

Chapter NR 102

WATER QUALITY STANDARDS FOR WISCONSIN SURFACE WATERS

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History: Chapter NR 102 as it existed on September 30, 1973 was repealed and a new chapter NR 102 was created, effective October 1, 1973. Corrections made under s. 13.93 (2m) (b) 7., Stats., Register, August, 1997, No. 500.

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. 281.15 (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. 283.13 (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. 283.13 (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.

(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 (c) 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) *Cold water communities.* This subcategory includes surface waters 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)).

(b) *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.

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

(d) *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.

(e) *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:

(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.

(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 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 WILDLIFE. All surface waters shall be classified for wildlife uses and meet the wildlife 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; am. (3) (intro.), (6), (7), r. (3) (a), renum. (3) (b) to (f) to be (3) (a) to (e) and am. (3) (a), Register, August, 1997, No. 500, eff. 9-1-97.

NR 102.05 Application of standards. **(1) ANTIDegradation.** (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 system 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 Q₁₀); 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 or secondary values 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 criteria and secondary 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. HFS 157.44, 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; am. (1) (b) 3., (3) (intro.) and (d), Register, August, 1997, No. 500, eff. 9-1-97; correction in (6) (a) made under s. 13.93 (2m) (b) 7., Stats. Register July 2006 No. 607, eff. 8-1-06.

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 total 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°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	45°F
February	45°
March	45°
April	55°
May	60°
June	70°
July	80°
August	80°
September	80°
October	65°
November	60°
December	50°

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:

January	40°F
February	40°
March	54°
April	65°
May	75°
June	84°
July	84°
August	84°
September	82°
October	73°
November	58°
December	48°

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, McCann creek

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

7. Door county — Logan creek

8. Douglas county — Bois Brule river and its tributaries including the waters of Lake Superior within a ¼ mile semi-circular arc centered at the middle of the river mouth

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

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, Mekan 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

					Red Cedar River	SEG 1: Outlet of Red Cedar Lake to Inlet of Rice Lake	
					Rock Creek	SEG 2: All within Barron County	
					Upper Pine Creek	Above Dallas Flowage	
				2.	Bayfield	Bark River	All—Class I Portions including the waters of Lake Superior within a ¼ mile semi-circular arc centered at the middle of the river mouth
					Big Brook	All	
					Cranberry River & Tribs.	All—Class I Portion including the waters of Lake Superior within a ¼ mile semi-circular arc centered at the middle of the river mouth.	
					East Fork Iron River & Tribs.	All—Class I Portion	
					East Fork White River	All—Class I Portion	
					Eighteen Mile Cr. & Tribs.	All—Class I Portion	
					Fish Creek (Main)	All including the waters of Lake Superior within a ¼ mile semi-circular arc centered at the middle of the river mouth.	
					Long Lake Branch & Tribs.	From below Drummond Lake to White River	
					No. Fork Fish Creek & Tribs.	All—Class I & II Portions	
					Onion River & Tribs.	All—Class I Portions including the waters of Lake Superior within a ¼ mile semi-circular arc centered at the middle of the river mouth.	
					Pikes Creek & Tribs.	All—Class I Portion including the waters of Lake Superior within a ¼ mile semi-circular arc centered at the middle of the river mouth.	
4.	Grant county	— Big Green river, Castle Rock creek					
5.	Marinette county	— Peshtigo river					
6.	Polk county	— McKenzie creek					
7.	Vilas county	— Plum creek					
(f)	The following cold or warm water streams and rivers or portions thereof:						
1d.	Ashland	Bad River	SEG 1: Origin to Outfall in Mellen at NW¼SW¼ S6 T44N R2W				
		Brunswailer River	SEG 1: Origin to Inlet of Spider Lake				
			SEG 2: Outlet of Moquah Lake to Inlet of Mineral Lake				
			SEG 3: Outlet of Mineral Lake to Inlet of Beaverdam Lake				
			SEG 4: Outlet of Beaverdam Lake (at the dam) to the Bad River Indian Reservation Boundary				
1h.	Ashland & Bayfield	Marengo River	SEG 1: Origin to Inlet of Marengo Lake				
			SEG 2: Outlet of Marengo Lake to Bad River Indian Reservation Boundary				
1p.	Ashland & Sawyer	E. Fork Chippewa River	SEG1: T42N R1E S17/18 Line to Ashland County Highway "N" in Glidden				
			SEG 6: Outlet of Barker Lake to Confluence with Chippewa Flowage				
			SEG 3: Outlet of Pelican Lake to Inlet of Blaisdell Lake				
			SEG 4: Outlet of Blaisdell Lake to Inlet of Hunter Lake				
			SEG 5: Outlet of Hunter Lake to Inlet of Barker Lake				
1t.	Barron	Engle Creek	Class I & II Portions				
		Hickey Creek	Class I & II Portions				

