	Allen Creek Brule Creek	All All	2 Barron	Kakagon Slough Bear Lake (T36N	
	Elvoy Creek Jones Creek	All Class I & II portions	2 Barton	R12W S2) Red Cedar Lake	ele al
7. Grant	North Otter Creek Little Green River	All All		Sand Lake Silver Lake	
8 Iron, Ashland &	No Fork Flambeau	From Turtle-	3. Bayfield	Bark Bay Slough	
Price	River	Flambeau Flowage Dam downstream to	. Duynona	Diamond Lake Middle Eau Claire	
9 LaCrosse	Berge Coulee Creek	Park Falls All	and the second second	Lake Namekagon Lake	
10 Langlade	Elton Creek	Class I Portion		Owen Lake Pike Chain of Lakes	
and the second second second	Little Evergreen Creek Mayking Creek	All		(Pike, Millicent, Buskey Bay, Hart,	
al a secolar de la companya de la co	Mayking Creek Michelson Creek	All		Twin Bear, Eagle,	
e e transferencia de la composición de	Mid Branch Embarrass River	Class I Portion		Flynn and Hildur Lakes)	
11. Marathon	Falstad Creek So. Branch	Class II Portion Class I Portion		Star Lake Upper Eau Claire	
n general en Anna Maine. Traisean	Embarrass River			Lake	1.5 <sup>40</sup> 1.00
12 Marinette	No. Branch Beaver Creek	Entire River & tributaries	4. Burnett	Big Mckenzie Lake Big Sand Lake	
13 Oneida	Noisy Creek	Class II Portion		Sand Lake (T40N R15W S25)	
14 Pierce	Kinnickinnic River	From Powell Dam to	5. Columbia	Crystal Lake	
15. Polk	Sand Creek & Tribs	St. Croix River All-Class I & II	6. Douglas	Bond Lake	
	Maria Mar	Portions		Lower Eau Claire Lake	
16. Price, Rusk &	So. Fork Flambeau River	All-Round L Dam		Nebagamon Lake	
Sawyer	ITACL.	downstream to Jxn with No. Fork		Upper St. Croix Lake Whitefish Lake	
Register Sentember 1995	N- 477	Flambeau R	11 - 12 - 14 - 14 1	(Bardon)	

Register, September, 1995, No. 477

### DEPARTMENT OF NATURAL RESOURCES

20. Washburn

13

NR 102.11

22. Waupaca	Graham Lake (Nelson) North Lake
23. Waúshara	Gilbert Lake Lucerne Lake (Egans) Norwegian Lake Pine Lake (Springwater)
<b>(2)</b> The waters in in quality.	n sub. (1) and (1m) may not be lowered
or deleted from, the	rs, or portions thereof, may be added to, e outstanding resource waters designa- le making process under the provisions and s. NR 2.03.
	, February, 1989, No. 398, eff. 3-1-89; am. (1) (d), 1989, No. 403, eff. 8-1-89; cr. (1) (f) and (1m), am. No. 449, eff. 6-1-93.
NR 102.11 Excep	tional resource waters. (1) Surface wa-

ource waters. (1) Surface waters which provide valuable fisheries, hydrologically or geologically unique features, outstanding recreational opportunities, unique environmental settings, and which are not significantly impacted by human activities may be classified as exceptional resource waters. All the following surface waters are designated as exceptional resource waters:

Bass Lake (T40N

Stone Lake (T39N

Spring Lake (T5N

R10W S17)

R10W S24)

R18E S9)

Long Lake Middle McKenzie

Lake Shell Lake

(a) Class I trout waters listed in Wisconsin Trout Streams publication 6-3600 (80) that are not listed in s. NR 102.10.

(b) Other Class I trout waters:

1. Abraham Coulee creek in section 29, township 20 north, range 8 west from its headwaters to the Abraham Coulee road bridge in Trempealeau county.

2. Bear creek originating in section 3, township 20 north, range 7 west in Trempealeau county.

3. Biser creek originating in section 19, township 12 north, range 3 west in Sauk county.

4. Bostwick creek from CTH M upstream 6.2 miles to the headwaters in LaCrosse county.

5. Bufton Hollow creek originating in section 23, township 12 north, range 2 west in Richland county.

6. Columbus creek originating in section 29, township 20 north, range 6 west in Jackson county.

7. Dutch creek originating in section 12, township 19 north, range 8 west in Trempealeau county.

8. Joe Coulee creek originating in section 1, township 20 north, range 7 west in Trempealeau county.

9. Little creek originating in section 21, township 20 north, range 6 west in Jackson county.

10. Marble creek originating in section 30, township 10 north, range 3 east in Sauk county.

Register, September, 1995, No. 477

Lost Lake Perch Lake Riley Lake, South Butternut Lake 8. Forest Franklin Lake Lucerne Lake (Stone) 21 Waukesha Metonga Lake 9. Iron Catherine Lake Cedar Lake Hewitt Lake **Owl** Lake Trude Lake Turtle-Flambeau Flowage 10. Oconto Archibald Lake Bass Lake (T32N R15E S9) Bear Paw Lake Boot Lake Chain Lake 11. Oneida Big Carr Lake Clear Lake (T39N R7E S16) Little Tomahawk Lake Tomahawk Lake Two Sisters Lake 12. Polk Pipe Lake Cochram Lake 13 Price Tucker Lake Bass Lake (T34N 14 Rusk R9W S16) Fish Lake Island Chains of Lakes (Chain, Clear. McMann, and Island Lakes) Three Lakes No. 1 (T36N R9W S25) Bass Lake (T30N 15. St. Croix R19W S23) Perch Lake 16 Sauk **Devils** Lake Barker Lake 17. Sawyer Blaisdell Lake Camp Smith Lake Evergreen Lake Grindstone Lake Lac Court Oreilles Lake Chippewa (Chippewa Flowage) Nelson Lake Osgood Lake Perch Lake (T42N R6W S25) Round Lake (Big Round) Sand Lake Spider Lake Teal Lake Whitefish Lake 18. Vilas Black Oak Lake Crab Lake Crystal Lake (T41N R7E S27) Lac Vieux Desert North Twin Lake Pallette Lake (Clear) Partridge Lake Plum Lake South Twin Lake Star Lake Stormy Lake Trout Lake White Sand Lake (T24N R7E S26)

