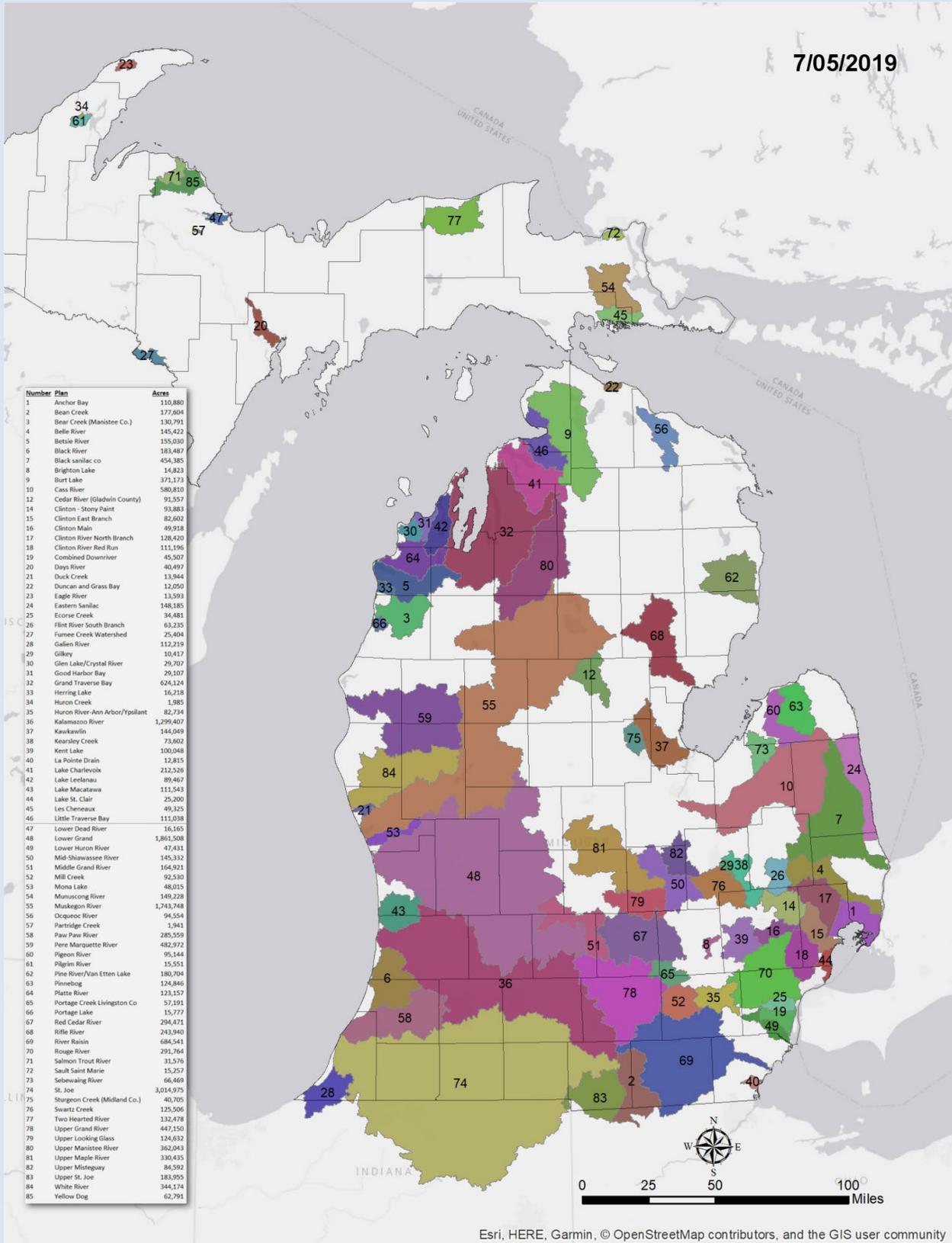


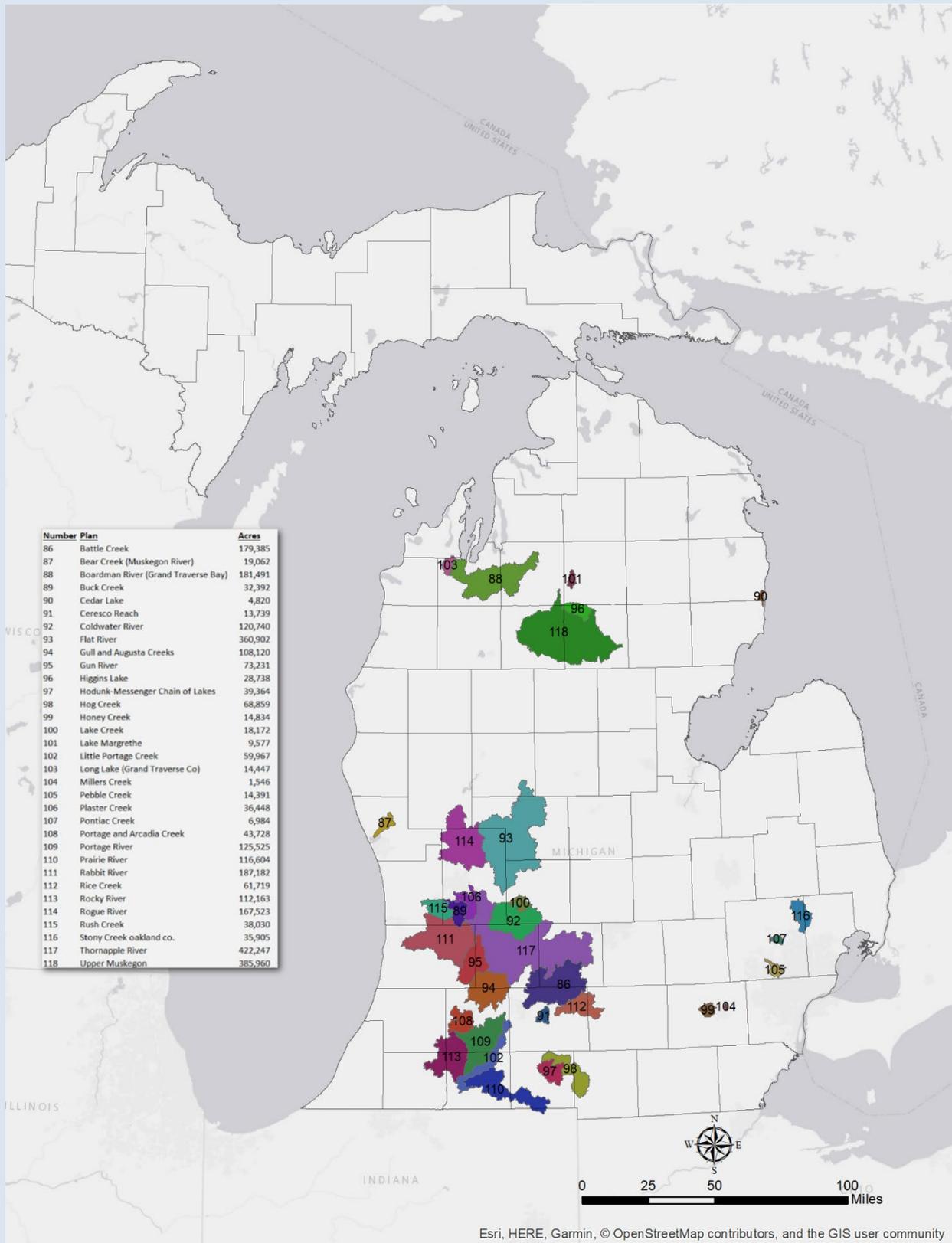
# NONPOINT SOURCE PROGRAM 319 APPROVED WATERSHED PLANS

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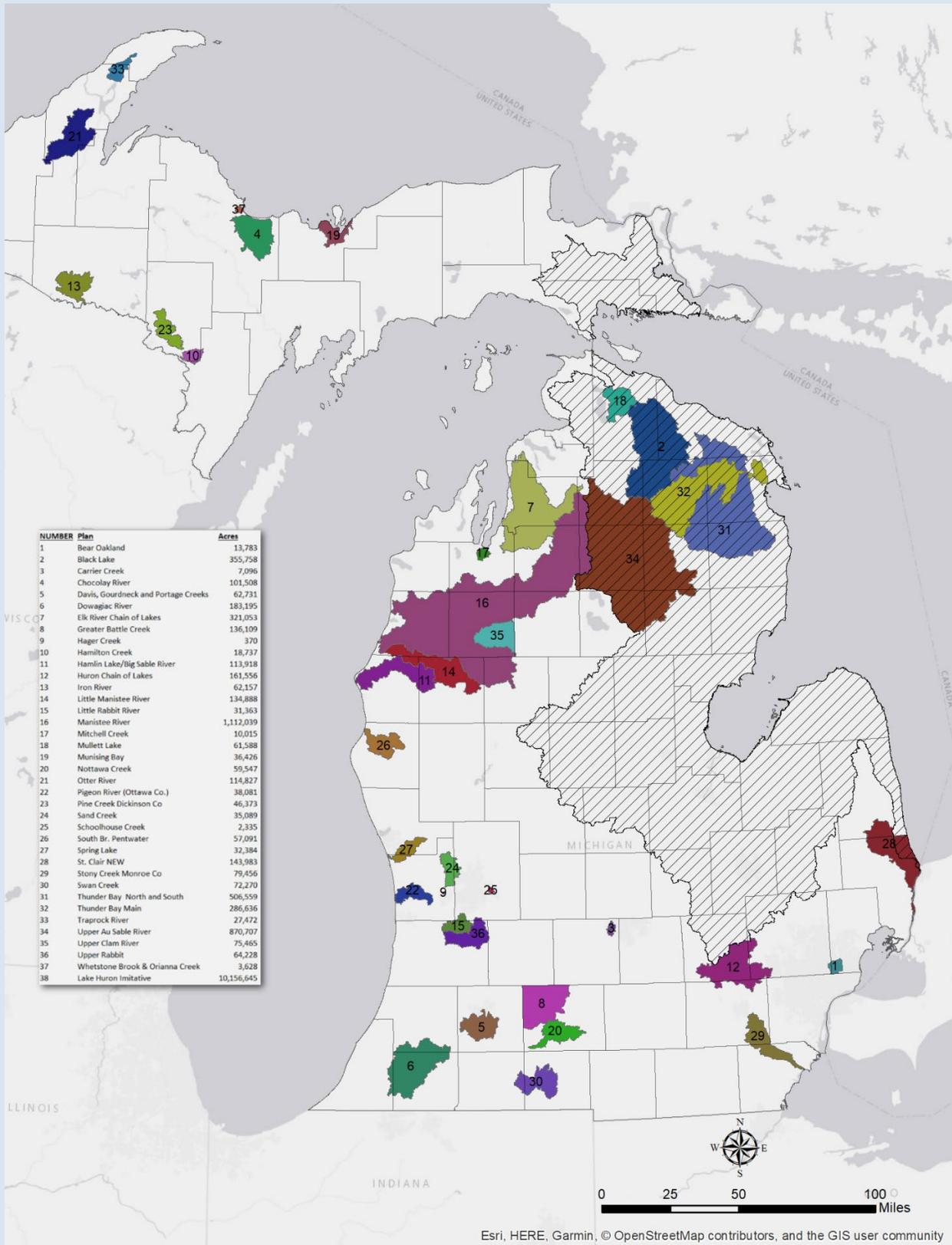


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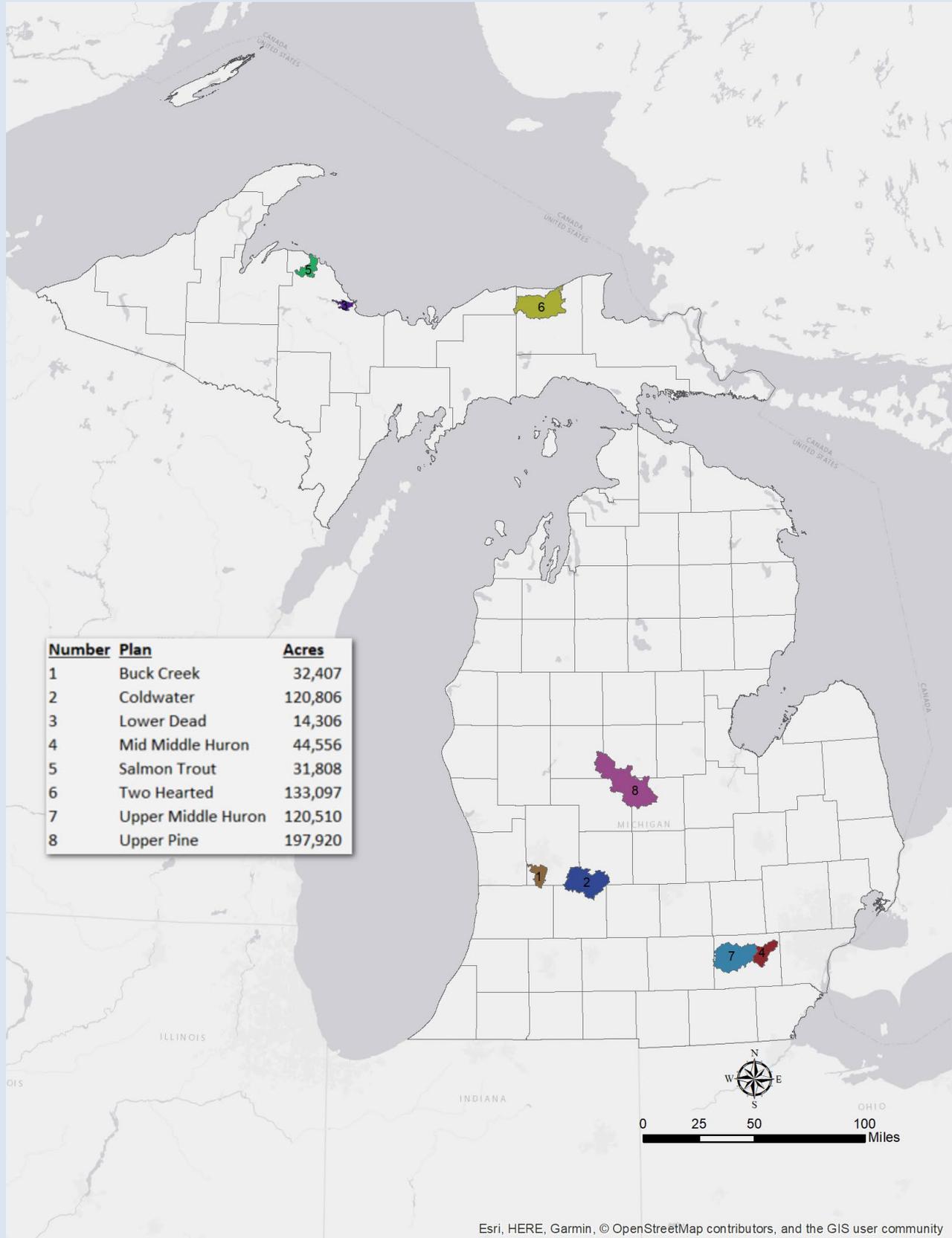
# NONPOINT SOURCE PROGRAM 319 APPROVED WATERSHED PLANS WITHIN LARGER 319 PLANS



# NONPOINT SOURCE PROGRAM CMI APPROVED WATERSHED PLANS



# NONPOINT SOURCE PROGRAM PENDING AND UPDATING WATERSHED PLANS



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## INTRODUCTION

A Watershed Management Plan considers all uses, pollutant sources, and impacts within a drainage area. More than 150 Watershed Management Plans have been developed at the local level utilizing the Department of Environment, Great Lakes, and Energy (EGLE) grants from the Nonpoint Source grant program. Watershed Management Plans serve as guides for communities to protect and improve the water quality. Grant funding for implementation of best management practices identified within the Watershed Management Plans is available through the federal Clean Water Act as well as the Clean Michigan Initiative (CMI) Nonpoint Source Pollution Control Grant program. To be eligible for implementation funds, the Watershed Management Plan must meet certain criteria and be approved by the EGLE. The watersheds shown in this document have EGLE approved Watershed Management Plans that meet CMI criteria. Watershed plans approved under Section 319 of the federal Clean Water Act also meet the United States Environmental Protection Agency (USEPA) nine minimum elements, and are eligible for grant funding under 319. Eligibility requirements for funding are included in each Request for Proposals issued through the Nonpoint Source (NPS) program.

For more information about Requests for Proposals, see Grant Applicant Information on the Nonpoint Source home page, <http://www.mi.gov/nps>. For more information about watershed management plans, see Developing an Approvable Watershed Management Plan, [http://www.michigan.gov/deq/0,4561,7-135-3313\\_71618\\_3682\\_3714-69714--,00.html](http://www.michigan.gov/deq/0,4561,7-135-3313_71618_3682_3714-69714--,00.html), or contact Peter Vincent at [vincentp@michigan.gov](mailto:vincentp@michigan.gov) or 517-284-5521.

## SUMMARY OF APPROVED WATERSHED PLANS

Watershed Plan	Larger Watershed Plan	EGLE District	Approval
Anchor Bay		Warren	CMI and 319
Bad Axe	Pinnebog River	Saginaw Bay	CMI and 319
Battle Creek River (Calhoun County)	Kalamazoo River	Kalamazoo	CMI and 319
Bear Creek (Manistee County)	Manistee River	Cadillac	CMI and 319
Bear Creek (Oakland County)	Red Run Watershed	Warren	CMI
Bear Creek/Bear Lake	Muskegon River	Grand Rapids	CMI and 319
Belle River		Warren	CMI and 319
Betsie River/Crystal Lake		Cadillac	CMI
Black Lake		Cadillac	CMI
Black River		Saginaw Bay	CMI and 319
Black River		Kalamazoo	CMI and 319
Boardman River	Grand Traverse Bay	Cadillac	CMI and 319
Brighton Lake Subwatershed	Huron Chain of Lakes	Lansing, Warren	CMI and 319
Buck Creek	Lower Grand River	Grand Rapids	CMI and 319
Burt Lake		Cadillac	CMI and 319
Carrier Creek		Lansing	CMI
Cass River		Saginaw Bay	CMI and 319
Cedar Lake		Cadillac	CMI and 319
Cedar River (Gladwin County)		Saginaw Bay	CMI and 319
Cheboygan River, Lower Black River		Cadillac	CMI and 319
Ceresco Reach	Kalamazoo River	Kalamazoo	CMI and 319
Chocolay River		Upper Peninsula	CMI
Clinton River East Watershed		Warren	CMI and 319
Clinton River Main Watershed		Warren	CMI and 319
Clinton River North Branch		Warren	CMI and 319
Coldwater River (Lower Grand River)	Lower Grand River	Grand Rapids	CMI and 319
Combined Downriver		Warren	CMI and 319
Davis, Gourdneck, and Portage Creek	Kalamazoo River	Kalamazoo	CMI
Days River		Upper Peninsula	CMI and 319
Dowagiac River	St. Joe River	Kalamazoo	CMI
Duck Creek		Grand Rapids	CMI and 319
Duncan and Grass Bay		Cadillac	CMI and 319
Eagle River		Upper Peninsula	CMI and 319

Watershed Plan	Larger Watershed Plan	EGLE District	Approval
Eastern Sanilac Coastal Tributary		Saginaw Bay	CMI and 319
Ecorse Creek		Warren	CMI and 319
Elk River Chain of Lakes	Grand Traverse Bay	Cadillac	CMI
Flat River	Lower Grand	Grand Rapids	CMI and 319
Fumee Creek		Upper Peninsula	CMI and 319
Galien River		Kalamazoo	CMI and 319
Gilkey Creek		Lansing	CMI and 319
Glen Lake/Crystal River		Cadillac	CMI and 319
Good Harbor Bay		Cadillac	CMI and 319
Grand Traverse Bay		Cadillac	CMI and 319
Greater Battle Creek Area	Kalamazoo River	Kalamazoo	CMI
Gull and Augusta Creek	Kalamazoo River	Kalamazoo	CMI and 319
Gun River	Kalamazoo River	Kalamazoo	CMI and 319
Hager Creek	Lower Grand River	Grand Rapids	CMI
Hamilton Creek		Upper Peninsula	CMI
Hamlin Lake/Big Sable		Cadillac	CMI
Herring Lake		Cadillac	CMI and 319
Higgins Lake	Muskegon River	Cadillac	CMI and 319
Hodunk-Messenger Chain of Lakes	St. Joe River	Kalamazoo	CMI and 319
Hog Creek	St. Joe River	Jackson	CMI and 319
Honey Creek		Jackson	CMI and 319
Huron Chain of Lakes		Warren	CMI
Huron Creek		Upper Peninsula	CMI and 319
Huron River--Ann Arbor-Ypsilanti		Jackson	CMI and 319
Iron River Watershed		Upper Peninsula	CMI
Kalamazoo River		Kalamazoo	CMI and 319
Kawkawlin River		Saginaw Bay	CMI and 319
Kearsley Creek		Lansing	CMI and 319
Kent Lake Watershed		Warren	CMI and 319
Lake Charlevoix		Cadillac	CMI and 319
Lake Creek		Grand Rapids	CMI and 319
Lake Huron Initiative			CMI
Lake Leelanau Watershed		Cadillac	CMI and 319
Lake Margrethe	Upper Manistee River	Cadillac	CMI and 319
Lake St. Clair		Warren	CMI and 319

Watershed Plan	Larger Watershed Plan	EGLE District	Approval
LaPointe Drain		Jackson	CMI and 319
Les Cheneaux		Upper Peninsula	CMI and 319
Little Manistee River		Cadillac	CMI
Little Portage Creek	St. Joe River	Kalamazoo	CMI and 319
Little Rabbit River	Rabbit River, Kalamazoo River	Kalamazoo	CMI
Little Traverse Bay		Cadillac	CMI and 319
Long Lake (Grand Traverse County)	Grand Traverse Bay	Cadillac	CMI and 319
Lower Dead River		Upper Peninsula	CMI and 319
Lower Grand River		Grand Rapids	CMI and 319
Lower Huron		Warren	CMI and 319
Macatawa		Grand Rapids	CMI and 319
Manistee River		Cadillac	CMI
Middle Grand River		Lansing	CMI and 319
Mid-Shiawassee River		Lansing	CMI and 319
Mill Creek Watershed (Huron River)		Jackson	CMI and 319
Millers Creek	Huron River--Ann Arbor-Ypsilanti	Jackson	CMI and 319
Mitchell Creek	Grand Traverse Bay	Cadillac	CMI
Mona Lake		Grand Rapids	CMI and 319
Mullet Lake		Cadillac	CMI
Munising Bay		Upper Peninsula	CMI
Munuscong River		Upper Peninsula	CMI and 319
Muskegon Lake	Muskegon River	Grand Rapids	CMI
Muskegon River		Cadillac, Grand Rapids	CMI and 319
Nottawa Creek	St. Joe River	Kalamazoo	CMI
Ocqueoc River		Cadillac	CMI and 319
Otter River		Upper Peninsula	CMI
Partridge Creek		Upper Peninsula	CMI and 319
Paw Paw River	St. Joe River	Kalamazoo	CMI and 319
Pere Marquette		Cadillac	CMI and 319
Pebble Creek	Rouge River	Warren	CMI and 319
Pigeon River (to Lake Huron)		Saginaw Bay	CMI and 319
Pigeon River (to Lake Michigan)		Grand Rapids	CMI
Pilgrim River		Upper Peninsula	CMI and 319

Watershed Plan	Larger Watershed Plan	EGL E District	Approval
Pine Creek (Dickinson County)		Upper Peninsula	CMI
Pine River/Van Etten Lake		Cadillac	CMI and 319
Pinnebog River		Saginaw Bay	CMI and 319
Plaster Creek	Lower Grand River	Grand Rapids	CMI and 319
Platte River		Cadillac	CMI and 319
Pontiac Creek	Clinton River Main Watershed	Warren	CMI and 319
Portage and Arcadia Creeks	Kalamazoo River	Kalamazoo	CMI and 319
Portage Creek (Huron River)		Jackson	CMI and 319
Portage Lake		Cadillac	CMI and 319
Portage River	St. Joe River	Kalamazoo	CMI and 319
Prairie River	St. Joe River	Kalamazoo	CMI and 319
Rabbit River	Kalamazoo River	Kalamazoo	CMI and 319
Red Cedar		Lansing	CMI and 319
Red Run Watershed		Warren	CMI and 319
Rice Creek	Kalamazoo River	Kalamazoo	CMI and 319
Rifle River		Saginaw Bay	CMI and 319
River Raisin		Jackson	CMI and 319
Rocky River	St. Joe River	Kalamazoo	CMI and 319
Rogue River	Lower Grand River	Grand Rapids	CMI and 319
Rouge River		Warren	CMI and 319
Rush Creek	Lower Grand River	Grand Rapids	CMI and 319
Salmon Trout River		Upper Peninsula	CMI and 319
Sand Creek	Lower Grand River	Grand Rapids	CMI
Sault Saint Marie		Upper Peninsula	CMI and 319
Schoolhouse Creek	Lower Grand River	Grand Rapids	CMI
Sebewaing River		Saginaw Bay	CMI and 319
South Branch Flint River		Lansing	CMI and 319
South Branch Pentwater River		Grand Rapids	CMI
Spring Lake	Lower Grand River	Grand Rapids	CMI
St. Clair County's NE Watersheds		Warren	CMI
St. Joe River		Jackson, Kalamazoo	CMI and 319
Stony Creek (Monroe and Washtenaw Counties)		Jackson	CMI
Stony Creek (Oakland County)	Stony/Paint Creek	Warren	CMI and 319
Stony/Paint Creek		Warren	CMI and 319

Watershed Plan	Larger Watershed Plan	EGLLE District	Approval
Sturgeon Creek (Midland County)		Saginaw Bay	CMI and 319
Swan Creek	St. Joe River	Kalamazoo	CMI
Swartz Creek		Lansing, Warren	CMI and 319
Thornapple River (excluding Coldwater River)		Grand Rapids	CMI and 319
Thunder Bay River, Main Branch		Cadillac	CMI
Thunder Bay River, North and South Branches		Cadillac	CMI
Trap Rock River		Upper Peninsula	CMI
Two Hearted River		Upper Peninsula	CMI and 319
Upper Au Sable		Cadillac	CMI
Upper Clam River	Muskegon River	Cadillac	CMI
Upper Grand River		Jackson	CMI and 319
Upper Looking Glass		Lansing	CMI and 319
Upper Manistee	Manistee River	Cadillac	CMI and 319
Upper Maple		Lansing	CMI and 319
Upper Misteguay		Lansing	AMI and 319
Upper Muskegon	Muskegon River	Cadillac	CMI and 319
Upper Rabbit River	Rabbit River, Kalamazoo River	Kalamazoo	CMI
Upper St Joe River		Jackson	CMI and 319
Whetstone Brook and Orianna Creek		Upper Peninsula	CMI
White River		Grand Rapids	CMI and 319
Yellow Dog River		Upper Peninsula	CMI and 319

## WATERSHED PLANS

### LAKE HURON INITIATIVE



Lake Huron is one of the Great Lakes. It has a surface area of 23,000 square miles and a watershed of 51,700 square miles. The USEPA and Environment Canada, the parties responsible for development of lakewide management plans do not have resources to initiate such an effort for Lake Huron at this time. As a result, the Michigan Office of the Great Lakes, with the USEPA and Environment Canada as partners, undertook an effort to initiate action on Lake Huron. The Lake Huron Initiative is recognized as an approved watershed management plan under Michigan's CMI rules.

#### Watershed Websites

- [Lake Huron Initiative](#)
- [Saginaw Bay Watershed Initiative Network](#)
- [Lake Huron Centre for Coastal Conservation](#)
- [North Channel Preservation Society](#)

CADILLAC DISTRICT 319 WATERSHEDS



CMI and 319 approved	CMI and 319 approved
Bear Creek (Manistee Co.)	Lake Leelanau Watershed
Betsie River/Crystal Lake	Lake Charlevoix
Boardman River	Little Traverse Bay
Burt Lake	Long Lake (Grand Traverse Co.)
Cedar Lake	Lake Margrethe
Cheboygan River, Lower Black River	Ocqueoc River
Duncan and Grass Bay	Pere Marquette
Glen Lake/Crystal River	Platte River
Good Harbor Bay	Pine River/Van Etten Lake
Grand Traverse Bay	Portage Lake
Greater Bear Creek	Upper Manistee
Herring Lake	Upper Muskegon River
Higgins Lake	

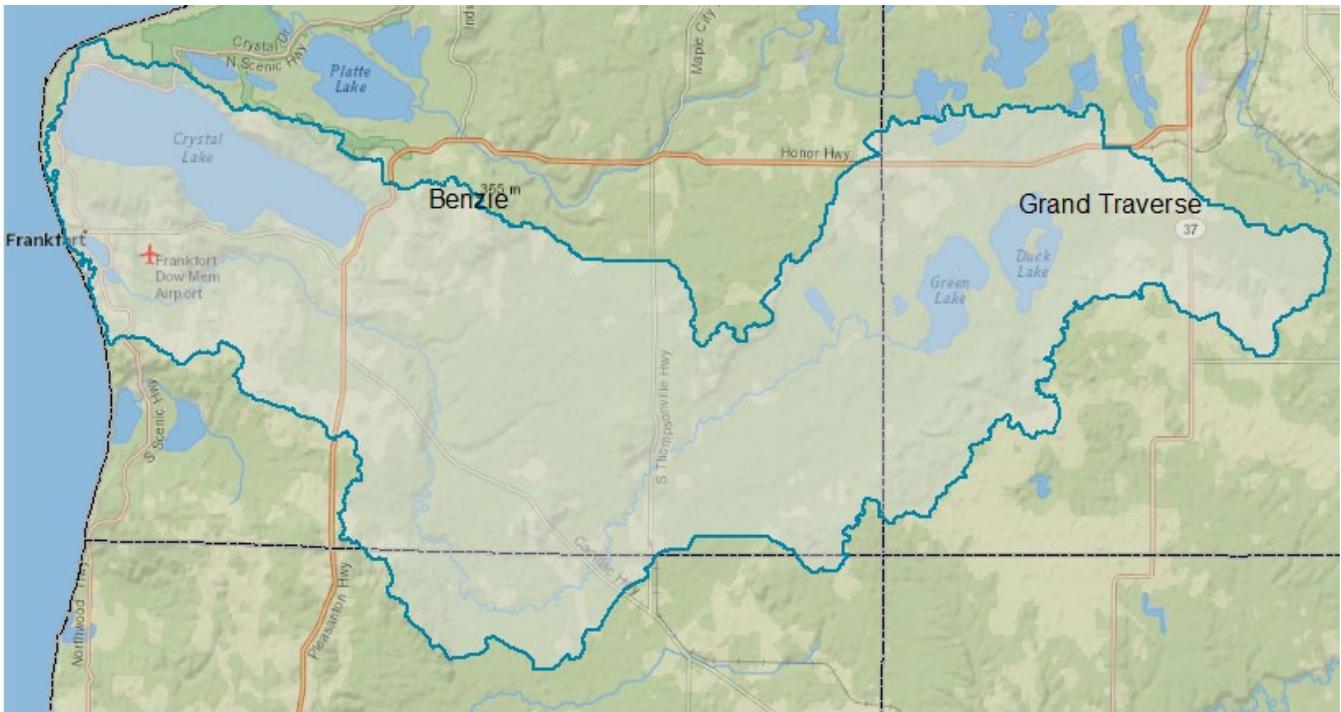
CADILLAC DISTRICT CMI WATERSHEDS



<b>CMI approved</b>
Black Lake
Elk River Chain of Lakes
Hamlin Lake/Big Sable
Little Manistee River
Manistee River
Mitchell Creek
Mullet Lake
Thunder Bay River, Main Branch
Thunder Bay River, North and South Branches
Upper Au Sable
Upper Clam River

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## BETSIE RIVER AND CRYSTAL RIVER



The Betsie River/Crystal Lake Watershed Management Plan was prepared by Networks Northwest and the Crystal Lake and Watershed Association. The plan was approved as meeting CMI and 319 criteria in 2016. The planning area is 154,880 acres in size and is located in portions of Benzie, Grand Traverse, and Manistee Counties. Land use within the planning area consists of 46 percent forest, 15 percent wetland, 13 percent rangeland, 10 percent water, 8 percent agriculture, and 8 percent urban or built. Impaired designated use within the planning area include partial and total body contact recreation. Pollutants addressed include *Escherichia coli* (*E. coli*), sediment, and nutrients.