		Sioux River & Tribs.	All—Class I & II Portions including the waters of Lake Superior within a ¼ mile semi-circular arc centered at the middle of the river mouth.	2p.	Bayfield, Sawyer, Washburn, Douglas & Burnett	Totagatic River	SEG 1: Origin (Confluence of West Fork Totagatic River and East Fork Totagatic River) to Inlet of Nelson Lake
		So. Fork White River	All—Class I Portion				SEG 2: Outlet of Totagatic Flowage to Inlet of Colton Flowage
		Thompson Creek	All—Class I Portion				SEG 3: Outlet of Colton Flowage to Inlet of Minong Flowage
		Twenty Mile Creek	All—Class I & II Portions				SEG 4: Outlet of Minong Flowage to Confluence with Namekagon River
		White River	All—Class I Portion				
		Whittlesey Creek & Tribs.	All—Class I Portions including the waters of Lake Superior within a ¼ mile semi-circular arc centered at the middle of the river mouth.	3.	Burnett	North Fork Clam River	County Highway “H” to Confluence with Clam River
2d.	Bayfield & Ashland	Beartrap Creek	SEG 1: Origin to Bad River Indian Reservation Boundary			Tributaries to the N. & S. Forks of the Clam River	All—Class I & II Portions
2h.	Bayfield, Ashland & Sawyer	West Fork Chipewewa River	SEG 1: Origin (Outlet of Chipewewa Lake) to Inlet of Day Lake	4.	Dane	Mt. Vernon Creek	All—Class I Portion
			SEG 2: Outlet of Day Lake to Inlet of Upper Clam Lake	5.	Door	Mink River	All
			SEG 3: Outlet of Upper Clam Lake to Inlet of Lower Clam Lake	5m.	Douglas	Amnicon River	SEG 1: Origin (Outlet of Amnicon Lake) to Inlet of Lyman Lake
			SEG 4: Outlet of Lower Clam Lake to Inlet of Cattail Lake			Moose River	All
			SEG 5: Outlet of Cattail Lake to Inlet of Meadow Lake			Spruce River	All
			SEG 6: Outlet of Meadow Lake to Inlet of Partridge Crop Lake			St. Croix River	SEG 1: Outlet of Upper St. Croix Lake to Inlet of St. Croix Flowage
			SEG 7: Outlet of Partridge Crop Lake to Inlet of Moose Lake	6.	Forest	Allen Creek	All
			SEG 8: Outlet of Moose Lake to Sawyer County Highway “B”			Brule Creek	All
						Elvoy Creek	All
						Jones Creek	Class I & II portions
						North Otter Creek	All