Edith Lake

Keyes Lake

7. Florence

19. Walworth

Lulu Lake

NR 102.11

11. Marshall creek originating in section 4, township 11 north, range 1 west in Richland county.

12. Martin creek originating in section 22, township 6 north, range 2 east in Iowa county.

13. South Bear creek originating in section 2, township 12 north, range 2 west in Richland county.

14. Spring brook downstream from CTH Y south of Antigo to its confluence with the Eau Claire river in Marathon county.

15. Spring Coulee creek from the headwaters to SE  $\frac{1}{4}$ , SE  $\frac{1}{4}$ , section 33, township 16 north, range 1 east in Monroe county.

16. Unnamed creek 2-12 originating in section 36, township 20 north, range 7 west of Trempealeau county.

17. Unnamed creek 4-9 originating in section 4, township 11 north, range 1 west in Richland county.

18. Unnamed creek 5-6 originating in section 6, township 19 north, range 8 west in Trempealeau county.

19. Unnamed creek 7-4 originating in section 6, township 20 north, range 7 west in Trempealeau county.

20. Unnamed creek 8-9 originating in section 5, township 20 north, range 7 west in Trempealeau county.

21. Unnamed creek 8-14 originating in section 1, township 20 north, range 8 west in Trempealeau county.

22. Unnamed creek 9-13 originating in section 4, township 20 north, range 6 west in Jackson county.

23. Unnamed creek 10-8 originating in section 10, township 11 north, range 1 west in Richland county.

24. Unnamed creek 10-10 originating in section 14, township 20 north, range 6 west in Jackson county.

25. Unnamed creek 11-4 originating in section 1, township 20 north, range 7 west in Trempealeau county.

26. Unnamed creek 11-7 originating in section 2, township 20 north, range 7 west in Trempealeau county.

27. Unnamed creek 13-3a originating in section 19, township 20 north, range 6 west in Trempealeau county.

28. Unnamed creek 13-3b originating in section 6, township 20 north, range 6 west in Trempealeau county.

29. Unnamed creek 15-13 originating in section 1, township 20 north, range 8 west in Trempealeau county.

30. Unnamed creek 15-4 originating in section 3, township 20 north, range 6 west in Trempealeau county.

31. Unnamed creek 16-2 originating in section 22, township 20 north, range 6 west in Jackson county.

32. Unnamed creek 17-5 originating in SE 1/4, section 5, township 20 north, range 6 west in Jackson county.

33. Unnamed creek 24-3a originating in section 24, township 11 north, range 1 west in Richland county.

34. Unnamed creek 26-7 originating in section 2, township 20 north, range 6 west in Jackson county. Register, September, 1995, No. 477 35. Unnamed creek 34-2 originating in section 17, township 20 north, range 8 west in Trempealeau county.

36. Unnamed creek 34-15 originating in section 27, township 20 north, range 7 west in Trempealeau county.

37. Unnamed stream originating in section 29, township 10 north, range 3 east in Sauk county.

38. Washington Coulee creek originating in section 29, township 20 north, range 6 west in Jackson county.

(c) The following Class II trout waters:

1. Ashland county — White river above the Bad River Indian reservation

2. Bayfield county — White river

3. Dane county — Mt. Vernon creek

4. Forest county - North Branch Oconto river

5. Grant county — Blue river

6. Iowa county - Blue river

7. Langlade county — Prairie river, South Branch Oconto river

8. Lincoln county - Prairie river

9. Marquette county — Mecan river

10. Oconto county — North Branch Oconto river, South Branch Oconto river

11. Pierce county — Rush river

12. Portage county — Tomorrow river

13. Richland county - Willow creek

14. St. Croix county - Willow river, Race Branch

15. Waushara county — Mecan river

(d) The following cold or warm water streams and rivers or portions thereof:

Brill River	All-Class II Portion
Copper Creek	All
Plum Creek	All
Sugar Creek	From headwaters to T10N R6W S10
Tainter Creek	From Vernon County Line to CTH "B"
Blue Mounds Branch	All
Deer Creek	All
Dunlap Creek	All
Elvers Creek (Bohn Cr.)	All
Flynn Creek	All
Fryes Feeder Creek	All
Garfoot Creek	All
Milum Creek	All
Rutland Branch	All
Ryan Creek	All
Schalpbach Creek	All
Sixmile Creek	All
Spring Creek (Lodi)	All
Wisconsin River	From below Prairie du Sac to Prairie du Chien
Little Sugar River Story Creek (Tipperary) Sugar Creek	Above New Glarus All, originating in T5N R8E S36 All
	Copper Creek Plum Creek Sugar Creek Tainter Creek Blue Mounds Branch Deer Creek Dunlap Creek Elvers Creek (Bohn Cr.) Flynn Creek Fryes Feeder Creek Garfoot Creek Milum Creek Rutland Branch Ryan Creek Schalpbach Creek Sixmile Creek Spring Creek (Lodi) Wisconsin River Little Sugar River Story Creek

