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Wisconsin's 2012 Water Quality Report: Watershed Planning and Impaired Waters List



Live Webinar
Presented on January 5, 2012
1:30 PM - 2:30 PM CST



Presented with assistance from the
UW-Extension Regional Natural
Resources Program



Webinar Presenters



Lisa Helmuth

Water Policy, Planning and Assessments
Bureau of Water Quality



Aaron Larson

Water Evaluation Section
Bureau of Water Quality



Clean Water Act Products

- Aaron Larson
- Nicole Clayton
- Kristi Minahan
- Tim Asplund
- Bob Masnado
- Jennifer Filbert
- Mark Binder
- Sonya Rowe
- Matt Rehwald
- Brian Tinberg
- Water Quality Biologists**
- Water Quality Managers
- Lisa Helmuth
- Jordan Emerson
- Chris Pracheil
- Sudheer Kata
- Jim Hudson
- Scott Mason
- John Exo, UW Extension
- Bill Klase, UW Extension

Webinar Topics

- Clean Water Act Overview
- Watershed Planning Overview & Updates
- Assessment Methods
- Impaired Waters List Overview & Updates
- Find Information on WDNR Website



Clean Water Act (CWA)

- Congress Passed - 1972
- Objective:
 - Restore & maintain chemical, physical and biological integrity of the nation's waters.
- Goals:
 - No toxic discharges in toxic amounts.
 - All waters “fishable and swimmable”.

(CWA Section 101(a)(2))



Clean Water Act (CWA)

- Requires states provide information to congress & the public about our waters.
- Requires specific reports, permits, and program plans.
 - Examples:
 - Water Quality Report to Congress (305(b))
 - Impaired Waters List (303(d))
 - Water Quality Planning (208 Plans)



Water Quality Report to Congress (Integrated Report: 305b + 303d)

Every two years (...2010, 2012, 2014...)

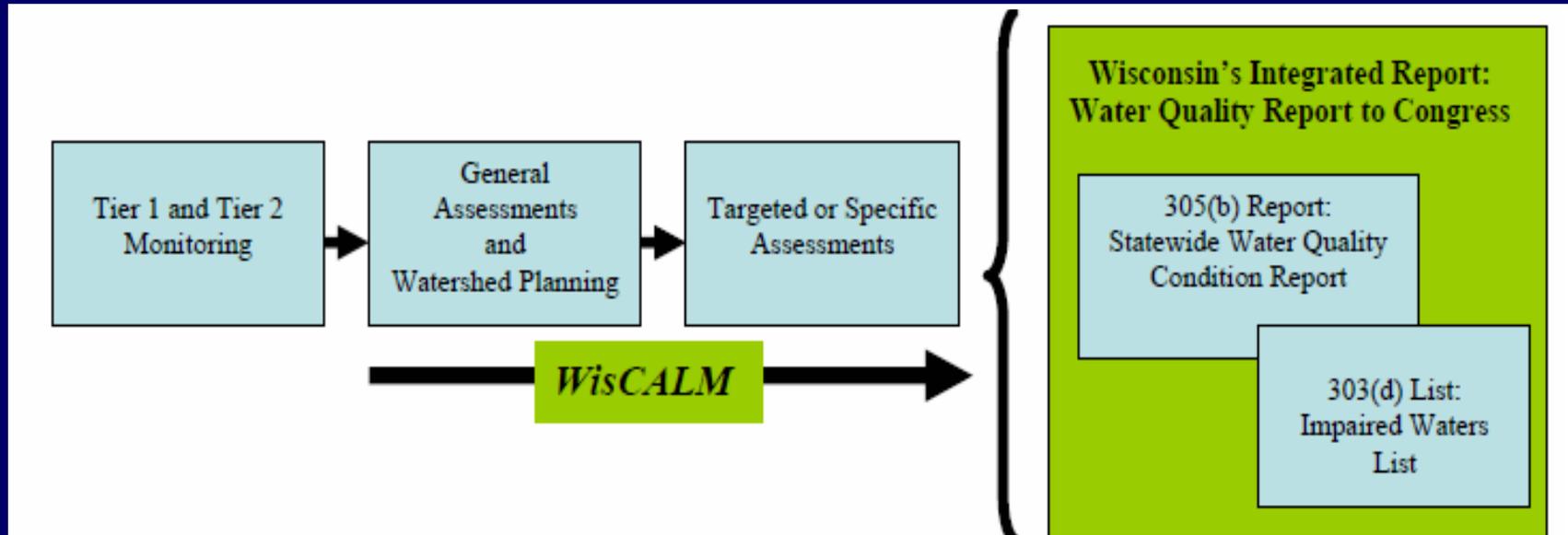
- Statewide Assessments (305b)
- Update List of Impaired Waters (303d)
- Report on Monitoring, Assessment, and Management

... to USEPA & the Public.



Integrated Reporting

- Monitoring
- Assessments
- Reporting



Water Quality Management Planning

Every Year → One Watershed / Basin / Year

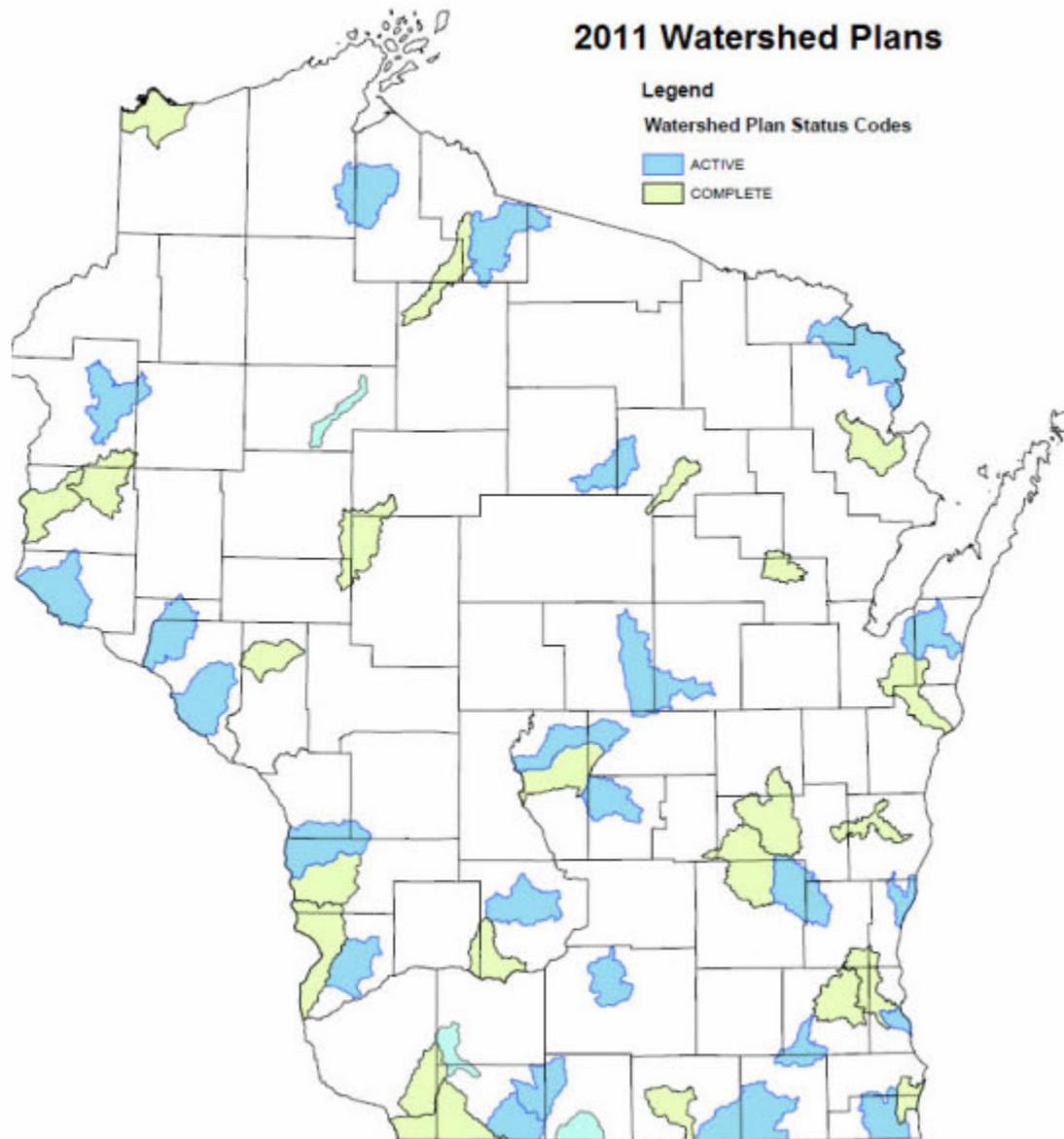
Water Quality Management Planning
(CWA Section 208, State NR121)

- Assessments of waters
- Analysis & descriptions of watersheds, resources, priority issues, & management recommendations.



Click on the map below to view online watershed plans.