6m.	Forest & Langlade	Swamp Creek	SEG 1: Outlet of Lake Lucerne to Mole Lake Indian Reservation Boundary SEG 3: All below Mole Lake Indian Reservation Boundary to Confluence of Wolf River	14.	Pierce	Squirrel River Tomahawk River	Outlet of Squirrel Lake to Confluence with Tomahawk River SEG 2: Outlet of Willow Flowage Dam to Inlet of Lake Nokomis
7.	Grant	Little Green River	All	15.	Polk	Sand Creek & Tribs	All—Class I & II Portions
7m.	Iron & Ashland	Tyler Forks	SEG 1: Origin in Iron County to Bad River Indian Reservation Eastern Boundary in Ashland County SEG 3: From Bad River Indian Reservation Southern Boundary to Confluence with Bad River	15e.	Polk & Burnett	Clam River	SEG 1: Outlet of Clam Falls Flowage to Inlet of Clam Lake SEG 2: Outlet of Lower Clam Lake to Section Line @ T39N R16W S21/22
		Potato River	SEG 1: Origin to Bad River Indian Reservation Boundary	15m.	Price	Elk River	SEG 1: Headwaters to Inlet of Musser Lake
					Price & Lincoln	Spirit River	Outlet of Spirit Lake to Inlet of Spirit River Flowage
8.	Iron, Ashland & Price	Flambeau River	SEG 1: Turtle–Flambeau Flowage (Outlet @ Turtle–Flambeau Dam) to Inlet of Upper Park Falls Flowage	16.	Price, Rusk & Sawyer	So. Fork Flambeau River	All—Round L. Dam downstream to Jxn with No. Fork Flambeau R.
		No. Fork Flambeau River	From Turtle–Flambeau Flowage Dam downstream to Park Falls	17.	Richland	Elk Creek	All
				18.	Rusk	Devils Creek	All—Class I & II Portions
9.	LaCrosse	Berge Coulee Creek	All			Soft Maple Creek	SEG 1: Origin to Rusk County Highway “F”
10.	Langlade	Elton Creek	Class I Portion			So. Fork Main Creek	Class I & II Portions (T35N R3W S28 downstream to T34N R4W S11)
		Little Evergreen Creek	All			Swift Creek	Outlet of Island Lake to Inlet of Fireside Lake
		Mayking Creek	All				
		Michelson Creek	All				
		Mid Branch Embarrass River	Class I Portion	19.	Sauk	Otter Creek	From headwaters to southern section line of T11N R6E S33
10m.	Lincoln	New Wood River	Origin (T33N R4E S14) to Confluence with Wisconsin River			Parfrey’s Glen	From headwaters to CTH DL
11.	Marathon	Falstad Creek	Class II Portion	20.	Sawyer	Benson Creek	All—Class I Portion
		So. Branch Embarrass River	Class I Portion				
12.	Marinette	No. Branch Beaver Creek	Entire River & tributaries				
13.	Oneida	Noisy Creek	Class II Portion				

		Couderay River	SEG 1: Origin at Outlet of Billy Boy Flowage to Inlet of Grimh Flowage (Including Waters within Lac Courte Oreilles Indian Reservation)			Elvoy Creek & Springs	Class I & II Portions
		Eddy Creek	All-Class I Portion			Manitowish River	SEG 1: Adjacent to Dam Road Downstream to Inlet of Boulder Lake
		Grindstone Creek	All-Class I Portion				SEG 2: Outlet of Boulder Lake to Inlet of Island Lake
		Knuteson Creek	SEG 1: Outlet of Wise Lake to Inlet of Knuteson Lake SEG 2: Outlet of Knuteson Lake to Inlet of Lake Che-tek			Mishonagon Creek	Class I & II Portions
		Little Weirgor Creek & Tribs	All-Class I & II Portions			Siphon Creek	All
		McDermott Creek	All			Spring Meadow Creek	Class I Portion
		Mosquito Brook	All-Class I Portion			Tamarack Creek	All
		Teal River	Outlet of Teal Lake to Confluence with West Fork Chippewa River			Trout River	SEG 1: Outlet of Trout Lake to Lac Du Flambeau Indian Reservation Eastern Boundary
20m.	Sawyer & Rusk	Thornapple River	SEG 1: Origin to Rusk County Highway "J"	22m.	Vilas & Oneida	Wisconsin River	SEG 1: Orgin (Outlet of Lac Vieux Desert) to Inlet of Water-smeet Lake
		Chippewa River	SEG 1: Dam at Chippewa Flowage to Inlet of Radisson Flowage (T38N R7W S13)	23.	Washburn	Beaver Brook	All-Class I Portion
21.	Shawano	Middle Br. Embarrass R.	Origin to but not including Homme Pond			Sawyer Creek	All-Class I & II Portions
		No. Br. Embarrass R.	Origin to CTH J			So. Fork Bean Brook	All-Class I Portion
		So. Br. Embarrass R.	Origin to but not including Tigerton Pond	23m.	Washburn & Barron	Bear Creek	SEG 1: Outlet of Kekegama Lake to Inlet of Bear Lake SEG 2: Outlet of Bear Lake to Inlet at Stump Lake
21g.	Taylor & Chip-pewa	Yellow River	SEG 1: Confluence with South Fork Yellow River to Inlet of Chequamegon Waters Flowage SEG 2: Outlet of Chequamegon Waters Flowage (at Miller Dam) to State Highway 64/73	(1m) The following lakes are designated as outstanding resource waters:			
				1.	Ashland	Bad River Slough Kakagon Slough Lake Superior within ¼ mile of the shoreline of the islands within the Apostle Island National Lakeshore	
				2.	Barron	Bear Lake (T36N R12W S2) Red Cedar Lake Sand Lake Silver Lake	
21r.	Taylor & Price	Silver Creek	SEG 1: Origin to Westboro Sanitary District Outfall	3.	Bayfield	Bark Bay Slough Diamond Lake Lake Superior within ¼ mile of the shoreline of the islands within the Apostle Island National Lakeshore Middle Eau Claire Lake	
22.	Vilas	Allequash Springs	Class I & II Portions				
		Brule Creek	All				
		East Br. Blackjack Cr.	All				