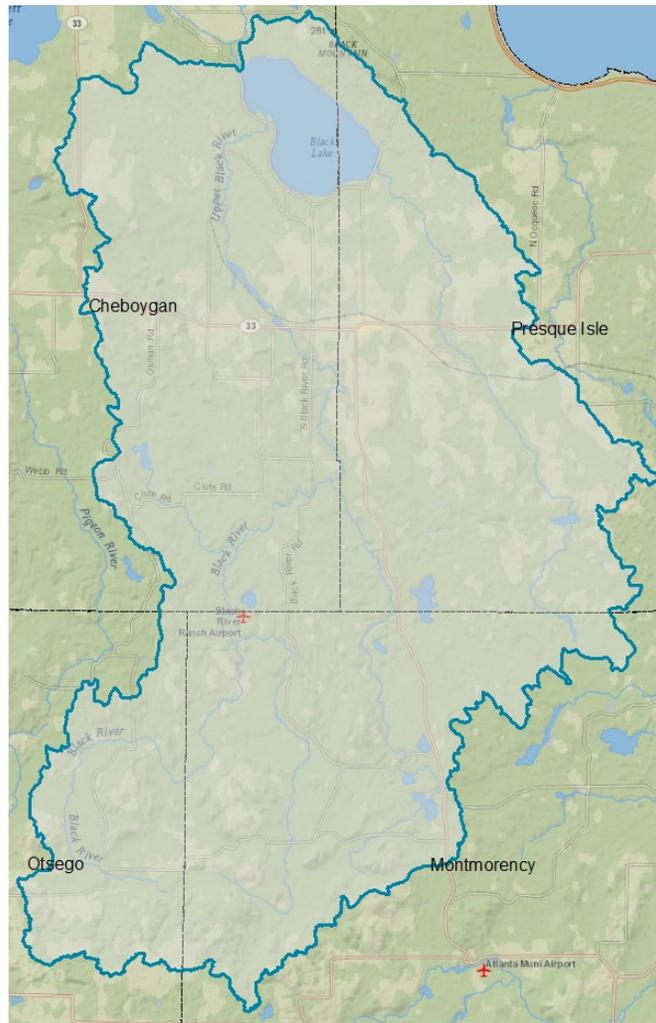
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Crystal Lake and Watershed Association](#)
- [Conservation Resource Alliance](#)

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## BLACK LAKE WATERSHED

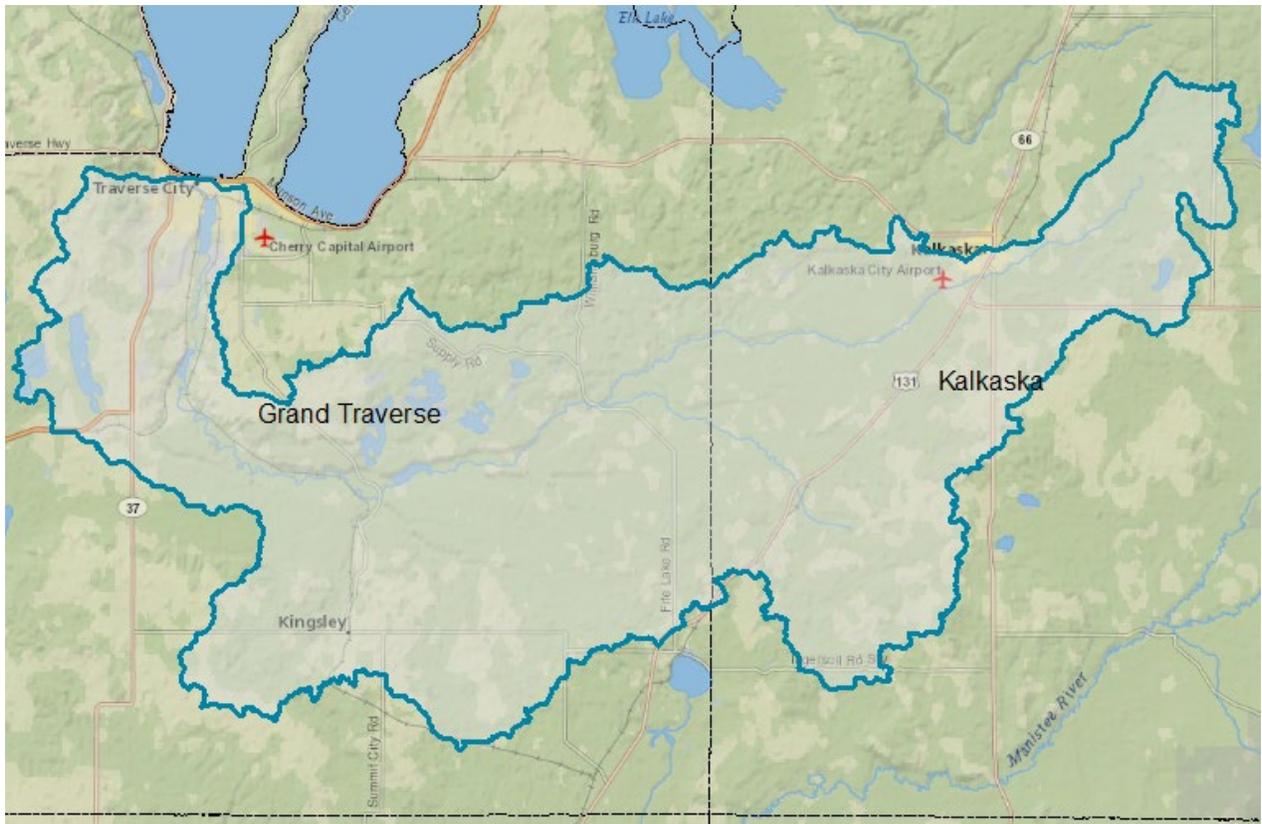


The Black Lake Watershed Management Plan was approved as meeting CMI criteria in 2002. The Black Lake Watershed is located in northeastern-lower Michigan (Cheboygan and Presque Isle Counties). The planning area is 355,758 acres in size.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

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## BOARDMAN RIVER WATERSHED



The Boardman River Watershed Prosperity Plan was prepared by Public Sector Consultants and the Watershed Center Grand Traverse Bay for the Boardman River Watershed Prosperity Leadership Team and was approved as meeting CMI and 319 criteria in 2016. The Boardman River planning area is 182,800 acres in size and is in portions of Grand Traverse and Kalkaska Counties. Land cover within the planning area is 80 percent forest, 11 percent agriculture, 5 percent urban, 2 percent open water, and 1 percent wetland. There were no impaired designated uses as of the writing of this plan. The plan addresses the sources of sediment, nutrients, thermal pollution, pathogens, and oils. The plan also addresses habitat loss, hydrologic flow alteration, and invasive species.

### Watershed Websites

- [Boardman River Watershed Management Plan](#)
- [The Watershed Center Grand Traverse Bay](#)

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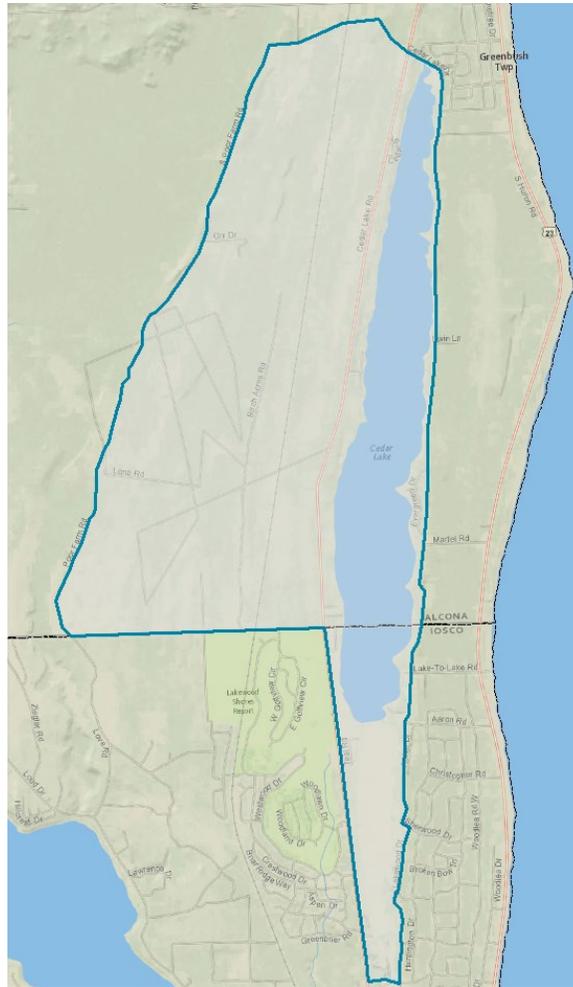
## BURT LAKE WATERSHED



The Burt Lake Watershed Management Plan was developed by the Tip of the Mitt Watershed Council and was approved as meeting 319 and CMI criteria in 2017. Burt Lake planning area is in the northwest portion of Michigan's Lower Peninsula and is in portion of Cheboygan, Emmet, and Otsego Counties. The planning area is 371,173 acres in size. Land cover within the planning area is identified as 51 percent forested, 15 percent wetland, 9 percent agriculture, 9 percent grassland, 8 percent water, 5 percent scrub/shrub, and 4 percent urban. There are no impaired designated uses as of the writing of the plan. The Burt Lake Management Plan addresses the sources of sediment, nutrients, thermal pollution, pesticides, pathogens, oils, and heavy metals.

### Watershed Websites

- [Burt Lake Watershed Management Plan](#)
- [Tip of the Mitt Watershed Council](#)



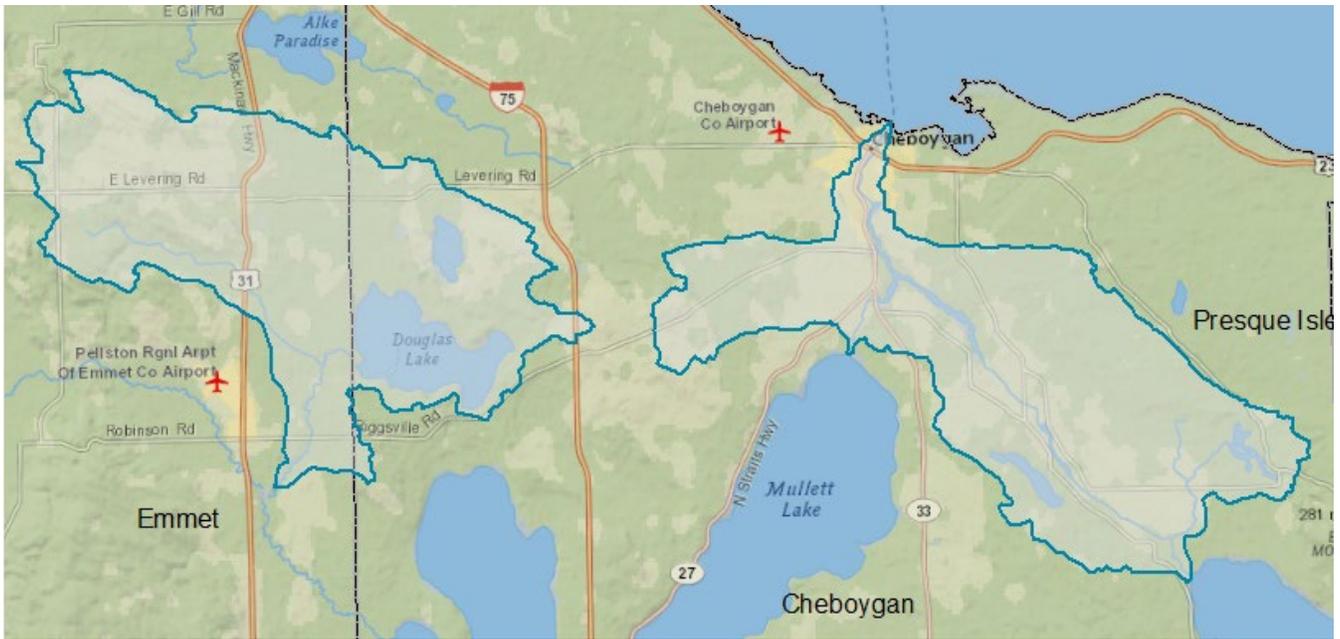
The Cedar Lake Watershed Management Plan was developed by Kieser & Associates on behalf of the Cedar Lake Improvement Board. The plan was approved as meeting both CMI and 319 criteria in 2011. The Cedar Lake watershed is located in the southeast corner of Alcona County and the northeast corner of Iosco County. The planning area is approximately 3,613 acres in size. Land cover within the planning area is 37 percent wetland, 26 percent forest, 22 percent high-intensity urban, 10 percent low-intensity urban, 4 percent herbaceous open land, 1 percent park/golf courses. All designated uses within the planning area are met, with the exception of fish consumption. Pollutants of concern in the Cedar Lake Watershed include modified hydrology, invasive species, sediment, nutrients, and pathogens.

**Watershed Websites**

- [Cedar Lake Management Plan](#)
- [Cedar Lake Improvement Board](#)

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## CHEBOYGAN RIVER/LOWER BLACK RIVER WATERSHED



The “Cheboygan River/Lower Black River Watershed Initiative 2006-07 Update” was developed by the Northeast Michigan Council of Governments and was approved as meeting CMI criteria in 2004 and 319 criteria in 2007. The plan covers 94,130 acres and is primarily located in Cheboygan County with a portion extending into Emmet County. Land cover within the planning area is 49.6 percent forested, 17.4 percent agricultural, 16.5 percent open land, 6.6 percent water, and 3.7 percent wetland. Designated use addressed within the planning area is other indigenous aquatic life and wildlife. The pollutants of concern in the planning area include sediment, nutrients, toxins, pathogens, invasive species, loss of habitat, and loss of wetlands.

### EGLE Nonpoint Source Links

- [Cheboygan River/Lower Black River Watershed Management Plan](#)

### Watershed Websites

- [Northeast Michigan Council of Governments](#)

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## DUNCAN AND GRASS BAYS WATERSHED



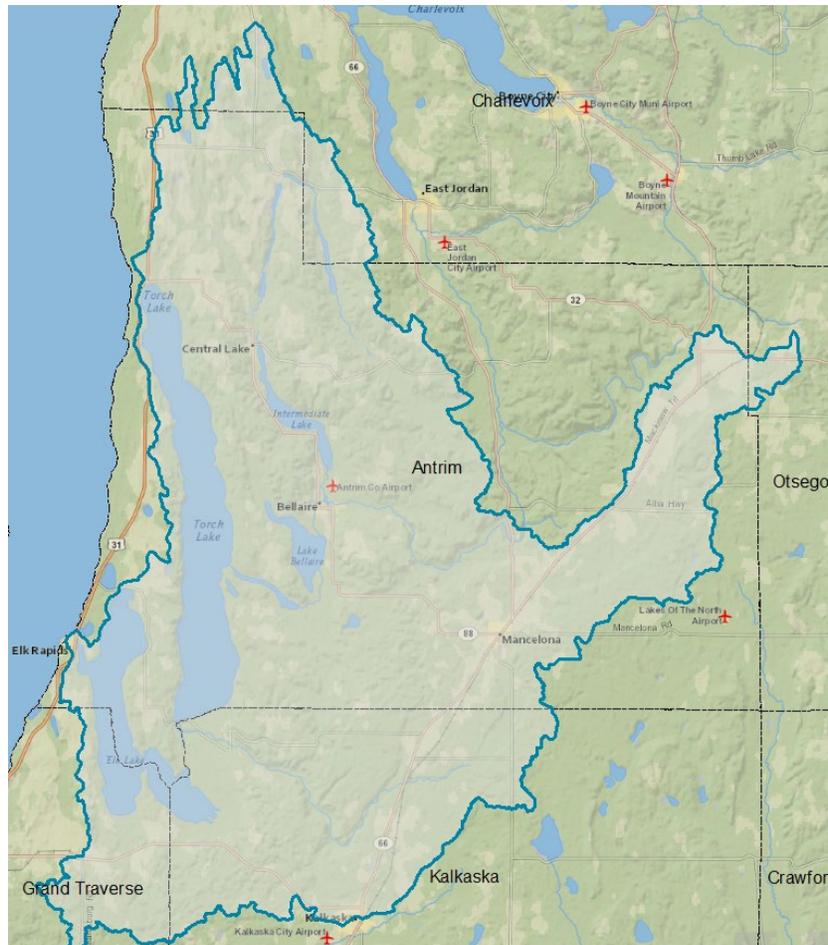
The Duncan and Grass Bays Watershed Management Plan was developed by the Tippet of the Mitt Watershed Council and was approved as meeting CMI and 319 criteria in 2016. The planning area encompasses approximately 12,000 acres and is located within Cheboygan County. Land cover within the planning area is 37 percent wetland, 33 percent forested, 9 percent scrub/shrub, 7 percent urban, 7 percent grassland, 3 percent agriculture, 2 percent barren, and 1 percent water. There are no designated uses impairments within the watershed. Pollutants of concern include nutrients, sediment, oil, grease, heavy metals, pathogens, and pesticides.

### Watershed Websites

- [Duncan and Grass Bays Management Plan](#)
- [Tippet of the Mitt Watershed Council](#)

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## ELK RIVER CHAIN OF LAKES WATERSHED



The Elk River Chain of Lakes Watershed Management Plan was prepared by the Northwest Michigan Resource Conservation and Development Council. The plan received CMI approval in 1999. The planning area is located in Antrim, Kalkaska, Charlevoix, and Grand Traverse Counties. The planning area encompasses 202,060 acres. Land cover within the planning area is 40 percent forest, 20 percent cropland, 14 percent inland lakes, 10 percent other (roads, urban built-up, recreation, and idle), 8 percent fallow, 5 percent pasture land, and 3 percent orchards. The watershed has no impaired designated uses. The primary pollutants of concern are phosphorus and excessive sedimentation.

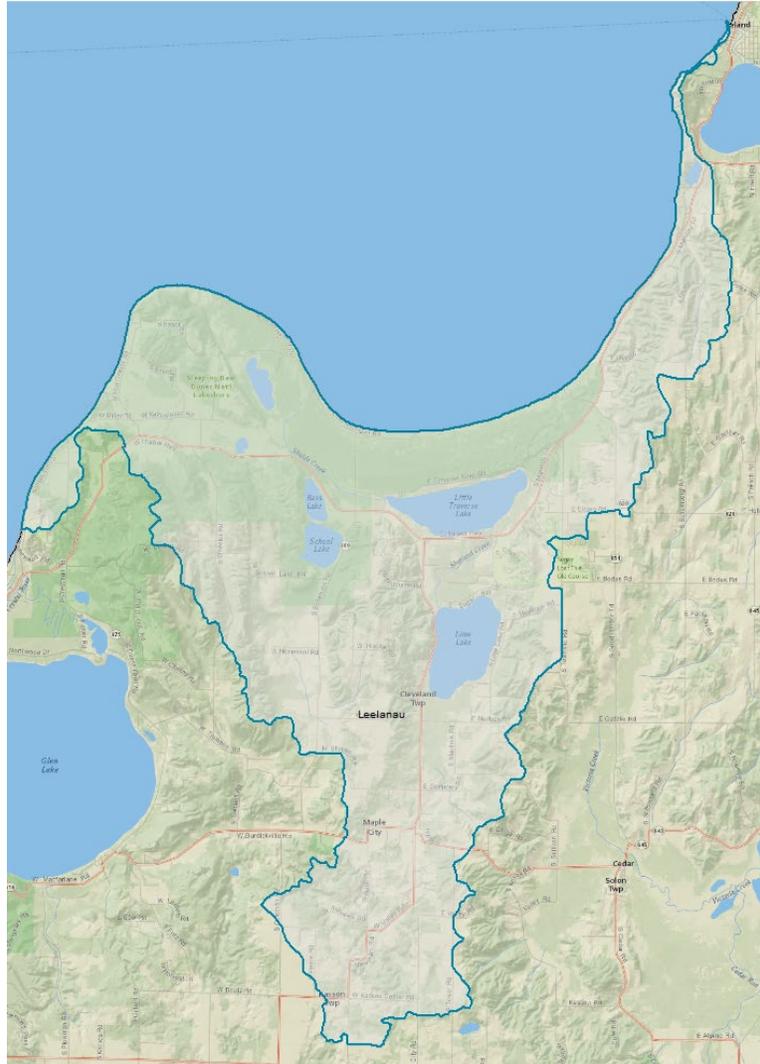
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Northern Michigan Environmental Action Council](#)

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## GOOD HARBOR BAY WATERSHED



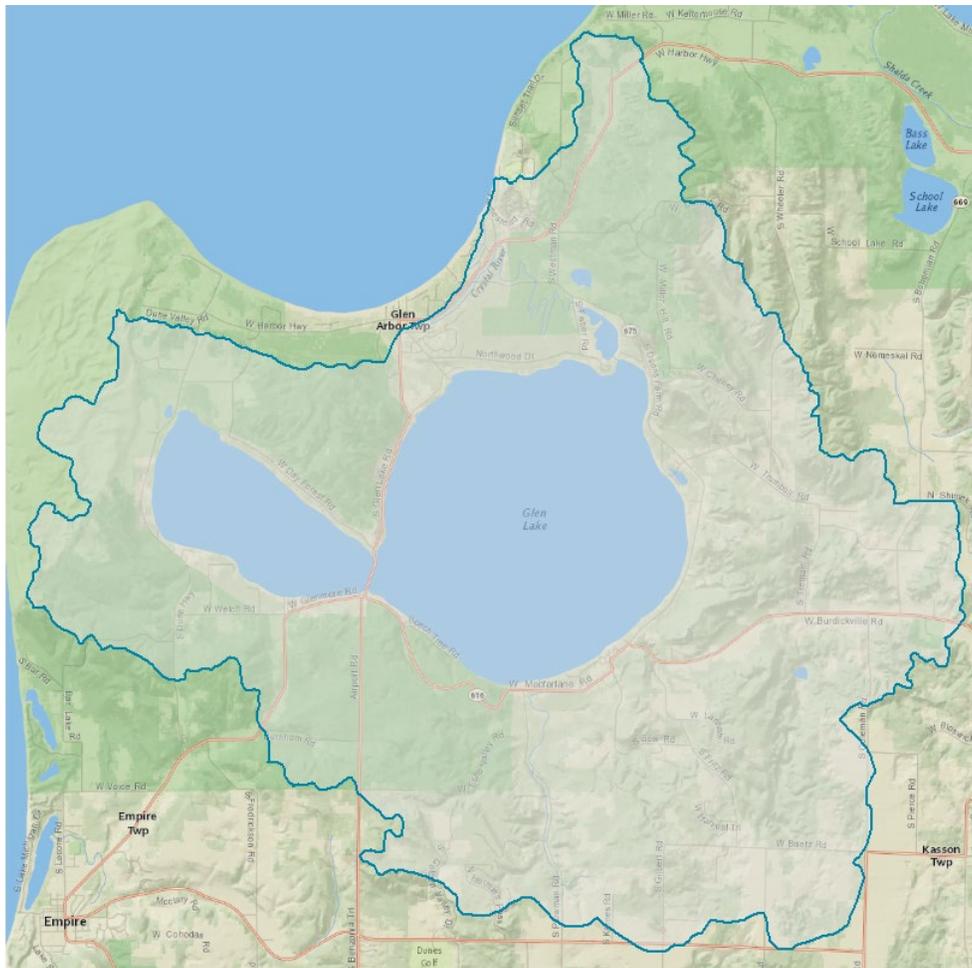
The Good Harbor Bay Watershed Management plan was developed by the Good Harbor Bay Watershed Steering Committee and the Leelanau Conservancy and was approved as meeting CMI and 319 criteria in 2015. The planning area is approximately 29,000 acres. Land cover in the watershed is 53 percent forest, 18 percent shrub/grassland, 10 percent agriculture, 7 percent water, 6 percent urban and 1.4 percent wetland. There are no impaired designated uses within the planning area. Uses identified as degraded within the planning area include warm- and coldwater fisheries, other indigenous aquatic life and wildlife, and partial and total body contact. Issues addressed by the plan include loss of habitat, invasive species, water temperature, and hydrologic fluctuation. Pollutants of concern include nutrients, sediment, pathogens, and toxins.

### Watershed Websites

- [Good Harbor Management Plan](#)
- [Leelanau Conservancy](#)

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## GLEN LAKE-CRYSTAL RIVER WATERSHED



The Glen Lake-Crystal River Watershed Management Plan was prepared by the Leelanau Conservancy and was approved as meeting CMI criteria in 2003 and 319 criteria in 2010. The Glen Lake-Crystal River Watershed is located in Leelanau County and is 29,721 acres in size. Land cover within the planning area is 55 percent forested, 22 percent water, 12 percent open shrub/grasslands, 5 percent residential homes and no data for the remaining percent. There are no impaired designated uses within the plan area with the exception of fish consumption. Pollutants of concern in the Glen Lake-Crystal River watershed are nutrients, sediment, pathogens, toxins, thermal pollution, and changes to hydrologic flow.

### EGLE Nonpoint Source Links

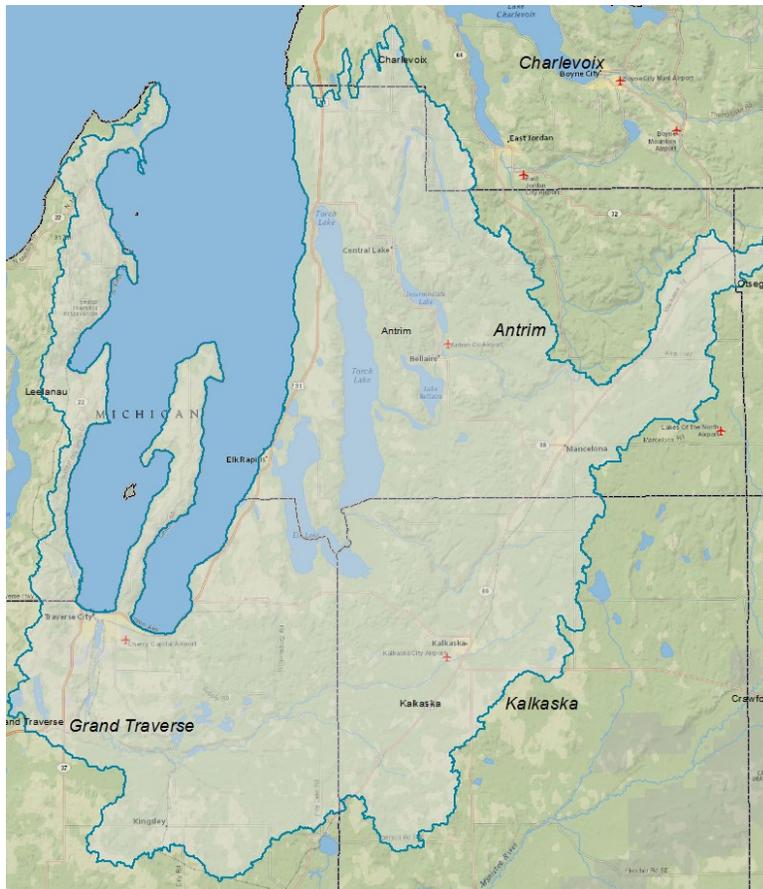
- [Glen Lake-Crystal River Watershed Management Plan](#) (8 MB PDF)

### Watershed Websites

- [The Leelanau Conservancy](#)

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## GRAND TRAVERSE BAY WATERSHED



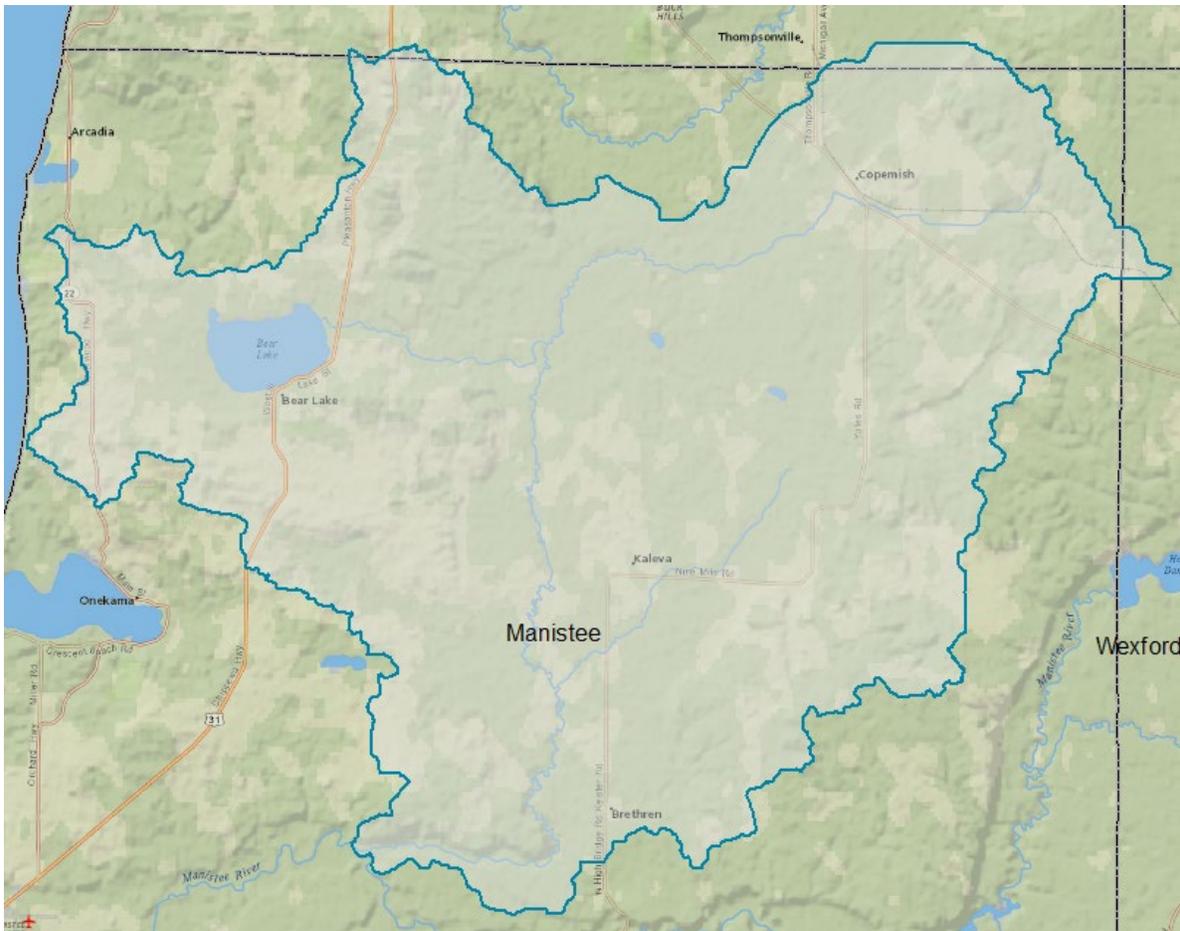
The Grand Traverse Bay Watershed Protection Plan was prepared by the Watershed Center Grand Traverse Bay and was approved as meeting CMI criteria in 2003 and 319 criteria in 2006. The watershed covers portions of Antrim, Charlevoix, Grand Traverse, Kalkaska, and Leelanau Counties. The Grand Traverse Bay watershed is approximately 624,640 acres in size. Land cover within the planning area is 50 percent forested, 19 percent agricultural, 15 percent open shrub and grassland, 7 percent urban, 7 percent water, and 3 percent wetland. Designated uses addressed within the planning area include coldwater fisheries and other indigenous aquatic life and wildlife. The Grand Traverse Bay Watershed Protection Plan addresses the sources of sediment, nutrients, thermal pollution, toxins, changes to hydrologic flow, and pathogens.