2011 Watershed Plans



Draft 2011 Watershed Plans

[Coon Creek \(BL03\)](#)

[Waunmandee Creek \(BT06\)](#)

[Big Roche A Cri \(CW06\)](#)

[Pine River \(CW29\)](#)

[Des Plaines \(FX01\)](#)

[Mukwonago River \(FX06\)](#)

[Pemebonwon Middle \(GB15\)](#)

[Bear Creek \(LC01\)](#)

[Trimbelle Isabelle \(LC23\)](#)

[Turtle Creek \(LR01\)](#)

[Six Mile Cr \(LR10\)](#)

[Marengo River \(LS12\)](#)
Available After 12/22/11

[Lower Kickapoo \(LW02\)](#)

[Narrows Creek \(LW22\)](#)

[Kinnickinnic River \(MI01\)](#)

[Upper Apple \(SC06\)](#)

[Sauk Sucker Creek \(SH01\)](#)

[L. E. Br. Pecosonica \(SP03\)](#)

[Kewaunee River \(TK03\)](#)

[Flambeau Flowage \(UC14\)](#)

[Montello River \(UF13\)](#)

[E. Br. Rock River \(UR13\)](#)

[Waupaca River \(WR05\)](#)

2011 Water Quality Management Plan Update

Bad Axe-La Crosse Basin, Wisconsin

Draft December 2011

The Coon Creek Watershed, located in west central Vernon, southwest Monroe, and southern La Crosse counties, covers 238 square miles and includes all streams that drain to Coon Creek as well as the following Mississippi River tributaries: Chipmunk Coulee Creek, Mormon Coulee Creek, Creek 16-6 and Creek 29-1. This watershed contains more than 136 miles of classified trout streams, the majority of which contain self-sustaining trout populations.

The Coon Creek Watershed contains steep, wooded hills with farming activities in both the valleys and ridge tops. Streams in the Coon Creek Watershed characteristically contain clear, cold, spring-fed water with gravel and rubble bottoms in their upper reaches changing to predominantly sand bottoms further downstream. Numerous streams in the watershed contain both natural and restored overhead cover for trout and are accessible for fishing through public easements.

Beginning in the 1980's, a coordinated effort in the watershed of purchase of public stream-bank easements, restoration of in-stream cover for trout, streambank stabilization, and stocking of wild brook and brown trout has culminated in the Coon Creek Watershed being called the 'Montana of the Midwest'. License plates from around the country can be routinely found parked along the roads of the watershed, their owners fishing for trout along the nearby streams.



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Watershed Details

Population and Land Use

The southern tip of the City of La Crosse, the villages of Stoddard, Chaseburg, and Coon Valley, as well as a portion of the City of Westby are all within the Coon Creek Watershed. Suburban growth is occurring throughout the watershed, but largely in the rural areas near the City of La Crosse.

Forest cover and agriculture are the predominant land uses in the Coon Creek Watershed, with 41% and 40% of the total area, respectively. Open water and open space encompass the remaining sizeable land use areas in the watershed with 14% of

Watershed Details

- Population
- Hydrology
- Ecological Landscapes
- Historical Note

Watershed Condition

- Priorities & Goals
- Overall Condition
- River/Stream Condition
- Lake Health
- Groundwater
- Point/Nonpoint Pollution
- Waters of Note: O/ERW, Trout, Impaired Waters
- Fish Consumption Advice
- Species of Special Concern
- State Natural & Wildlife Areas

Watershed Actions

- Grants & Projects
- Monitoring
- Basin/Watershed Partners
- Recommendations

Resource Goals & Priority Issues



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Watershed - Pemebonwon and Middle Menominee Rivers (GB15)

[Return to Search](#)

[Overview](#) | [Natural Features](#) | [Water Condition](#) | [Grants](#) | [Monitoring & Projects](#) | [Priorities & Goals](#) | [Recommendations](#) | [Learn More](#)

Goals

- 1/4/2012 Develop plan to raise in-stream dissolved oxygen levels in watershed streams exhibiting depressed levels.
- 1/4/2012 Identify sources of and correct water taste and odor problems within the Norway-Quinneseec area.
- 1/4/2012 Continue development of remedial action plan for Lower Menominee River.
- 1/4/2012 Restore rapids and waterfalls to their natural state.

Priorities

- 1/4/2012 Mercury levels in Sand Lake.
- 1/4/2012 Low dissolved oxygen levels at the White Rapids Dam.
- 1/4/2012 Toxic pollutants in the sediment of the Lower Menominee River.



Water Resources

[Explore WI Waters!](#)

[Watersheds](#)

[Watershed Search!](#)

[Project Search!](#)

[Water Search!](#)

[Great Lakes](#)

[Wetlands](#)

Water Condition

[Surface Water Viewer](#)

[Impaired Search!](#)

[2010 Water Quality](#)

[Report To Congress](#)

Resources

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[Where You Live](#)

[Gateway to Basins](#)

[Water Successes](#)

[Ecological Landscapes](#)

[Wisconsin Waters](#)

Programs

[Watershed Management](#)

Assessment Methods

Wisconsin Consolidated Assessment & Listing Methodology (WisCALM)

<http://dnr.wi.gov/org/water/condition/wiscalm.htm>

Excellent	Fully Supporting Designated Use
Good	Supporting Designated Use
Fair	Supporting Designated Use
Poor	Not Supporting Designated Use*

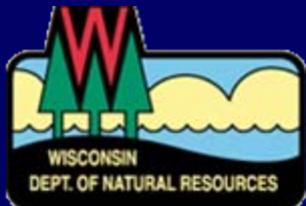
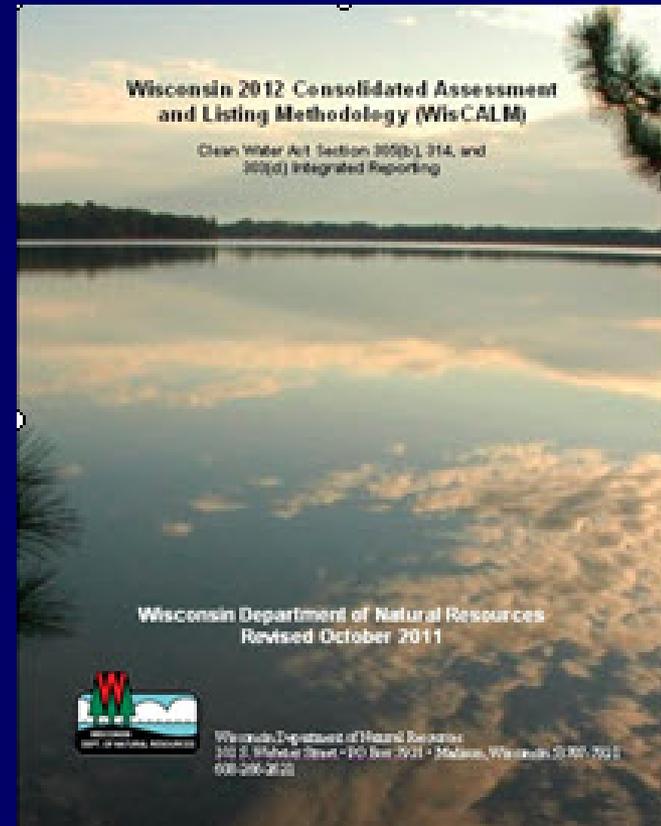
- Fish & Aquatic Life Uses
- Recreational Uses
- Fish Consumption
- Wildlife Uses
- Public Health & Welfare

→ Evaluate for Standards Impairment



Impairment Assessment Methodology Highlights

- Primary changes:
 - Beaches (*E. coli*)
 - Total phosphorus (TP)
& biological indicators
 - EPA reporting categories



Beach Assessments

- Previous Method (2010 WisCALM)
 - *E. coli* criterion of 126 CFU/100ml
 - Three year assessment period
 - Minimum of 15 samples
 - Annual rolling geometric mean
- Current Method (2012 WisCALM)
 - *E. coli* criterion of 126 CFU/100ml
 - Five year assessment period
 - Minimum of 5 samples per monthly aggregate
 - Monthly aggregate geometric mean



Phosphorus Assessment Method for Rivers and Streams

- Previous Method (2010 WisCALM)
 - TP criteria in [Sec. NR 102.06\(3\) Wis. Adm. Code](#)
 - Ten year assessment period (May-Oct)
 - Minimum of 10 samples
 - 10% of samples must exceed
- Current Method (2012 WisCALM)
 - TP criteria in [Sec. NR 102.06\(3\) Wis. Adm. Code](#)
 - Ten year assessment period (May-Oct)
 - **Minimum of 6 samples**
 - **95th percent confidence interval of median TP**
 - **Biological impairment must be observed to list as an impaired water**



Biological Indicator Assessments for Rivers and Streams

- Indices of Biotic Integrity (IBI)
 - Fish IBI
 - Macroinvertebrate IBI
- Condition Category
 - Based on most sensitive indicator
 - Four categories: excellent, good, fair, poor
 - Impairment threshold is poor condition category
 - Exceedance frequency for listing depends on whether biological data is corroborating or stand-alone
 - Exceedance frequency is **one sample**, if corroborating a TP exceedance
 - Exceedance frequency is **two consecutive samples (one per year)**, if data is stand-alone