- | | | | |
|---------------|---|--------------|--|
| | Namekagon Lake | | Perch Lake |
| | Owen Lake | 16. Sauk | Devils Lake |
| | Pike Chain of Lakes (Pike, Millicent,
Buskey Bay, Hart, Twin Bear, Eagle,
Flynn and Hildur Lakes) | 17. Sawyer | Barker Lake |
| | Star Lake | | Blaisdell Lake |
| | Upper Eau Claire Lake | | Camp Smith Lake |
| 4. Burnett | Big Mckenzie Lake | | Evergreen Lake |
| | Big Sand Lake | | Grindstone Lake |
| | Sand Lake (T40N R15W S25) | | Lac Court Oreilles |
| 5. Columbia | Crystal Lake | | Lake Chippewa (Chippewa Flowage) |
| 6. Douglas | Bond Lake | | Nelson Lake |
| | Lower Eau Claire Lake | | Osgood Lake |
| | Nebagamon Lake | | Perch Lake (T42N R6W S25) |
| | St. Croix (Gordon) Flowage | | Round Lake (Big Round) |
| | Upper St. Croix Lake | | Sand Lake |
| | Whitefish Lake (Bardon) | | Spider Lake |
| 7. Florence | Edith Lake | 18. Vilas | Teal Lake |
| | Keyes Lake | | Whitefish Lake |
| | Lost Lake | | Black Oak Lake |
| | Perch Lake | | Crab Lake |
| | Riley Lake, South | | Crystal Lake (T41N R7E S27) |
| 8. Forest | Butternut Lake | | Lac Vieux Desert |
| | Franklin Lake | | North Twin Lake |
| | Lucerne Lake (Stone) | | Palette Lake (Clear) |
| | Metonga Lake | | Partridge Lake |
| 9. Iron | Catherine Lake | | Plum Lake |
| | Cedar Lake | | South Twin Lake |
| | Gile Flowage | | Star Lake |
| | Hewitt Lake | | Stormy Lake |
| | Owl Lake | | Trout Lake |
| | Trude Lake | 19. Walworth | White Sand Lake (T24N R7E S26) |
| | Turtle-Flambeau Flowage | 20. Washburn | Lulu Lake |
| 9m. Marinette | Caldron Falls Flowage | | Bass Lake (T40N R10W S17) |
| 10. Oconto | Archibald Lake | | Long Lake |
| | Bass Lake (T32N R15E S9) | | Middle McKenzie Lake |
| | Bear Paw Lake | | Shell Lake |
| | Boot Lake | | Stone Lake (T39N R10W S24) |
| | Chain Lake | 21. Waukesha | Spring Lake (T5N R18E S9) |
| 11. Oneida | Big Carr Lake | 22. Waupaca | Graham Lake (Nelson) |
| | Clear Lake (T39N R7E S16) | | North Lake |
| | Little Tomahawk Lake | 23. Waushara | Gilbert Lake |
| | Tomahawk Lake | | Lucerne Lake (Egans) |
| | Two Sisters Lake | | Norwegian Lake |
| | Willow Flowage | | Pine Lake (Springwater) |
| 12. Polk | Pipe Lake | | |
| 13. Price | Cochram Lake | | (2) The waters in sub. (1) and (1m) may not be lowered in quality. |
| | Tucker Lake | | (3) Surface waters, or portions thereof, may be added to, or deleted from, the outstanding resource waters designation through the rule making process under the provisions of ch. 227, Stats., and s. NR 2.03. |
| 14. Rusk | Bass Lake (T34N R9W S16) | | History: Cr. Register, February, 1989, No. 398, eff. 3-1-89; am. (1) (d), cr. (1) (e), Register, July, 1989, No. 403, eff. 8-1-89; cr. (1) (f) and (1m), am. (2), Register, May, 1993, No. 449, eff. 6-1-93; am. (1m) 6., 9. and 11., cr. (1m) 9m., Register, February, 1998, No. 506, eff. 3-1-98; CR 05-089: am. (1) (d) 8., (f) 2., (1m) 1. and 3. Register July 2006 No. 607, eff. 8-1-06; CR 05-105: renum. (1) (f) 1. to be 1t. and am., cr. (1) (f) 1d., 1h., 1p., 2d., 2h., 2p., 5m., 6m., 7m., 10m., 15e., 15m., 15s., 20m., 21g., 21r., 22m., and 23m., am. (1) (f) 3., 8. 13., 18., 20., 22., and 23., Register November 2006 No. 611, eff. 12-1-06; reprinted to correct error in (1) (d) 6. Register March 2008 No. 627. |
| 15. St. Croix | Island Chains of Lakes (Chain, Clear, McMann, and Island Lakes) | | |
| | Three Lakes No. 1 (T36N R9W S25) | | |
| | Bass Lake (T30N R19W S23) | | |