14

# DEPARTMENT OF NATURAL RESOURCES

Consty Line to moth Cady Creek Prom Hyry 77 & 80 updrates to badvates Titubelle River   8. Fond du Lac Feldme's Creek Prom Hyry 77 & 80 updrates Z.T. Richland Rich Globe Hight of Millow   8. Fond du Lac Feldme's Creek Bask for Millow Rich of Millow   9. Forcest Amstrong Creek All Hight of Millow   9. Forcest Amstrong Creek All Hight of Millow   10. Grant Doe Sanifb Franch All Hight of Millow   11. Grant & Lowg Elig Spring Branch All Hight of Creek   12. Green Big Spring Branch All Mill Creek   13. Grant & Lowg Big Spring Branch All Mill Creek   14. Lowa Big Spring Branch All Mill Creek   13. Green Big Spring Branch All Mill Creek   14. Linet Rever All Mill Creek Bask Creek   15. Jonneh Big Spring Nameh All Spring Work All   14. Jova Big Spring Nameh All Spring Work All   15. Jonneh Big Work Creek All Spring Work Creek All   14. Jova Big Work Creek All Spring Work Creek All   15. Jonn Mainter Rever All	outlet to STH 28	R.					
7. Eau Claire Loves Creek Prom Rivy 37 & 85 Thinbelle River   9. Ford du Lac Peddane's Creek Prom Integrates to headquarters to he			39. Washington	River to Little	Bearskin Greek	Uneida	25
7. Eau Claire Lowes Creek Prom Ray 97 & 86 Timbelle River   8. Fond du Lee Feidhard's Creek Prom Neadquarters to Mischo's Millored 27. Richland Hindelle River   9. Forest Armstrong Creek Mischo's Millored Hindelle River Hindelle River   9. Forest Armstrong Creek All Hindelle River Hindelle River   9. Forest Armstrong Creek All Hindelle River Hindelle River   10. Grant Doc Smith Branch All Hindelle River All   10. Grant Doc Smith Branch All Miller Rench Hindelle River   11. Grant & Low Big Spring Branch From Arthur Miller Rench Hindelle River   12. Green Burge Creek All All All Miller Rench   12. Green Burge Creek All All Hindell Creek Hindell Creek   14. Jova Big Spring Branch Filme River Hindell Creek Hindell Creek Hindell Creek   13. Green Burge Creek All All Little Turtle Creek Hindell Creek   14. Jova Burge Creek All Spring Brood Hindell Creek Hindell Creek   14. Jova Burge Creek All Creek All<	ek All River From Rest Lake Dam	Tainter Creek	38. Vilas	All	Soper Creek	Oneide	05
7. Eau Claire Lowes Creak Prom Hory 37 & 85 putterant to hadvatars Cady Creak   7. Eau Claire Lowes Creak Prom Hory 37 & 85 putterant to hadvatars Titubble River Bando Mischo's Millond Titubble River HanedCoreak   8. Pond du Lae Feldmer's Creak Prom headynatters to Mischo's Millond Z. Richiland Higher HanedCoreak   9. Forest Armstrong Creak Mischo's Millond All Higher Creak   10. Grant Doc Smith Branch Rom The Postigo R All Higher Creak   10. Grant Doc Smith Branch Branch All Hill Creak   11. Grant & Jown Big Spring Branch Hafty Creak All Mille Creak   12. Green Big Spring Branch Branch From Athur Mill Creak All Mill Creak   12. Green Big Spring Branch Branch All 28 Rock Hass Fork Raccon Creak   13. Green & Rock Aller All Sanch Hafty Creak All   14. Jown Branch Creak All Sanch Hafty Creak Mill Creak   13. Green & Rock Aller Balow Evanyille Hafty Greek Mill   14. Jowa Branch Creak Hill 28 Rock Balow Evanyille   14. Jowa Balow Evanyille Sanch Balow Evanyille   14. Jowa Balow Evanyille	lley Creek All ek All	Hornby Creek	entra de la composition de la composit La composition de la c	Acorn Rd (S7)	a Tata na sa sa sa	Monroe	24
7 Eau Claire Lowes Creek Prom Rwy 57 & 85 upstream to Eadwaters Cady Creek   7 Eau Claire Lowes Creek Prom Needyaarters to Mischo's Millond Trimbelle River   8 Fond du Lac Peldner's Creek From Needyaarters to Mischo's Millond Glanaell)   9 Forest Armstrong Creek Mischo's Millond Higgins Creek   9 Forest Armstrong Creek All Higgins Creek   8 Middle Br. Peahige R. All Higgins Creek   9 Forest Armstrong Creek All   9 Forest Armstrong Creek Higgins Creek   9 Ocreat Do Smith Branch All   10 Grant & Dow Smith Branch All Miller Smach   11 Grant & Bow Big Spring Branch Prom Springhead to Bive River West Halov Creek   12 Green Bargy Creek All 28 Basa Creek   13 Green & All Basa Creek All Spring Branch   14 Hordy Creek All Basa Creek All   13 Green & All Barach Basa Creek All   14 Branck All Basa Creek Doc Spring Brank   13	county line to Chaseburg	en na speciel og store. Na	an a	All	Branch River	Manitowoc	23.
7. Eau Claire Lowes Creek From Hury 97 & 85 Trimbelle River   9. Ford du Lac Feldner's Creek From headquarters to Mischö's Millpond   8. Fond du Lac Feldner's Creek Mischö's Millpond Mischö's Millpond   9. Forest Arnstrong Creek All Harael Creek   9. Forest Arnstrong Creek All Higgy Tollow Creek   10. Grant Des Smith Branch All Higgy Creek   10. Grant Des Smith Branch All Hill Creek   11. Grant & Love Big Spring Branch From Springhead to Miller Dranch   12. Green Burgy Creek All All Base Forkeece   13. Green & Burgy Creek All Spring Bronch Waar Hollow   14. Greek Hifty Creek All Base Creek   15. Green Burgy Creek All Base Creek   16. Jackron Branch All 23. Rock Base Tork Keep   17. Green Burgy Creek All Base Creek Base Creek   18. Green Burgy Creek All Base Creek Base Creek   19. Green Burgy Creek All Base Creek Base Creek   10. Green Burgy Creek All Base Creek <t< td=""><td></td><td>Coon Creek</td><td>en for an an Carlota. Taoin</td><td></td><td>Silver Creek</td><td></td><td></td></t<>		Coon Creek	en for an an Carlota. Taoin		Silver Creek		