Phosphorus Assessment Method for Lakes and Reservoirs

- Previous Method (2010 WisCALM)
 - TP criteria in [Sec. NR 102.06\(4\) Wis. Adm. Code](#)
 - Five year assessment period (May - Oct)
 - Minimum of 3 samples in each of two years
 - mean concentration must exceed
- Current Method (2012 WisCALM)
 - TP criteria in [Sec. NR 102.06\(4\) Wis. Adm. Code](#)
 - Five year assessment period (Jun 1- Sep 15)
 - Minimum of 3 samples in each of two years
 - Two annual average values must exceed
 - Biological impairment must be observed to list as an impaired water



Biological Indicator Assessments for Lakes and Reservoirs

- Chlorophyll is primary biological indicator
- Impairment thresholds are identified in WisCALM for each of seven lake types (page 32 and 37 of WisCALM aquatic life and recreation uses, respectively)
- Assessment period
 - Five years (Jul 15 - Sep 15)
- Minimum data requirement
 - Six samples (3 samples/2 yrs or 2 samples/3 yrs)
- Exceedance frequency
 - At least two annual average values should exceed the applicable impairment threshold



EPA Reporting Categories

- Category 1: all designated uses are met
- Category 2: one or more designated uses are met
- Category 3: Insufficient information to assess any designated uses
- Category 4: Waters with approved TMDLs (or TMDLs not required)
- Category 5: Waters where is a TMDL is required
 - Subcategory 5A: standard impairment listing
 - Subcategory 5B: impairment suspected to be caused by atmospheric deposition of mercury
 - Subcategory 5C: impairment suspected to be caused by naturally occurring (or irreversible, human-induced) conditions



Impaired Waters List

- Also referred to as the 303(d) List
- Required by CWA Section 303(d)
- Identifies waters not meeting designated uses or applicable water quality standards
- Updated every other year (even-numbered years)

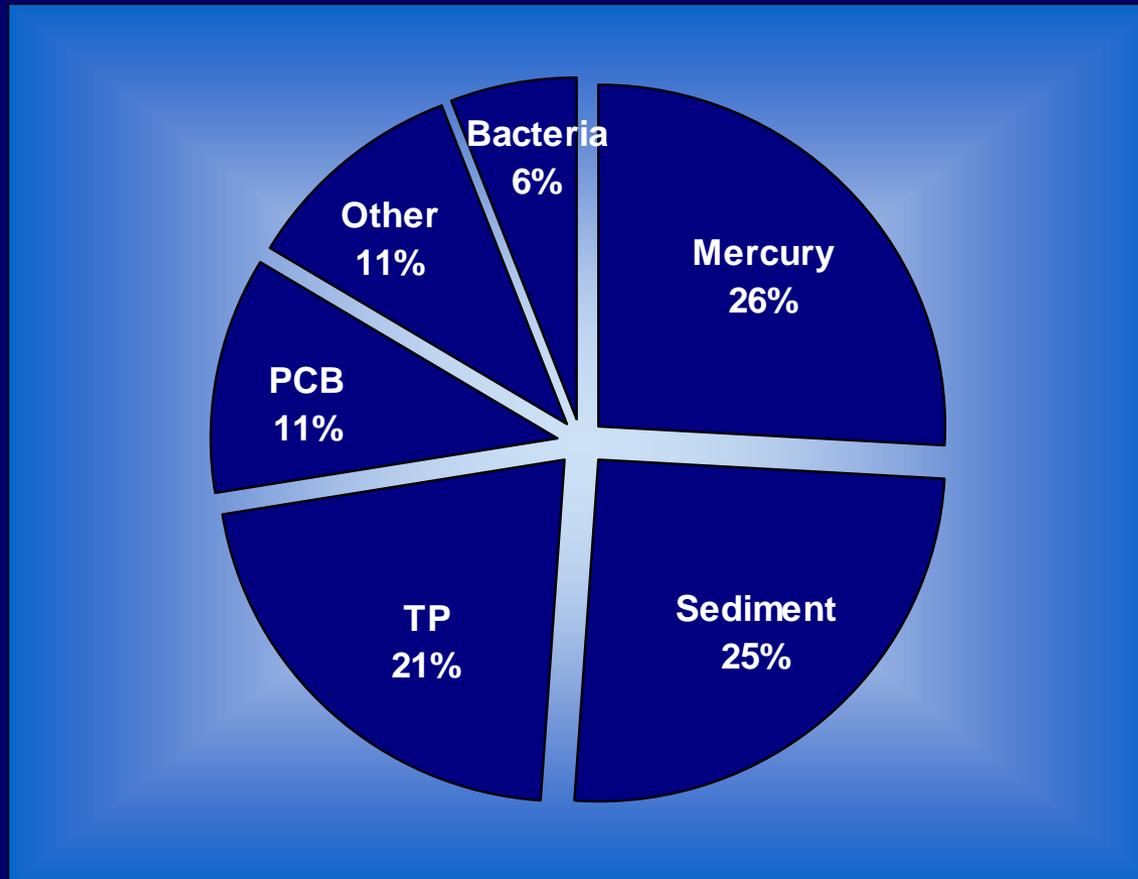


2012 Impaired Waters List

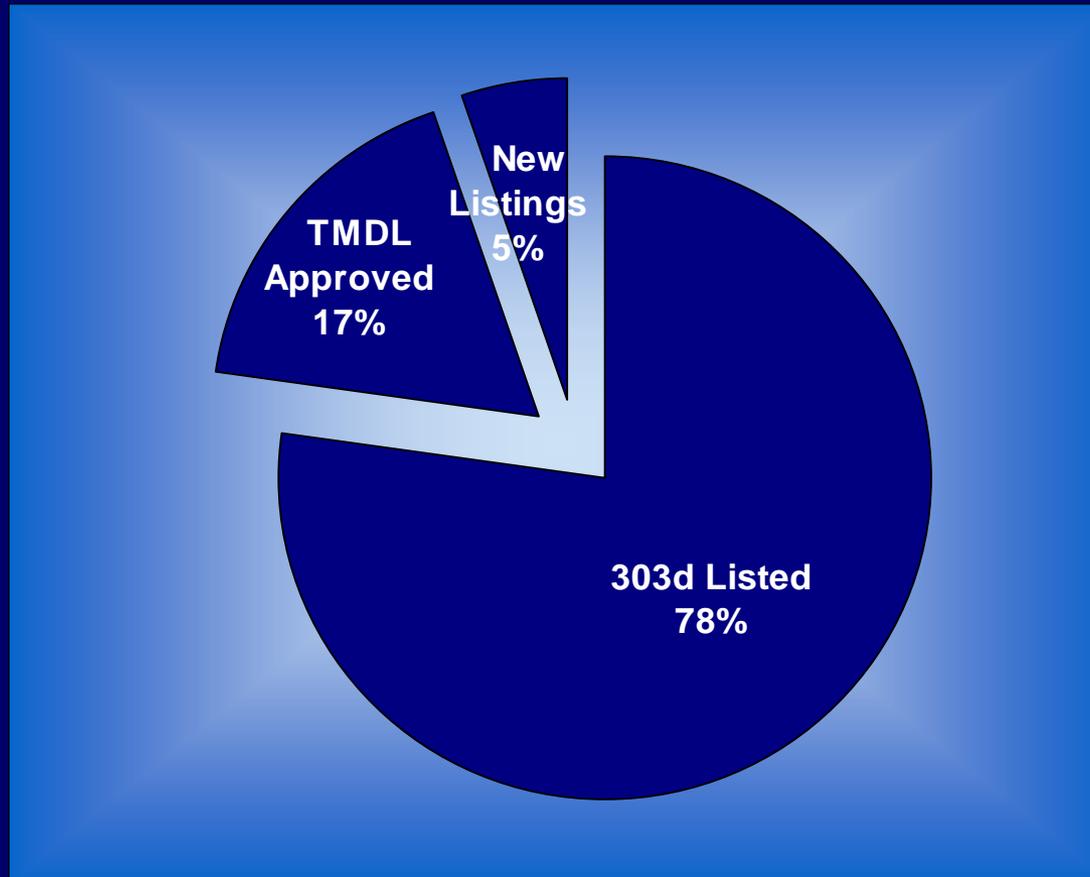
- Wisconsin's 2012 draft impaired waters list includes approximately 750 waters with more than 1,000 pollutant/water combinations
- Primary pollutants are mercury, sediment and phosphorus
- New listings comprise approximately 5% of total number of pollutant/water listings on the draft 2012 list



Top Five Pollutants on 2012 Impaired Waters List



2012 Impaired Waters TMDL Development Status



Impaired Waters List Terminology

- Listing
- Delisting



Entire waterbody newly listed/delisted

- Addition
- Deletion



Specific pollutants or impairments added/deleted; waterbody was formerly on the list and remains on the list



Proposed 2012 List Updates

- 32 new water listings
 - 20 streams and lakes (total phosphorus)
 - 6 lakes (mercury in fish tissue)
 - 5 beaches (*E. coli*)
 - 1 stream (copper and zinc)
- 25 water delistings
 - 21 beaches (*E. coli*)
 - 3 streams (degraded habitat)
 - 1 lake (aquatic toxicity)



New Listings (Phosphorus)