NR 102.11 Exceptional resource 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:

(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.
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 1/4, SE 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.
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 — Mekan 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 — Mekan river

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

1g.	Ashland	Bad River	SEG 2: Outfall in Mellen at NE 1/4 SW 1/4 S6 T44N R2W to Bad River Indian Reservation Boundary
1r.	Ashland & Sawyer	East Fork Chipewewa River	SEG 2: Ashland County Highway "N" to Confluence of Rocky Run Creek (Includes Glidden POTW)
1t.	Barron	Brill River	All—Class II Portion
2.	Crawford	Copper Creek Plum Creek	All All

		Sugar Creek	From headwaters to T10N R6W S10	12.	Green	Burgy Creek	All
		Tainter Creek	From Vernon County Line to CTH B			Gill Creek	All
3.	Dane	Blue Mounds Branch	All			Hefty Creek, North Branch	All
		Deer Creek	All			Hefty Cr., Center Branch	All
		Dunlap Creek	All			Liberty Creek	All
		Elvers Creek (Bohn Cr.)	All			Norwegian Creek	All
		Flynn Creek	All			Richland Creek	All
		Fryes Feeder Creek	All			Ross Crossing	All
		Garfoot Creek	All			Sylvester Creek	All
		Milum Creek	All	13.	Green & Rock	Spring Valley Creek	All
		Rutland Branch	All			Ward Creek	All
		Ryan Creek	All	14.	Iowa	Allen Creek	Below Evansville
		Schalpbach Creek	All	15.	Iron	Harker-Lee-Martin System	From headwaters to T6N R2ES10
		Sixmile Creek	All	15m.	Iron & Ashland	Maintowish River	All
		Spring Creek (Lodi)	All			Vaughn Creek	SEG 1: Origin to Bad River Indian Reservation Boundary
4.	Dane, Sauk, Iowa, Grant, Richland, Crawford	Wisconsin River	From below Prairie du Sac to Prairie du Chien	16.	Jackson	Trempealeau River	From STH 95 at Hixton to CTHP at Taylor
5.	Dane & Green	Little Sugar River	Above New Glarus	17.	Jefferson	Allen Creek	All
		Story Creek (Tipperary)	All, originating in T5N R8E S36	18.	Kewaunee	Casco Creek	From T24N R24E S19 downstream of Rock Ledge to Kewaunee River
		Sugar Creek	All	19.	La Crosse	Bostwick Creek	From headwaters to County Hwy 'O'
6.	Dunn	Sand Creek	From Chippewa County Line to mouth			Coon Creek	All
7.	Eau Claire	Lowes Creek	From Hwy 37 & 85 upstream to headwaters			Dutch Creek	From headwaters to Russian Coulee Road (section 8)
8.	Fond du Lac	Feldner's Creek	From headquarters to Mischo's Millpond	20.	Lafayette	Galena River	From headwaters to Buncombe Road
		Lake Fifteen Creek	Entire Creek above & below Lake Fifteen	21.	Langlade	East Br. Eau Claire R.	From STH 64 upstream to fire-lane crossing in T33N R11E S35 SW1/4
9.	Forest	Armstrong Creek	All			Hunting River	From Fitzgerald Dam Road downstream to T33N R11E S1
		Middle Br. Peshigo R.	All	22.	Lincoln	North Br. Prairie River	From headwaters to CTHJ to T33N R8E
		North Br. Peshtigo R.	All			Silver Creek	All
		North Br. Popple R.	All	23.	Manitowoc	Branch River	All
		West Br. Armstrong Creek	Class II Portion	24.	Monroe	Big Creek	From headwaters to Acorn Rd (S7)
10.	Grant	Doc Smith Branch	All			Farmers Valley Creek & Tribs	From headwaters to I-90 (S19)
		Little Platte River	From Arthur downstream to Platte River				
11.	Grant & Iowa	Big Spring Branch	From Springhead to Blue River				