### Watershed Websites

- [Grand Traverse Bay Management Plan](#)
- [Watershed Center Grand Traverse Bay](#)

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## GREATER BEAR CREEK (MANISTEE COUNTY) WATERSHED



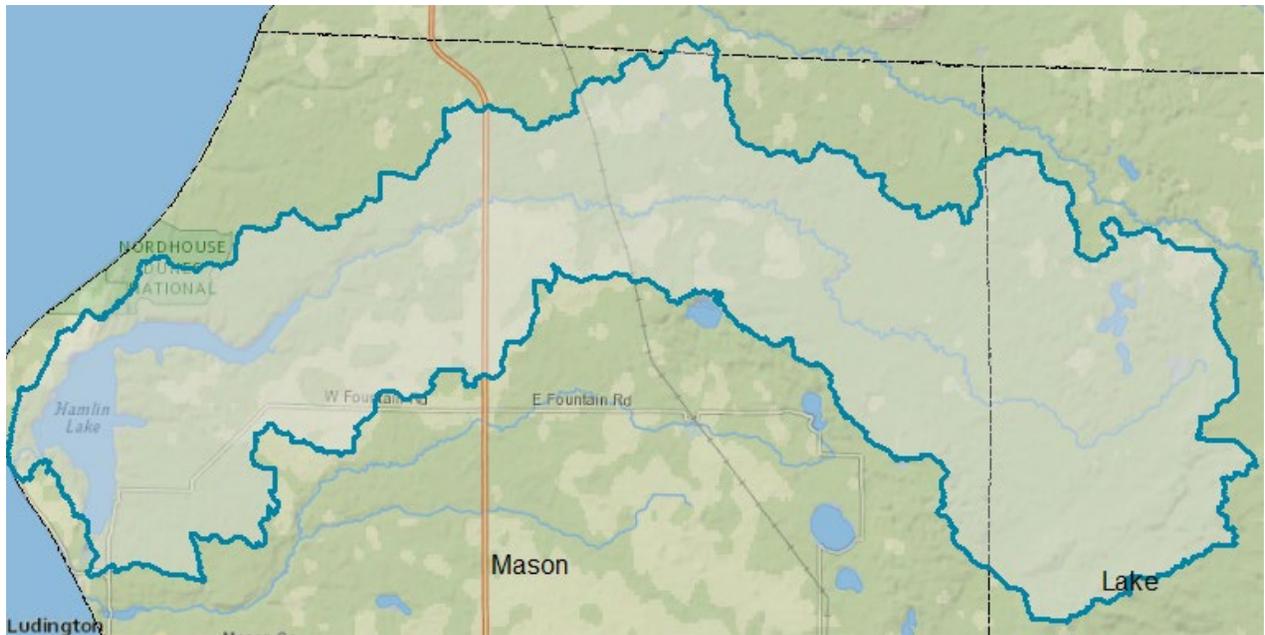
The Greater Bear Watershed Management Plan was prepared by Public Sector Consultants, Inc. for the Manistee County Community Foundation, the Greater Bear Watershed Steering Community, and the Alliance for Economic Success. The plan was approved as meeting CMI criteria in 2000 and 319 criteria in 2014. The Greater Bear Watershed is located in the northwest portion of Michigan's Lower Peninsula, primarily in Manistee County, with portions extending into Benzie and Wexford Counties. The watershed planning area encompasses approximately 130,800 acres. Land cover within the planning area is approximately 30 percent deciduous forest, 15 percent woody wetland, 15 percent grassland/herbaceous, 12 percent cropland, 10 percent conifer, with the remaining 18 percent mixed land cover types. Designated uses addressed within the planning area include coldwater fisheries and other indigenous aquatic life and wildlife, and total and partial body contact recreation. The Greater Bear Watershed Management Plan addresses the sources of nutrients, sediments, pathogens, habitat degradation, invasive species, and toxic and hazardous materials.

### Watershed Websites

- [Greater Bear Management Plan](#)
- [Greater Bear Watershed](#)

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## HAMLIN LAKE/BIG SABLE WATERSHED



Hamlin Lake/Big Sable Watershed Management Plan was approved as meeting CMI criteria in 1999. Hamlin Lake is located in Mason and Lake Counties and is adjacent to the shoreline of Lake Michigan. The Hamlin Lake Watershed is 113,920 acres in size. The predominant land cover in the watershed is forest.

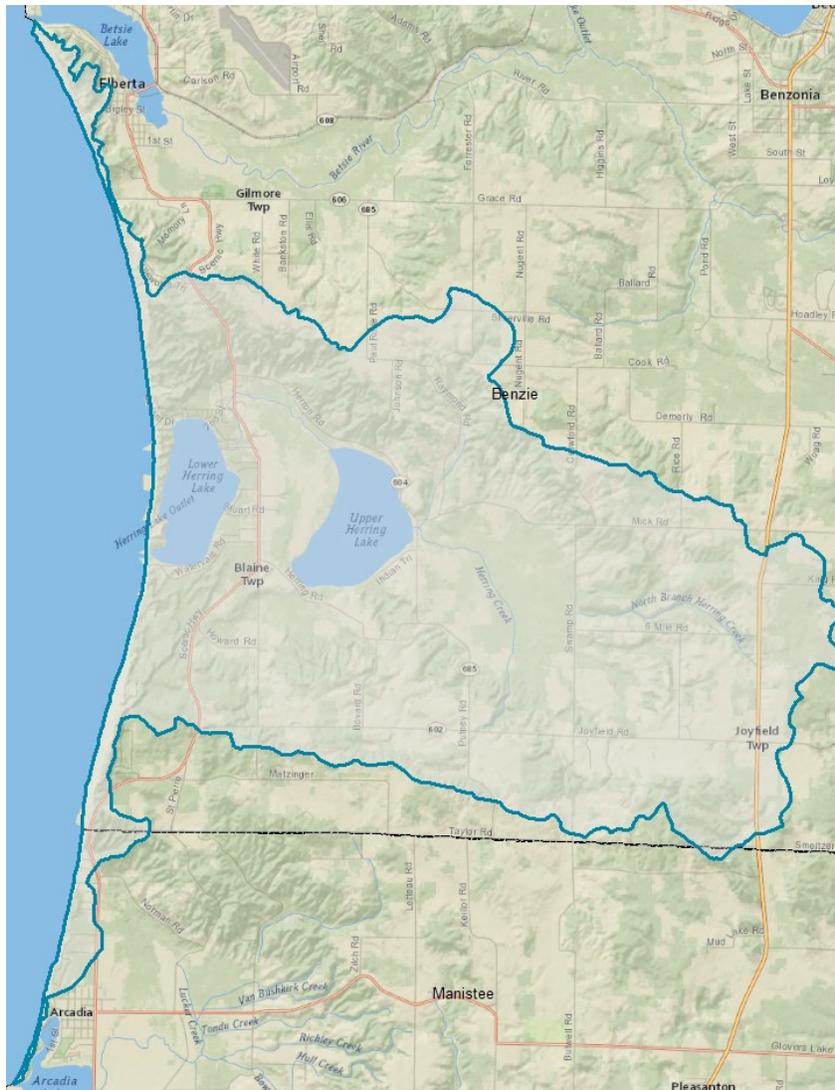
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### **Watershed Websites**

- [Conservation Resource Alliance](#)

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## HERRING LAKE WATERSHED



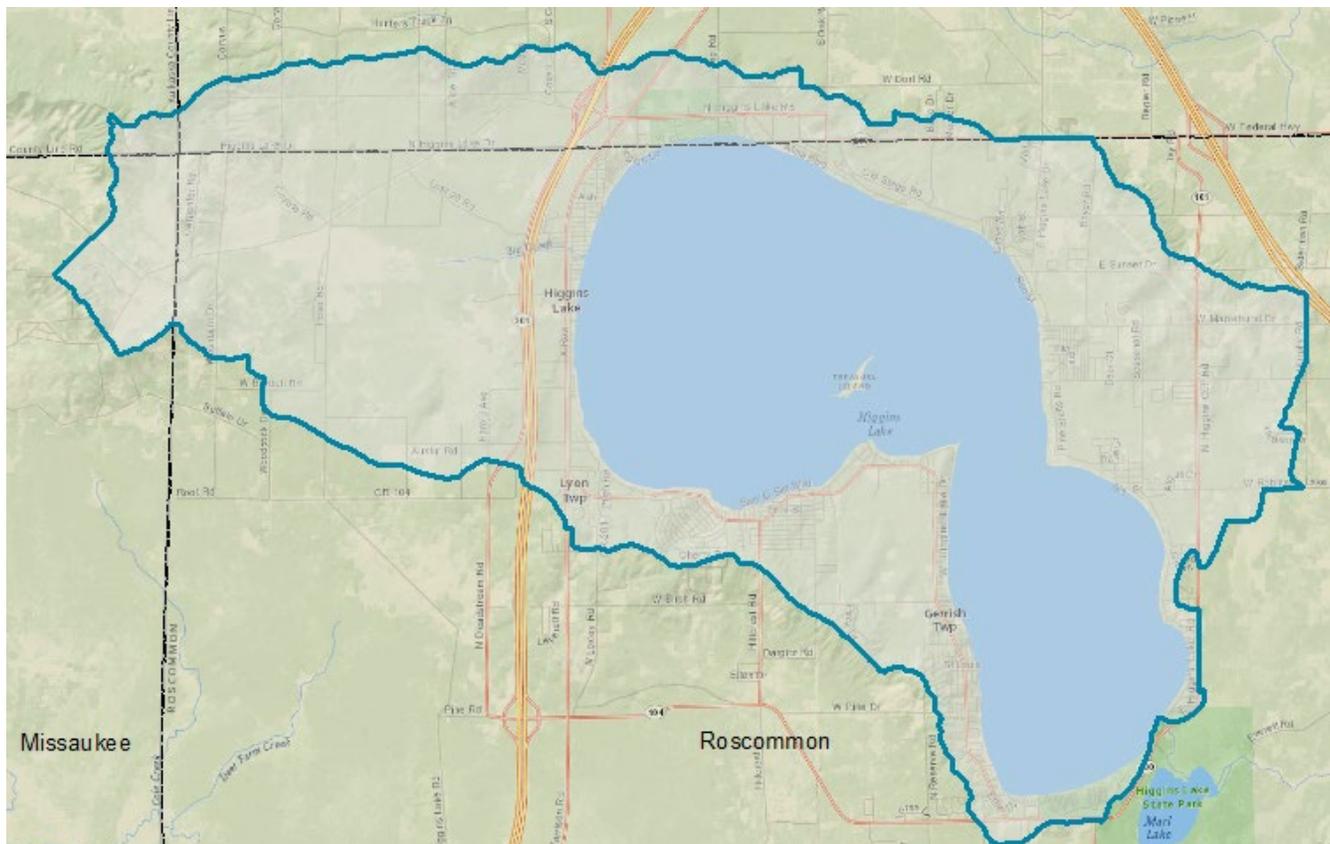
The Herring Lake Watershed Protection Plan was updated by Grobbel Environmental and Planning Associates and the Herring Lakes Watershed Steering Committee and was approved as meeting CMI and 319 criteria in 2018. The planning area is predominantly located within Benzie County and is approximately 16,201 acres in size. Land cover within the watershed is 42 percent forested, 25 percent agriculture, 14 percent range land, 6 percent water, 7 percent wetlands, 2 percent residential and 1 percent commercial. Designated uses addressed by the plan are total and partial body contact. Pollutants and environmental stressors addressed by the plan include nutrients, pathogens, toxins, sediment, invasive species, loss of habitat, altered hydrology, and temperature.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Benzie Conservation District](#)

## HIGGINS LAKE WATERSHED



The Higgins Lake Watershed Management Plan was prepared by Huron Pines and was approved as meeting CMI criteria in 2002 and 319 criteria in 2007. The Higgins Lake Watershed is predominantly located in Roscommon and Crawford Counties with minor acreage in Kalkaska and Missaukee Counties. The planning area is approximately 29,000 acres in size. Land cover within the planning area is 48 percent forested, 36 percent water, 13 percent commercial/residential, 2 percent wetland, 1 percent rangeland/barren, and less than 1 percent agricultural. All designated uses within the planning area are being met. The pollutants of concern in the Higgins Lake Watershed include nutrients, sediment, pathogens, and invasive species.

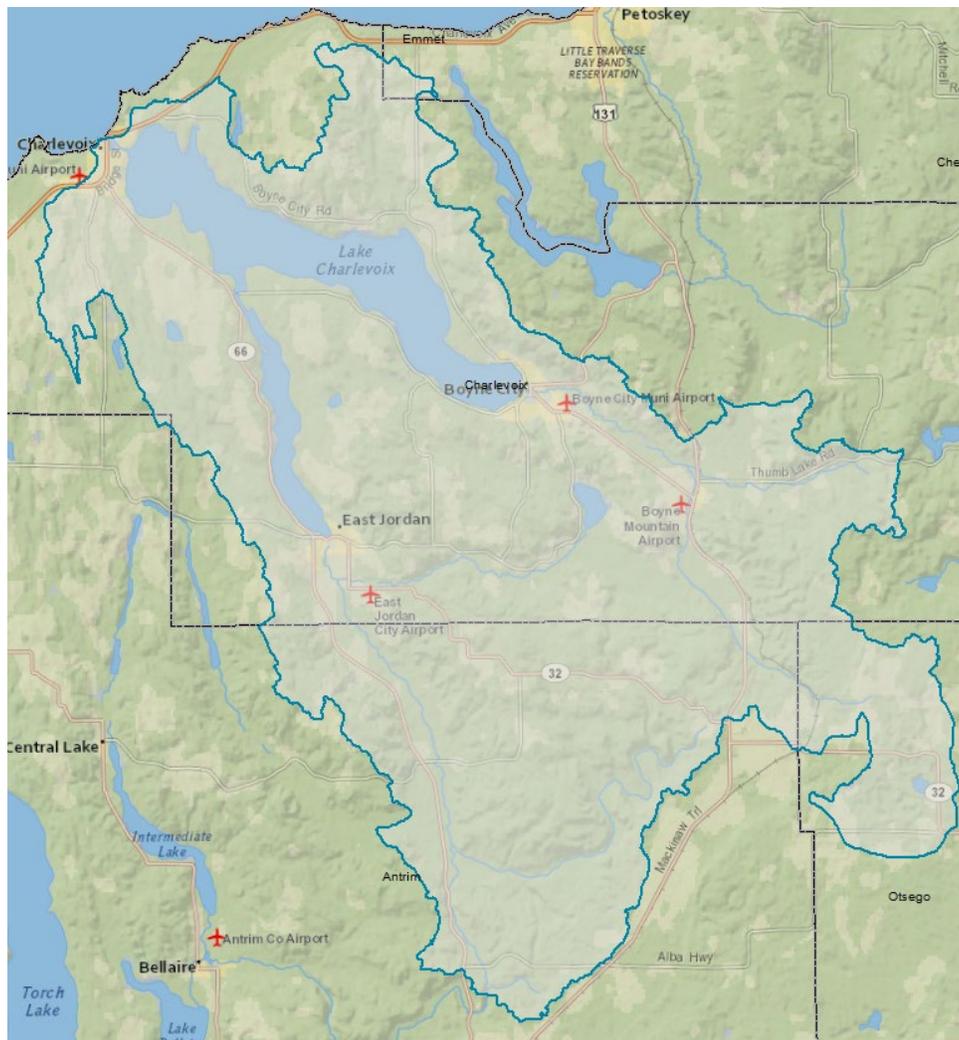
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Huron Pines](#)

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## LAKE CHARLEVOIX WATERSHED



The Lake Charlevoix Watershed Management Plan was developed by the Lake Charlevoix Watershed Advisory Committee and Tipp of the Mitt Watershed Council and was approved as meeting both CMI and section 319 criteria in 2012. The Lake Charlevoix Watershed planning area is 212,515 acres in size. The planning area is located in portions of Antrim, Charlevoix, Emmet, and Otsego Counties. Land cover within the planning area is 47.8 percent forested, 16.4 percent agricultural production, 12.6 percent wetland, 9.9 percent open, 8.7 percent water and 4.5 percent urban. There are no impaired waterbodies within the Lake Charlevoix planning area. Pollutants of concern include dissolved solids, chlorides, toxic substances, radioactive substances, nutrients, microorganisms, dissolved oxygen, and temperature.

### EGLE Nonpoint Source Links

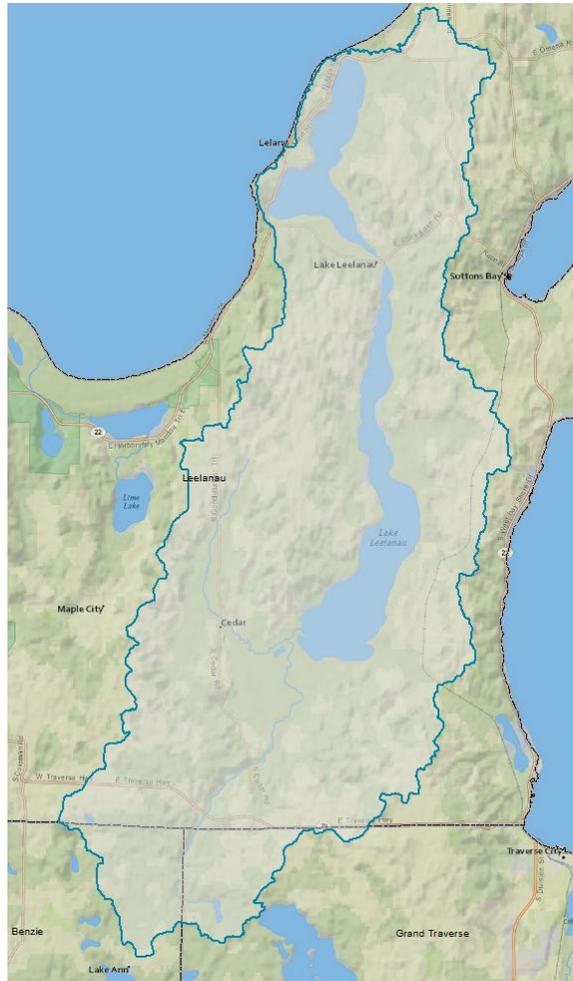
- [Lake Charlevoix Watershed Plan](#) (9 MB PDF)

### Watershed Websites

- [Tip of the Mitt Watershed Council](#)

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## LAKE LEELANAU WATERSHED



The Lake Leelanau Watershed Protection Plan was developed by Leelanau Conservancy and Lake Leelanau Lake Association. The plan was approved as meeting CMI and 319 criteria in 2010. The planning area is predominantly located in Leelanau County and encompasses 89,535 acres. The land cover within the watershed is 32.5 percent forested, 24 percent, 19.6 percent open shrub/grassland, 9.9 percent water, 8.9 percent wetland, and 5 percent urban. There are no impaired designated uses within the watershed. The main pollutants of concern within the planning area are nutrients and sediment.

### EGLE Nonpoint Source Links

- [Lake Leelanau Watershed Protection Plan](#) (4 GB PDF)

### Watershed Websites

- [Leelanau Conservancy](#)
- [Lake Leelanau Lake Association](#)

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## LAKE MARGRETHE WATERSHED

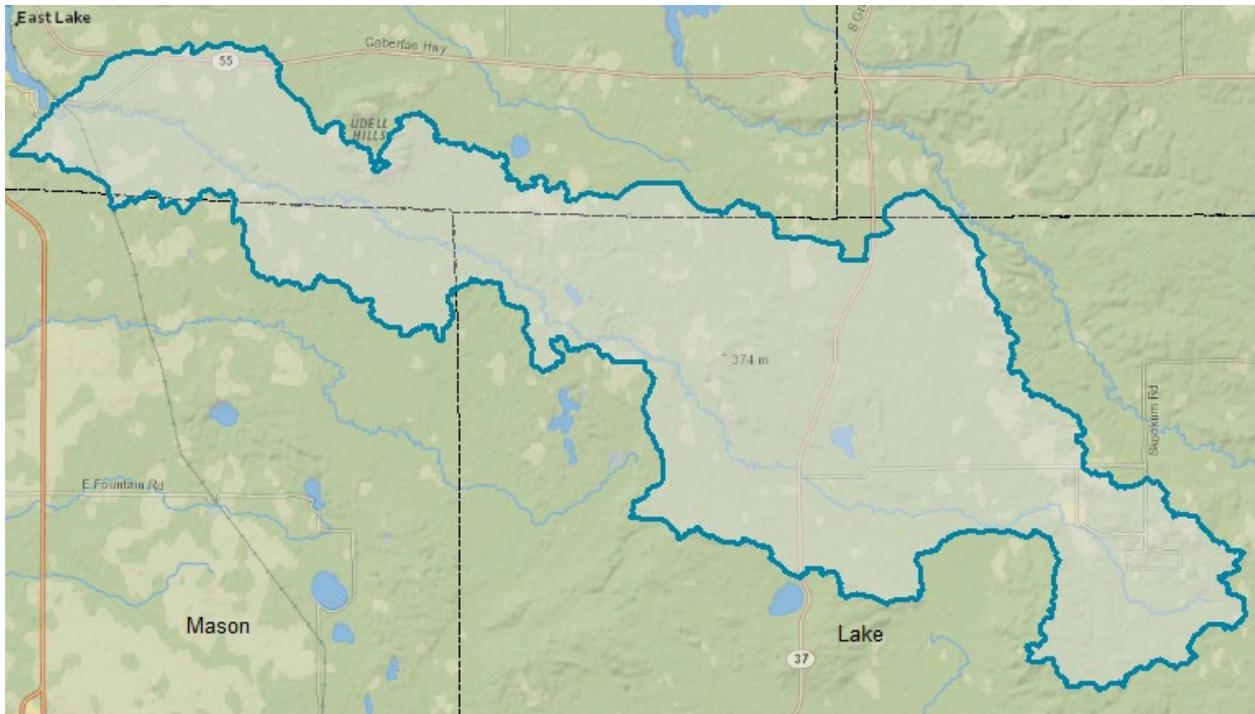


The Lake Margrethe Watershed Management Plan was developed by Amec Foster Wheeler Environmental & Infrastructure Inc. for the Michigan Department of Military and Veterans Affairs and was approved as meeting CMI and 319 criteria in 2017. The planning area is 9,987 acres in size. Land cover within the planning area is 53 percent forested, 21 percent water, 10 percent urban buildup, 7 percent residential, 6 percent wetlands, and 2 percent rangeland. As of the writing of this plan all designated uses are being met. The plan addresses issues associated with sedimentation, shoreline erosion, nutrients, septic systems, invasive species, and culverts.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

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## LITTLE MANISTEE RIVER WATERSHED



The Little Manistee Watershed Management Plan was prepared the Conservation Resource Alliance and received CMI approval in 2000. The planning area encompasses approximately 145,000 acres. Designated uses addressed by the plan include coldwater fisheries, other indigenous aquatic life and wildlife, and total body contact. The primary pollutants are sediments, nutrients, thermal pollution, and bacteria.

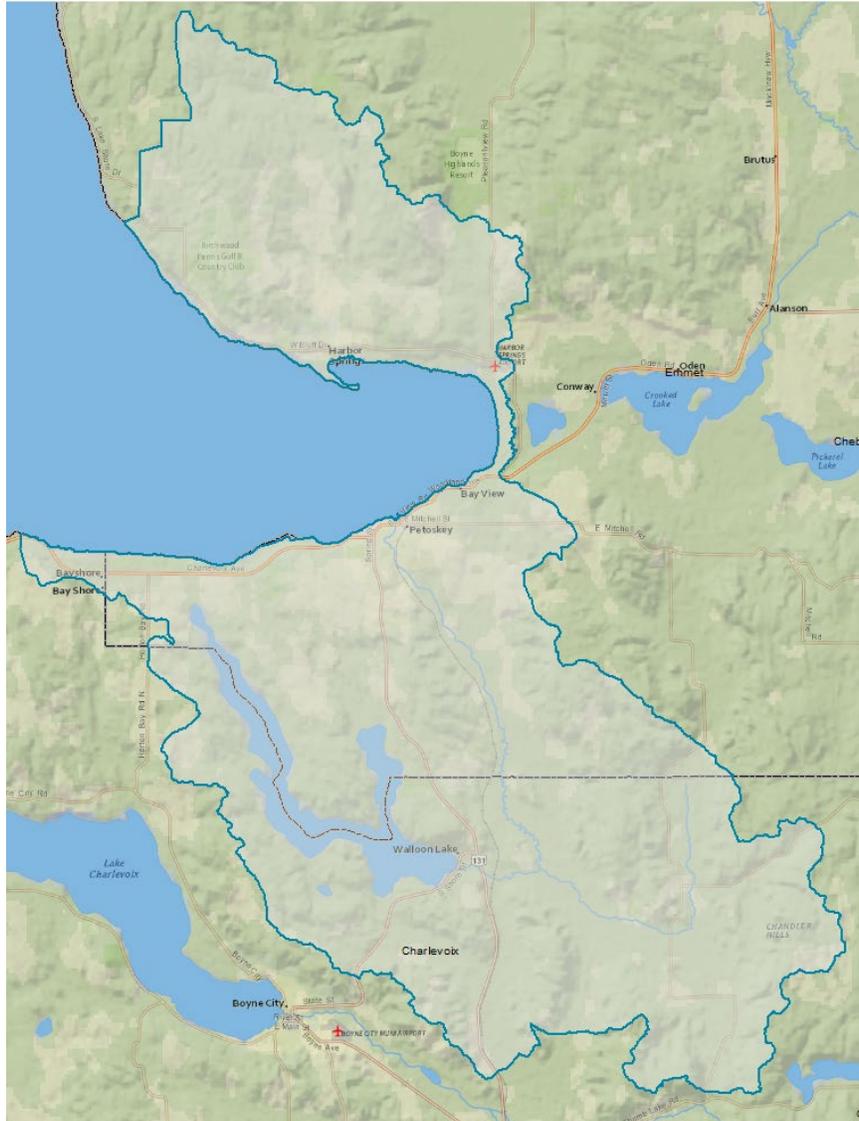
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Conservation Resource Alliance](#)

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## LITTLE TRAVERSE BAY WATERSHED



The Little Traverse Bay Watershed Protection Plan was developed by the Tip of the Mitt Watershed Council. The plan received CMI approval in 2004 and 319 approval in 2007. The planning area covers 111,207 acres in portions of Charlevoix and Emmet Counties. Land cover within the planning area is 50 percent forests, 21 percent agriculture, 14 percent wetland, 8 percent grasslands, 4.5 percent open water, 2 percent urban developments, and 0.5 percent barren lands. There are no impaired designated uses within the planning area. Degraded uses include warmwater fisheries, and total body contact recreation. Pollutants of concern include toxics, sediments, nutrients, and bacteria.

### EGLE Nonpoint Source Links

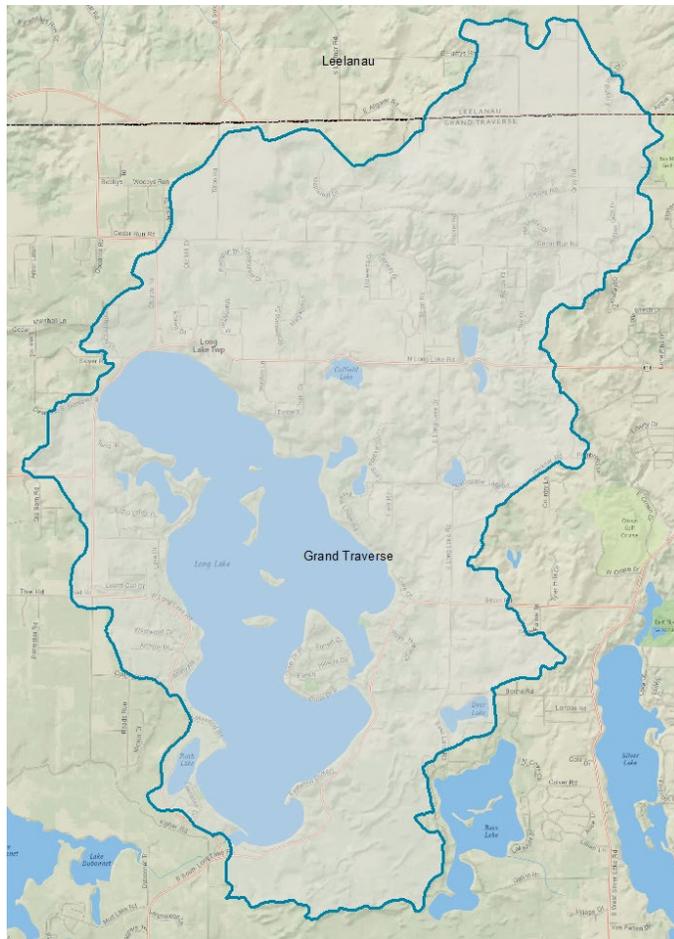
- [Little Traverse Bay Watershed Management Plan](#)

### Watershed Websites

- [Tip of the Mitt Watershed Council](#)

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## LONG LAKE WATERSHED



The Long Lake Watershed Management Plan was prepared by Great Lakes Environmental Center. The plan was approved as meeting CMI criteria in 2001 and 319 criteria in 2009. The Long Lake Watershed consists of an area of approximately 14,435 acres situated inside Grand Traverse County and a small portion of southern Leelanau County. Land cover within the planning area is 28 percent agricultural, 25 percent forest, 22 percent water, 12 percent urban, 10 percent rangeland, and 1.7 percent wetland. There are no designated use impairments in the planning area. The plan addresses issue associated with warmwater fisheries, other indigenous aquatic life, and total body contact. The Long Lake Watershed Management Plan addresses the sources of sediment, nutrients, toxins, and invasive species.

### EGLE Nonpoint Source Links

- [Long Lake Watershed Management Plan](#) (9 GB PDF)

### Watershed Websites

- [Platte River Watershed](#) (a larger watershed management plan encompassing Long Lake)

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## MANISTEE RIVER WATERSHED



The Manistee Watershed Management Plan was approved as meeting CMI criteria in 2000. The Manistee River Watershed is a 1.4 million acres in size and is located in northwestern Michigan. Land cover in the watershed is approximately 41 percent forested, 39 percent agriculture, 13 percent wetland, and the rest other.