County Name	Local Name	Water Type
Barron	Poskin Lake	Lake
Barron	Rice Lake	Lake
Kenosha	Pike River	River
Kewaunee	Krok Creek	River
Milwaukee	Root River	River
Milwaukee	Southbranch Of Underwood Creek	River
Monroe	Morris Creek	River
Oneida	Bearskin Lake	Lake
Ozaukee	Sucker Creek	River
Ozaukee	Milwaukee River North Branch	River
Polk	Wapogasset Lake	Lake
Polk	Loveless Lake (Bass)	Lake
Polk	Apple River Flowage	Lake
Polk	White Ash Lake	Lake
Polk	Long Trade Lake	Lake
Polk	Big Butternut Lake	Lake
Racine	Husher Creek (Hoosier)	River
Racine	Tichigan Lake	Lake
Trempealeau	Tamarack Creek	River
Washburn	Deep Lake	Lake



New Listings (Other Pollutants)

Pollutant: Mercury

County Name	Local Name	Water Type
Barron	Silver Lake	Lake
Iron	Spider Lake (Whispering)	Lake
Lincoln	Bass Lake	Lake
Oneida	Willow Flowage	Lake
Oneida	Planting Ground Lake	Lake
Oneida	Fourmile Lake	Lake

Pollutant: E. coli

County Name	Local Name	Water Type
Green Lake	Silver Creek Mouth	Inland Beach
Jefferson	Lake Ripley Beach	Inland Beach
Racine	Michigan Boulevard Beach, Lake Michigan	Great Lakes Beach
Saint Croix	Mary Park Beach	Inland Beach
Walworth	Delavan Township Park	Inland Beach

Pollutants: Copper and Zinc

County Name	Local Name	Water Type
Rusk	Stream C, trib to Flambeau River	River



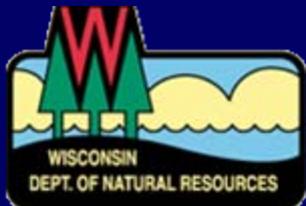
Additions (Phosphorus)

County Name	Local Name	Water Type
Ashland	Butternut Lake	Lake
Dodge	Calamus Creek	River
Kenosha	Fox River (Illinois)	River
Lafayette	Silver Spring Creek	River
Manitowoc	Manitowoc River	River
Milwaukee	Oak Creek	River
Milwaukee	Kinnickinnic River	River
Milwaukee	South 43rd Street Ditch	River
Milwaukee	Honey Creek	River
Milwaukee	Underwood Creek	River
Milwaukee	Lincoln Creek	River
Milwaukee	Indian Creek	River
Milwaukee	South Branch Creek	River
Milwaukee	Little Menomonee	River
Pierce	Mississippi River (Reach 1) Rush-Vermillion	River
Price	Spirit Lake	Lake
Price	North Spirit Lake	Lake



Delistings (*E. coli*)

County Name	Local Name	Water Type
Ashland	Bayview Park Beach, Lake Superior	Great Lakes Beach
Ashland	Maslowski Beach, Lake Superior	Great Lakes Beach
Bayfield	Thompson West End Park Beach, Lake Superior	Great Lakes Beach
Dane	Esther Park Beach	Inland Beach
Dodge	Sinissippi Lake Beach, Neider Park Landing	Inland Beach
Douglas	Barker's Island Inner Beach	Great Lakes Beach
Kewaunee	Crescent Beach, Lake Michigan	Great Lakes Beach
Manitowoc	Point Beach State Park Beach, Lake Michigan	Great Lakes Beach
Manitowoc	Neshota Park Beach, Lake Michigan	Great Lakes Beach
Manitowoc	Fischer Park Beaches, Lake Michigan	Great Lakes Beach
Milwaukee	Mckinley Beach, Lake Michigan	Great Lakes Beach
Milwaukee	Bradford Beach, Lake Michigan	Great Lakes Beach
Milwaukee	Bayview Park Beach, Lake Michigan	Great Lakes Beach
Ozaukee	County Road D Boat Launch Beach, Lake Michigan	Great Lakes Beach
Ozaukee	Cedar Beach, Lake Michigan	Great Lakes Beach
Ozaukee	Harrington State Park (S. Beach), Lake Michigan	Great Lakes Beach
Ozaukee	Upper Lake Park Beach, Lake Michigan	Great Lakes Beach
Ozaukee	Lions Den Gorge National Preserve South Beach, Lake Michigan	Great Lakes Beach
Sheboygan	Van Ess Road Beach, Lake Michigan	Great Lakes Beach
Sheboygan	Amsterdam Beach, Lake Michigan	Great Lakes Beach
Walworth	Whitewater Lake Beach, Kettle Moraine St. Forest B4	Inland Beach



Delistings (Other Pollutants)

County Name	Local Name	Water Type	Pollutant
Buffalo	Eagle Creek	River	Sediment
Buffalo	Joos Valley Creek	River	Sediment
Dane	German Valley Branch	River	Sediment
Waushara	Silver Lake (Big)	Lake	Unknown Pollutant

- Stream delistings are a result of watershed management efforts to control sources of sediment loads and habitat degradation
- New data collected at Silver Lake in Waushara County shows no toxicity.



Finding Data on WDNR's Site

- Watershed Details, Waterbody Details
- Impaired Waters List & Details
 - 2012 Impaired Waters Fact Sheet
 - Interactive Mapping Viewer
 - Impaired Waters Search Tool
 - Excel spreadsheet of draft listing updates



Searching DNR's Site

The screenshot shows the Wisconsin Department of Natural Resources website. At the top, there is a search bar with the text "watershed plans or impaired waters" and a red arrow pointing to it. To the right of the search bar is a "Search" button. Below the search bar is a dropdown menu labeled "Go directly to a program..." with a "GO!" button. The website has a green header with navigation links: "Home", "About", "Topics", and "Contact Us". On the left side, there is a vertical menu with various categories, including "Where You Live", which is highlighted with a red box. The main content area is divided into several sections: "Online Services" with links for Camping Reservations, Endangered Resources Fund, Hunting & Fishing Licenses and Permits, Permit Primer for Business, Boat-ATV-Snowmobile Registration and Decal Replacements, Registration Permits-Air, Subscribe to DNR Updates, and Well Construction Notification; "Seasonal" with links for CWD Test Results, Deer Hunter Wildlife Survey, Badger Genetics Project, and Recreational Safety Education Classes; "Features" with promotional banners for "The Wishin' Hole", "Donate A Deer Here!", "Buy Your 2012 State Park & Forest Sticker!", and "Tips for Recycling"; and "Favorites" with links for "Find a State Park or Forest", "Fishing", and "Hunting". On the right side, there is a "Connect With Us" section with social media icons for Facebook, Twitter, and YouTube, and a "Chat Now!" button. Below that is a photo of a child holding a fish, with a video player below it titled "Ice Fishing Wisconsin" and a "News Releases" section with the link "DNR to expand counter service".

Wisconsin Department of Natural Resources

watershed plans
or
impaired waters

Search

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Favorites

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Connect With Us

Chat Now!

Check out [Ice Fishing Wisconsin](#) to make the hard water season even more fun. [VIDEO Length 0:59]

News Releases

- [DNR to expand counter service](#)

Explore Wisconsin's Water

The screenshot shows the website interface for the Wisconsin Department of Natural Resources. At the top, there is a browser window with the address bar containing "Explore Wisconsin's Water!". Below the browser window is a search bar with the text "Search". The main header features the Wisconsin Department of Natural Resources logo and a navigation menu with links for "Home", "About", "Topics", and "Contact Us". On the right side of the header, there are social media icons for Facebook, Twitter, and a plus sign, along with an email icon and a printer icon.

Wisconsin Water

- Find your Basin!
- Watershed Search!
- Water Search!
- Find your Lake!
- Impaired Search!

Mapping Tools

- Surface Water Viewer
- Boat and Fishing Sites
- State Natural Areas

More About...

- Watersheds
- Waterways
- Lakes
- Wetlands
- Fisheries
- Forests
- Landscapes
- Groundwater
- Great Lakes
- Invasives

Explore Wisconsin's Water!

Wisconsin's Basins
Wisconsin's largest river systems form 24 natural water areas, or basins. [Explore your basin!](#)

Search Watersheds
Wisconsin's rich waters flow through 330 watersheds. [Search and explore watershed](#) locations, natural resources, water condition, resource management work and tidbits of history in each of these land and water areas.

Search Rivers, Lakes, Bays/Harbors and More!
With over 54,000 streams and rivers covering 88,000 miles, and over 15,000 lakes, Wisconsin water resources are reknown for their beauty, quality, and rich wildlife productivity. [Search and learn about your water resources!](#)

Search Lakes
Over 15,000 lakes provide habitat, beauty, and recreational fun! [Search and explore lakes in your area.](#)

Search Impaired Waters
Land use change and intensification has degraded water quality in many areas of the state. [Learn where and why these waters are listed as impaired](#) and not meeting the state's standards for quality.