7. Eau Claire Lowes Creek From Havy 97 & 85 Trimble River   8. Fond du Lac Feldnor's Creek From headquarters to Mischo's Millpond   8. Fond du Lac Feldnor's Creek Mischo's Millpond Mischo's Millpond   9. Forest Armstrong Creek All Happy Tollow Creek   9. Forest Armstrong Creek All Higher Creek   10. Grant Doc Smith Branch All Higher Creek   11. Grant & Iowa Big Spring Branch All Mill   12. Green Big Spring Branch All Mill   13. Grant & Iowa Big Spring Branch All Mill   14. Iowa Highy Creek, Anth All Miller Branch   13. Green & Big Spring Branch All All Miller Creek   14. Iowa Big Spring Branch All Miller   15. Green & Bing Creek, Anth All All Base Fork Recoon   14. Janach Highy Creek, Anth Base Fork Recoon Co.   15. Ioon Mainto Creek All Base Fork Recoon Co.   14. Janach Base Fork Recoon Co. Co. Co.   15. Ioon Mainto Creek All Base Fork Recoon Co.   14. Jowa H	Valley All	Cheyenne Valley Creek		CTH "J" to T33N			
7. Eau Claire Lowes Creek From hard y 77 & 85 Thinbile River   8. Fond du Lac Feldner's Creek From haedquarters to 27. Richland Babb Hollow   8. Fond du Lac Feldner's Creek From haedquarters to 27. Richland Martal Creek   9. Forest Armstrong Creek All Hanzbo's Millood Martal Creek   9. Forest Armstrong Creek All Happy Tollow Creek All   10. Grant Doc Smith Barach All Hall Happy Tollow Creek   10. Grant & Lowe Big Spring Branch All Hall Happy Tollow Creek   11. Grant & Lowe Big Spring Branch All Hall Happy Tollow Creek   12. Green Big Spring Branch All All Mill Creek All   12. Green Big Spring Branch All All Mill Creek All   13. Green & All Creek All All Mill Creek All   13. Green & Rock Allen Creek All Spring Fronk Mill Creek All   13. Green & Rock Allen Creek All Spring Fronk Mill Creek All   13. Green & Rock Allen Creek All Spring Fronk All   14. Iowa All <td>Strum Pond</td> <td></td> <td>-</td> <td>T33N R11E S1</td> <td>North Br. Prairie</td> <td>Lincoln</td> <td>22</td>	Strum Pond		-	T33N R11E S1	North Br. Prairie	Lincoln	22
7. Eau Claire Lowes Creek From Hay 37 & 85 Thibble River   8. Fond du Lac Feldner's Creek From haedquarters to Micho's Millpond Z. Richland Thibble River   9. Forest Armstrong Creek All Micho's Millpond Micho's Millpond   9. Forest Armstrong Creek All Higgins Creek Higgins Creek   10. Grant Doc Smith Branch All Higgins Creek Miller   10. Grant & Jowa Big Spring Branch All Higgins Creek Miller Branch   11. Grant & Jowa Big Spring Branch All Miller Branch Mill Creek   12. Green Big Spring Branch All Miller Branch Mill Creek   12. Green Big Spring Branch All Miller Branch Mill Creek   13. Green Big Spring Branch All Spring Brock Bast Creek   14. Hoty Creek All All Bast Creek Mill Creek   13. Green Big Spring Branch All Bast Creek Bast Creek   14. Hoty Creek All Bast Creek All Bast Creek   13. Green Bast Creek All Bast Creek Bast Creek   14. Hoty Creek All Bastrop Creek All Branch Mill Cre	limits to the river mouth in Pierce Co. er From Hwy 53 to	Buffalo Bivor	36 Trompology	R11E S35 SW <sup>4</sup> From Fitzgerald Dam			
7. Eau Claire Lowes Creek From Hay 37 & 53 Timbelle River   8. Fond du Lac Feldner's Creek From headwaters 27. Richland Timbelle River   8. Fond du Lac Feldner's Creek From headwaters 27. Richland Manal Creek   9. Forest Arrantzong Creek All Maidle Br. Peshigo R. All Haggins Creek   9. Forest Arrantzong Creek All Higgins Creek Higgins Creek   10. Grant Doc Smith Branch All Higgins Creek Mill Creek   10. Grant Doc Smith Branch All Higgins Creek Mill Creek   11. Grant & Iowa Big Spring Branch Prom Arthur Mill Creek Mill Creek   12. Green Burgy Creek All 28. Rock Bast Creek   12. Green Burgy Creek All 28. Rock Bast Creek   13. Green Burgy Creek All 29. Rusk Big Weirgor Creek   14. Hory Creek All 29. Rusk Big Weirgor Creek All   13. Green Burgy Creek All 29. Rusk Big Weirgor Creek All   14. Hory Creek All 29. Rusk Big Weirgor Creek All   15. Green Burgy Creek All 29. Rusk	of Hudson City	St. Croix River	35. St. Croix & Pierce	upstream to firelane	R	- างาเรียดต	-1
7. Eau Claire   Lowes Creek   From Hwy 37 & 85   Timbelle River     9. Forest   Armstrong Creek   From Hwy 37 & 85   Timbelle River     9. Forest   Armstrong Creek   From haadquarters to Miselob 3 Millond   Timbelle River     9. Forest   Armstrong Creek   Miselob 3 Millond   Galax 5 Millond     9. Forest   Armstrong Creek   All   Higgins Creek     Midelb S. Peshtigo R.   All   Higgins Creek   Jone All     10. Grant   Doc Smith Branch   All   Higgins Creek   Jone All     10. Grant   Doc Smith Branch   All   Higgins Creek   Mill Creek     11. Grant & Iowa   Big Spring Branch   All   Higgins Creek   Mill Creek     12. Green   Burg Creek   All   28. Rock   Bass Creek   Zerek     12. Green   Burg Creek   All   28. Rock   Bass Creek   Zerek     13. Green & Kock   All   29. Rusk   Big Wort Creek   Jung River   Jung River     14. Iowa   Harkwer Joech All   29. Rusk   Big Wort Creek   Jung River   Jung River   Jung River     14. Iowa   Harkwer	Portion into Delta in Lake Mallileau	ng wang sa		Buncombe Road			i se s