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25.	Oneida	Soper Creek Bearskin Creek	All From Tomahawk River to Little Bearskin Lake		Hood Hollow Creek Jacquish Hollow Creek	All-Trib to Mill Creek All-Trib to Willow Creek	
25m.	Oneida & Lincoln	Wisconsin River	SEG 2: Hat Rapids Dam to Lincoln County A crossing SEG 4: Grandfather Dam to Inlet of Alexander Lake		Kepler Branch Mill Creek Miller Branch	All-Trib to Mill Creek From headwaters to above Boaz All-Trib to Mill Creek	
26.	Pierce	Big River Cady Creek	Class I Portion From CTH P upstream		Pine Valley Creek Ryan Hollow	All-Trib to Mill Creek All-Trib to West Branch Mill Creek	
26c.	Polk & Burnett	Trimbelle River Clam River	All SEG 3: Section Line @ T39N R16W S21/22 to Inlet of Clam River Flowage SEG 4: Outlet of Clam River Flowage to Confluence with St. Croix River		Wheat Hollow Creek W. Branch Mill Creek	All All	
26g.	Price	North Fork Jump River	SEG 1: Origin (outlet of Cranberry Lake) to Inlet of Spring Creek Flowage SEG 2: Outlet of Spring Creek Flowage to Confluence with South Fork Jump River	28.	Rock	Bass Creek East Fork Raccoon Cr. Little Turtle Creek Raccoon Creek Spring Brook Turtle Creek Unnamed Creek T2N R14E S31	All All All All All All
26n.	Price, Rusk & Taylor	Jump River	SEG 1: Confluence of the North Fork Jump River and South Fork Jump River to the Village of Jump River	29.	Rusk	Big Weirgor Creek Main Creek Soft Maple Creek	All-Class III Portion Rusk County Highway P to Inlet of Holcombe Flowage SEG 2: Rusk County Highway "F" to Confluence with Chippewa River
26r.	Price, Sawyer, Rusk	Flambeau River	SEG 2: Crowley Dam to Inlet of Big Falls Flowage	30.	Rusk, Taylor & Chippewa	Jump River	From Village of Jump River downstream to Holcombe Flowage
26w.	Price & Taylor	South Fork Jump River	Origin to Confluence with North Fork Jump River	31.	Sauk	Beaver Creek (Trib to Dell Creek) Camels Creek (Trib to Dell Creek) Dell Creek	All All All
27.	Richland	Babb Hollow Hanzel Creek (Hansell) Melancthon Creek Coulter Hollow Creek E. Branch Mill Creek Happy Hollow Creek Higgins Creek	All-Trib to Mill Creek All-Trib to Melancthon Cr. Class II Section All-Trib to Mill Creek All All-Trib to Willow Creek All-Trib to Mill Creek	31m.	Sawyer	Couderay River	SEG 2: Dam at Grimh Flowage to Confluence with Chippewa River
				32.	Shawano	Kroenke Creek Red River West Br. Red River	Class II Portion From Lower Red Lake Dam to Wolf River Class II Portion