**Little Bear Creek provides ample recreat
socio enjoyment in southwestern Wiscon
Photo by : Jean Unmuth**

Gateway to WI Basins

Gateway to Basins, Watersheds

Select Basin



Watersheds by Basin



Wisconsin
Department of Natural Resources

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Lower Wisconsin River Basin
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Surface Water Data Viewer

Resources
Find DNR Staff
Where You Live
Water Successes
Water Overview
Ecological Landscapes

Lower Wisconsin River Basin

[Description](#) | [Watersheds, Waters](#) | [Plans](#) | [Maps](#) | [More Information](#)

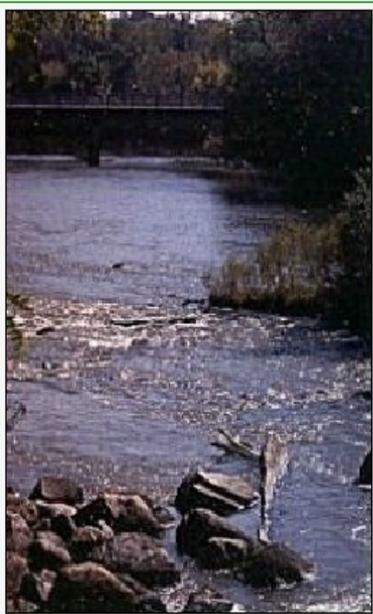
About the Basin

The Lower Wisconsin River basin drains approximately 4,940 square miles of south central and southwestern Wisconsin. The basin includes the Wisconsin River from the Castle Rock Flowage dam to its confluence with the Mississippi River near Prairie du Chien, and all the streams tributary to the Wisconsin along this reach, spanning all or parts of 12 counties: Adams, Columbia, Crawford, Dane, Grant, Iowa, Jackson, Juneau, Monroe, Richland, Sauk, and Vernon. Water quality in the basin is generally considered good. The primary water quality problems are caused by nonpoint sources of pollution, particularly from agricultural operations, excessive populations of rough fish and hydrologic modifications such as dams, stream straightening, and the ditching, draining or other alteration of wetlands.

Basin Streams

The basin has more than 3,800 miles of streams including the Lemonweir, Baraboo, Pine, and Kickapoo Rivers. Approximately 870 miles of streams in the basin are considered a cold water sport fishery, or trout waters. Another 856 miles are warm water sport fishery waters while 115 miles are valuable forage fishery streams. DNR lacks existing use classification information for more than 2,104 of the total stream miles in the Lower Wisconsin River basin. Most of these unknown stream miles are very small unnamed tributaries, or the headwaters reaches of named streams above areas where the DNR does have information. The existing information for many of the streams is old or sketchy and additional monitoring is needed to update the surface water database.

There are presently 41.4 miles of outstanding resource waters (ORW) and 145.5 miles of exceptional resource waters (ERW) in the basin. An additional 14.5 miles are proposed for ORW designation and 227 miles are



The Baraboo Rapids, WDNR Photo
Learn about the [Castle Rock Watershed Restoration](#)

Watersheds Online

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Watershed - Big Roche A Cri Creek (CW06)

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Details

The Big Roche-A-Cri Creek Watershed is located in Adams and Waushara counties covering 113,277 acres. The Big Roche-A-Cri Creek Watershed is known for pivot irrigation and vegetable crop production consisting primarily of corn and potatoes. Most of the surface waters have been altered by ditching, especially on the eastern edge where agricultural land use predominates. Most lakes are artificial impoundments, however some small kettle lakes and wetlands are found in the pitted outwash areas in the central to eastern portions of the watershed.

The watershed includes the towns of Leola and Colburn. The Adams County soil erosion plan ranks these towns first and fifth priority out of 17 for needing conservation work to control wind and water erosion, respectively. The Golden Sands Resource Conservation and Development Planning Agency studied the impact of wind erosion on water quality. The DNR partially funded this program. The study concluded that properly irrigated corn crops reduce the most erosion compared to the dominant potato farming. Adverse water quality impacts were detected on all the ditches throughout the Big Roche-A-Cri watershed through biotic index sampling and review of water quality data.

Date 2011

Population, Land Use

Forest cover and agriculture are the predominant land uses in the Big Roche-A-Cri Creek Watershed, with 39 % and 38% of the total area, respectively. Open water and space and wetlands are the next most common land uses in the watershed with ten percent and seven percent of the total area, respectively. Grasslands and suburban environments account for the remaining sizeable area percentages in the watershed with six percent and one percent, respectively. Urban landscapes amount to less than one tenth of a percent of the total area. The chart below indicates the percent area for each category of land use.

Date 2011

Nonpoint and Point Sources

This watershed was ranked using the Nonpoint Source Priority Watershed Selection Criteria. Based on stream and ground water data, the overall ranking is high, which establishes the watershed as a priority for grant eligibility through the Runoff Program. There are no WPDES-permitted discharges though there are a number of unincorporated communities along Highway 13, including Big Flats, Cottonville, and Arkdale. The Village of Hancock is located towards the east along I-39. All but Hancock rely on Privately Owned Wastewater Treatment Systems (POWTS), formerly known as



Waters in Watershed Watershed - Big Roche A Cri Creek (CW06)

Export

Official Name (Click for Details)	Local Name (Click for Map)	Start Mile	End Mile	Water Size	Water Type	WBIC	County	Last Year Monitored	Fish & Aquatic Condition
Arkdale Lake	Arkdale Lake			40.5 Acres	Impoundment	1374300	Adams	2011	Unknown
Big Roche A Cri Creek	Big Roche-A-Cri Creek	0.00	15.69	15.7 Miles	River	1374100	Adams	2011	Fair
Big Roche A Cri Creek	Big Roche A Cri Creek	16.56	36.83	20.3 Miles	River	1374100	Adams	2011	Good
Big Roche A Cri Creek	Big Roche A Cri Creek	36.83	41.66	4.8 Miles	River	1374100	Adams	2011	Unknown
Big Roche A Cri Creek	Big Roche A Cri Creek	41.66	45.86	4.2 Miles	River	1374100	Waushara		Unknown
Big Roche a Cri	Big Roche a Cri Lake			216.5 Acres	Lake	1374800	Adams	2011	Fair
Bullhead Lake	Bullhead Lake			3.9 Acres	Lake	974600	Waushara		Unknown
Crooked Lake	Crooked Lake			21.3 Acres	Lake	978700	Waushara	2001	Unknown
Dead Horse Creek	Dead Horse Creek	0.00	13.00	13.0 Miles	River	1374400	Adams	2011	Good
Deer Lake	Deer Lake			13.8 Acres	Lake	980300	Waushara	2009	Unknown
Dorro Couche Lake	Dorro Couche Lake			20.5 Acres	Impoundment	1374650	Adams	2010	Unknown
Dry Creek	Dry Creek	0.00	13.00	13.0	River	1374900	Adams,	2011	Excellent

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**Big Roche A Cri Creek, Big Roche A Cri Creek Watershed (CW06)
Big Roche A Cri Creek (1374100)**

[Return to Search](#) [Go to Watershed](#)

Size	20.27 Miles
Segment	16.56 - 36.83
Natural Community	Cool (Warm Transition) Mainstem, Cool (Warm Transition) Headwater
Year Last Monitored	2011
General Condition	Good



Big Roche a Cri Creek leading directly to Castle Rock Lake. Photo courtesy of Virtual Realty. (www.virtualrealtygroup.com)

- Overview
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- Goals
- Monitoring & Projects
- Ecosystem Challenges
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Overview

Rig Roche-a-Cri Creek, T18N, R4E, Section 25 Surface Acres=110, Miles=28.3

A hard water stream having clear water that flows in a southwesterly direction into Castle Rock Lake. Sand is the dominant bottom type. That portion of the stream above Big Roche-a -Cri Lake (21.5 miles) is considered trout water, but most of the natural reproduction is found within the upper two miles of the stream in Adams County. The fishery consists of northern pike, smallmouth bass, brook trout, brown trout, rainbow trout, bluegills, pumpkinseed, bullheads, and carp. It provides habitat for furbearers, including beaver; and migrant waterfowl. The aerial groundwater survey conducted February, 1963, found open water in two stretches of stream above CTH "C" . There is 0.8 mile of public frontage. Access is also possible from several road crossings as well as from Castle Rock Lake aild Big Roche-a -Cri Lalce. There are several dwellings along the stream and land has been subdivided into lots at several locations.

Counties	Adams
Trout Water	Yes
Outstanding or Exceptional	No
Impaired Water	No
Fish and Aquatic Life	
Current Use	Cold (Class II Trout)
Attainable Use	Cold (Class II Trout)
Designated Use	Cold

From: Klick, Thomas A. and C.W. Threinen. 1966. Surface Water Resources of Adams County: Lake and Stream Classification Project. Wisconsin Conservation Department, Madison, WI.