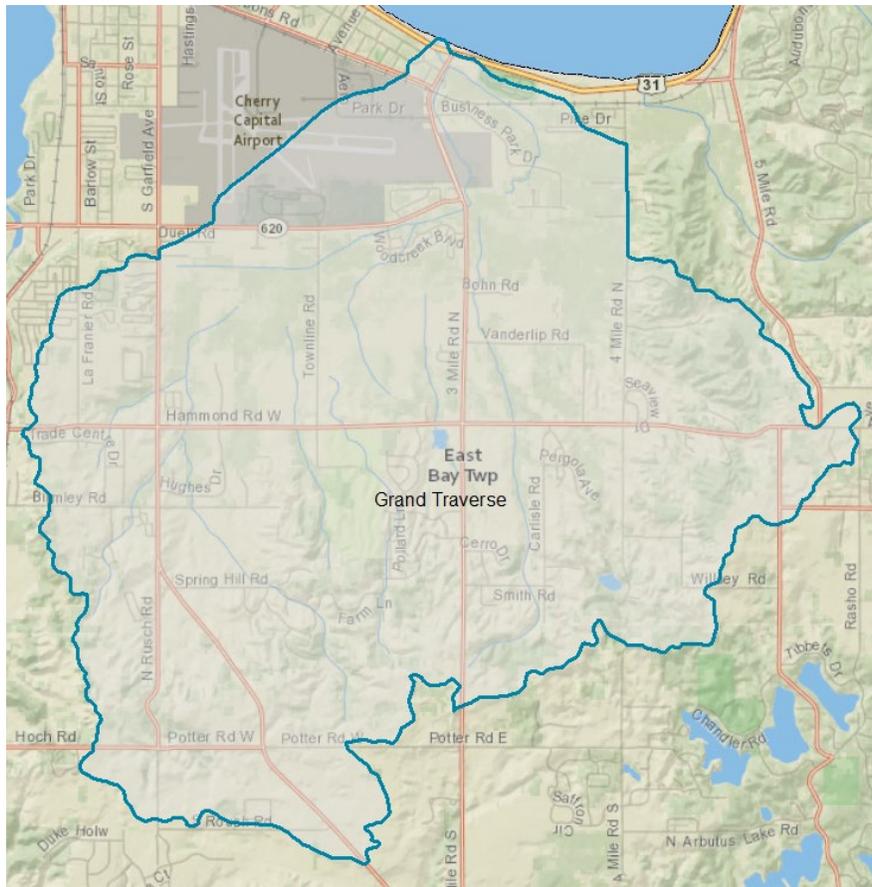
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Conservation Resource Alliance](#)
- [Huron Pines](#)

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## MITCHELL CREEK WATERSHED



The Mitchell Creek Watershed Protection Strategy was developed by Grand Traverse County and was approved as meeting CMI criteria in 1995. The Mitchell Creek Watershed planning area is approximately 9,400 acres in size and located in Grand Traverse County. Land cover in the watershed is 31 percent forested, 30 percent other, 26 percent agricultural, 6 percent residential, 5 percent airport, 1 percent industrial, and 1 percent commercial. There are no impairments within the watershed. Pollutants of concern in the watershed are sediment, and nutrients.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Grand Traverse Bay County](#)

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## MULLET LAKE WATERSHED

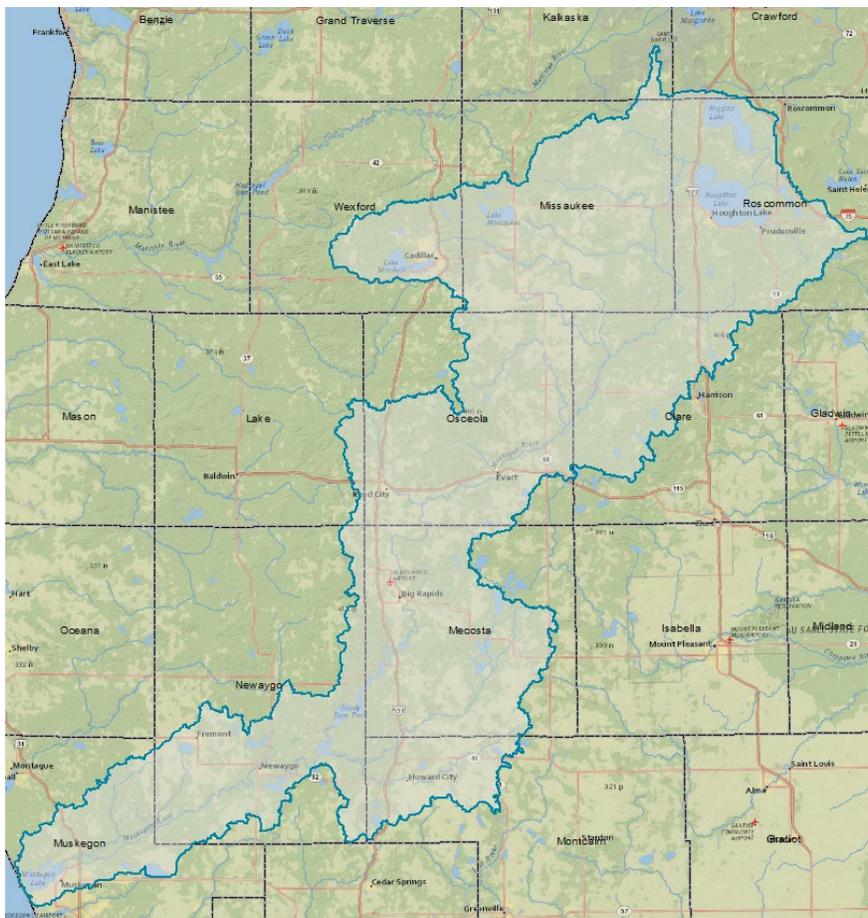


The Mullet Lake Watershed Management Plan was approved as meeting CMI criteria in 2002. The Mullet Lake Watershed is located in Cheboygan County. The planning area is 61,588 acres in size.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

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## MUSKEGON RIVER WATERSHED



The Muskegon River Watershed Management Plan was developed by the Annis Water Resources Institute and was approved as meeting CMI criteria in 2002 and 319 criteria in 2007. The Muskegon River planning area spans 1,744,000 acres. The planning area is within portions of Kalkaska, Crawford, Wexford, Missaukee, Roscommon, Lake, Osceola, Clare, Mecosta, Montcalm, Newaygo, and Muskegon Counties. Land cover within the planning area is 47.6 percent forested, 33.4 percent agricultural, 11.3 percent wetland, 3.7 percent water, 2.8 urban or built-up land, and 1.2 percent barren land. Designated uses addressed within the planning area include warm- and coldwater fisheries, other indigenous aquatic life as well as partial, and total body contact. Pollutants of concern in the watershed include thermal pollution, nutrients, hydrologic flow, sediment, toxic substances, microorganisms, and invasive species.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area](#) or the [NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Michigan State University's Ecological Assessment](#)
- [University of Michigan's Comprehensive Model, Risk Assessment, and Management Tools](#)
- [Grand Valley State University, Robert B. Annis Water Resources Institute](#)

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## OCQUEOC RIVER WATERSHED



The Ocqueoc River Watershed Management Plan was prepared by Huron Pines and was approved as meeting CMI criteria in 2004 and 319 criteria in 2007. The Ocqueoc River planning area is located in Presque Isle County and encompasses approximately 94,394 acres. Land cover within the planning area is 51.5 percent upland forest, 19.8 percent lowland forest, 10.5 percent agricultural, 7.5 percent wetland, 4.6 percent water, 3.9 percent non-forested, 1.9 percent residential, 0.5 percent industrial, 0.1 percent institution/recreational, and 0.1 percent commercial. All designated uses are being met within the planning area. Designated uses addressed within the planning area include navigation, warm or cold-water fisheries, indigenous aquatic life and wildlife, as well as partial and total body contact recreation. Pollutants addressed by the plan include nutrients, sediment, pesticides, and exotic species.

### EGLE Nonpoint Source Links

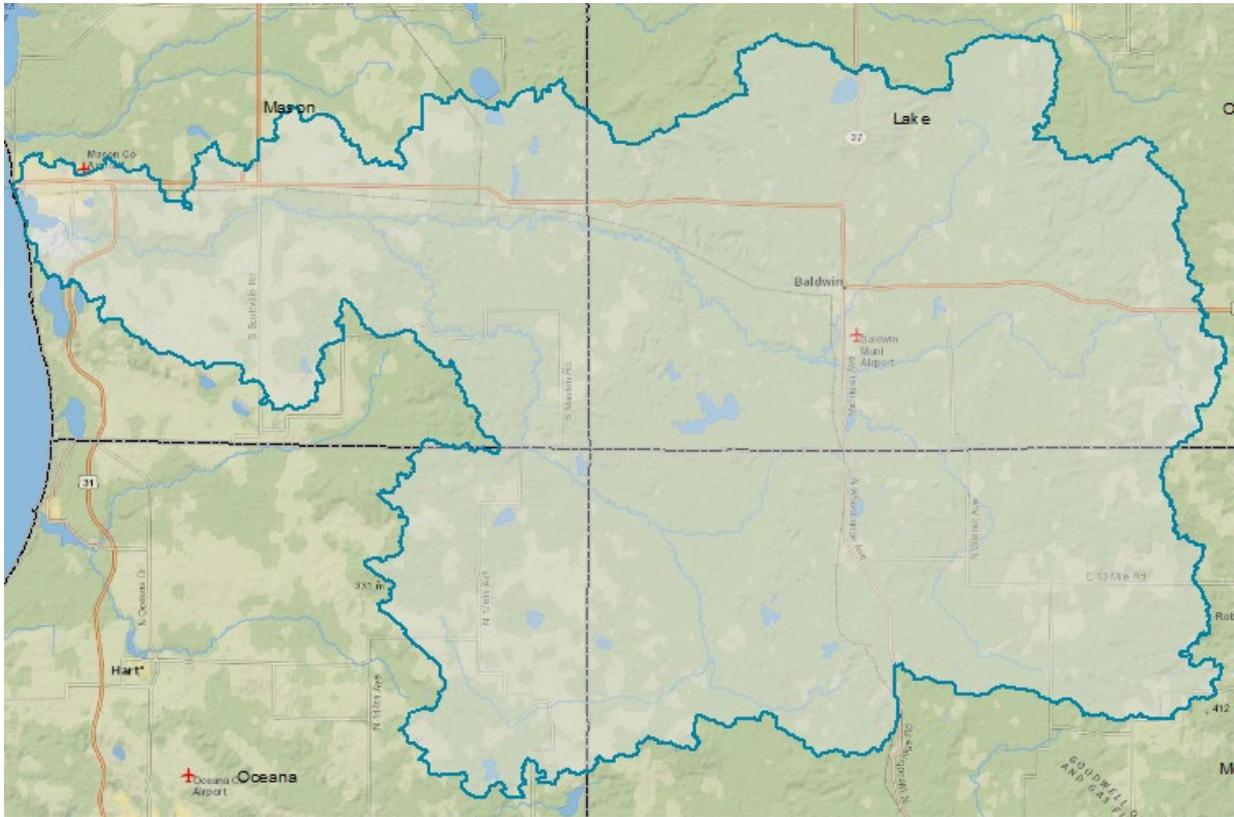
- [Ocqueoc River Watershed Management Plan](#)

### Watershed Websites

- [Huron Pines](#)

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## PERE MARQUETTE WATERSHED



The Pere Marquette River Watershed Management Plan was developed by the Conservation Resource Alliance and was approved as meeting CMI criteria in 2001 and 319 criteria in 2011. The planning area encompasses 483,200 acres. Land cover in the watershed is 56.4 percent forest, 15 percent wetland, 9.6 percent cultivated crops, 6.4 percent grassland, 6.1 percent developed (residential, commercial, industrial, etc.), 3.1 percent shrub/scrub, 2.2 percent pasture/hay, and 1.3 percent water. There are no designated use impairments in the watershed. Pollutants of concern include sediment, nutrients, changes to hydrologic flow, invasive species, toxins (pesticides, herbicides, oils, gas, grease, salt/chlorides), pathogens (*E. coli*, fecal coliform), and thermal pollution.

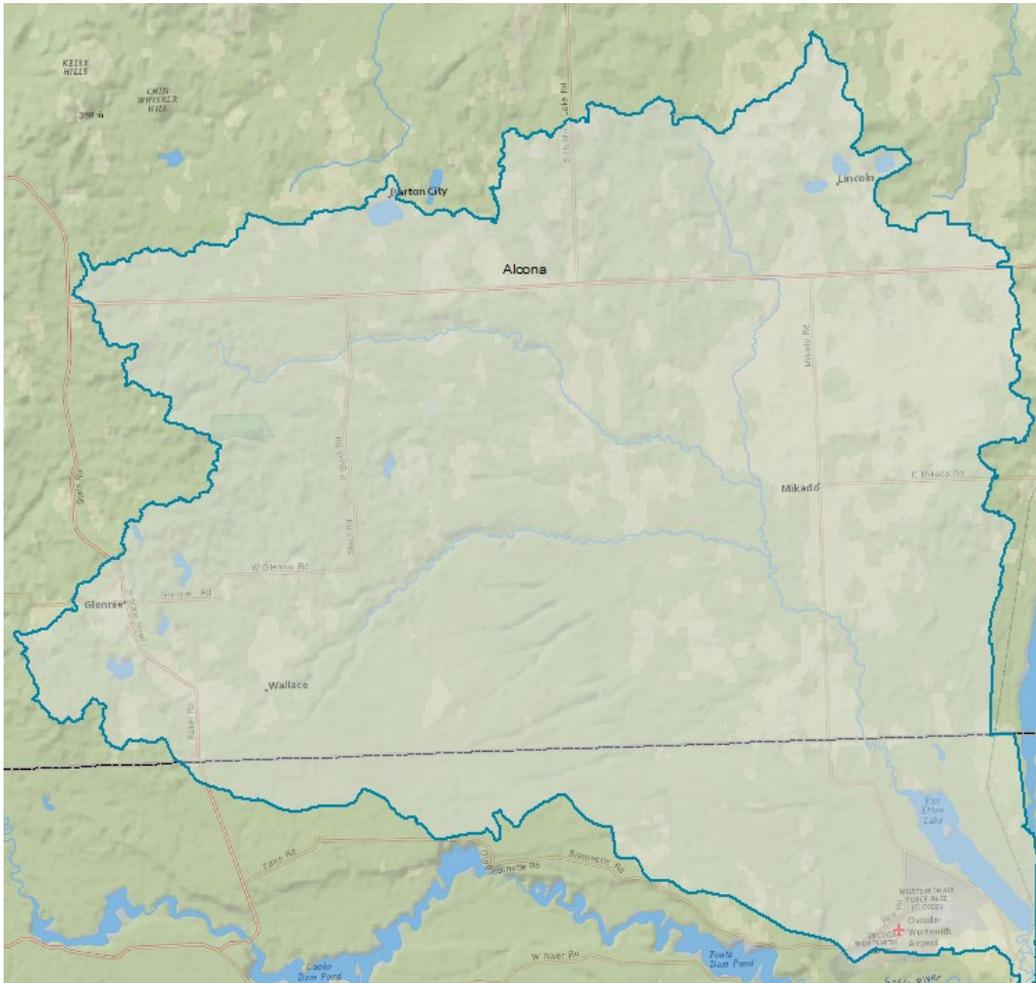
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Conservation Resource Alliance](#)

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## PINE RIVER/VAN ETTEN LAKE WATERSHED



The Pine River-Van Etten Lake Watershed Management Plan was prepared by Huron Pines and was approved as meeting CMI criteria in 2003 and 319 criteria in 2010. The Pine River-Van Etten Lake planning area drains approximately 187,000 acres of land within Alcona and Iosco Counties. Land cover within the planning area is 53.9 percent forest, 21.8 percent wetland, 12.7 percent pasture/grassland, 5.1 percent row crops, 3.1 percent pits/quarry/rock, 1.7 percent water, and 1.5 percent residential. Designated uses addressed within the planning area include total body contact recreation and other indigenous aquatic life and wildlife. The Pine River-Van Etten Lake Watershed Management Plan addresses the sources of nutrients, sediment, pathogenic bacteria, invasive/exotic species, fuels, salts, pesticides, oils, and greases.

### EGLE Nonpoint Source Links

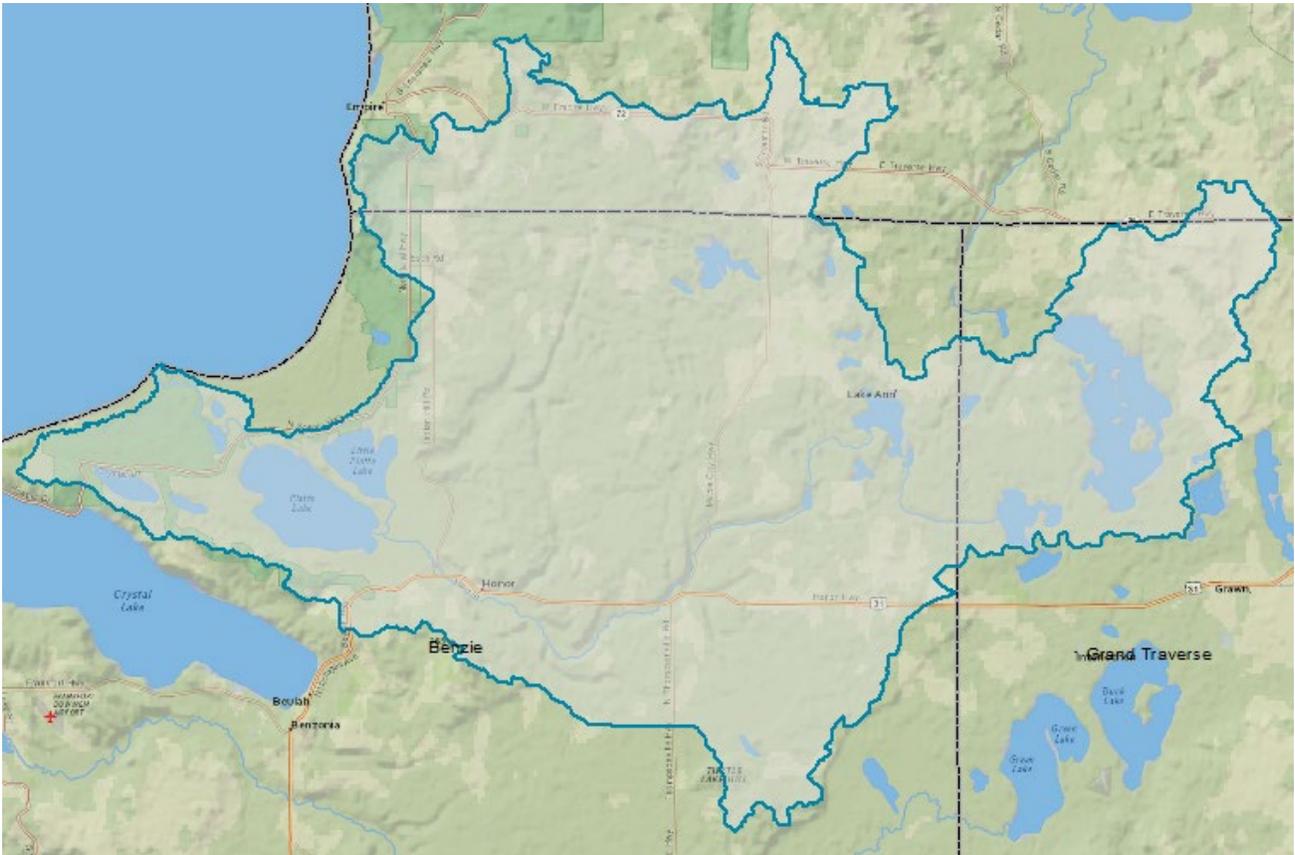
- [Pine River-Van Etten Lake Watershed Management Plan](#)

### Watershed Websites

- [Huron Pines](#)

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## PLATTE RIVER WATERSHED



The Platte River Watershed Protection Plan was prepared by the Platte River Watershed Protection Plan Steering Committee for the Platte Lake Improvement Association and Benzie County Conservation District. The plan was approved as meeting CMI and 319 criteria in 2014. The Platte River planning area is within Benzie, Grand Traverse, and Leelanau Counties and covers approximately 123,608 acres. Land cover within the planning area is 49 percent forested, 20 percent agriculture, 17 percent water and wetland, 10 percent rangeland, and 3 percent low density residential. Impaired designated uses within portions of the watershed include warm- and coldwater fisheries and other indigenous aquatic life and wildlife. Pollutants of concern include nutrients, sediment, thermal pollution, pathogens, toxins, and altered hydrology.

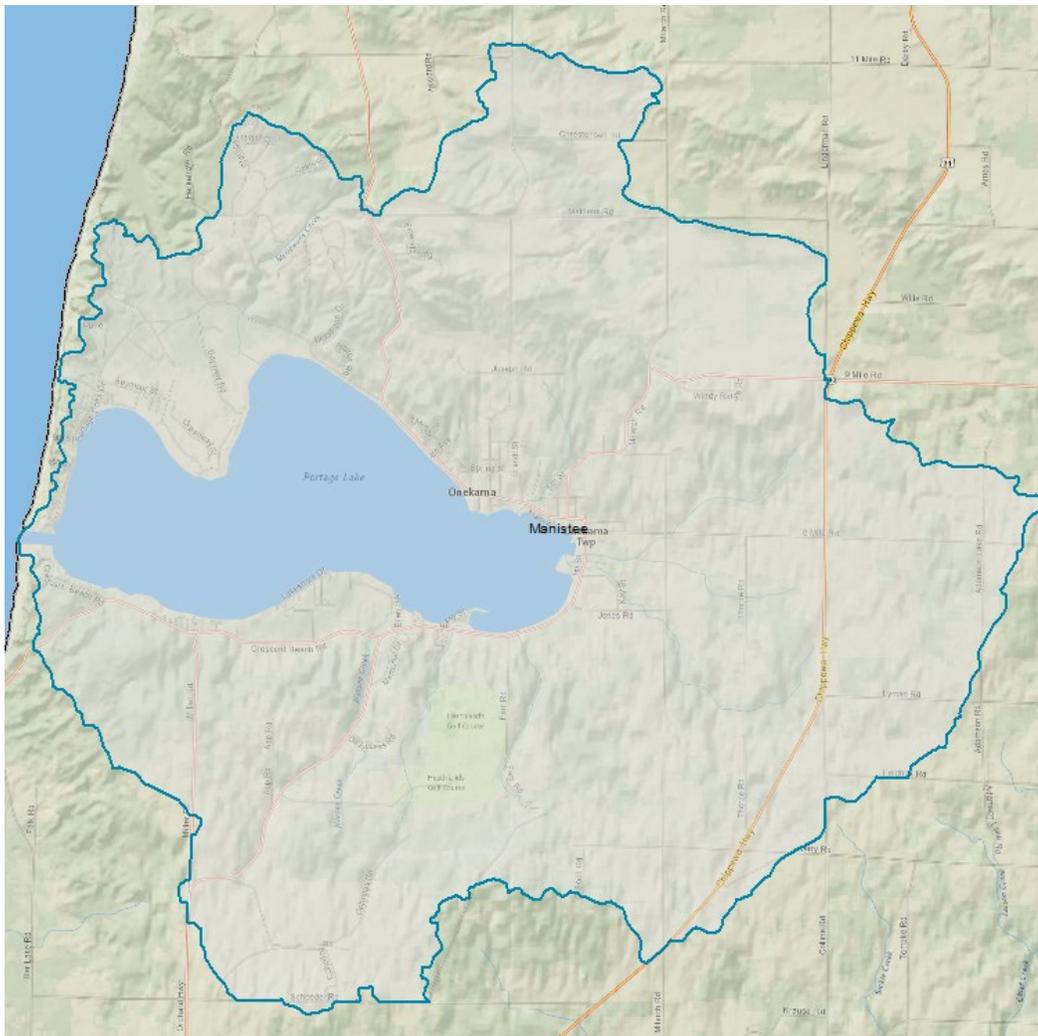
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Benzie Conservation District](#)

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## PORTAGE LAKE WATERSHED



The Portage Lake Watershed Forever Plan was prepared by Public Sector Consultants, Inc., and was approved as meeting both CMI and 319 criteria in 2008. The Portage Lake Watershed is located in Manistee County. The watershed planning area is 15,777 acres in size. Land cover within the planning area is 35.1 percent forested, 22.9 percent agricultural, 13.7 percent water, 12.4 percent grassland, 6.7 percent low-density residential, 4.6 percent wetland, 4.3 high-density residential, and 0.4 percent commercial/industrial. All designated uses are being met within the planning area. The Portage Lake Watershed Forever Plan addresses the sources of pathogens, nutrients, heavy metals, habitat degradation, and invasive plant species.

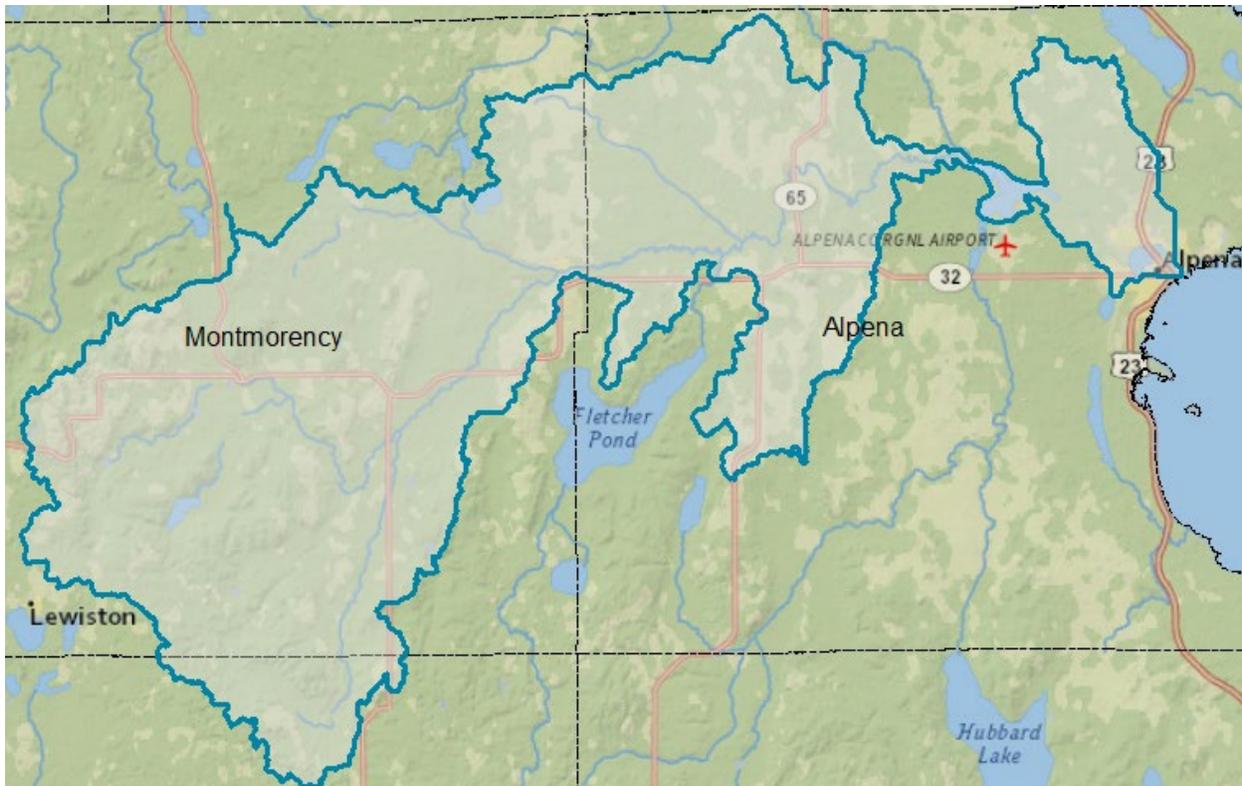
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Portage Lake Management Plan \(5 MB PDF\)](#)
- [Portage Lake Watershed Forever](#)

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## THUNDER BAY RIVER, MAIN BRANCH WATERSHED



The planning area of Main Branch of the Thunder Bay River was approved as meeting CMI criteria in 2002. The planning area is approximately 768,000 acres in size. Land cover within the watershed is 68 percent forested, 11 percent agriculture, 8 percent wetland and open water, 10 percent urban built-up, and 3 percent non-forest. No designated uses are impaired within the planning area. Pollutants of concern include sediment and nutrients.

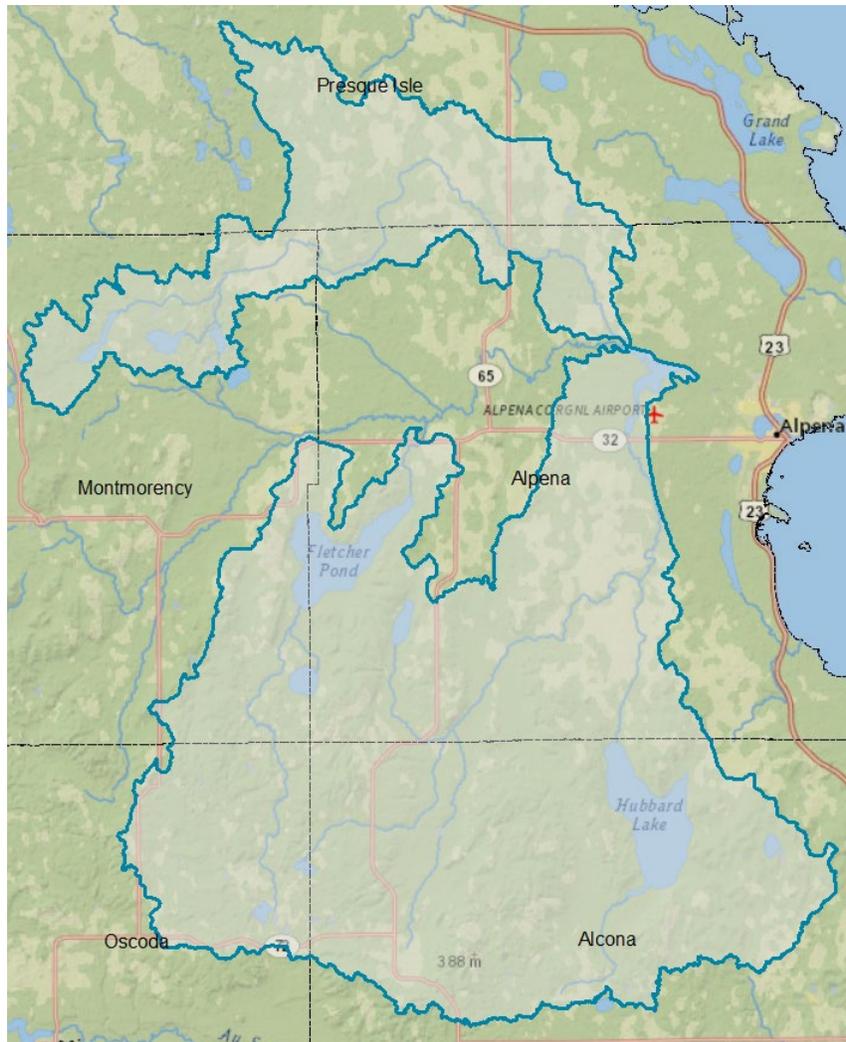
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Huron Pines](#)
- [Northeast Michigan Council of Governments](#)

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## THUNDER BAY RIVER, NORTH AND SOUTH BRANCHES



The Thunder Bay River North and South Branch Watershed management plan was approved as meeting CMI criteria in 2005. The planning area is located in the Northeast portion of the Lower Peninsula and is 506,558 acres in size.

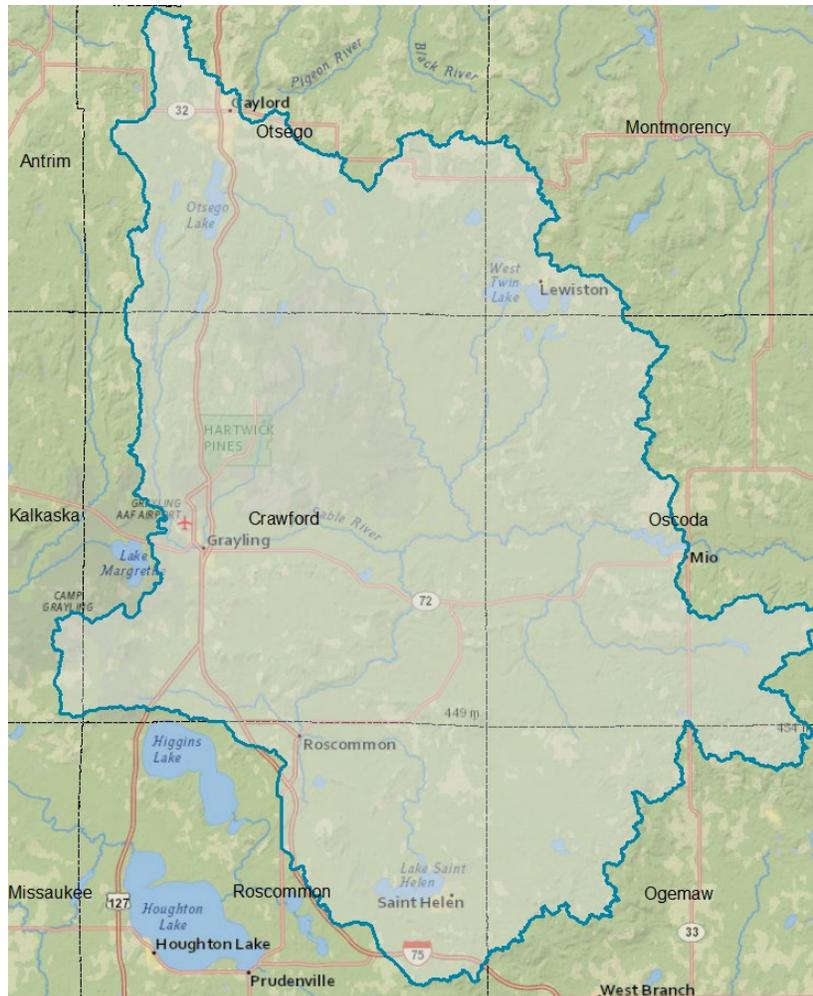
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### **Watershed Websites**

- [Northeast Michigan Council of Governments](#)

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## UPPER AU SABLE WATERSHED



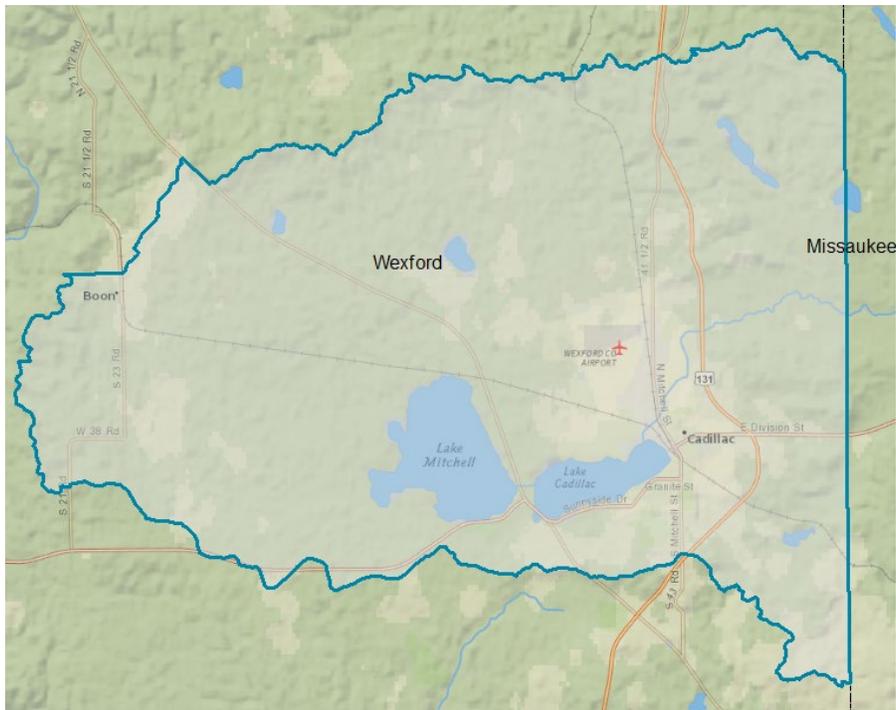
The Upper Au Sable River Watershed Management Plan was developed by the Au Sable River Watershed Restoration Committee and was approved as meeting CMI criteria in 2001. The Upper Au Sable River Watershed area is approximately 704,000 acres in size and covers portions of Otsego, Crawford, Montmorency, Roscommon, Ogemaw, Oscoda, Iosco, and Alcona Counties. Land cover in the planning area is 80 percent forested, 12 percent wetland, 5 percent agricultural, and 3 percent urban. The designated use addressed within the planning area is coldwater fisheries. Pollutants of concern in the watershed include sediment, temperature, oil and grease runoff, and nutrients.