33.	Sheboygan	Ben Nutt Creek	Class II Portion to Junction with Mill Creek
34.	St. Croix	Apple River	From NSP plant below CTH I to Mouth
		Cady Creek	All
		Willow River	Extend Class II Portion into Delta in Lake Mallileau
35.	St. Croix & Pierce	St. Croix River	From No. Boundary of Hudson City limits to the river mouth in Pierce Co.
35m.	Taylor & Price	Silver Creek	SEG 2: Westboro Sanitary District Outfall to Confluence with South Fork Jump River
36.	Trempealeau	Buffalo River	From Hwy 53 to Strum Pond
37.	Vernon	Bishop Branch	All
		Cheyenne Valley Creek	All
		Coon Creek	From La Crosse county line to Chaseburg
		Frohock Valley Creek	All
		Hornby Creek	All
		Reads Creek	All
		Tainter Creek	All
38.	Vilas	Manitowish River	From Rest Lake Dam downstream to Iron County line
38m.	Vilas & Oneida	Wisconsin River	SEG 2: State Highway 70 to Inlet at Rainbow Flowage (Oneida County Line) SEG 3: Outlet of Rainbow Flowage (Oneida County Highway "D" to Inlet of Rhineland Flowage (T37N R8E S8 SE¼NE¼)
39.	Washington	E. Branch Milwaukee R.	From Long Lake outlet to STH 28
40.	Waukesha	Genesee Creek	Above STH 59
		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
		Little Wolf River	From junction with Wolf River upstream to Manawa Dam
		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 Mill pond 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; CR 05-105: renum. (1) (d) 1. to be 1t., cr. 1g., 1r., 15m., 25m., 26c., 26n., 26r., 26w., 31m., 35m., and 38m., am. 29., Register November 2006 No. 611, eff. 12-1-06.

NR 102.12 Great Lakes system. (1) The Great Lakes system includes all the surface waters within the drainage basin of the Great Lakes.

(2) For the purpose of administering ch. NR 207 and consistent with chs. NR 105 and 106, the waters identified in sub. (1) 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.

(3) The waters of the Lake Superior basin shall be managed to prevent any new or increased discharges of the following pollutants: DDT, DDE and metabolites, chlordane, toxaphene, hexachlorobenzene, 2,3,7,8 TCDD, octachlorostyrene, mercury and PCB's. For purposes of administering ch. NR 207, new or increased discharges of these pollutants shall be prohibited unless the applicant certifies at time of application, that the new or increased discharge is necessary after utilization of best technology in process or control using waste minimization, pollution prevention, municipal pretreatment programs, material substitution or other means of commercially available technologies which have demonstrated capability for similar applications.

History: Cr. Register, February, 1989, No. 398, eff. 3-1-89; r. and recr. (1), am. (2), Register, August, 1997, No. 500, eff. 9-1-97; CR 05-089: cr. (3) Register July 2006 No. 607, eff. 8-1-06.

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 criteria. (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 con-

sumers do not occur. Threshold concentrations for substances imparting tastes and odors to water are listed in Table 1.

Table 1
Threshold Concentrations (TC_w) for Substances Causing Taste and Odor in Water

Substance	Threshold Concentration (ug/L) ¹
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

¹ 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:

$$TOC = \frac{TC^1}{BAF}$$

- Where:
- TOC = Taste and odor criterion in milligrams per liter (mg/L).
 - TC = Threshold concentration in milligrams of substance per kilogram of wet tissue weight (mg/kg) of the aquatic organism being consumed below which undesirable taste and odor is not detectable to human consumers as derived in par. (d).
 - BAF = Aquatic life bioaccumulation factor with 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) are applicable to cold water and warm water sport fish communities.

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

History: Cr. Register, February, 1989, No. 398, eff. 3-1-89; am. (2) (b) and (c), Register, August, 1997, No. 500, eff. 9-1-97.