Date 1966
Author Biologist

Historical Description

The Upper Big Roche A Cri Creek is within the town of Leola. This creek is classified a warm water sport fishery, Class I and II trout stream. Brook trout populations doubled, resulting in heavy fishing pressure after approximately 2,400 feet of in-stream habitat improvements (boom covers) were

Big Roche A Cri Creek, Big Roche A Cri Creek Watershed (CW06) Big Roche A Cri Creek (1374100)

Size 20.27 Miles
Segment 16.56 - 36.83
Natural Community Cool (Warm Transition) Mainstem, Cool (Warm Transition) Headwater
Year Last Monitored 2011
General Condition Good

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Bird's eye

Big Roche A Cri Creek (1374100)

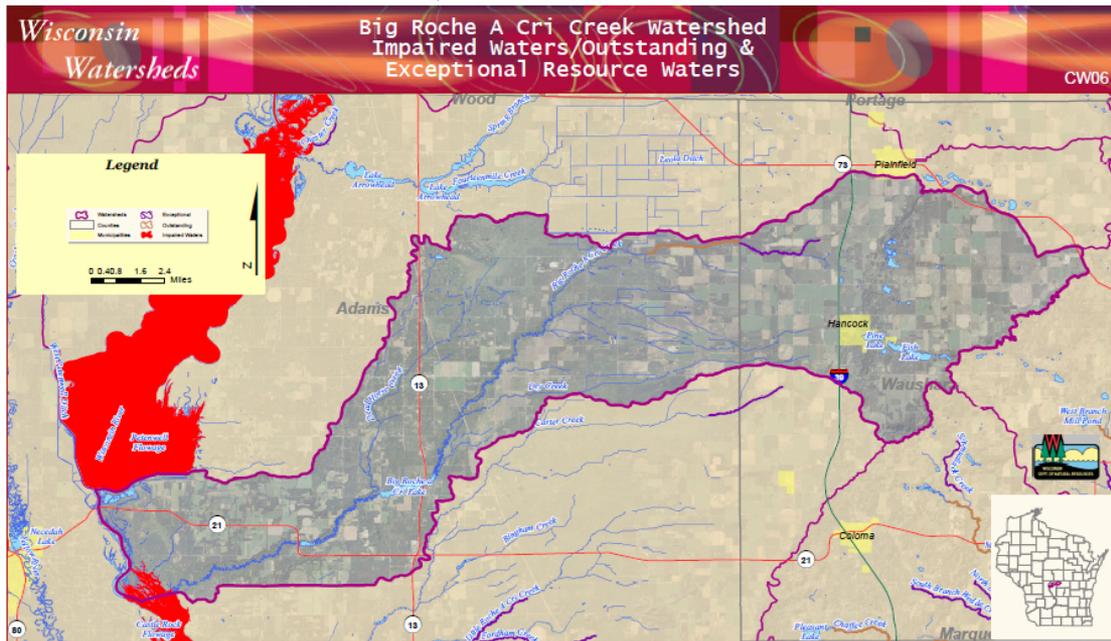
Blackhawk Ave C Blackhawk Ave Blackhawk Ave

More Interactive Maps
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Maps of Watershed

- [Big Roche A Cri Sensitive Area Designation Map](#)
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- [Big Roche a Cri WT 2011 Dams & Outfalls](#)
- [Big Roche a Cri WT 2011 Land Use](#)
- [Big Roche a Cri WT 2011 OERW & Impaired Waters](#)
- [Big Roche a Cri WT 2011 Potentially Restorable Wetlands](#)
- [Big Roche a Cri WT 2011 Trout Streams](#)

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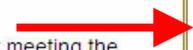
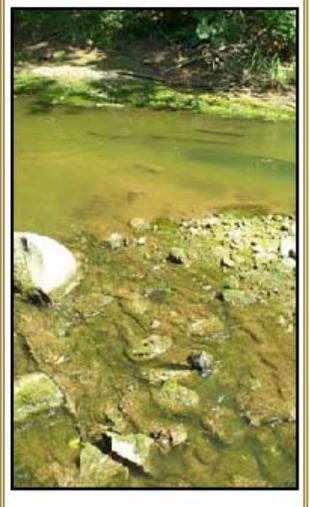
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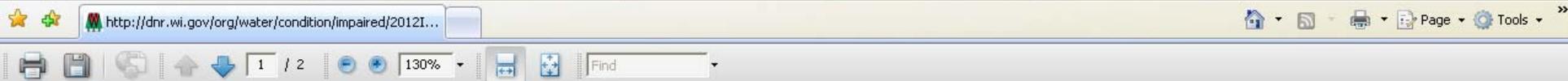
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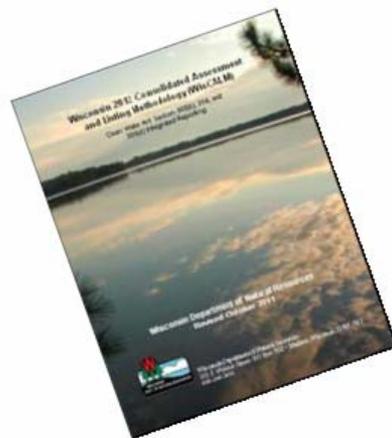
303(D) IMPAIRED WATERS SUMMARY 2012

WHAT IS THE INTEGRATED REPORT (IR)?

- Often referred to as the "Water Quality Report to Congress"
- A Clean Water Act requirement for States and Tribes to report out on the condition of waters
- Combines Clean Water Act Section 305 general water quality condition assessments with Section 303d, the Impaired Waters List
- Updated every

Determining the Health of our Waters:

Updates to Wisconsin's Assessment Methodology



The Clean Water Act is implemented by the Department of Natural Resources to ensure that all waters maintain healthy aquatic communities and provide citizens opportunities for fishing and swimming. Department staff use *Wisconsin's Consolidated Assessment and Listing Methodology* (WisCALM) to determine if waters are fishable and swimmable on a biennial basis.

For 2012, WisCALM updates include:

- New phosphorus assessment methodology for lakes, rivers and streams.
- An improved method for evaluating Wisconsin's Great Lakes and inland Beaches.
- A new reporting category for waters when impairments are suspected to be caused by natural or uncontrollable sources.



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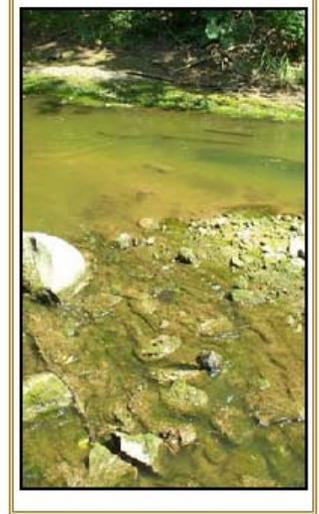
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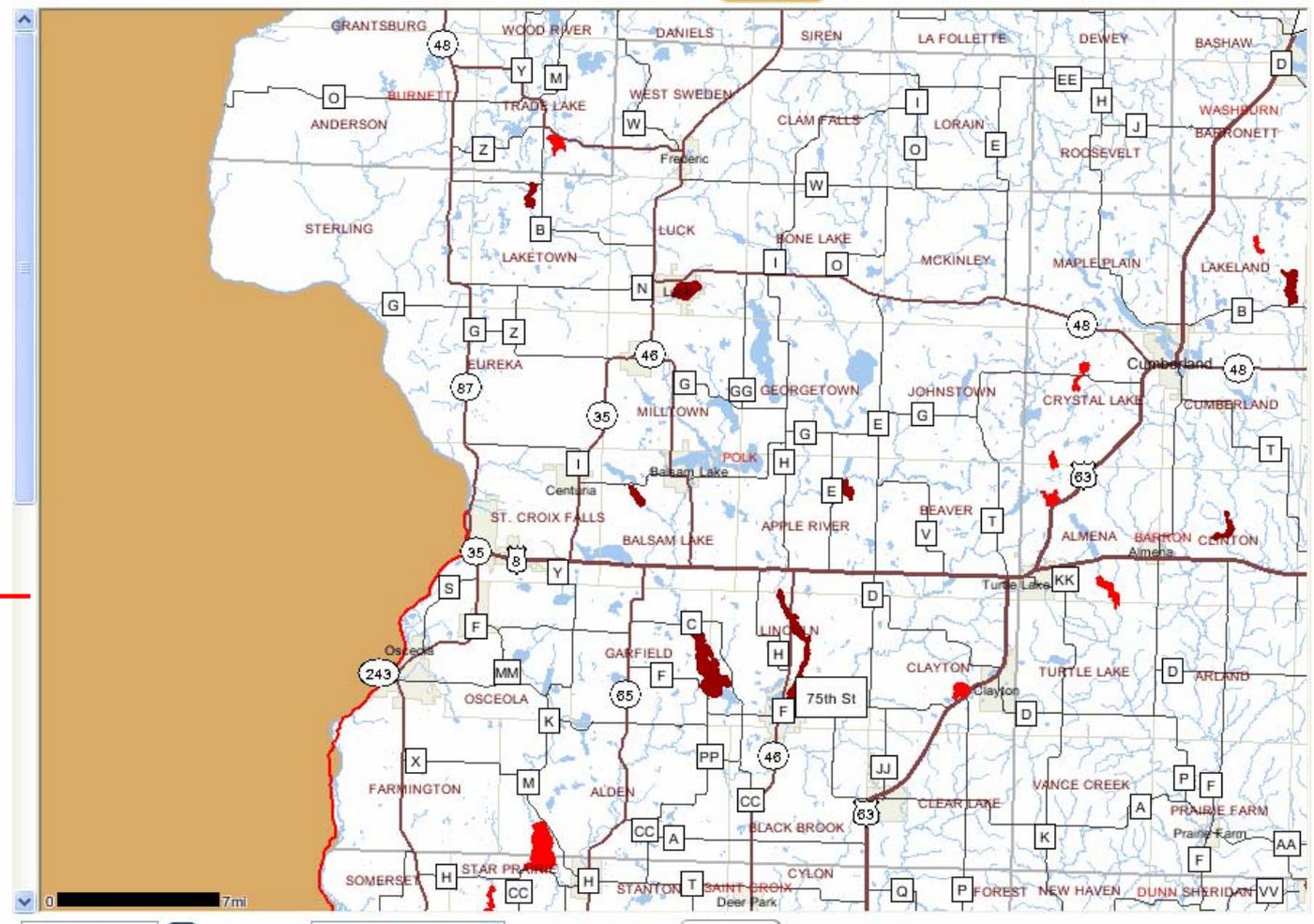