### Watershed Websites

- [Upper Au Sable River Watershed Management Plan](#)
- [Au Sable River Watershed Committee](#)

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## UPPER CLAM RIVER WATERSHED



The Upper Clam River Watershed Management Plan was developed by the Wexford Soil and Water Conservation District and was approved as meeting CMI criteria in 1994. The Upper Clam River Watershed planning area is approximately 64,000 acres in size and lies within Wexford County. Land cover in the planning area is 62 percent forested, 10 percent agricultural, 8 percent wetland, 7 percent water, 6 percent urban, 5 percent rangeland, and 2 percent open. There are no impaired designated uses in the watershed. Pollutants of concern in the watershed are nutrients, sediment, and urban pollution.

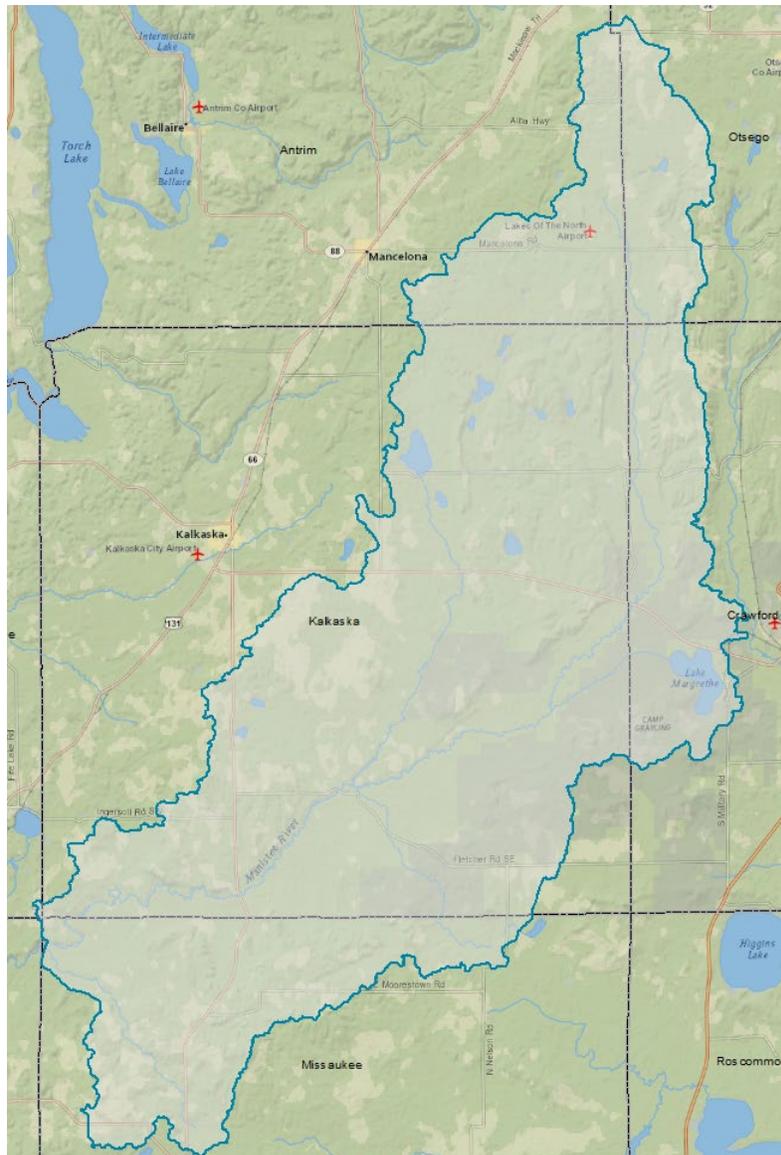
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### **Watershed Websites**

- [Wexford Conservation District](#)

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## UPPER MANISTEE RIVER WATERSHED



The Upper Manistee River Watershed Management Plan was prepared by Huron Pines. The plan received both CMI and 319 criteria approval in 2008. The planning area is located in the northwestern part of the Lower Peninsula and encompasses 316,600 acres. Land cover within the planning area is 71.3 percent forest, 14.1 percent wetland, 12.2 percent agriculture, 1.6 percent water, 0.7 percent barren land, and 0.2 percent residential areas. There are no impaired designated uses within the planning area. The primary pollutants of concern are sediments, nutrients, and thermal.

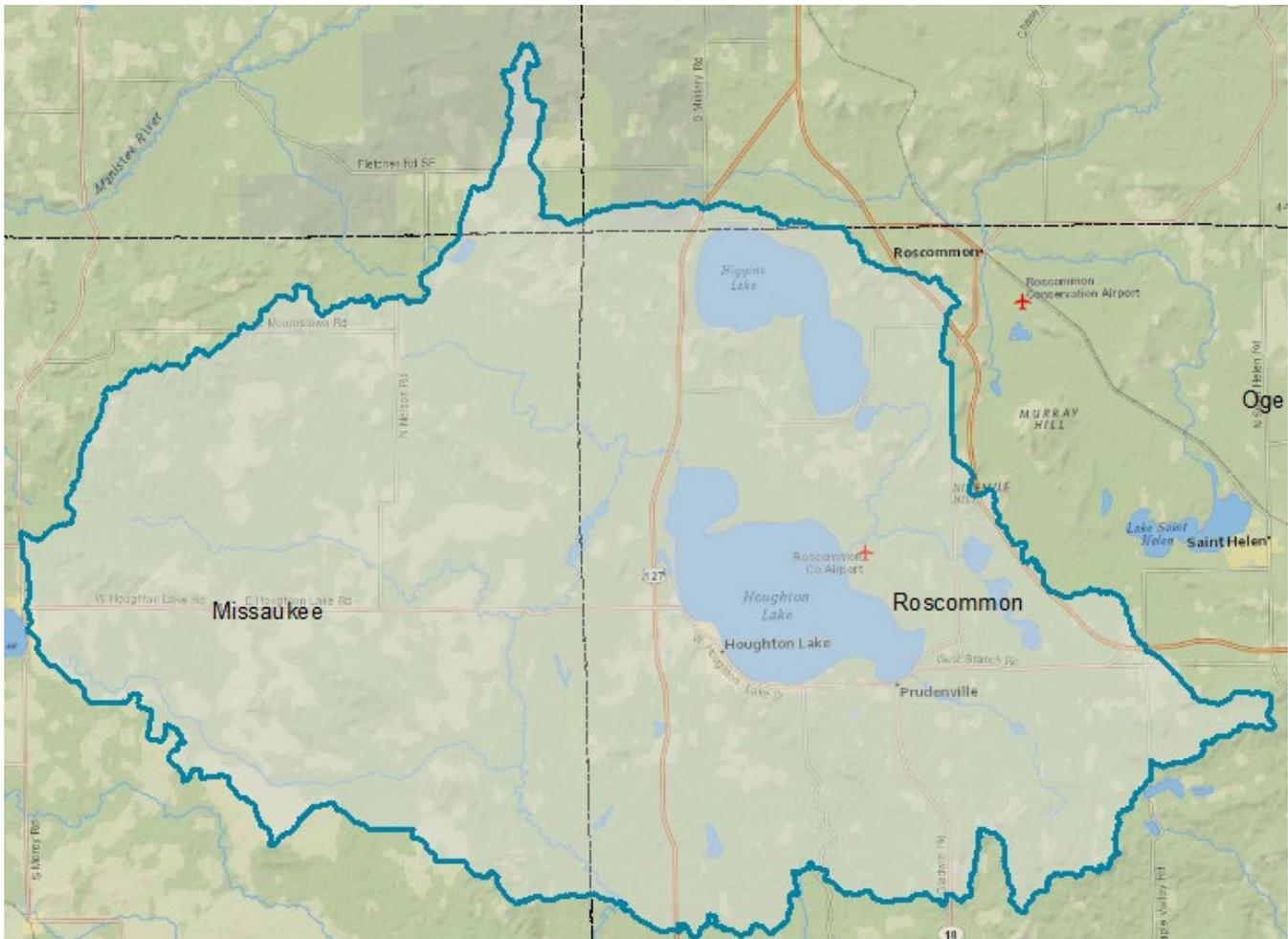
### EGLE Nonpoint Source Links

- [Upper Manistee River Watershed Management Plan](#)

### Watershed Websites

- [Huron Pines](#)

## UPPER MUSKEGON RIVER WATERSHED



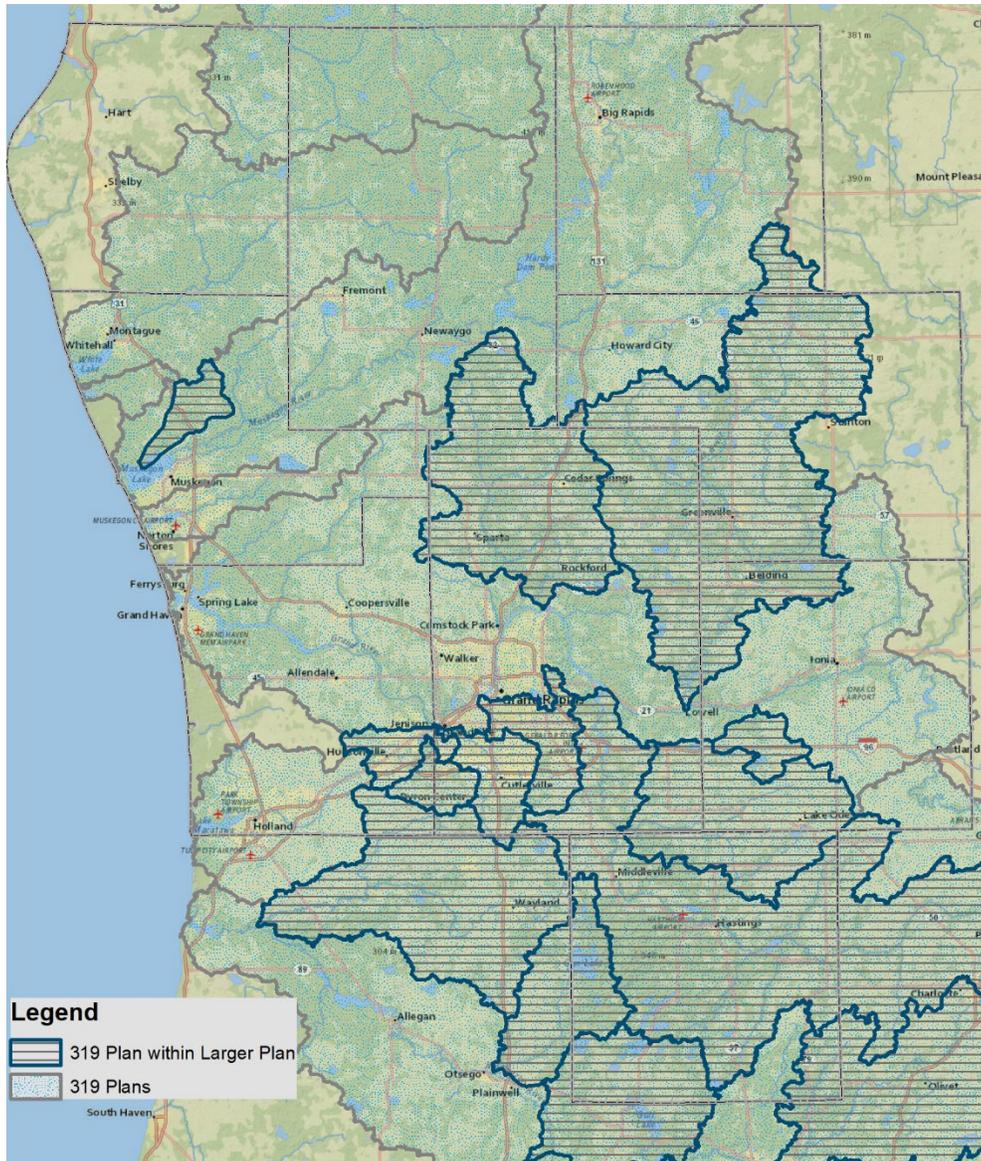
The Upper Muskegon River Watershed Management Plan was developed by the Annis Water Resources Institute for the Muskegon River Watershed Assembly. The plan was approved as meeting CMI and 319 criteria in 2015. The planning area is 385,955 acres in size and is predominantly in Roscommon and Missaukee Counties with smaller portions in Kalkaska and Crawford Counties. Land cover within the planning area is approximately 62 percent forested, 10 percent wetland, 8 percent water, 6 percent agriculture, 6 percent urban, 5 percent open fields, and the remainder in other cover types. Impaired designated uses include partial and total body contact recreation associated with four Houghton Lake beaches. The priority pollutant of concern is *E. coli*. Pollutants also addresses issues associated with invasive species, nutrients, temperature, dissolved oxygen, habitat loss, sediment, hydrology, and toxic substances.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

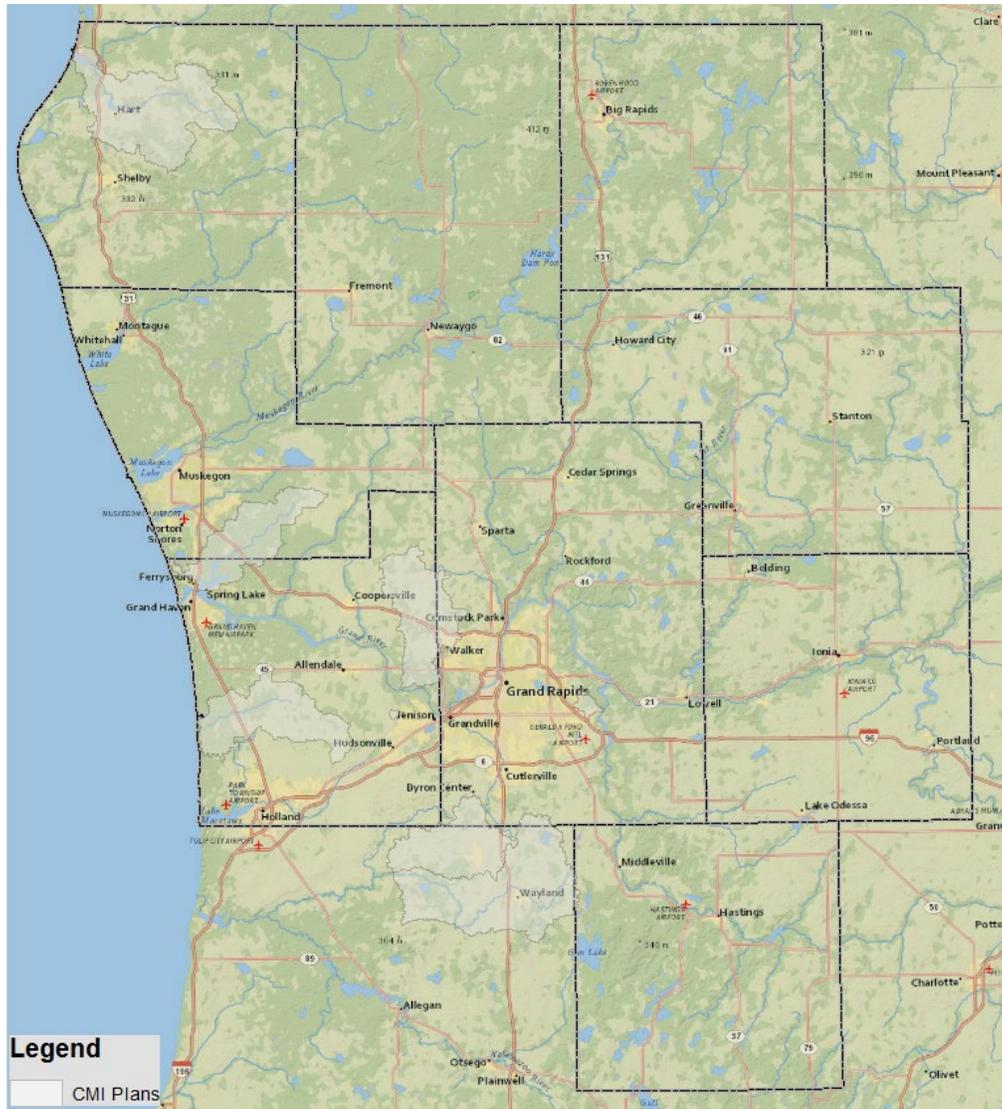
- [Muskegon River Watershed Assembly](#)

GRAND RAPIDS DISTRICT 319 WATERSHEDS



<b>CMI and 319 approved</b>	
Bear Creek/Bear Lake	Mona Lake
Buck Creek	Muskegon River
Coldwater River (Lower Grand)	Plaster Creek
Duck Creek	Rogue River
Flat River	Rush Creek
Lake Creek	Thornapple River
Lower Grand River	White River
Macatawa	

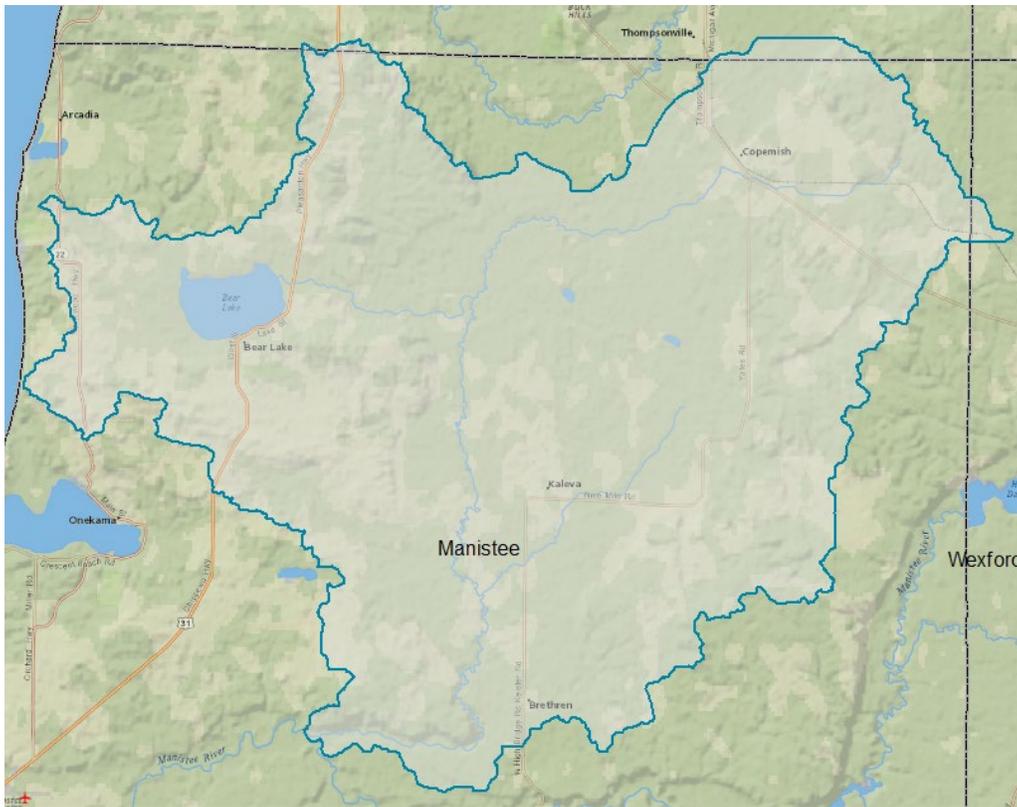
# GRAND RAPIDS DISTRICT CMI WATERSHEDS



CMI approved
Hager Creek
Muskegon Lake
Pigeon River
Sand Creek
Schoolhouse Creek
South Branch Pentwater River
Spring Lake

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## BEAR CREEK/BEAR LAKE



The Bear Creek & Bear Lake Watershed Management Plan was developed by the Muskegon Conservation District. The plan was approved as meeting both CMI and 319 criteria in 2004 and was updated in 2013. The Bear Creek/Bear Lake Watershed is located in west-central Michigan and lies entirely within Muskegon County. The planning area is 19,058 acres. Land use within the planning area is 44 percent forest, 22 percent urban, 6 percent agricultural, 1 percent wetland, and 27 percent other. The watershed's other indigenous aquatic life and wildlife designated use is impaired by the pollutant phosphorus. The plan also addresses issues associated with coldwater fisheries, partial body contact recreation, and total body contact recreation designated uses. Pollutants impacting these uses are nutrients, sediments, toxic substances, thermal pollution, and pathogens.

### EGLE Nonpoint Source Links

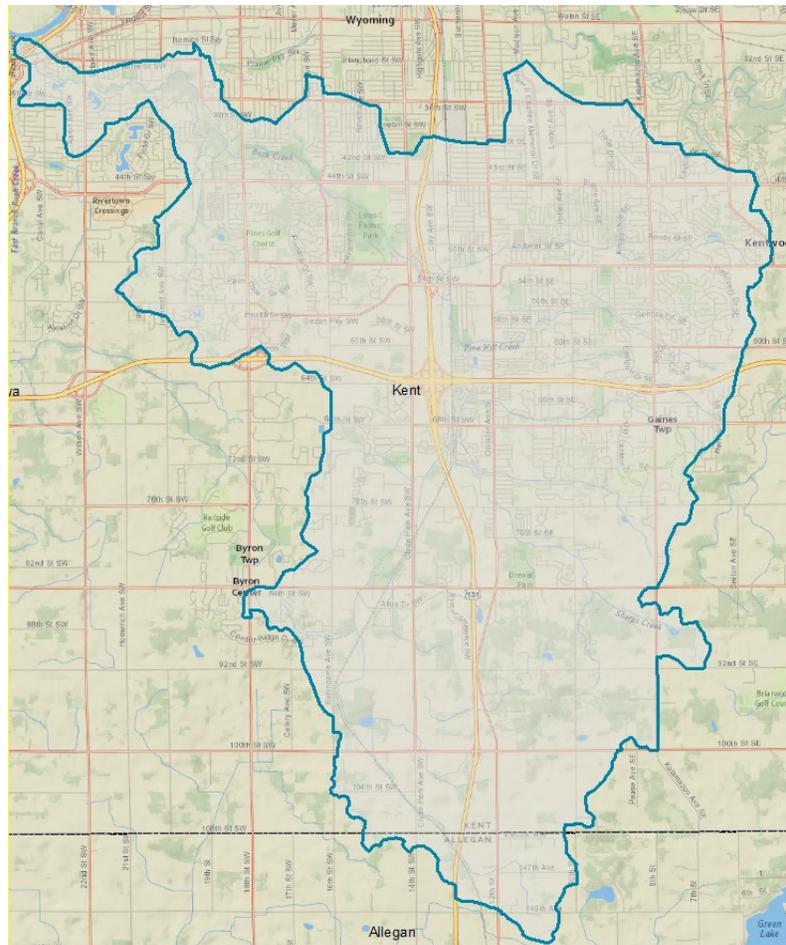
- [Bear Creek & Bear Lake Watershed Management Plan, report with Appendices A and B](#) (6 MB PDF)
- [Bear Creek & Bear Lake Watershed Management Plan, Appendix C, part 1](#) (8 MB PDF)
- [Bear Creek & Bear Lake Watershed Management Plan, Appendix C, part 2](#) (9 MB PDF)
- [Bear Creek & Bear Lake Watershed Management Plan, Appendices D through F](#) (2 MB PDF)

### Watershed Websites

- [Muskegon Conservation District](#)
- [Muskegon River Watershed](#) (a larger watershed management plan encompassing Bear Creek and Bear Lake).

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## BUCK CREEK



The Buck Creek Watershed Management Plan was prepared by Fishbeck, Thompson, Carr & Huber, Inc., for the Grand Valley Metropolitan Council and was approved as meeting CMI criteria in 2003 and 319 criteria in 2007. The Buck Creek planning area is located in portions of Kent and Allegan Counties. Buck Creek is approximately 32,640 acres in size. Land use within the planning area is 2 percent agricultural, 23 percent urbanized, 74 percent residential, and 1 percent open space/water. Designated uses addressed within the planning area include warmwater fisheries, coldwater fisheries, indigenous aquatic life and other wildlife habitats, partial body contact recreation, and total body contact recreation. Pollutants of concern in the planning area include pathogens (*E. coli*), sediment, nutrients, and trash and debris.

### EGLE Nonpoint Source Links

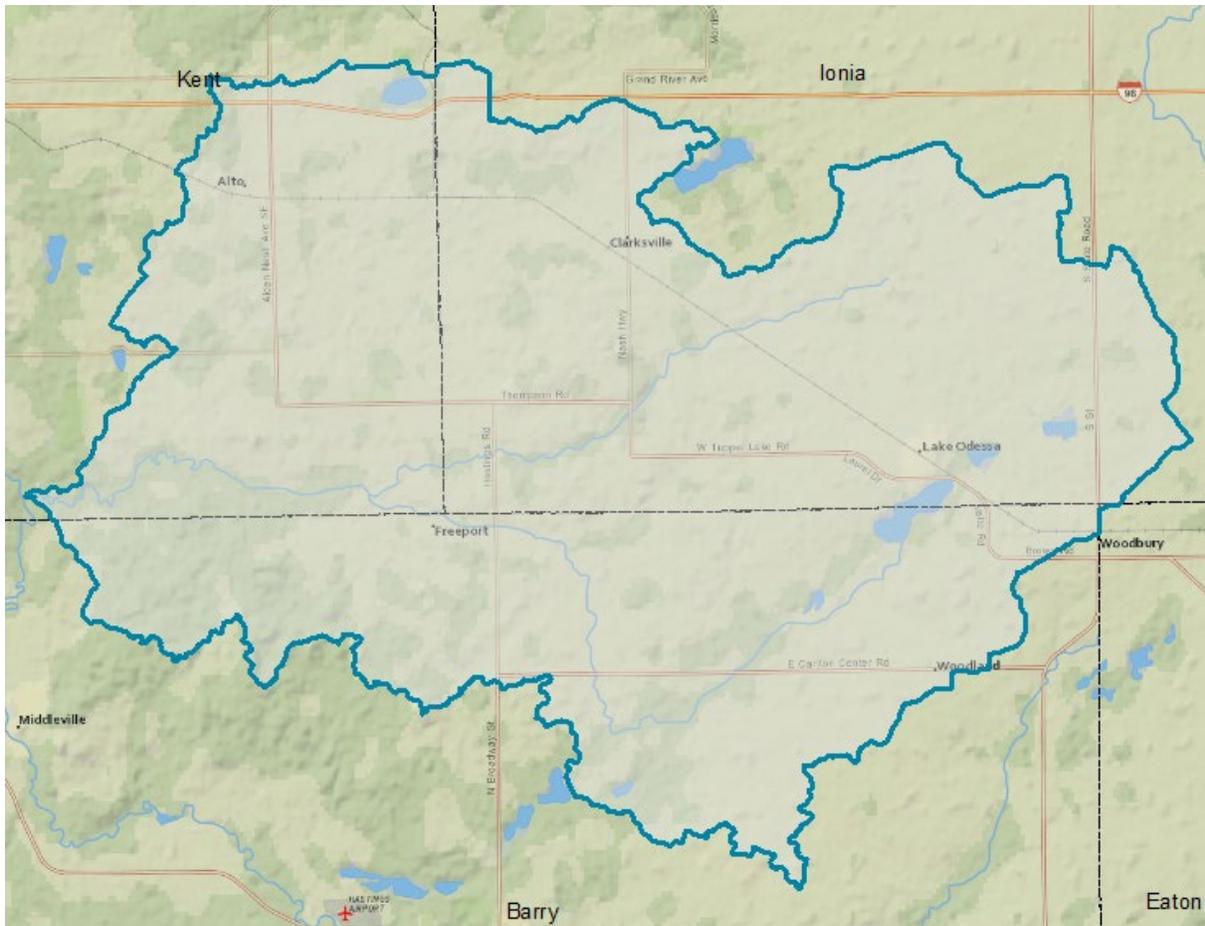
- [Buck Creek Watershed Management Plan](#)

### Watershed Websites

- [Grand Valley Metropolitan Council](#)
- [Lower Grand River Watershed](#) (a larger watershed management plan encompassing Buck Creek)

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## COLDWATER RIVER (LOWER GRAND)



The Coldwater River Watershed Management Plan was prepared by Fishbeck, Thompson, Carr & Huber, Inc., for the Grand Valley Metropolitan Council and was approved as meeting CMI criteria in 2003 and 319 criteria in 2009. The Coldwater River planning area is located in portions of Ionia, Kent, and Barry Counties and covers approximately 120,737 acres. Land cover within the planning area is 70.6 percent agricultural, 17.8 percent forested, 2.6 percent urban, and 9 percent wetland. Designated uses addressed within the planning area include partial and total body contact recreation, cold- and warmwater fisheries, and other indigenous aquatic life and wildlife. Pollutants of concern include bacteria (*E. coli* and fecal coliform), sediment, nutrients, and thermal pollution.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Coldwater River Watershed Council](#)
- [Lower Grand River Watershed](#) (a larger watershed management plan encompassing Coldwater River)

## DUCK CREEK



The Duck Creek Watershed Management Plan was developed by the Duck Creek Watershed Assembly and was approved as meeting both CMI and 319 criteria in 2013. The Duck Creek Watershed is 13,952 acres in size and is located entirely within Muskegon County. The dominant land cover within the planning area is 71 percent forest and 17 percent developed. All designated uses are being met within the planning area. Pollutants of concern in the Duck Creek Watershed are sediment, temperature, nutrients, invasive species, and *E. coli*.