County Line to mouth Cady Creek   7. Eau Claire Lowes Creek From Hwy 37 & 85 upstream to basedwaters to Mischo's Millood Z7. Richland   8. Fond du Lac Feldner's Creek From headquarters to Mischo's Millood Timbelle River   9. Forest Armstrong Creek Middle Br. Peshtigo R. North Br. Peshtigo R. North Br. Peshtigo R. North Br. Peshtigo R. All All Higgins Creek   10. Grant Doc Smith Branch Little Platte River All Higgins Creek All Hill Creek   10. Grant Doc Smith Branch Little Platte River All Creek Mill Creek   11. Grant & Lowa Big Spring Branch Big Spring Branch All Rooth Mill Creek Mill Creek   12. Green Bugy Creek Hely Creek All Z8. Rock Bass Creek Miller Sranch Mill Creek   13. Green & String Valley Creek Kaping Creek All Z9. Rusk Bass Creek Mill Mill Creek   13. Green & Rock Hardy Creek All All 29. Rusk Big Warg Creek Mill Mill Creek   14. Iowa Harker-Lee-Martin System From headwaters to Ten headwaters to Creek S1. Sauk Beaver Creek (Trib to A Dell Creek Jup River Jup River Jup River   14. Iowa Harker-Lee-Martin System From headwaters to Count Y Wr '''' S1. Sauk Beaver Creek (Trib to A Dell Creek Jup	a All Extend Class II		n an	(section 8)		Lafavette	20
7. Eau Claire   Lowes Creek   From Hwy 37 & 85   Trimbelle River     9. Ford du Lac   Peldher's Creek   From headquarters to   Mischo's Millpord   Mainacthon Creek     9. Forest   Armstrong Creek   All   Mischo's Creek   Entric Creek above & below Lake Fifteen   Entrach Mill Creek     9. Forest   Armstrong Creek   All   Higgins Creek   Higgins Creek     9. Forest   Armstrong Creek   All   Higgins Creek   Higgins Creek     10. Grant   Doc Smith Branch   All   Hood Thiver   Miller Branch     10. Grant   Doc Smith Branch   All   Class II Portion   Creek     11. Grant & Jowa   Big Spring Branch   From Springhead to   Bise River   Weat Hollow Creek     12. Green   Burgy Creek   All   All   East Fork Raccoon   G.     12. Green   Burgy Creek   All   28. Rock   Bass Fork Raccoon   G.     14. Branch   All   28. Rock   Bass Fork Raccoon   G.     14. Greek   All   28. Rock   Bass Fork Raccoon   G.     13. Green & Rock   All   29. Rusk   By Weirgor Creek	below CTH "I" to Mouth	where we are a set of the set of	JE NU VIUL	From headwaters to		andra andra andra Anglas anglas anglas Anglas anglas anglas anglas anglas anglas ang anglas ang	
7. Eau Claire   Lowes Creek   From Hwy 37 & 85   Trimbelle River     9. Fond du Lac   Feldner's Creek   From Hwy 37 & 85   27. Richland   Babb Hollow     8. Fond du Lac   Feldner's Creek   From headquarters to   Mischo's Millpond   Melancthon Creek     9. Forest   Armstrong Creek   All   Mischo's Millpond   Melancthon Creek     9. Forest   Armstrong Creek   All   Higgins Creek   Higgins Creek     10. Grant   Doc Smith Branch   All   Higgins Creek   Mill Creek     10. Grant   Doc Smith Branch   All   Creek   Mill Creek     11. Grant & Iowa   Big Spring Branch   From Springhead to   West Br. Armstrong   Creek     11. Grant & Iowa   Big Spring Branch   From Springhead to   Will Creek   Miller Branch     12. Green   Burgy Creek   All   28. Rock   Bass Treek   Bass Treek     13. Green   Burgy Creek   All   28. Rock   Bass Treek   Raccoon Creek     13. Green & Rorgy Creek   All   Syneyster Creek   All   Uranaed Creek   Raccoon Creek     13. Green & Burgy Creek   All   Sy	Junction with Mill Creek r From NSP plant	Annia River	34 St Croiv	County Hwy "O"		La Crosse	19
County Line to mouth Cady Creek   7. Eau Claire Lowes Creek From Hwy 37 & 85 Trimbelle River   9. Ford du Lac Feldner's Creek From beadquarters to Misché's Millpond Babb Hollow   1. Lake Fifteen Creek Entire Creek above & below Lake Fifteen Entire Creek above & below Lake Fifteen Entire Creek above & below Lake Fifteen Entire Creek above & Baranch Mill Creek Entire Creek above & Baranch Mill Creek Entire Creek above & Baranch Mill Creek   9. Forest Armstrong Creek Middle Br. Peshtigo R North Br. Peshtigo R All Higgins Creek Higgins Creek   10. Grant Doc Smith Branch Little Platte River All Higgins Creek Mill Creek   11. Grant & Iowa Big Spring Branch All All Mill Creek   12. Green Burgy Creek All 28. Rock Bass Creek   12. Green Burgy Creek All 28. Rock Bass Creek   13. Green & Rock All 29. Rusk Big Weirgor Creek All   13. Green & Rock All 29. Rusk Big Weirgor Creek All   14. Iowa Harker-Lee-Martin Branch From STH 95 at Histon to CTH "P" at Taylor 31. Sauk Beever Creek (Trib to A Dell Creek)   13. Green & Rock Allen Creek All 29. Rusk Big Weirgor Creek <td< td=""><td>Creek Class II Portion to</td><td></td><td>33. Sheboygan</td><td>Ledge to Kewaunee</td><td>a di seria da seria de la composición d Parte de la composición de la composició</td><td>an an a</td><td></td></td<>	Creek Class II Portion to		33. Sheboygan	Ledge to Kewaunee	a di seria da seria de la composición d Parte de la composición de la composició	an a	