Surface Water Data Viewer

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Full State Zoom In Zoom Out Move Zoom Last Zoom to... Identify Download Advanced Tools

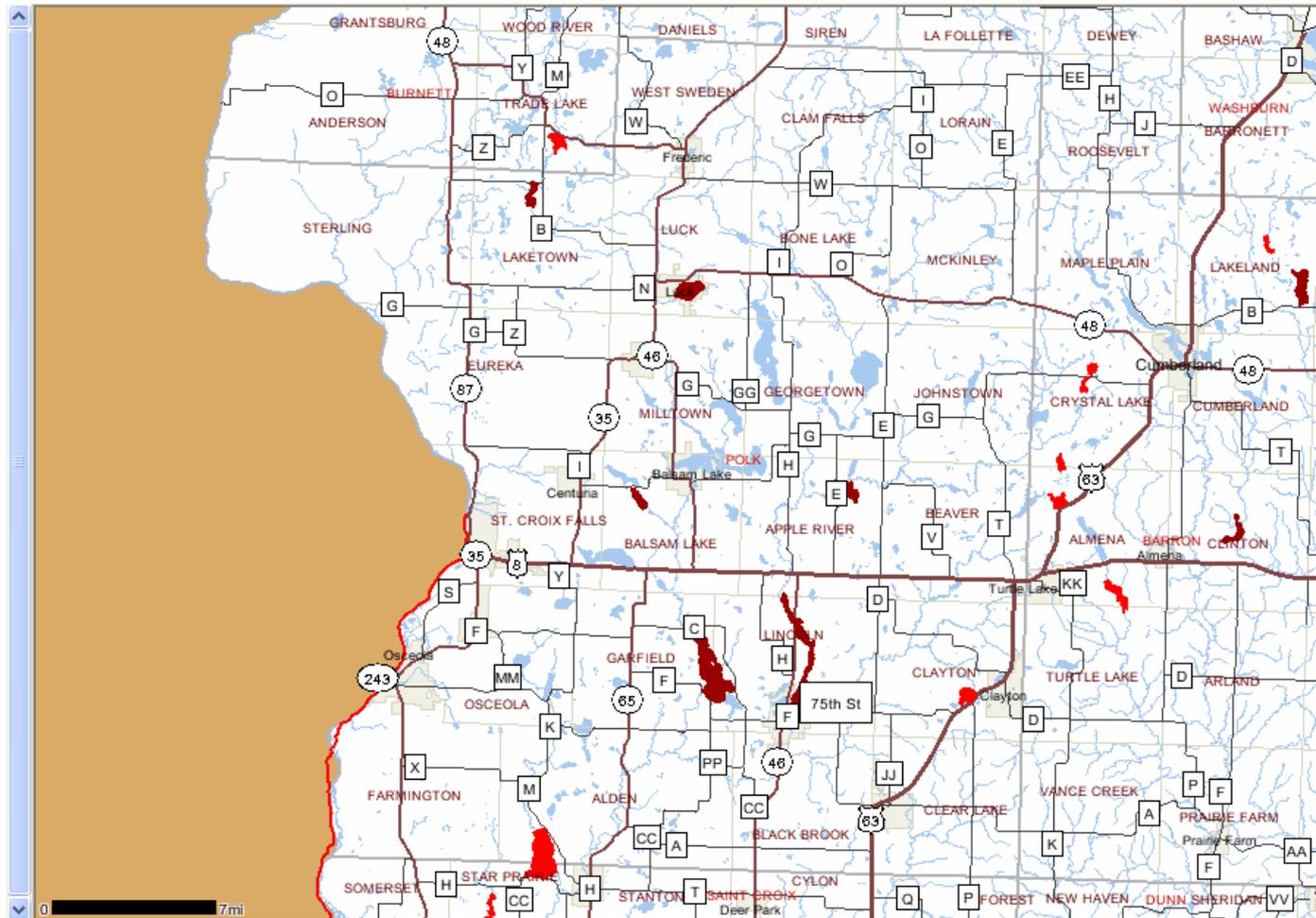
- ### Map Layers
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 - Federal Hydrologic Units (HUCs)
 - Wisconsin Buffer Initiative Watersheds
 - Watersheds
 - Great Lakes & Mississippi Basins
 - DNR Water Mgmt Units
 - Open Water
 - Rivers and Streams
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 - Monitoring Sites and Data
 - Monitoring Station Points
 - Monitoring Station Areas
 - NR217 Calculated TP Data
 - M-IBI 10-Yr Summary Values
 - M-IBI Data All Years
 - Condition Assessments
 - NPS Waterbody Rank
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 - Pending 303(d) Changes
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 - Delisted 303D Waters
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 - O/ERW Waters
 - Watershed Plans
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 - Permits & Related Data
 - Projects & Grants
 - Admin & Political Boundaries
 - Land Descriptions & Cadastral
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Scale: 1:380,608 go Quick View: Select a location Selected Map Tool: Identify Drill Down Identify

Map Legend Settings

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 - Proposed for List
 - Addition
 - Deletion
 - Delist
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 - Deletion
 - Delist
 - Other
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- Impaired Waters Areas
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 - Interstate
 - State Highway
 - U.S. Highways
 - County Roads
- 24K County Boundaries
- Civil Towns
 - Civil Town
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 - 100K Rivers and Streams
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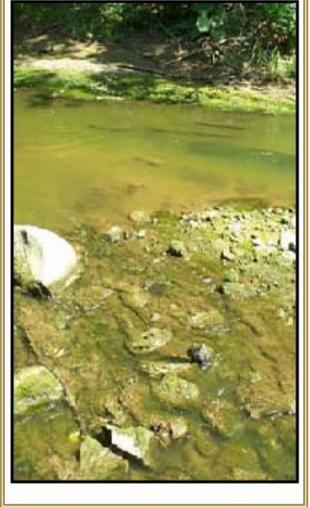
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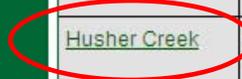
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Impaired Water Search
 Enter Water Name or WBIC
 County
 Water Type
 Watershed Code
 Watershed Name
 Impairment
 Pollutant
 Priority
 Status

Racine
 River

Search
 Clear
 Export

Official Name (Click for Details)	Local Name (Click for Map)	Start Mile	End Mile	WBIC	Water Type	County	Pollutant	Impairment	303 Status	Priority
Fox River	Fox River (Illinois)	113.24	151.34	742500	River	Kenosha, Racine, Waukesha	Total Phosphorus	Degraded Biological Community	Addition	Low
Fox River	Fox River (Illinois)	113.24	151.34	742500	River	Kenosha, Racine, Waukesha	PCBs	Contaminated Fish Tissue	303d Listed	Low
Husher Creek	Husher Creek (Hoosier)	0.00	3.40	3500	River	Racine	Total Phosphorus	Degraded Biological Community	Proposed for List	Low
North Branch Pike River	North Branch Of Pike River	0.00	5.23	1900	River	Kenosha, Racine	Sediment/Total Suspended Solids	Degraded Habitat	303d Listed	Low
North Branch Pike River	North Branch Of Pike River	0.00	5.23	1900	River	Kenosha, Racine	Unknown Pollutant	Chronic Aquatic Toxicity	303d Listed	Low
Root River	Root River	0.00	5.82	2900	River	Racine	PCBs	Contaminated Fish Tissue	303d Listed	Low
Root River	Root River	5.82	26.30	2900	River	Milwaukee, Racine	Total Phosphorus	Degraded Biological Community	Proposed for List	Low
Root River	Root River	20.48	43.95	2900	River	Milwaukee, Racine,	Sediment/Total Suspended Solids	Low DO	303d Listed	Low





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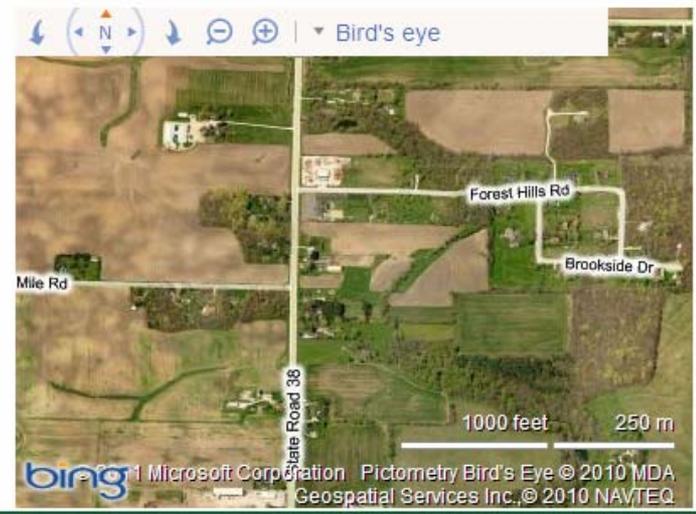
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Impaired Water - Husher Creek (Husher Creek (Hoosier))

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Location Racine County, Wisconsin
Watersheds SE03
Water ID Code 3500 [View Water Details](#)
Stream Miles 0.00 - 3.40
Lake Acres 3.40
Water Condition Water is impaired due to one or more pollutants and associated quality impacts. This water was assessed during the 2012 listing cycle, and total phosphorus sample data exceed 2012 WisCALM listing criteria for the fish and aquatic life use, and biological impairment was observed (i.e. at least one macroinvertebrate or fish Index of Biotic Integrity (IBI) scored in the poor condition category).