### EGLE Nonpoint Source Links

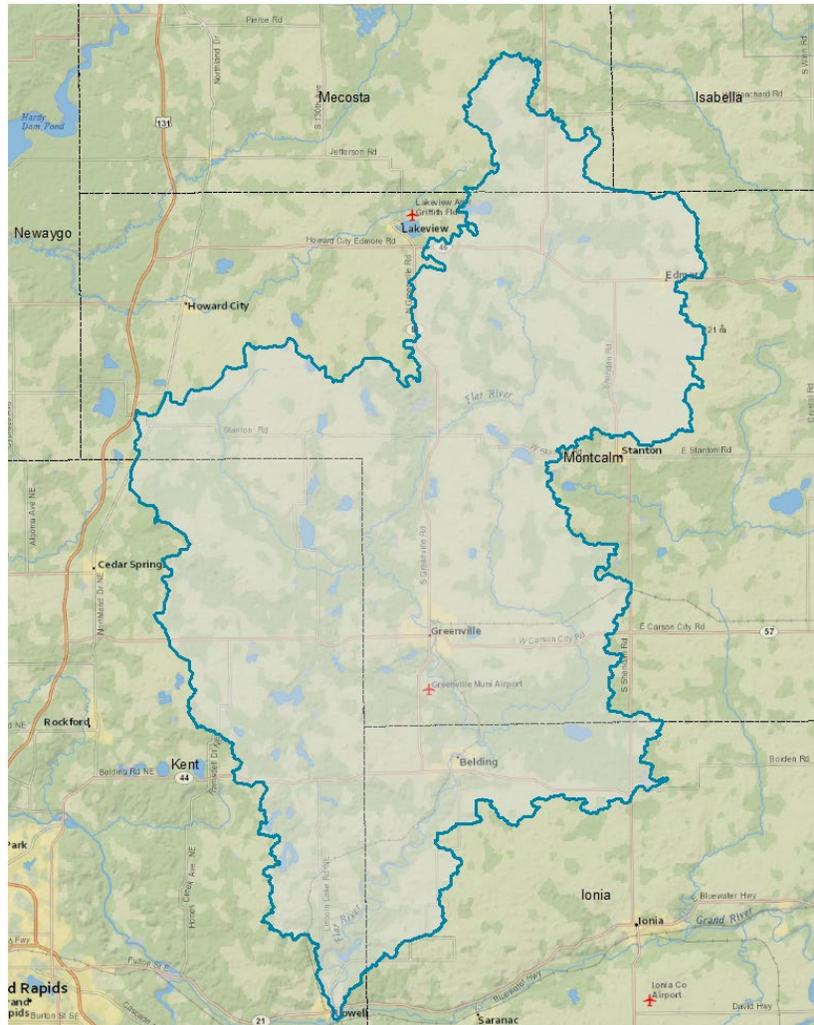
- [Duck Creek Watershed Management Plan](#)

### Watershed Website

- [Duck Creek Watershed Assembly](#)

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## FLAT RIVER



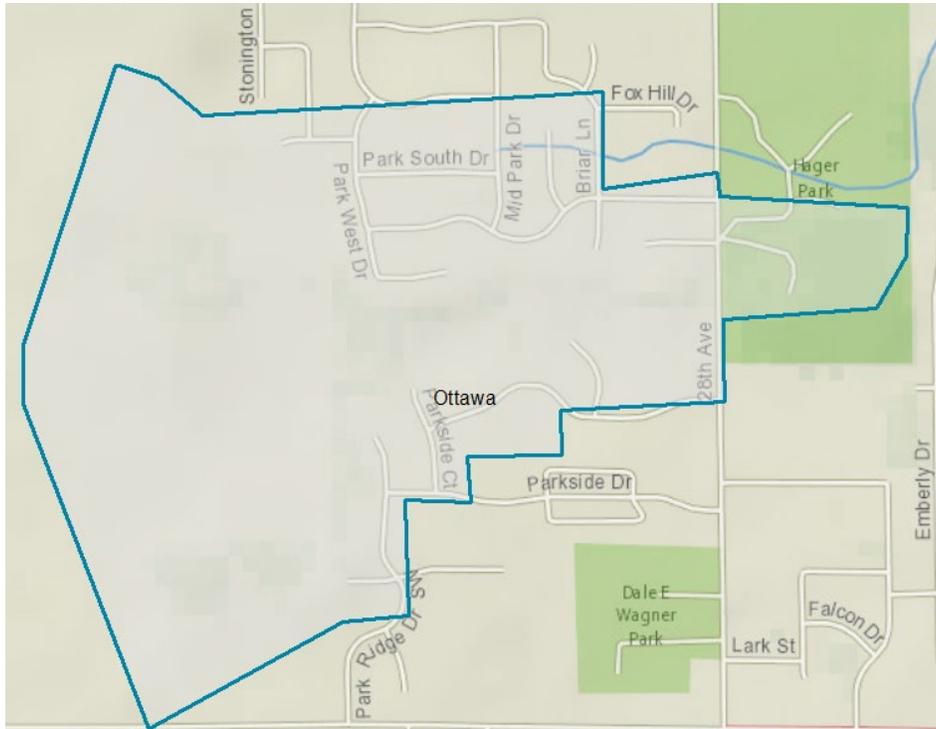
The Flat River Watershed Management plan was developed by Streamside Ecological Services for the Kent Conservation District. The plan was approved in 2017 as meeting CMI and 319 criteria. The Flat River planning area is approximately 360,900 acres in size. The Flat River Watershed is in portions of Montcalm, Kent, Ionia, and Mecosta Counties. Land cover within the planning area is 53 percent agriculture, 23 percent forest, 16 percent wetland, 5 percent urban and 3 percent open water. Impaired designated uses include partial and total body contact recreational. The priority pollutant addressed by the plan is *E. coli*. The plan also addresses sediment, nutrients, and increased water temperature.

### Watershed Website

- [Flat River Management Plan](#)
- [Kent Conservation District](#)
- [Flat River Watershed Council](#)

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## HAGER CREEK



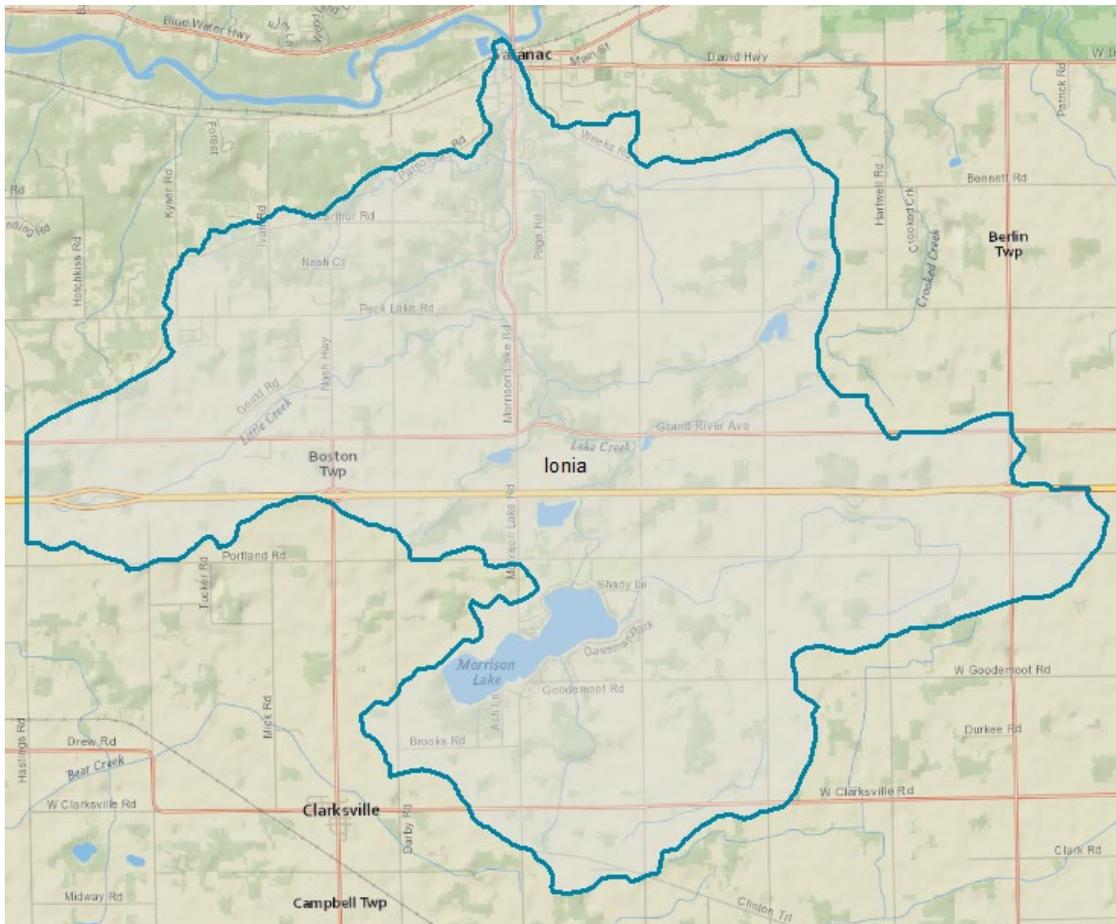
The Hager Creek Watershed Management Plan was approved as meeting CMI criteria in 2000. The Hager Creek Watershed is located in Georgetown Township, Ottawa County, and encompasses 463 acres.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### **Watershed Website**

- [Lower Grand River Watershed](#) (a larger watershed management plan encompassing Hager Creek)

## LAKE CREEK



The Lake Creek Watershed Management Plan was developed by the Ionia Conservation District and was approved as meeting CMI and 319 criteria in 2015. The plan covers an area of approximately 18,000 acres in Ionia County. Land cover within the planning area is 69 percent agriculture, 16 percent forested, 6 percent wetland, 4 percent developed, and the remaining land cover identified as other. The Lake Creek watershed includes the Lake Morrison Total Maximum Daily Load. Impaired designated uses include warmwater fisheries and other indigenous aquatic life and wildlife. Pollutants of concern include phosphorus, sediment, pathogens, and chemicals. The plan also identifies unstable hydrology and thermal pollution as impacting water quality.

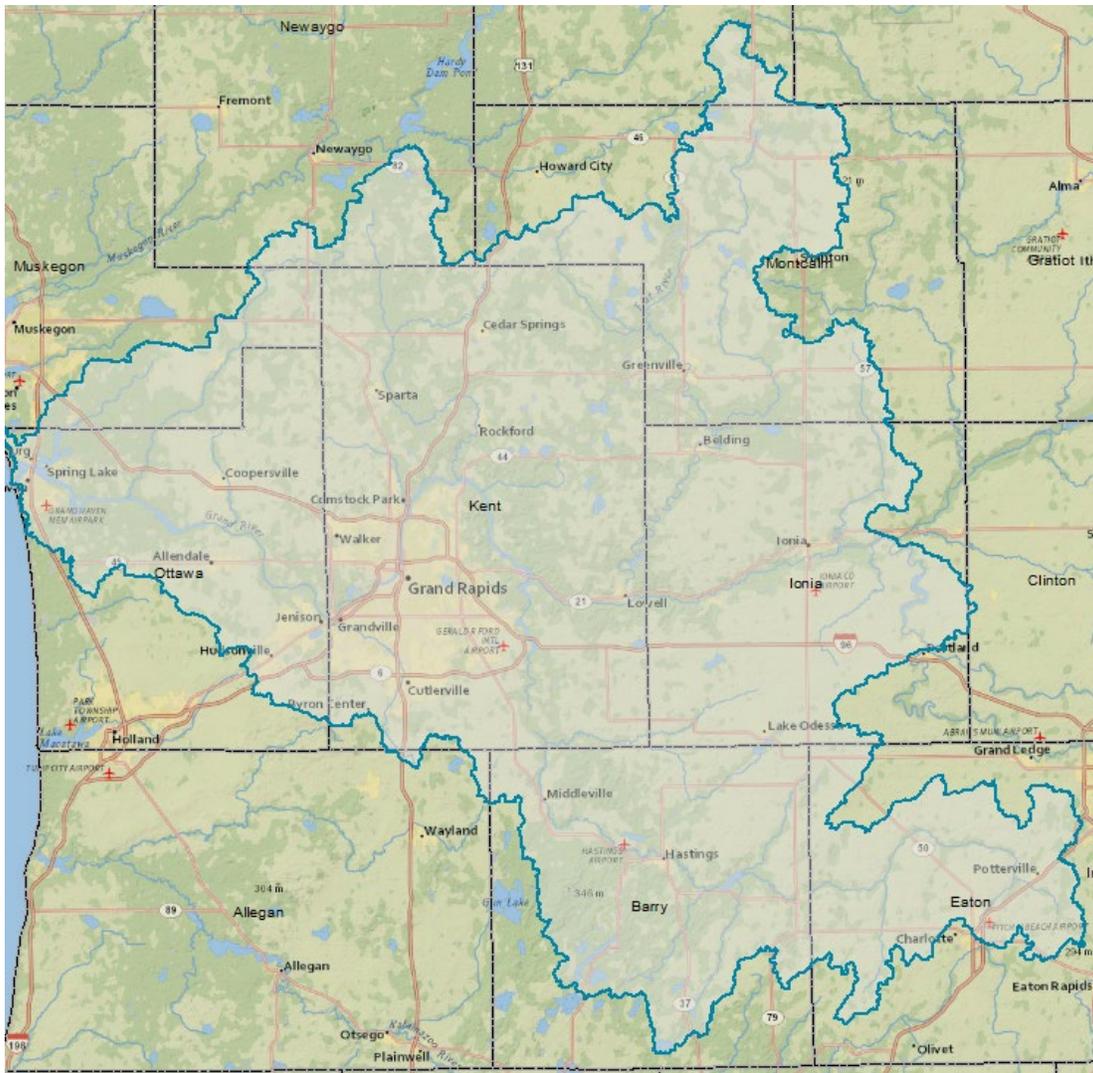
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Ionia Conservation District](#)

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## LOWER GRAND RIVER



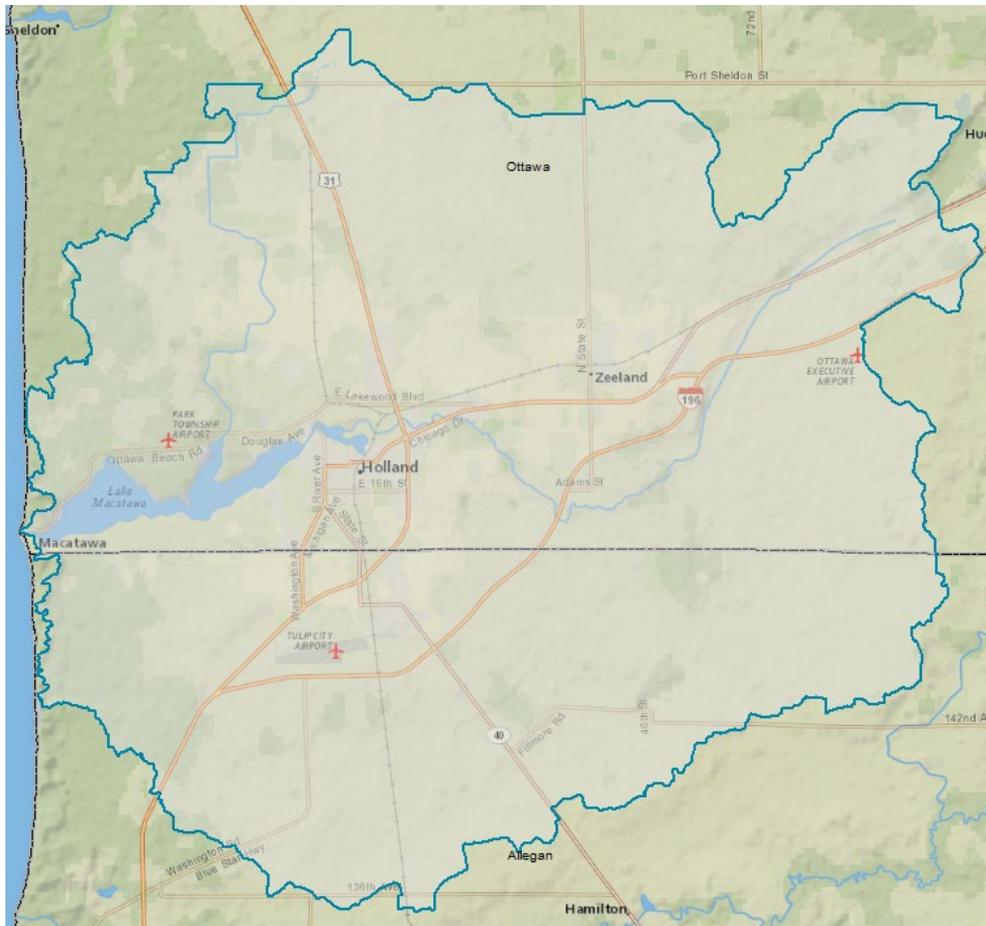
The Lower Grand River Watershed Management Plan was developed by the Lower Grand River Organization of Watersheds and was approved as meeting both CMI and section 319 criteria in 2011. The Lower Grand River Watershed planning area is 1,861,468 acres in size and covers portions of Ottawa, Muskegon, Kent, Allegan, Montcalm, Barry, Eaton, Ionia, Newaygo, and Mecosta Counties. Land cover in the planning area is 51 percent agriculture, 21 percent forest, 12 percent urban, 11 percent wetland, 3 percent open land, and 2 percent water. Impaired designated uses in the watershed include: Total and partial body contact recreation, warmwater fisheries, coldwater fisheries, and indigenous aquatic life and wildlife. Pollutants of concern in the watershed are pathogens (*E. coli*), sediment, and nutrients.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Lower Grand Management Plan](#)
- [Lower Grand River Organization of Watersheds](#)

## MACATAWA



The Macatawa Watershed Management Plan was developed by the Macatawa Area Coordinating Council and was approved as meeting both CMI and section 319 criteria in 2012. The Macatawa River planning area is 112,000 acres in size. The planning area is located in portions of Ottawa and Allegan Counties. Land cover within the planning area is 46 percent agricultural production, 33 percent urban, 14 percent forest, 5 percent open, 0.7 percent water, and 0.5 percent wetland. Impaired designated uses within the planning area include warmwater fisheries, other aquatic life and wildlife, total body contact, partial body contact, and fish consumption. Pollutants of concern in the Macatawa watershed are *E. coli*, phosphorus, and sediment.

### EGLE Nonpoint Source Links

- [Macatawa Watershed Management Plan Updates](#)
- [Macatawa Watershed Management Plan, Cover through Chapter 2 \(7 MB PDF\)](#)
- [Macatawa Watershed Management Plan, Chapters 3 through 6 \(8 MB PDF\)](#)
- To obtain Macatawa Watershed Management Plan appendices, please contact the [NPS Program Watershed Management Plan Coordinator](#).

### Watershed Websites

- [Macatawa Area Coordinating Council](#)

## MONA LAKE



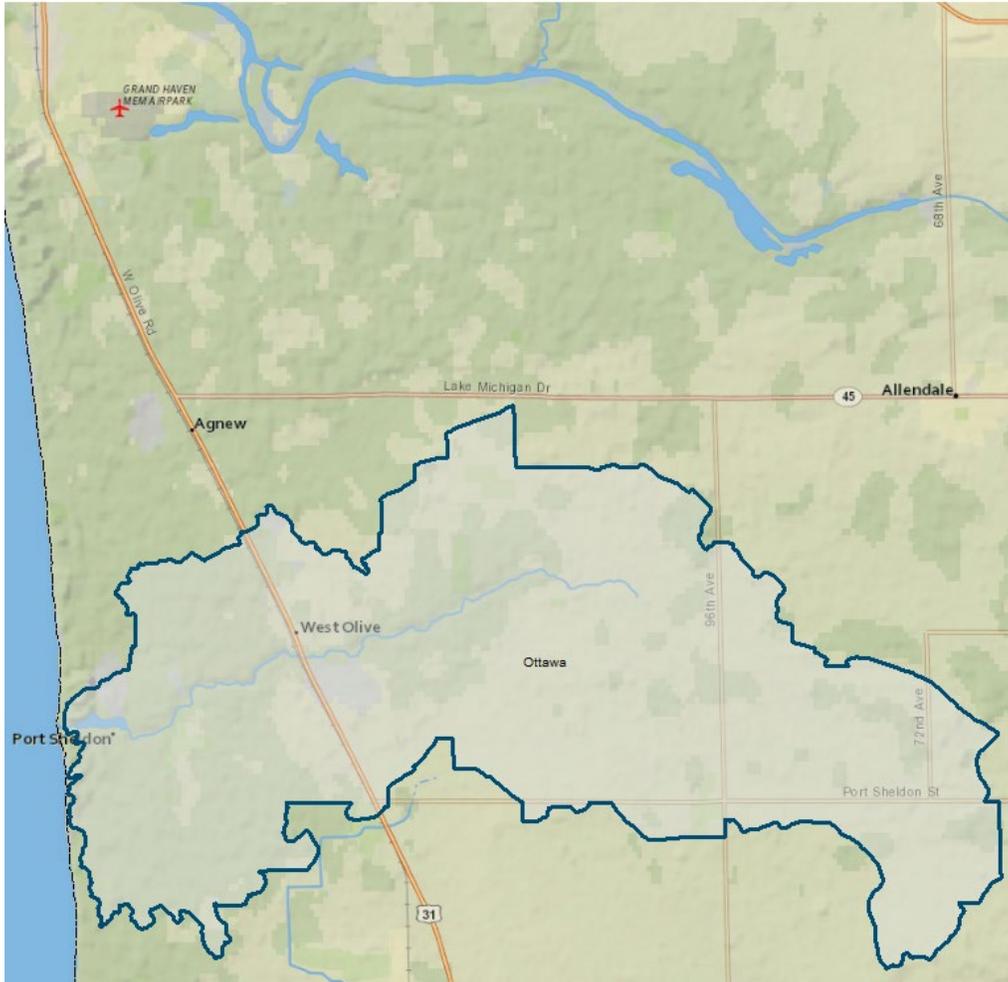
The Mona Lake Watershed Management Plan was developed by the Mona Lake Watershed Council and was approved as meeting both CMI and section 319 criteria in 2009. The Mona Lake Watershed planning area is approximately 45,570 acres in size and is located mostly in Muskegon County with a small portion in Newaygo County. Land cover in the planning area is 34 percent forested, 25 percent residential, 14 percent agricultural, 9 percent open land, 7 percent industrial, 5 percent urban, 2 percent water, and 1 percent wetland. Designated uses addressed within the planning area include partial body contact, total body contact, other indigenous aquatic life and wildlife, coldwater fisheries. Pollutants of concern in the watershed are nutrients and fecal coliform bacteria.

### Watershed Websites

- [Mona Lake Management Plan](#)
- [Mona Lake Watershed Council](#)

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## PIGEON RIVER

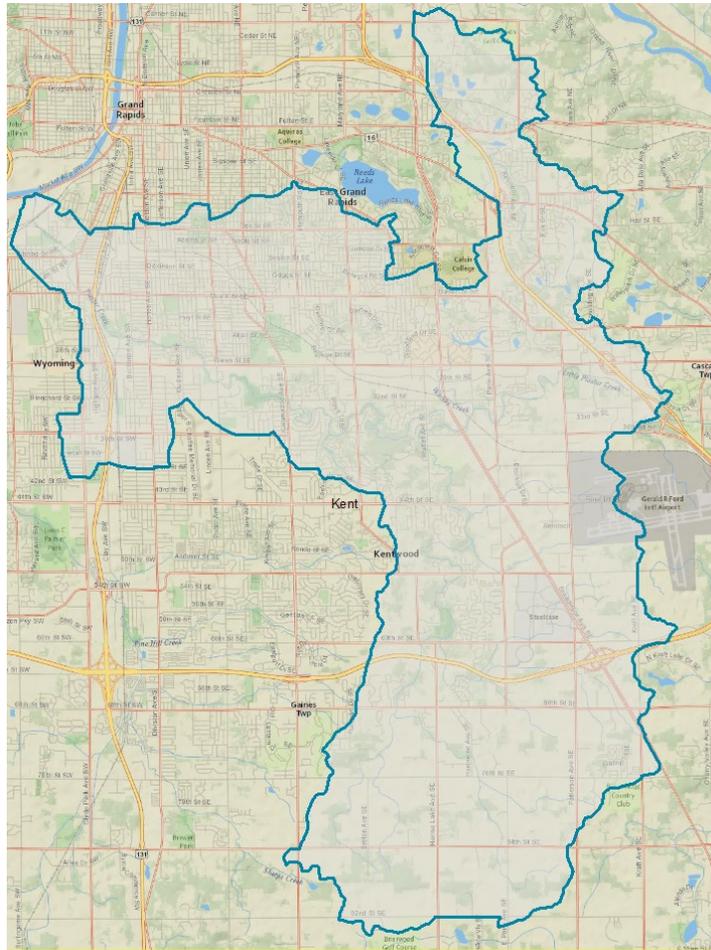


The Comprehensive Nonpoint Source Watershed Management Plan for the Pigeon River Watershed was developed by the Pigeon River Watershed Advisory Committee, the Timberland Resource Conservation and Development, and the Ottawa Soil and Water Conservation District. The plan received CMI approval in 2000. The planning area encompasses 41,395 acres and is located in Ottawa County. Land cover in the watershed is 49 percent agriculture, 36 percent forest, 5 percent urban and residential, 1 percent wetland, and 9 percent unspecified. Degraded designated uses include agriculture and coldwater fisheries. Pollutants of concern within the watershed include sediment, nutrients, and temperature.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

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## PLASTER CREEK



The Plaster Creek Watershed Management Plan was prepared by Fishbeck, Thompson, Carr & Huber, Inc., for the Grand Valley Metropolitan Council and was approved as meeting both CMI and 319 criteria in 2008. The Plaster Creek Watershed planning area is 37,120 acres in size and lies within Kent County. Land cover within the planning area is 38 percent agricultural, 25 percent high-intensity developed, 16 percent forested, 14 percent low-intensity developed, 5 percent open land, 2 percent wetland, and 1 percent water. Designated uses addressed within the planning area include warmwater fisheries, other indigenous aquatic life and wildlife, and total and partial body contact recreation. Pollutants of concern in the watershed include sediment, pathogens, and nutrients.

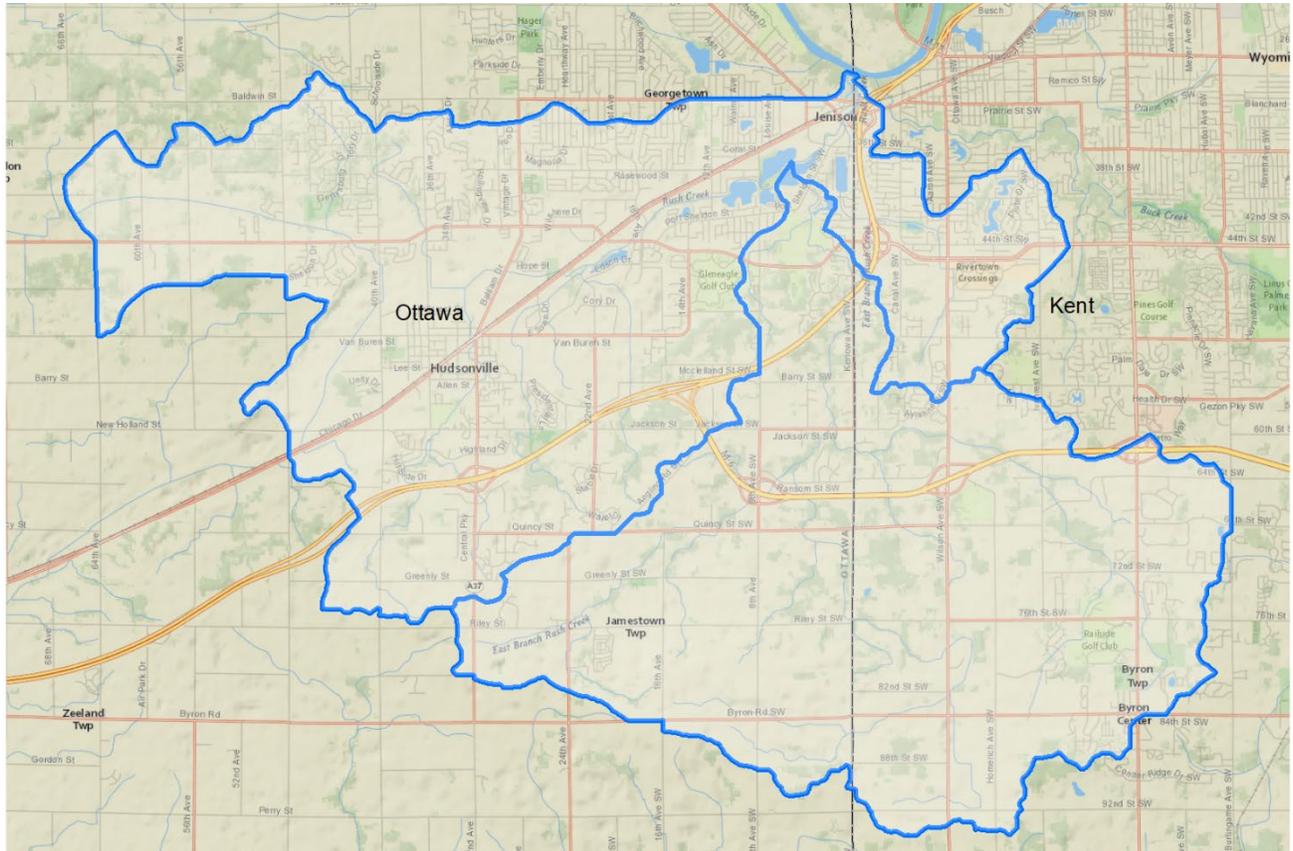
### EGLE Nonpoint Source Links

- [Plaster Creek Watershed Management Plan](#)

### Watershed Websites

- [Grand Valley Metropolitan Council](#)
- [Lower Grand River Watershed](#) (a larger watershed management plan encompassing Plaster Creek)

## RUSH CREEK



The Rush Creek Watershed Management Plan was developed by Streamside Ecology Services Inc. for Jamestown Township and was approved for CMI and 319 criteria in 2018. The planning area is in Ottawa and Kent Counties and is 37,760 acres in size. Land cover within the planning area is 51 percent developed, 35 percent agriculture, 8 percent forest, 3 percent wetlands, 2 percent open water, and 1 percent barren. Designated uses addressed by the plan include total and partial body contact. Pollutants of concern include *E. coli*, altered flow regime, sediment, nutrients, increasing water temperature, herbicides, and pesticides.

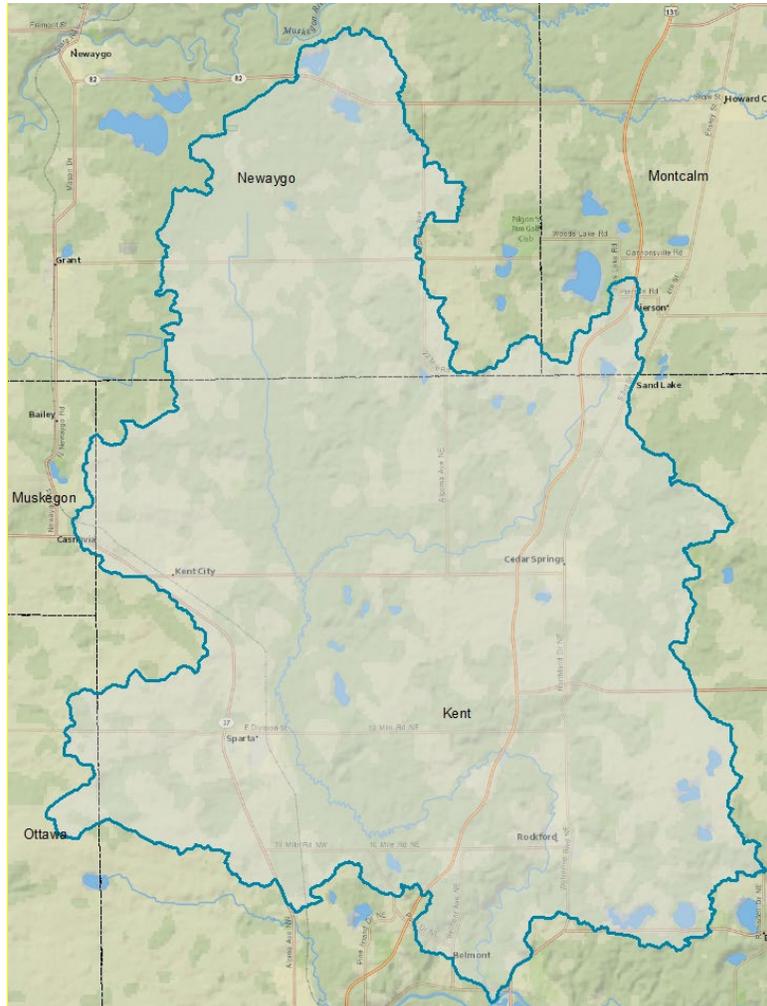
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Jamestown Charter Township](#)

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## ROGUE RIVER



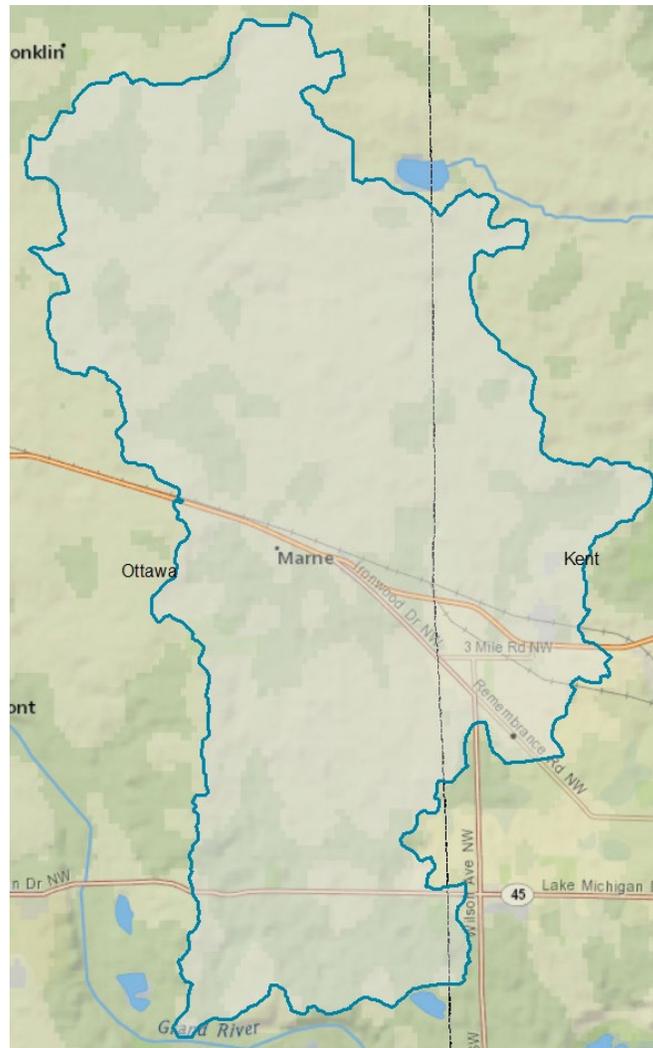
The Rogue River Watershed Management Plan was developed by the Rogue River Watershed Advisory Committee and was approved as meeting both CMI and 319 criteria in 2008. The Rogue River Watershed planning area is 167,625 acres and includes portions of Kent, Montcalm, Muskegon, Newaygo, and Ottawa Counties. Land cover in the planning area is 37 percent agriculture, 30 percent forested, 20 percent open, 5 percent residential, 3 percent wetland, and 2 percent water. Designated uses addressed within the planning area include cold- and warmwater fisheries, and full and partial body contact recreation. Pollutants of concern in the watershed are sediments, nutrients, and pathogens.