7. Eau Claire Lowes Creek From Hwy 37 & 85 muth Trimbelle River   7. Eau Claire Lowes Creek From Hwy 37 & 85 upstream to 27. Richland Babb Hollow   8. Fond du Lac Feldner's Creek From headquarters to Mischo's Millopid Status Hanzel Creek   9. Forest Armstrong Creek All Higgins Creek E. Branch Mill Creek   9. Forest Armstrong Creek All Higgins Creek Hood Hollow Creek   10. Grant Doc Smith Branch Little Platte River All Higgins Creek Mill Creek   10. Grant Doc Smith Branch Little Platte River All Hiller Branch Platte River Miller Branch Mill Creek Mill Creek   11. Grant & Iowa Big Spring Branch Hefty Creek All 28. Rock Bass Creek Ryan Hollow   12. Green Burgy Creek All 28. Rock Bass Creek Mill Creek   12. Green Burgy Creek All 28. Rock Bass Creek Mill Creek   13. Green & Kock All 29. Rusk Big Wring Brook Jumarmed Creek Jumarmed Creek   13. Green & & Allen Creek All 29. Rusk Big Wring Creek Jumarmed Creek   14. Iowa Harker-Lee-Martin Ross Crossing All 29. Rusk Big Wring Creek </td <td>River of Biver Class II Portion</td> <td>West D- D-1 D</td> <td></td> <td></td> <td>JASCO VICEK</td> <td>A ANGWALLIGE</td> <td>10</td>	River of Biver Class II Portion	West D- D-1 D			JASCO VICEK	A ANGWALLIGE	10
7. Eau Claire Lowes Creek From Hwy 37 & 85 moth Trimbelle River   7. Eau Claire Lowes Creek From Hwy 37 & 85 upstream to 27. Richland Babb Hollow   8. Fond du Lac Feldner's Creek From hadawaters to Mischo's Millpond 27. Richland Babb Hollow   9. Forest Armstrong Creek From hadaparters to Mischo's Millpond Mischo's Millpond Melancthon Creek   9. Forest Armstrong Creek All Happy Filolow Creek E Branch Mill Creek   10. Grant Doc Smith Branch Little Platte River All Higgrins Creek Mill Creek   10. Grant Doc Smith Branch Little Platte River Class II Portion Kepler Branch Mill Creek   11. Grant & Iowa Big Spring Branch Big Spring Branch From Arthur Miller Branch Mill Creek   12. Green Burgy Creek All 28. Rock Bass Creek I   12. Green Burgy Creek All 28. Rock Bass Creek I   12. Green Burgy Creek All 28. Rock Bass Creek I   12. Green Burgy Creek All Zittle Turtle Creek I   13. Green & Allen Creek All Zittle Turtle Creek I   14. Hefty Creek All Zittle Turtle Creek	Lake Dam to Wolf	Ned RIVEI			$(1 - G_{1}) = (1 - G_{2})^{2}$		
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7. Eau Claire   Lowes Creek   From Hwy 37 & 35 upstream to headwaters   7. Richland   Babb Hollow     8. Fond du Lac   Feldner's Creek   From Hwy 37 & 35 upstream to headwaters   27. Richland   Babb Hollow     8. Fond du Lac   Feldner's Creek   From headquarters to Mischo's Millpond   Hanzel Creek   (Hansell)     9. Forest   Armstrong Creek   All   Mildle Br. Peshtigo R.   Higgins Creek   Higgins Creek     9. Forest   Armstrong Creek   All   Higgins Creek   Higgins Creek   Higgins Creek     10. Grant   Doc Smith Branch   All   Hill   Jacquish Hollow   Creek     10. Grant   Doc Smith Branch   All   Hiller Branch   Mill Creek   Mill Creek     11. Grant & Iowa   Big Spring Branch   From Arthur downstream to Blue River   Miller Branch   Mill Creek     12. Green   Burgy Creek   All   Zast Fork Raccoon   Cr.     Hefty Cr, Center   All   East Fork Raccoon   Cr.     Hefty Creek, North   All   East Fork Raccoon   Cr.     12. Green   Burgy Creek   All   Turtle Creek   Mild Creek     Mowreepian Creek<	eek (Trib to All	Camels Creek (Trib		All	-		
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7. Eau Claire   Lowes Creek   From Hwy 37 & 85 mouth   Trimbelle River     7. Eau Claire   Lowes Creek   From Hwy 37 & 85 upstream to   27. Richland   Babb Hollow     8. Fond du Lac   Feldner's Creek   From headquarters to   (Hansell)     Mischo's Millpond   Mischo's Millpond   Melancthon Creek     9. Forest   Armstrong Creek   All     Middle Br. Peshtigo R.   All   Higgins Creek     North Br. Peshtigo R.   All   Higgins Creek     North Br. Peshtigo R.   All   Hood Hollow Creek     10. Grant   Doc Smith Branch Little Platte River   All     11. Grant & Iowa   Big Spring Branch   From Arthur downstream to Platte River   Wheat Hollow Creek     12. Green   Burgy Creek   All   28. Rock   Bass Creek     12. Green   Burgy Creek   All   East Fork Raccoon   Cr.     12. Green   Burgy Creek   All   East Fork Raccoon   Cr.     12. Green   Burgy Creek   All   East Fork Raccoon   Cr.     Hefty Cr, Center   All   East Fork Raccoon   Cr.     Liberty Creek   All   East	Creek T2N All	Unnamed Creek T2		All	Richland Creek		