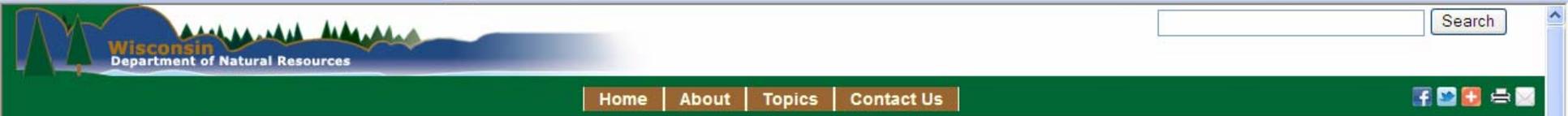
Notes



Listing Details

Pollutant	Total Phosphorus	Listed For	Fish and Aquatic Life
Impairments	Degraded Biological Community	Current Use	FAL - Fish and Aquatic Life Community
Listing Status	Proposed for List	Attainable Use	WWSF - Warmwater Sport Fishery
Priority	Low	Designated Use	WWSF - Warmwater Sport Fishery
303(d) ID	2012-36	Listing Date	04/01/2012
Impaired Water Notes	Based on the total phosphorus criteria excursions and the corroborating biological assessment (poor scoring fish IBI), this water is proposed as a new listing due to the "degraded biological community" impairment caused by elevated total phosphorus concentrations.		
Date	8/2/2011		

Excel Spreadsheet of 2012 Draft List



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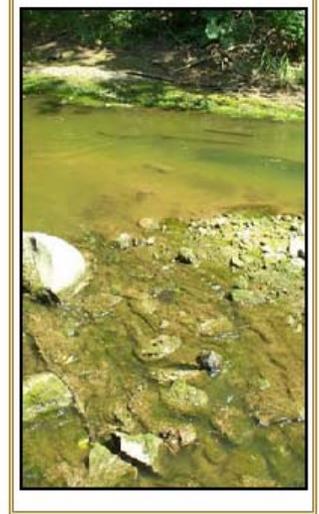
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WATERS ID												
WATERS ID	Official Name	Local Name	Start Mile	End Mile	Waterbody ID Code	County Name	Water Type	Pollutant	Associated Impairment Indicator	Status Code	TI	PI
2	16550	Apple River Flowage	Apple River Flowage			2624200	Polk	Lake	Total Phosphorus	Excess Algal Growth	Proposed for List	Lo
3	127945	Bass Lake	Bass Lake			969600	Lincoln	Lake	Mercury	Contaminated Fish Tissue	Proposed for List	M
4	128040	Bearskin Lake	Bearskin Lake			1523600	Oneida	Lake	Total Phosphorus	Excess Algal Growth	Proposed for List	Lo
5	16680	Big Butternut Lake	Big Butternut Lake			2641000	Polk	Lake	Total Phosphorus	Excess Algal Growth	Proposed for List	Lo
6	15894	Deep Lake	Deep Lake			1844000	Washburn	Lake	Total Phosphorus	Excess Algal Growth	Proposed for List	Lo
7	3894237	Delavan Lake	Delavan Township Park			793600	Walworth	Inland Bea	E. coli	Recreational Restrictions - Pathogens	Proposed for List	Lo
8	128114	Fourmile Lake	Fourmile Lake			1610800	Oneida	Lake	Mercury	Contaminated Fish Tissue	Proposed for List	M
9	18118	Husher Creek	Husher Creek (Hoosier)	0	3.4	3500	Racine	River	Total Phosphorus	Degraded Biological Community	Proposed for List	Lo
10	10162	Krok Creek	Krok Creek	0.01	0.68	86700	Kewaunee	River	Total Phosphorus	Degraded Biological Community	Proposed for List	Lo
11	903433	Krok Creek	Krok Creek	0.69	3.33	86700	Kewaunee	River	Total Phosphorus	Degraded Biological Community	Proposed for List	Lo
12	3894230	Lake Michigan	Michigan Boulevard Beach			20	NA	Great Lake	E. coli	Recreational Restrictions - Pathogens	Proposed for List	Lo
13	3894224	Lake Ripley	Lake Ripley Beach			809600	Jefferson	Inland Bea	E. coli	Recreational Restrictions - Pathogens	Proposed for List	Lo
14	16678	Long Trade Lake	Long Trade Lake			2640500	Polk	Lake	Total Phosphorus	Excess Algal Growth	Proposed for List	Lo
15	18885	Loveless Lake	Loveless Lake (Bass)			2620000	Polk	Lake	Total Phosphorus	Excess Algal Growth	Proposed for List	Lo
16	13209	Moore Creek	Morris Creek	0	14	1200000	Monroe	River	Total Phosphorus	Degraded Biological Community	Proposed for List	Lo
17	3894231	New Richmond Flowage	Mary Park Beach			2608800	Saint Croix	Inland Bea	E. coli	Recreational Restrictions - Pathogens	Proposed for List	Lo
18	10071	North Branch Milwaukee River	Milwaukee River North Bran	0	23.5	27100	Ozaukee,	River	Total Phosphorus	Degraded Biological Community	Proposed for List	Lo
19	1523844	Pike River	Pike River	0	9.5	1300	Kenosha	River	Total Phosphorus	Degraded Biological Community	Proposed for List	Lo
20	128261	Planting Ground Lake	Planting Ground Lake			1609100	Oneida	Lake	Mercury	Contaminated Fish Tissue	Proposed for List	M
21	15866	Poskin Lake	Poskin Lake			2098000	Barron	Lake	Total Phosphorus	Excess Algal Growth	Proposed for List	Lo
22	15977	Rice Lake	Rice Lake			2103900	Barron	Lake	Total Phosphorus	Excess Algal Growth	Proposed for List	Lo
23	896175	Root River	Root River	5.82	26.3	2900	Milwaukee	River	Total Phosphorus	Degraded Biological Community	Proposed for List	Lo
24	896230	Silver Creek	Silver Creek Mouth			146800	Green Lak	Lake	E. coli	Recreational Restrictions - Pathogens	Proposed for List	Lo
25	15841	Silver Lake	Silver Lake			1881100	Barron	Lake	Mercury	Contaminated Fish Tissue	Proposed for List	M
26	14992	Spider Lake	Spider Lake (Whispering)			2306300	Iron	Lake	Mercury	Contaminated Fish Tissue	Proposed for List	M
27	11343	Sucker Creek	Sucker Creek	0	10.19	50100	Ozaukee,	River	Total Phosphorus	Degraded Biological Community	Proposed for List	Lo
28	14332	Tamarack Creek	Tamarack Creek	0	6.31	1770300	Trempeale	River	Total Phosphorus	Degraded Biological Community	Proposed for List	Lo
29	10476	Tichigan Lake	Tichigan Lake			763600	Racine	Lake	Total Phosphorus	Excess Algal Growth	Proposed for List	Lo
30	10028	Unnamed	Southbranch Of Underwood	0	1	16800	Milwaukee	River	Total Phosphorus	Degraded Biological Community	Proposed for List	Lo
31	3924686	Unnamed	Stream C, trib to Flambeau			7215137	Rusk	River	Copper	Acute Aquatic Toxicity	Proposed for List	Lo
32	3924686	Unnamed	Stream C, trib to Flambeau			7215137	Rusk	River	Zinc	Acute Aquatic Toxicity	Proposed for List	Lo
33	16486	Wapogasset Lake	Wapogasset Lake			2618000	Polk	Lake	Total Phosphorus	Excess Algal Growth	Proposed for List	Lo
34	16567	White Ash Lake	White Ash Lake			2628600	Polk	Lake	Total Phosphorus	Eutrophication, Excess Algal Growth	Proposed for List	Lo
35	128380	Willow Flowage	Willow Flowage			1528300	Oneida	Lake	Mercury	Contaminated Fish Tissue	Proposed for List	M

Proposed for List 2012

Questions/Comments

through 2/20/12

Watershed Planning

Lisa Helmuth
608.266.7768

Impaired Waters

Aaron M. Larson,
608.264.6129

Watershed Planning

Wisconsin DNR
Water Quality, WT/3
PO Box 7921
Madison, WI 53707-7921



lisa.helmuth@wi.gov

Impaired Waters

Wisconsin DNR
Water Evaluation, WT/3
PO Box 7921
Madison, WI 53707-7921



AaronM.Larson@wi.gov