### EGLE Nonpoint Source Links

- [Rogue River Watershed Management Plan](#)

### Watershed Websites

- [Cannon Township's Rogue River website](#)
- [Lower Grand River Watershed](#) (a larger watershed management plan encompassing Rogue River)



The Sand Creek Watershed Management Plan was developed by the Grand Valley Metropolitan Council and was approved as meeting CMI criteria in 2004. The Sand Creek Watershed planning area is 35,200 acres in size and covers portions of Kent and Ottawa Counties. Land cover in the planning area is 56 percent agriculture, 17 percent forested, 15 percent open, 10 percent urban, 1 percent wetland, and 1 percent open water. Designated use addressed within the planning area is coldwater fisheries. Pollutants of concern are sediment, nutrients, hydrocarbons, metals, and pathogens.

#### EGLE Nonpoint Source Links

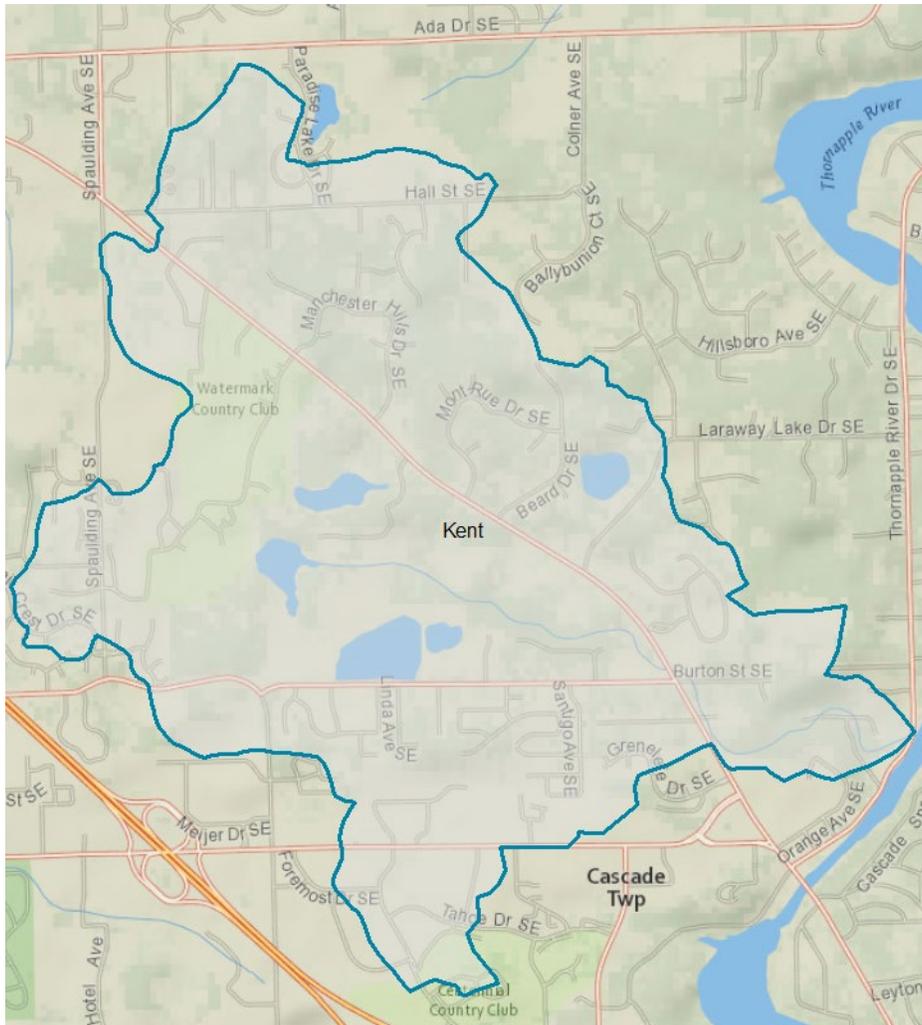
- [Sand Creek Watershed Management Plan](#) (1 MB PDF)
- [Sand Creek Watershed Management Plan Appendices](#) (4 MB PDF)

#### Watershed Websites

- [Grand Valley Metropolitan Council](#)
- [Lower Grand River Watershed](#) (a larger watershed management plan encompassing Sand Creek)

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## SCHOOLHOUSE CREEK



The Schoolhouse Creek Watershed Plan is approved as meeting CMI criteria in 1999. The Schoolhouse Creek Watershed is located in mid-western Michigan in Kent County. The planning area is 2,334 acres in size.

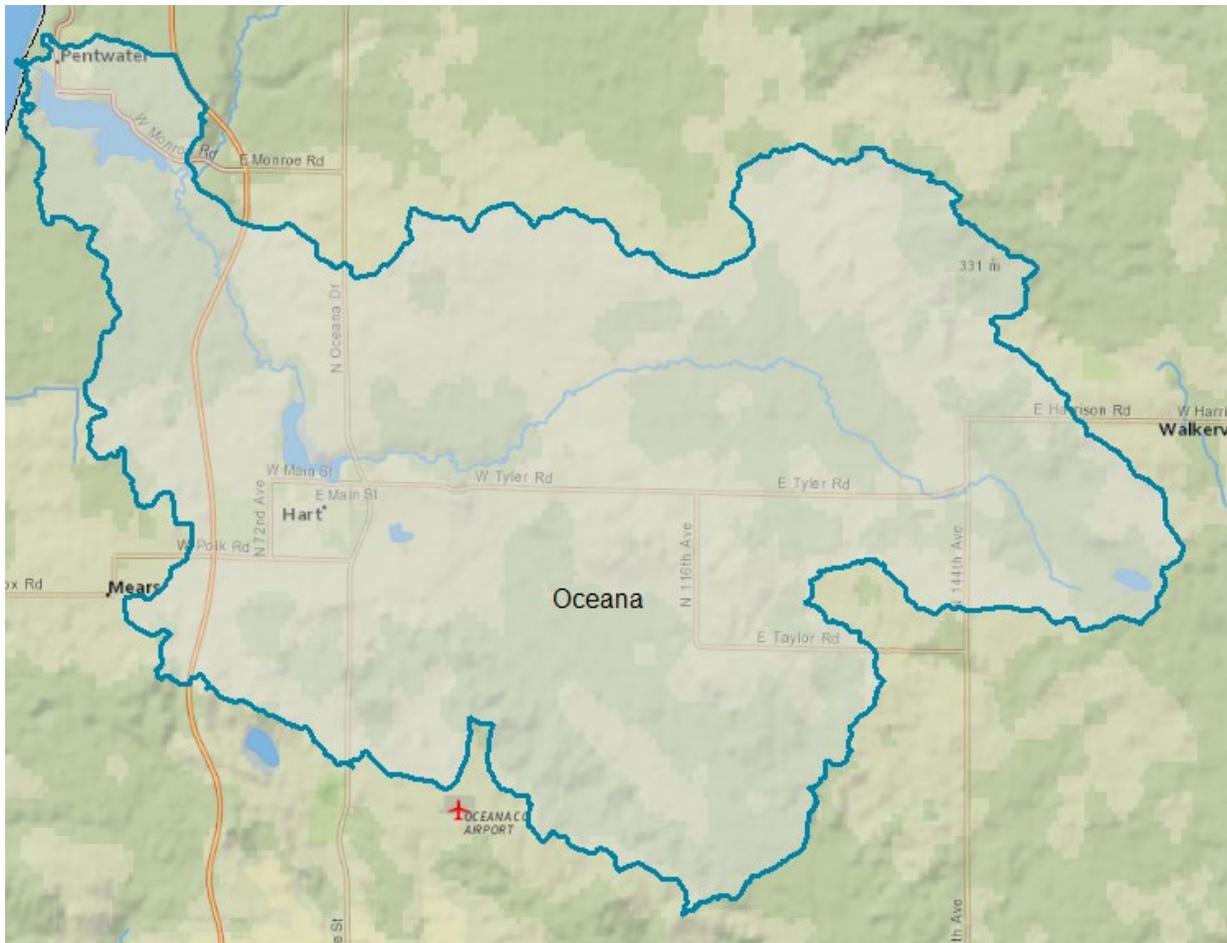
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### **Watershed Websites**

- [Lower Grand River Watershed](#) (a larger watershed management plan encompassing Schoolhouse Creek)

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## SOUTH BRANCH PENTWATER RIVER

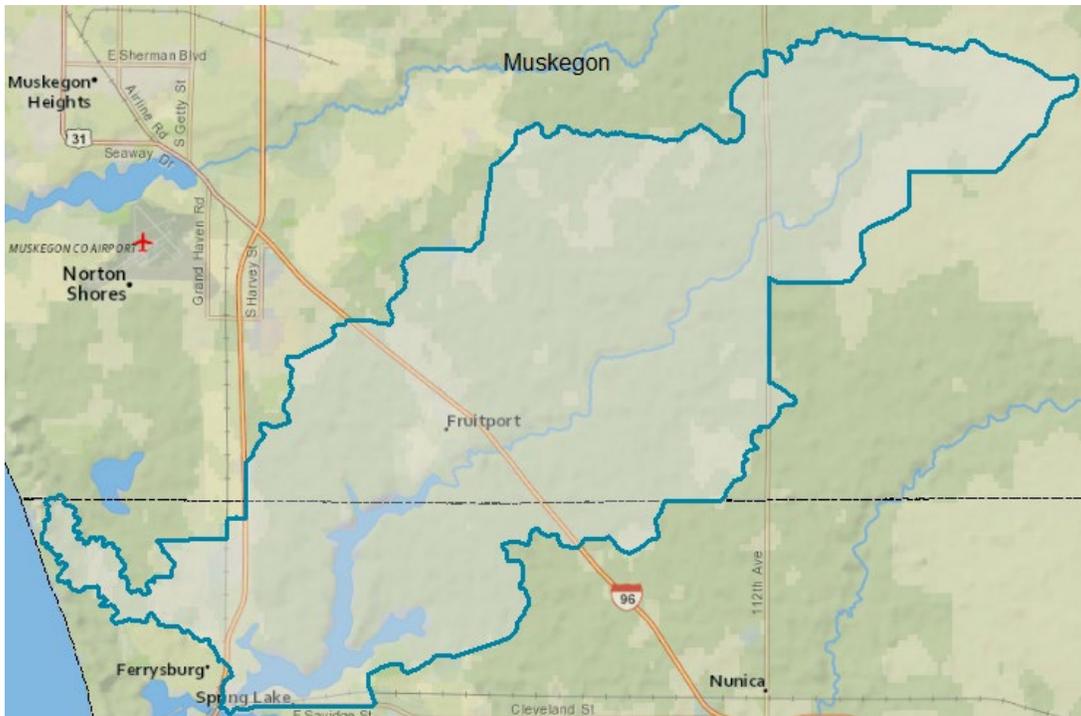


The South Branch of the Pentwater River Watershed Plan was approved as meeting CMI criteria in 2000. The planning area is approximately 57,000 acres in size and is located in Oceana County. Land cover within the planning area is 48 percent agricultural, 31 percent forest land, 14 percent open land, 4 percent urban, 2 percent wetland, and 2 percent water.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

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## SPRING LAKE



The Spring Lake Watershed Management Plan was developed by the Spring Lake-Lake Board and was approved as meeting CMI criteria in 2001. The Spring Lake watershed planning area is approximately 32,000 acres in size and covers portions of Muskegon and Ottawa Counties. Land cover in the planning area is 44 percent forested, 15 percent residential, 15 percent agricultural, 13 percent open field, 6 percent wetland, 4 percent commercial, and 3 percent orchards. Designated uses addressed within the planning area include navigation, warmwater fisheries, other indigenous aquatic life and wildlife, partial body contact recreation and total body contact recreation. Pollutants of concern in the watershed are sediment, nutrients, pathogens, oil, grease, and heavy metals.

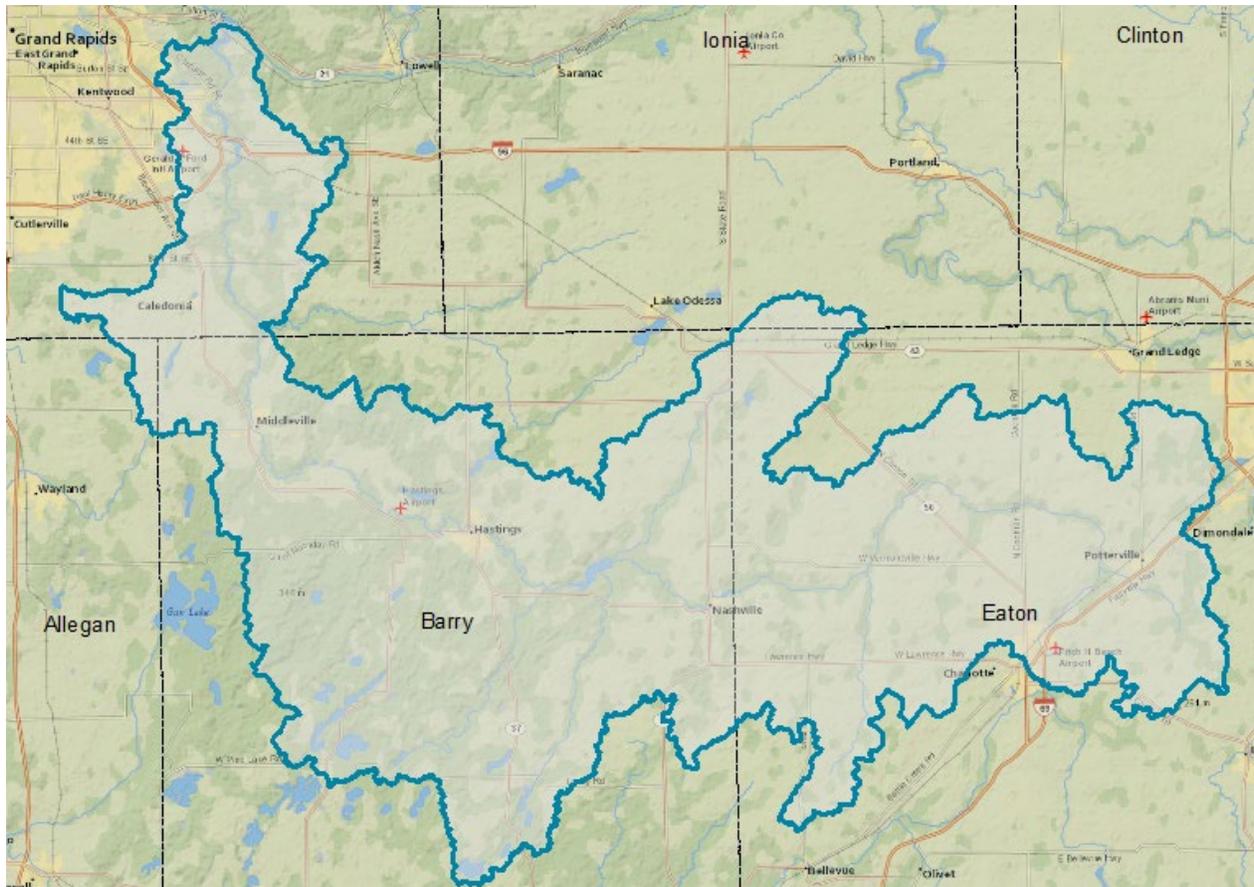
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### **Watershed Websites**

- [Lower Grand River Watershed](#) (a larger watershed management plan encompassing Spring Lake)

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## THORNAPPLE RIVER

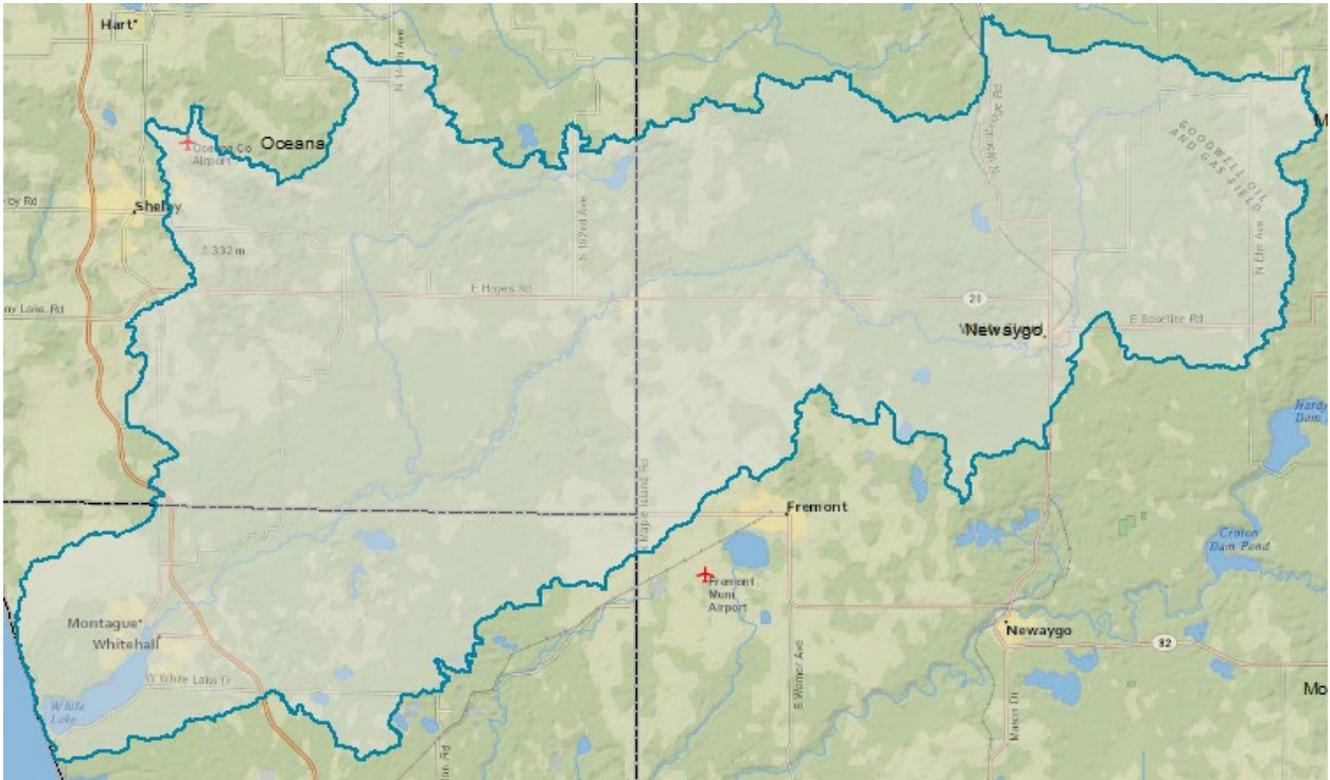


The Thornapple River Watershed Management Plan was developed by the Barry Conservation District and was approved as meeting both CMI and 319 criteria in 2015. The Thornapple River planning area is 422,545 acres in size and excludes the Coldwater River Watershed. The planning area is located in portions of Barry, Eaton, Kent, Ionia, and Allegan Counties. Land cover within the planning area is 52 percent agricultural production, 26 percent forested, 13 percent other non-production vegetation, 3 percent paved road or airport, 2 percent low to high density urban, 1 percent water, and 1 percent wetland. Designated uses addressed within the planning area include other indigenous aquatic life and wildlife, and warmwater fisheries. The Thornapple River Watershed Management Plan addresses the sources of sediment and nutrients.

### Watershed Websites

- [Thornapple River Management Plan](#)
- [Barry Conservation District](#)

## WHITE RIVER



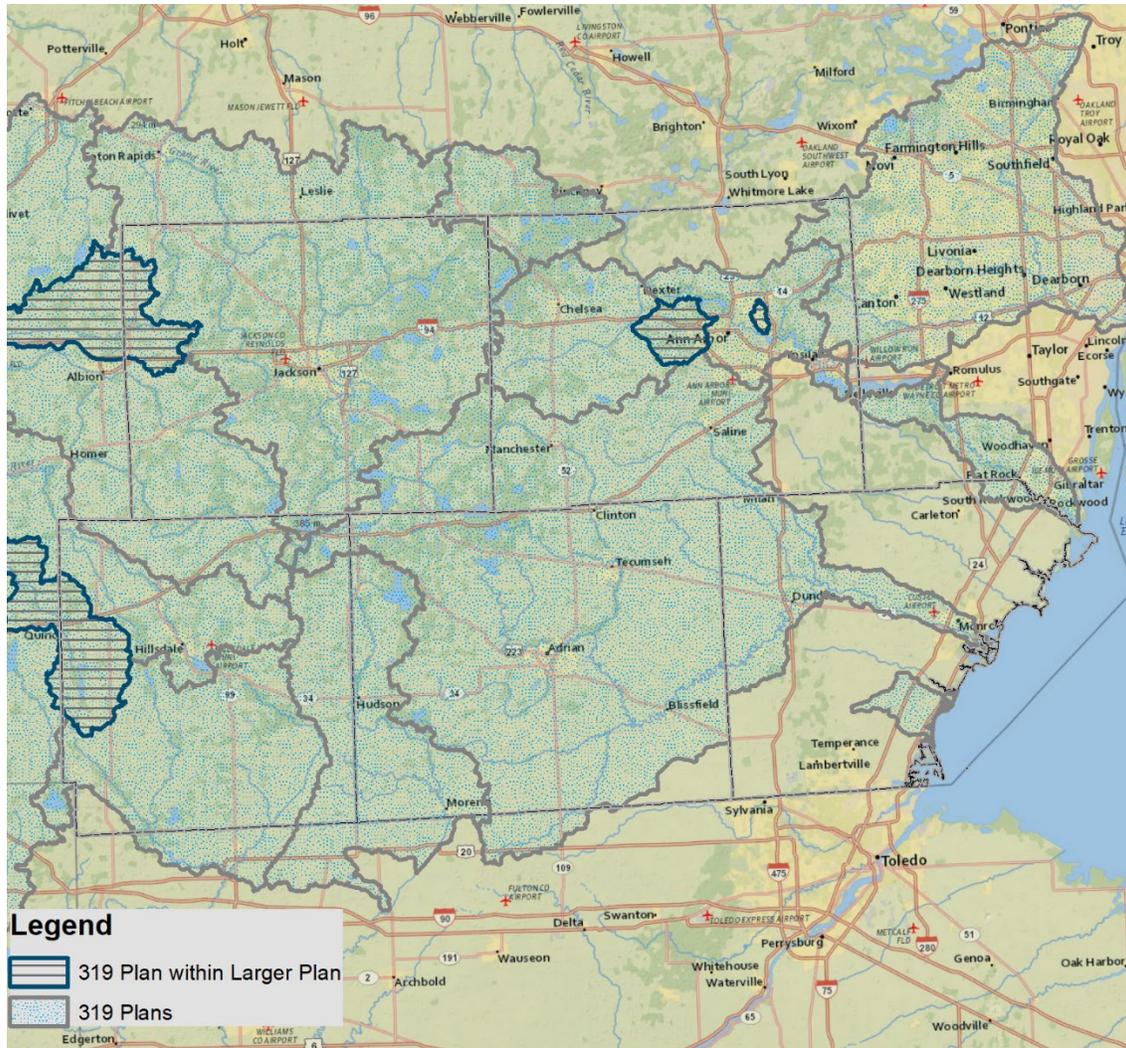
The White River Watershed Management plan was developed by the Annis Water Resources Institute and was approved as meeting both CMI and section 319 criteria in 2009. The White River Watershed Planning area is 344,166 acres in size and covers portions of Newaygo, Oceana, and Muskegon Counties. Land cover in the planning area is 58 percent forested, 20 percent agricultural, 11 percent open field, 3 percent residential, 1 percent commercial. Designated uses addressed within the planning area include cold- and warmwater fisheries, and other indigenous aquatic life and wildlife. Pollutants of concern in the watershed include sediment, nutrients, and temperature.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

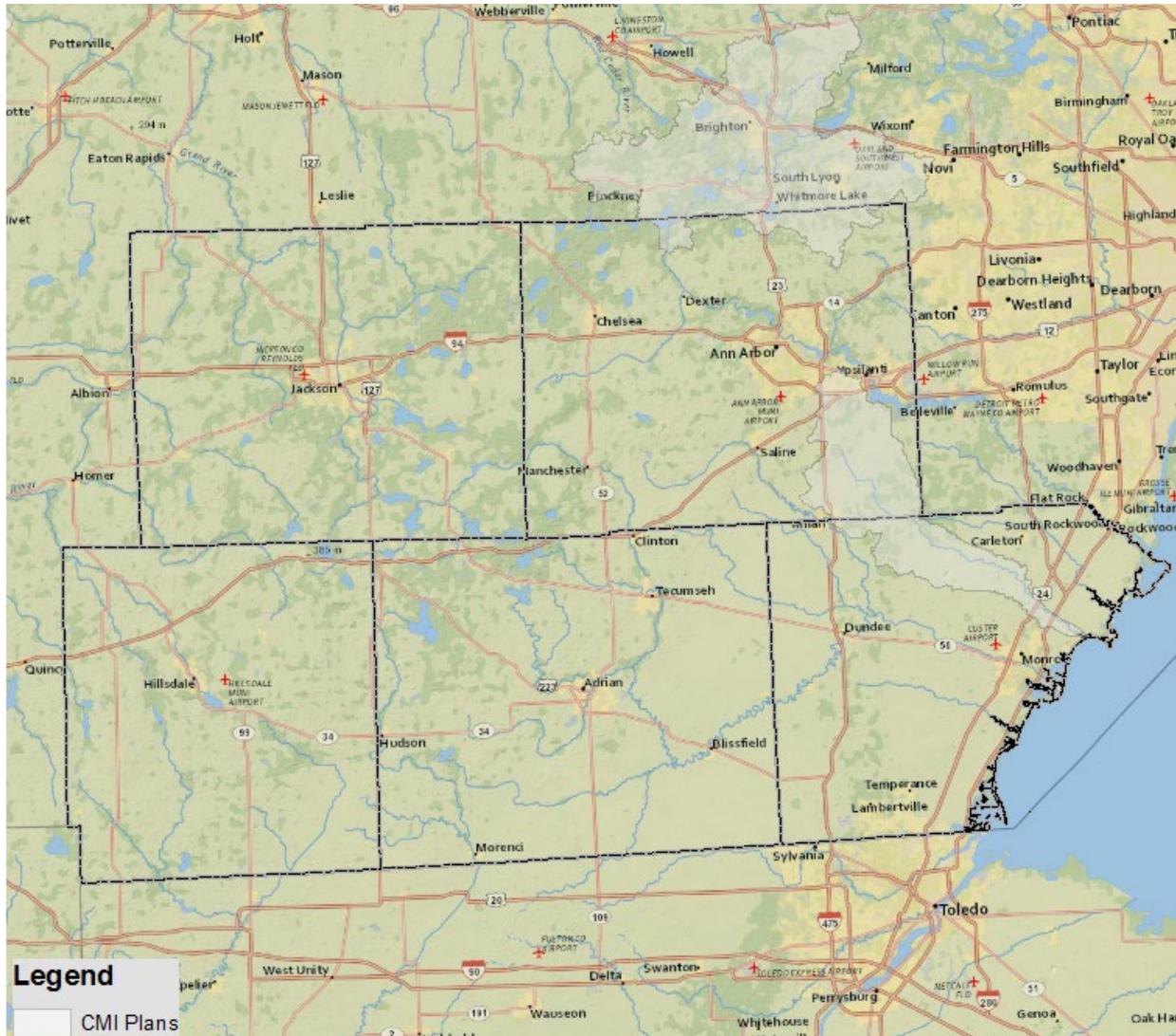
- [Annis Water Resources Institute](#)

# JACKSON DISTRICT 319 WATERSHEDS



<b>CMI and 319 approved</b>
Bean Creek
Hog Creek
Honey Creek
Huron River--Ann Arbor-Ypsilanti
LaPointe Drain
Mill Creek Watershed (Huron River)
Millers Creek
Portage Creek (Huron River)
River Raisin
Upper Grand River
St. Joe River

# JACKSON DISTRICT CMI WATERSHEDS

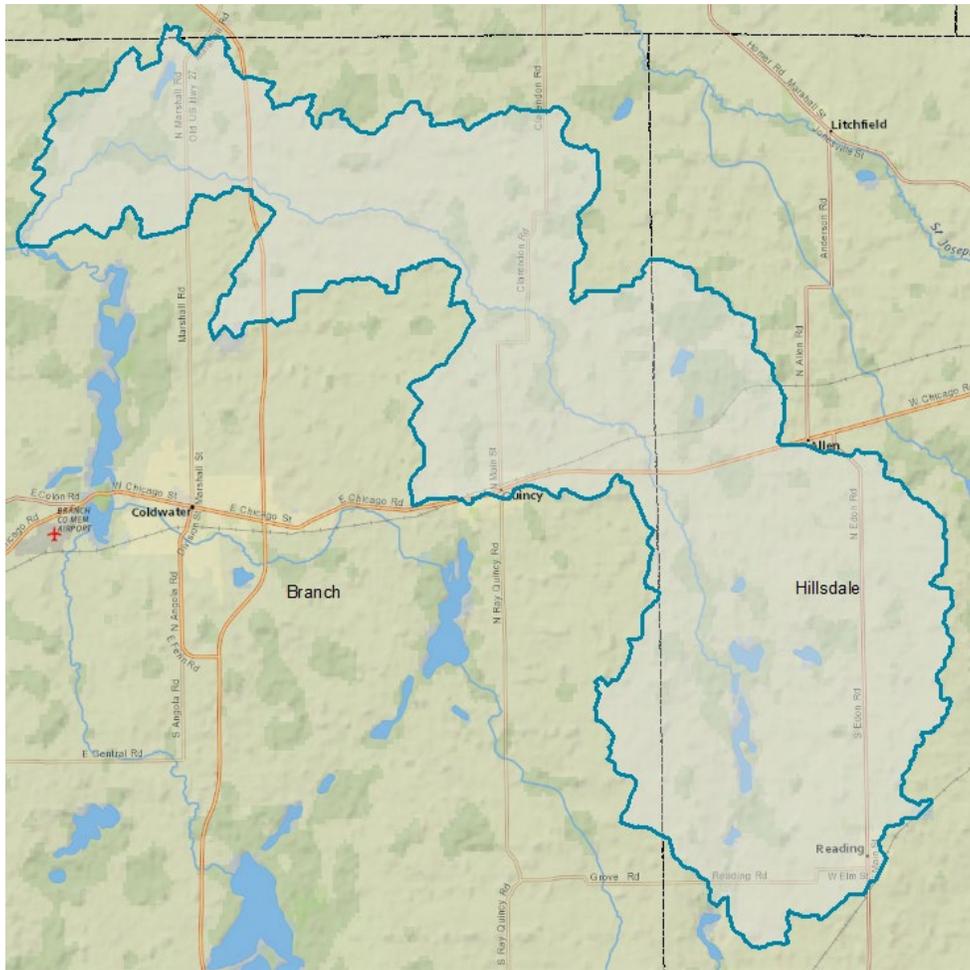


<b>CMI approved</b>
Huron Chain of Lakes
Stony Creek (Monroe and Washtenaw Counties)