7. Eau Claire   Lowes Creek   From Hwy 37 & 85 mouth   Trimbelle River     7. Eau Claire   Lowes Creek   From Hwy 37 & 85 upstream to   27. Richland   Babb Hollow     8. Fond du Lac   Feldner's Creek   From headquarters to   (Hansell)     Mischo's Millpond   Melancthon Creek   Coulty Line to myscho's Millpond   Melancthon Creek     9. Forest   Armstrong Creek   Entire Creek above & below Lake Fifteen   E. Branch Mill Creek     9. Forest   Armstrong Creek   All   Higgins Creek     Middle Br. Peshtigo R   All   Hood Hollow Creek     North Br. Posptigo R   All   Heggins Creek   Higgins Creek     North Br. Posptigo R.   All   Jacquish Hollow   Creek     10. Grant   Doc Smith Branch   All   Miller Branch   Mill Creek     11. Grant & Iowa   Big Spring Branch   From Arthur   Miller Branch   Platte River   Weat Hollow Creek   Mill Creek     12. Green   Burgy Creek   All   28. Rock   Bass Creek   Mill Creek   All     12. Green   Burgy Creek   All   28. Rock   Bass Creek   All     12. Green					•	···	1960 - 1
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7. Eau Claire   Lowes Creek   From Hwy 37 & 85   Trimbelle River     7. Eau Claire   Lowes Creek   From Hwy 37 & 85   Trimbelle River     8. Fond du Lac   Feldner's Creek   From headquarters to   (Hansell)     8. Fond du Lac   Feldner's Creek   From headquarters to   (Hansell)     Mischo's Millpond   Melancthon Creek   Coulter Hollow Creek     9. Forest   Armstrong Creek   All   Happy Hollow Creek     9. Forest   Armstrong Creek   All   Higgins Creek     North Br. Peshtigo R.   All   Higgins Creek   Hood Hollow Creek     North Br. Peshtigo R.   All   Class II Portion   Creek     10. Grant   Doc Smith Branch   All   From Arthur   Miller Branch     10. Grant   Doc Smith Branch   All   From Arthur   Miller Branch   Pine Valley Creek	low Creek All			Blue River		2 44 - 1995	
7. Eau Claire   Lowes Creek   From Hwy 37 & 85   Trimbelle River     8. Fond du Lac   Feldner's Creek   From Hwy 37 & 85   Upstream to   27. Richland     8. Fond du Lac   Feldner's Creek   From headquarters to   (Hansell)     Mischo's Millpond   Melancthon Creek     Lake Fifteen Creek   Entire Creek above &   Coulter Hollow Creek     9. Forest   Armstrong Creek   All     Middle Br. Peshtigo   All   Higgins Creek     R.   North Br. Peshtigo   All     North Br. Popple R.   All   Class II Portion     West Br. Armstrong   Creek   Kepler Branch     10. Grant   Doc Smith Branch   All     10. Grant   Doc Smith Branch   All			and a second		Big Spring Branch	1. Grant & Jowa	11
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7. Eau Claire   Lowes Creek   From Hwy 37 & 85   Cady Creek     7. Eau Claire   Lowes Creek   From Hwy 37 & 85   Trimbelle River     8. Fond du Lac   Feldner's Creek   From headquarters to   Hanzel Creek     8. Fond du Lac   Feldner's Creek   From headquarters to   (Hansell)     Mischo's Millpond   Melancthon Creek   Coulter Hollow Creek     9. Forest   Armstrong Creek   All   Happy Hollow Creek     R   North Br. Peshtigo R.   All   Higgins Creek     North Br. Popple R.   All   Cady Creek     West Br. Armstrong   Class II Portion   Creek	above Boaz				Doc Smith Branch	0. Grant	10
7. Eau Claire   Lowes Creek   From Hwy 37 & 85   Cady Creek     7. Eau Claire   Lowes Creek   From Hwy 37 & 85   Trimbelle River     8. Fond du Lac   Feldner's Creek   From headquarters to   Hanzel Creek     8. Fond du Lac   Feldner's Creek   From headquarters to   Malancthon Creek     9. Forest   Armstrong Creek   All   Hanzel     9. Forest   Armstrong Creek   All   Higgins Creek     North Br. Peshtigo R.   All   Higgins Creek   Hood Hollow		Kepler Branch		Class II Portion	West Br. Armstrong		
7. Eau Claire   Lowes Creek   From Hwy 37 & 85   Cady Creek     7. Eau Claire   Lowes Creek   From Hwy 37 & 85   Trimbelle River     8. Fond du Lac   Feldner's Creek   From headquarters to Mischo's Millpond   Cady Creek     9. Forest   Armstrong Creek   All   Hangel     P   P   All   Higgins Creek	Hollow All-Trib to Willow	Jacquish Hollow	an an thairte an thair		North Br. Peshtigo R.		
7 Eau Claire   Lowes Creek   From Hwy 37 & 85   Cady Creek     7 Eau Claire   Lowes Creek   From Hwy 37 & 85   Trimbelle River     8 Fond du Lac   Feldner's Creek   From headquarters to Mischo's Millpond   Cady Creek     8 Fond du Lac   Feldner's Creek   Entire Creek above & below Lake Fifteen   Melancthon Creek					Middle Br. Peshtigo		
County Line to mouth   Cady Creek     7. Eau Claire   Lowes Creek   From Hwy 37 & 85 upstream to   27. Richland   Babb Hollow     8. Fond du Lac   Feldner's Creek   From headquarters to Mischo's Millpond   (Hansell)     Mischo's Millpond   Melancthon Creek   Coulter Hollow Creek	llow Creek All-Trib to Willow			below Lake Fifteen		9. Forest	c
County Line to Cady Creek mouth 7 Eau Claire Lowes Creek From Hwy 37 & 85 Trimbelle River upstream to 27 Richland Babb Hollow headwaters Hanzel Creek	on Creek Class II Section ollow Creek All-Trib to Mill Creek	Melancthon Creek Coulter Hollow Cree		Mischo's Millpond	· · ·		
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County Line to Cady Creek mouth			27. Richland	•	Lowes Creek	7. Eau Claire	7
6. Dunn Sand Creek From Chippewa 26. Pierce Big River	ek From CTH "P" upstream	Cady Creek					
	Class I Portion	Big River	26. Pierce	From Chippewa	Sand Creek	6. Dunn	. (

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NR 102.11

Register, September, 1995, No. 477

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### WISCONSIN ADMINISTRATIVE CODE

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NR	102.1	1
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40 Waukesha	Genesee Creek	Above STH 59
e de la companya de	Mukwonago River	From Eagle Springs Lake to Upper Phantom Lake
	Oconomowoc River	From below North Lake to Okauchee Lake
41. Waupaca	Blake Brook & Branches	Class II Portion
to gala site	Little Wolf River	From junction with Wolf River upstream to Manawa Dam
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	Waupaca River	Class II portion
42 Waupaca & Shawano	Embarrass River	From Wolf River upstream to dam at Pella
43. Waushara	Lower Pine River	From below Wild Rose Millpond to dam at Poy Sippi

(2) The waters identified in sub. (1) may not be lowered in quality except as provided in ch. NR 207.

(3) Surface waters, or portions thereof, may be added to, or deleted from, the exceptional resource waters designation through the rule making process under the provisions of ch. 227, Stats., and s. NR 2.03.

History: Cr. Register, February, 1989, No. 398, eff. 3-1-89; cr. (1) (c), Register, July, 1989, No. 403, eff. 8-1-89; cr. (1) (d), Register, May, 1993, No. 449, eff. 6-1-93.

NR 102.12 Great Lakes waters. (1) The following surface waters are designated as Great Lakes waters:

(a) Lake Michigan, including Green Bay.

(b) Lake Superior.

(2) For the purpose of administering ch. NR 207 and consistent with chs. NR 105 and 106, the waters identified in sub. (1) and their tributaries are to be protected from the impacts of persistent, bioaccumulating toxic substances by avoiding or limiting to the maximum extent practicable increases in these substances.

History: Cr. Register, February, 1989, No. 398, eff. 3-1-89.

NR 102.13 Fish and aquatic life waters. All surface waters not included in s. NR 102.05 (1) (b) 1, 2, 3 or 5 are fish and aquatic life waters.

History: Cr. Register, February, 1989, No. 398, eff. 3-1-89

NR 102.14 Taste and odor criterion. (1) At certain concentrations, substances may not be toxic to humans, but may impart undesirable taste or odor to water or aquatic organisms ingested by humans. The taste and odor criterion is derived to prevent substances from concentrating in surface waters or accumulating in aquatic organisms to a level which results in undesirable tastes or odors to human consumers.

(2) The taste and odor criterion is derived as follows:

(a) For substances which impart tastes and odors to waters, the taste and odor criterion shall equal that threshold concentration  $(TC_w)$  below which objectionable tastes or odors to human consumers do not occur. Threshold concentrations for substances imparting tastes and odors to water are listed in Table 1.

## Table 1

Threshold Concentrations (TCw) for Substances Causing Taste and Odor in Water

Substance	Threshold Concentration (ug/L) <sup>1</sup>
Acenaphthene	20
Chlorobenzene	20
2-Chlorophenol	0.1
3-Chlorophenol	0.1
4-Chlorophenol	0.1-
Copper	1000
2,3-Dichlorophenol	0.04
2,4-Dichlorophenol	0.3
2,5-Dichlorophenol	0.5
2,6-Dichlorophenol	0.2
3,4-Dichlorophenol	0.3
2,4-Dimethylphenol	400
Hexachlorocyclopentadiene	1
2-Methyl-4-Chlorophenol	1800
3-Methyl-4-Chlorophenol	3000
3-Methyl-6-Chlorophenol	20
Nitrobenzene	30
Pentachlorophenol	30
Phenol	300
2,3,4,6-Tetrachlorophenol	1
2,4,5-Trichlorophenol	1
2,4,6-Trichlorophenol	2
Zinc	5000

<sup>1</sup>A threshold concentration expressed in micrograms per liter (ug/L) can be converted to milligrams per liter (mg/L) by dividing the threshold concentration by 1000

(b) For substances which impart tastes or odors to aquatic organisms, the taste and odor criterion shall be calculated as follows:

$TOC = TC_f$		
BAF		
Where:	TOC =	Taste and odor criterion in milligrams per liter (mg/L)
	$TC_f =$	Threshold concentration in milligrams of substance per kilogram of wet tissue weight
		(mg/kg) of the aquatic organism being con- sumed below which undesirable taste and
		odor is not detectable to human consumers as derived in par. (d).
	BAF -	Aquatic life bioconcentration factor with

with \_\_\_\_\_b10 units of liter per kilogram (L/kg) as derived in s NR 105 10

(c) The lower of the taste and odor criteria derived as specified in pars. (a) and (b) is applicable to surface waters classified as public water supplies. The taste and odor criteria derived as specified in par. (b) is applicable to Great Lakes, cold water, and warm water sport fish communities.

(d) Threshold concentrations for substances imparting tastes or odors to water (TCw) other than those listed in Table 1 and threshold concentrations for substances imparting tastes or odors to aquatic organisms (TC<sub>f</sub>) shall be selected by the department using its best professional judgment.

History: Cr. Register, February, 1989, No. 398, eff. 3-1-89.