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## HOG CREEK



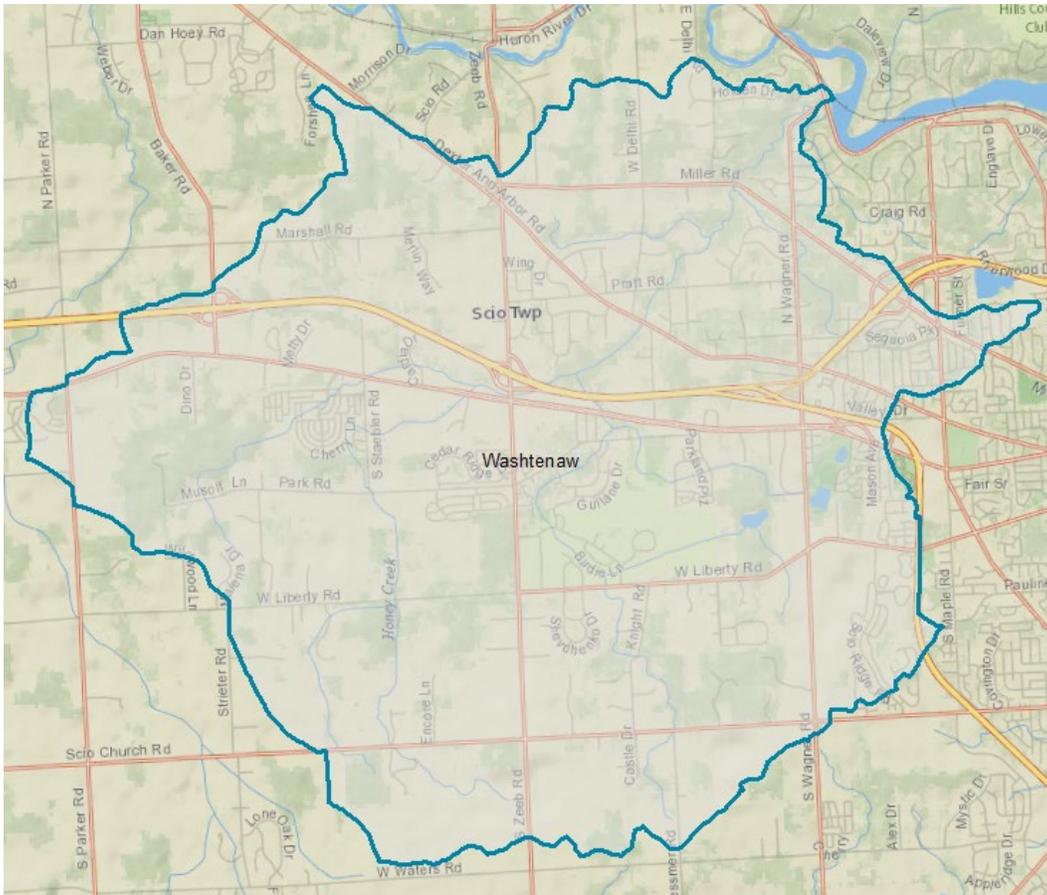
The Hog Creek Watershed Project was developed by the Hillsdale Conservation District and was approved as meeting CMI and 319 criteria in 2005. The Hog Creek planning area is 68,928 acres in size. The planning area is located in portions of Hillsdale and Branch Counties. Land cover within the planning area is 73 percent agriculture, 16 percent forested, 4 percent open fields, 4 percent water or wetland, and 3 percent urban. None of the designated uses are known to be impaired. The Hog Creek Watershed Management Plan addresses the sources of sediment and pathogens.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Hillsdale Conservation District](#)
- [St. Joe River Watershed](#) (a larger watershed management plan encompassing Hog Creek)

## HONEY CREEK



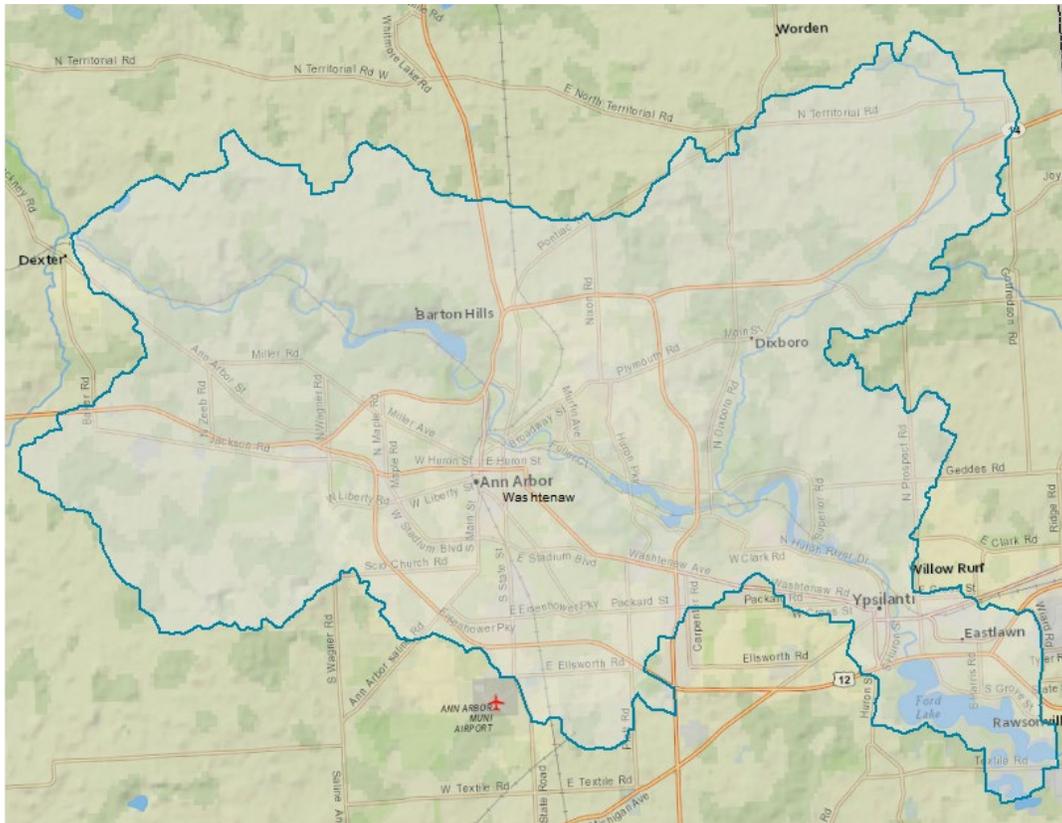
The Bacteria Reduction Implementation Plan for the Honey Creek Watershed was developed by the Huron River Watershed Council and was approved as meeting both the CMI criteria and the 319 criteria in 2014. The Honey Creek planning area is in Washtenaw County and is 14,485 acres in size. Land cover within the planning area is 31 percent agricultural, 27 percent residential, 17 percent open/recreational, 9 percent industrial and commercial, 9 percent forested, and 8 percent water and wetland. Designated uses not being met in the Honey Creek Watershed are partial body contact and total body contact recreation. Pollutants of concern in the planning area include bacteria, nutrients (phosphorus and nitrogen), pharmaceutical agents, and industrial solvents.

### Watershed Websites

- [Honey Creek Management Plan](#)
- [Huron River Watershed Council](#)

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## HURON RIVER-ANN ARBOR-YPSILANTI

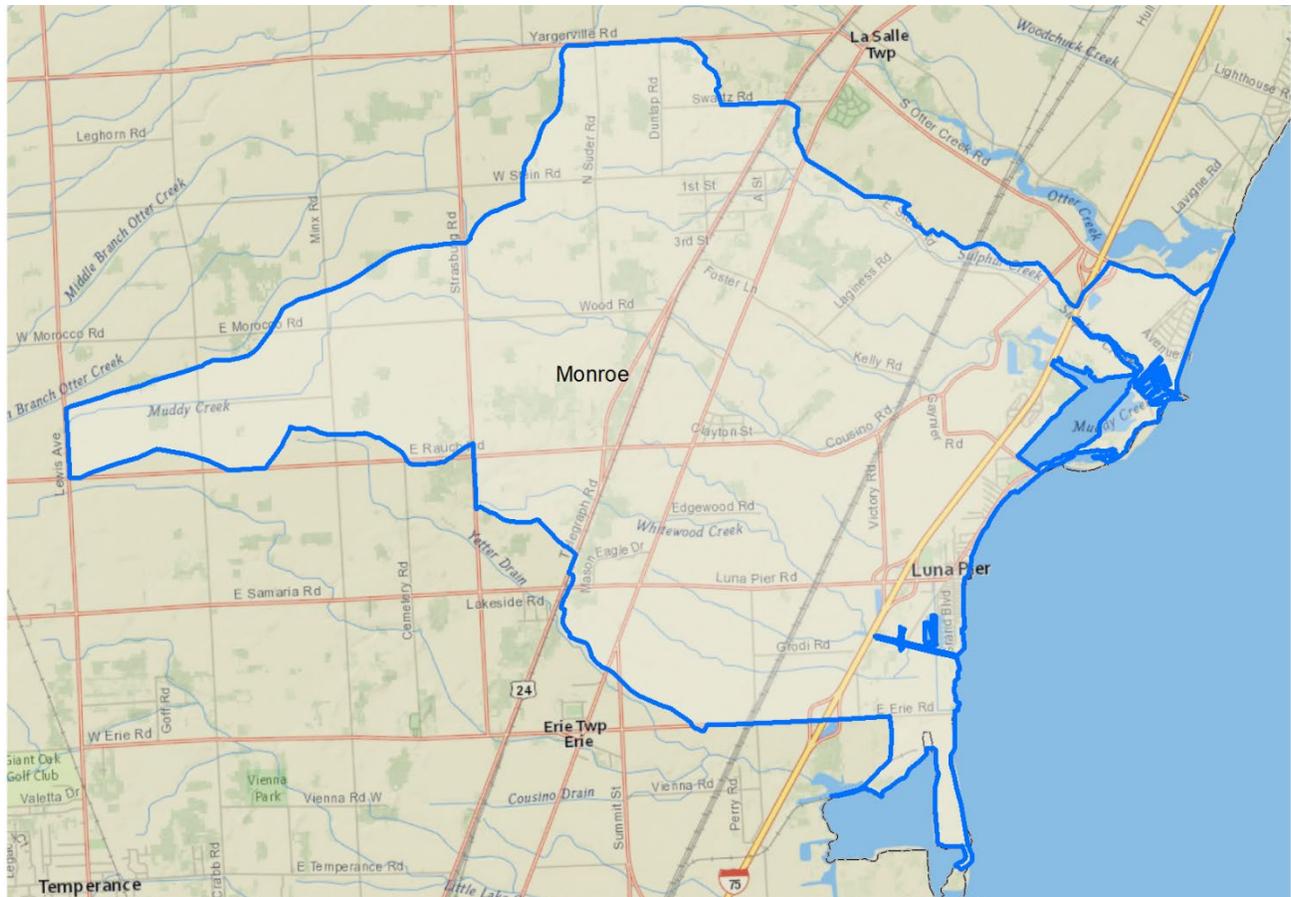


The Watershed Management Plan for the Huron River in the Ann Arbor-Ypsilanti Metropolitan Area was prepared by Huron River Watershed Council for the Washtenaw County Drain Office. The plan was approved as meeting CMI criteria in 2000 and 319 criteria in 2008. The Huron River planning area encompasses approximately 576,000 acres of Ingham, Jackson, Livingston, Monroe, Oakland, Washtenaw, and Wayne Counties. Land cover within the planning area is 29.5 percent residential, 27.1 percent forested, 20.9 percent rural, 12.8 percent commercial/industrial, 4.2 percent water, 3.0 percent active construction, and 2.7 percent roadways. Designated uses not being met within the planning area include warmwater fisheries, public water supply intake, other indigenous aquatic life and wildlife, and partial and total body contact recreation. Pollutants of concern in the Middle Huron Watershed are nutrients, altered hydrology, sediment, pathogens, salts, organic compounds, heavy metals, high water temperature, debris/litter, pharmaceuticals, and endocrine disruptors.

### Watershed Websites

- [Huron River Ann Arbor-Ypsilanti Management Plan](#)
- [Huron River Watershed Council](#)

## LAPOINTE DRAIN



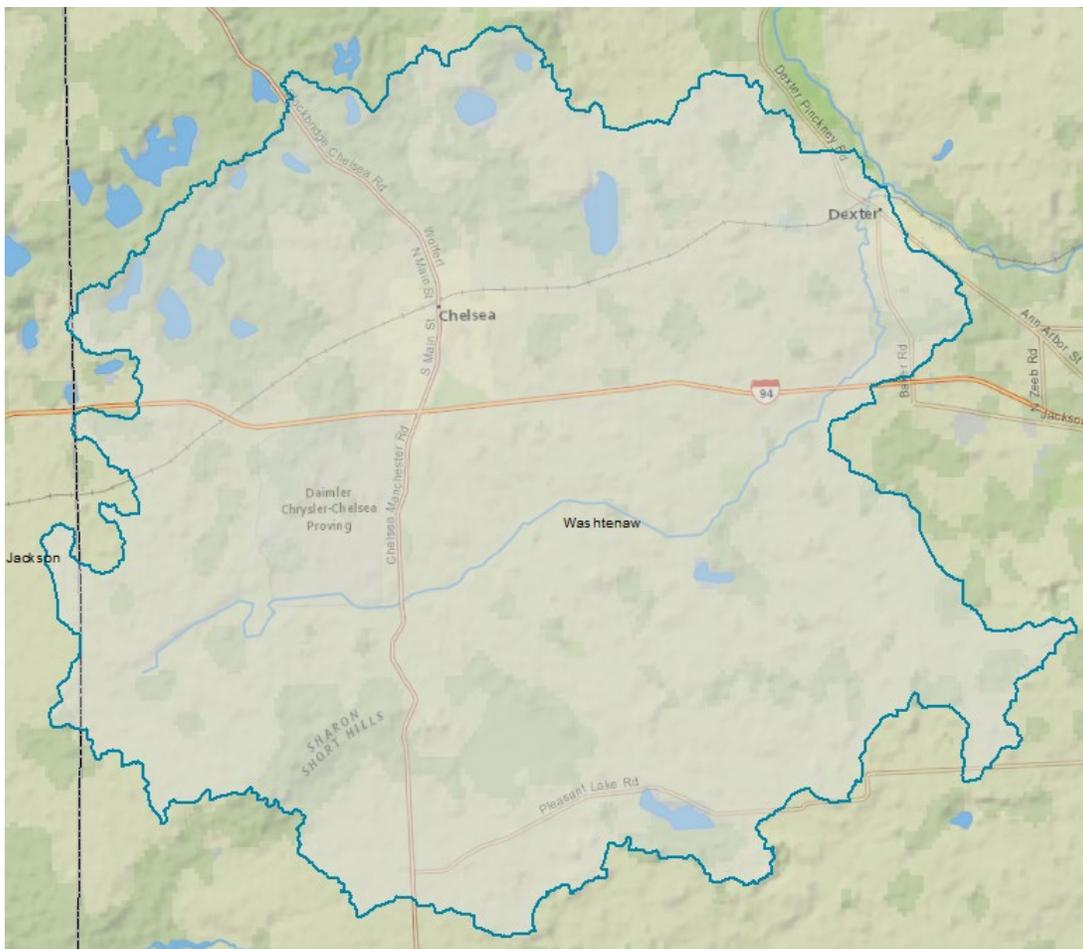
The LaPointe Drain Watershed Management Plan was developed by Stantec for the River Raisin Institute and approved as meeting CMI and 319 criteria in 2017. The S.S La Pointe Drain planning area is located within Monroe County and encompasses 12,824 acres. Dominant land cover within the planning area is 64 percent cropland, 14 percent pasture, 13 percent urban, and 7 percent forested. Designated uses addressed within the planning area include total and partial body contact, warmwater fisheries, and other indigenous aquatic life and wildlife. Pollutants addressed by the plan include total phosphorus, sediment, temperature, and *E. coli*.

### Watershed Websites

- [LaPointe Drain Watershed Management Plan](#)
- [River Raisin Institute](#)

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## MILL CREEK WATERSHED (HURON RIVER)

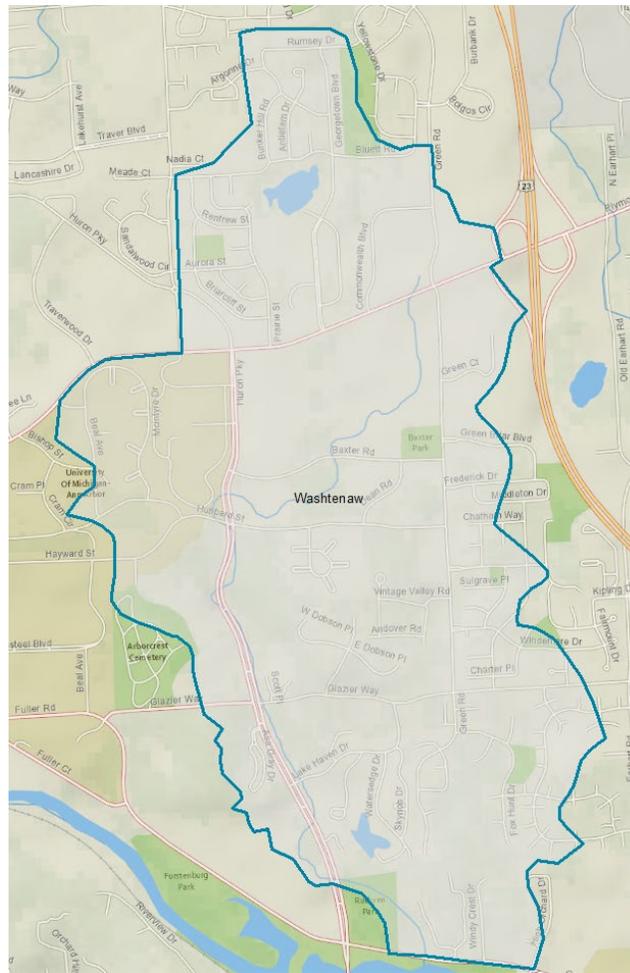


The Mill Creek Subwatershed Management Plan was prepared by the Mill Creek Subwatershed Stakeholder Advisory Group and was approved as meeting both CMI and 319 criteria in 2005. The Mill Creek planning area is located in Washtenaw County and small portion of Jackson County. The planning area is 92,600 acres in size. Land cover within the planning area is 40 percent agricultural, 17 percent wetland, 16 percent woodland, 14 percent developed, 9 percent open, 3 percent water, and 1 percent recreation. Designated uses addressed within the planning area include warmwater fisheries and other indigenous aquatic life and wildlife. Pollutants of concern within the Mill Creek Subwatershed include altered hydrology, sediments, nutrients, oil, grease, metals, and brine/salt.

### Watershed Websites

- [Mill Creek Management Plan](#)
- [Huron River Watershed Council](#)

## MILLERS CREEK



The Millers Creek Watershed Improvement Plan was prepared by Ayres, Lewis, Norris & May, Inc., the Huron River Watershed Council, and Tilton and Associates, Inc. The Plan received both CMI and 319 approvals in 2005. The planning area is located within Washtenaw County and comprises 1,531 acres. Land cover within the watershed is 23.6 percent institutional, 19.3 percent commercial and industrial, 16.3 percent medium intensity residential, 14.6 percent intensity residential, 13.5 percent roads, 6.1 percent high-intensity residential, 3.5 percent recreational, 3 percent unknown, and 0.2 percent utilities. No impaired designated uses are listed within Millers Creek. Pollutants addressed by the plan include flashy flows, phosphorus, and *E. coli*.

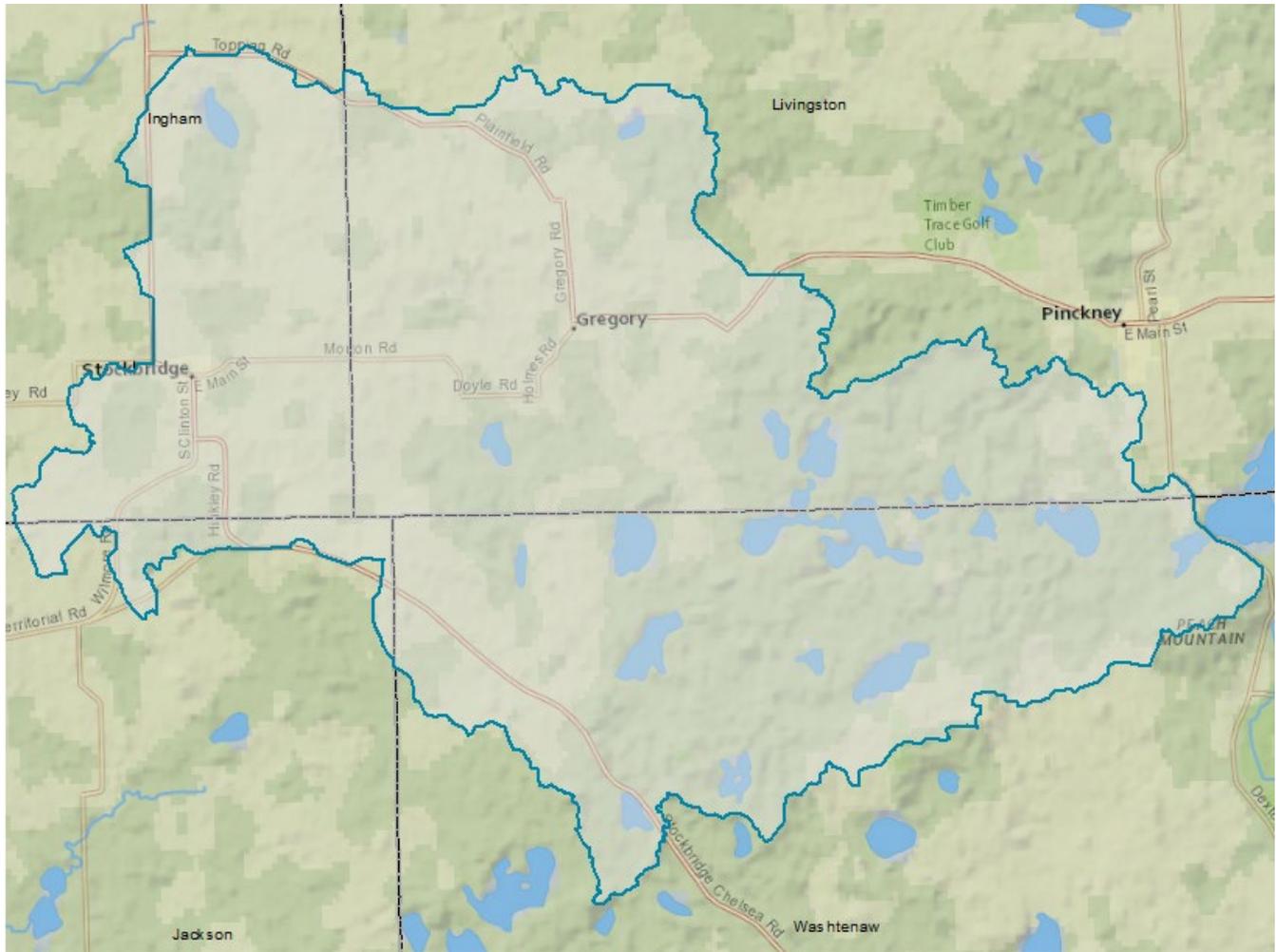
### EGLE Nonpoint Source Links

- [Millers Creek Watershed Management Plan, Part 1](#) (7 MB PDF), appendices not available
- [Millers Creek Watershed Management Plan, Part 2](#) (6 MB PDF), appendices not available

### Watershed Websites

- [Huron River Watershed Council](#)

## PORTAGE CREEK (HURON RIVER)

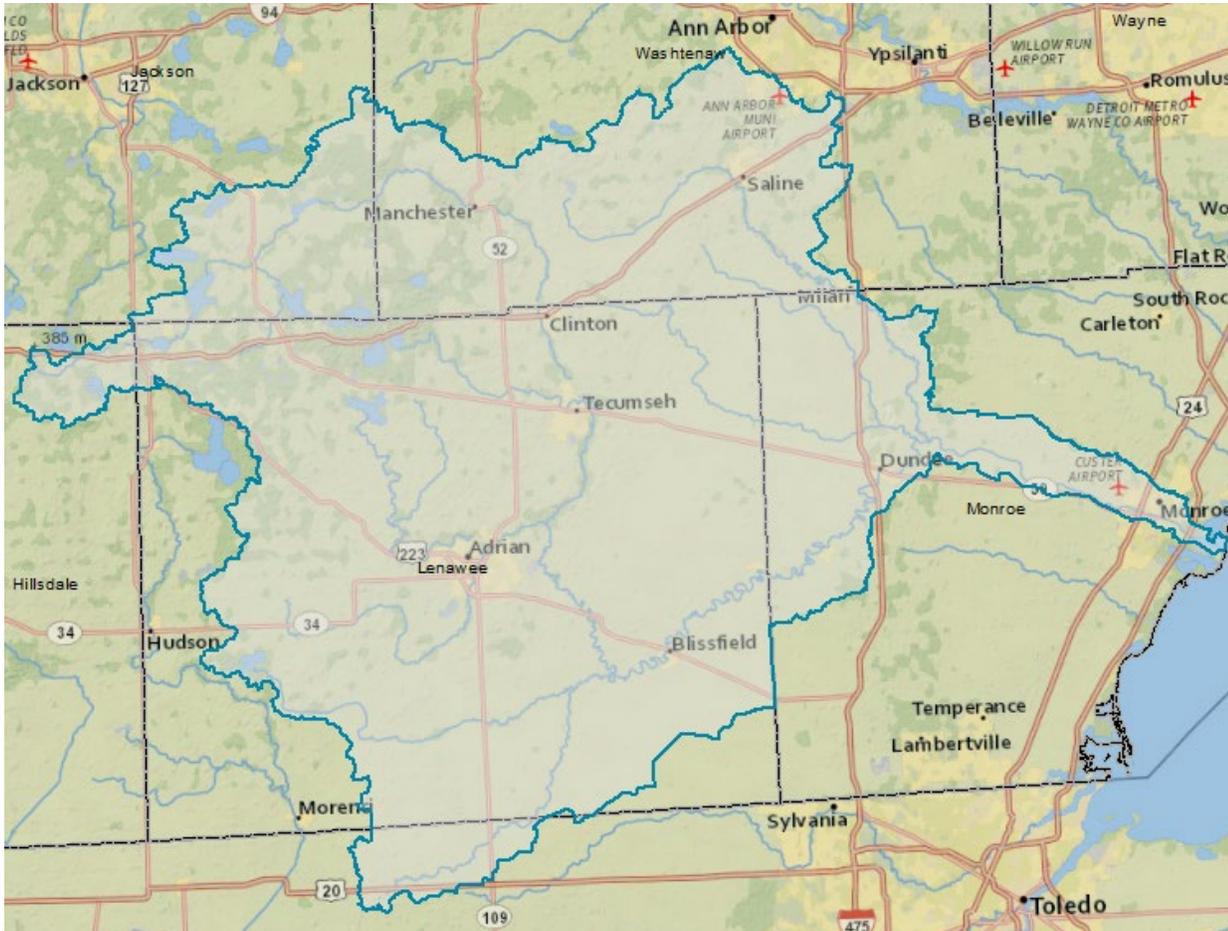


The Portage Creek Watershed Management Plan was developed by the Huron River Watershed Council and was approved as meeting both CMI and section 319 criteria in 2010. The Portage Creek Watershed planning area covers 56,960 acres in Ingham, Jackson, Livingston, and Washtenaw Counties. Land cover in the planning area is 35 percent agricultural, 21 percent wetland, 16 percent forested, 13 percent grassland, 10 percent residential, and 5 percent water. There are no impaired designated uses in the Portage Creek watershed planning area. Pollutants of concern are phosphorus, sediment, altered hydrology, pathogens, salt, organic compounds, and heavy metals.

### Watershed Websites

- [Portage Creek Management Plan](#)
- [Huron River Watershed Council](#)

## RIVER RAISIN



The River Raisin Watershed Management Plan was developed by the River Raisin Watershed Council and was approved as meeting both CMI and section 319 criteria in 2009. The River Raisin Watershed planning area is 677,800 acres in size and covers nearly all of Lenawee County as well as parts of Jackson, Hillsdale, Washtenaw, and Monroe Counties in Michigan, and part of Fulton County, Ohio. Land cover in the planning area is 75 percent agricultural production, 10 percent forested, 6 percent residential, 5 percent open land, 1 percent wetland, and 1 percent open water. Designated uses addressed within the plan include public water supply, total and partial body contact recreation, and other indigenous aquatic life and wildlife. Pollutants of concern in the watershed include nitrogen and *E. coli*, among others.

### EGLE Nonpoint Source Links

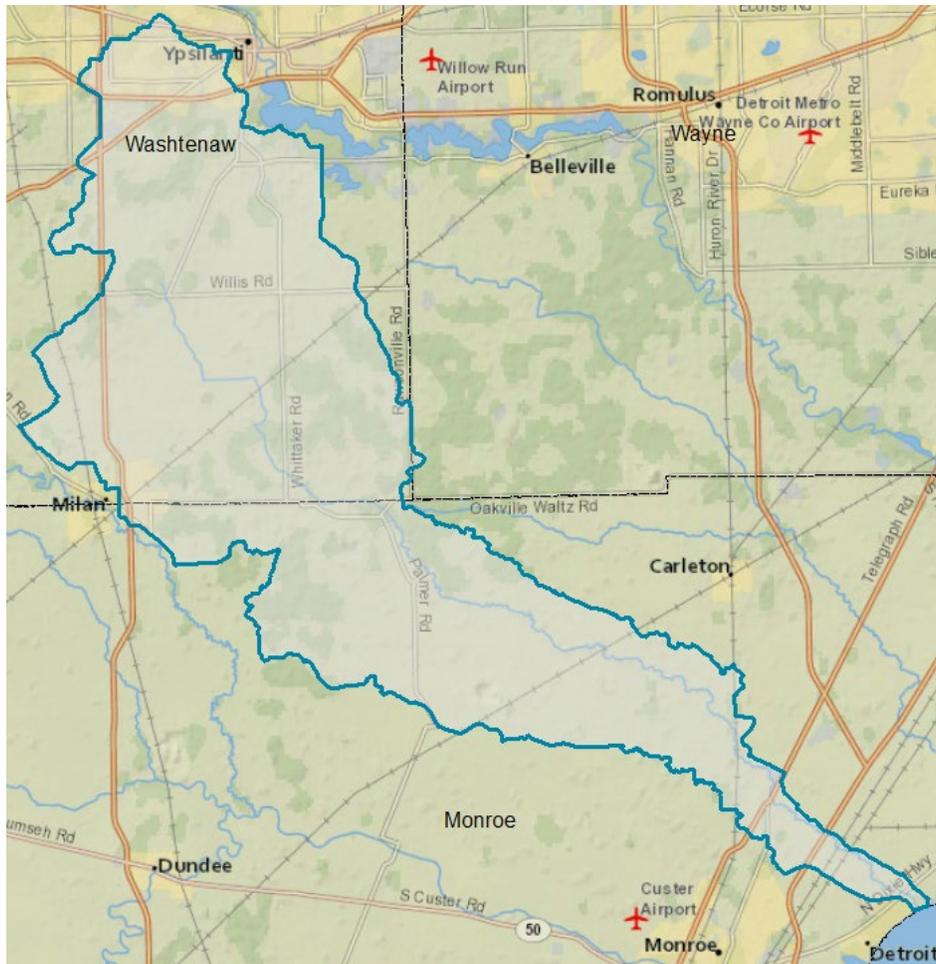
- [River Raisin Watershed Plan Part 1](#)
- [River Raisin Watershed Plan Part 2](#)

### Watershed Websites

- [River Raisin Watershed Council](#)

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## STONY CREEK (MONROE AND WASHTENAW COUNTIES)



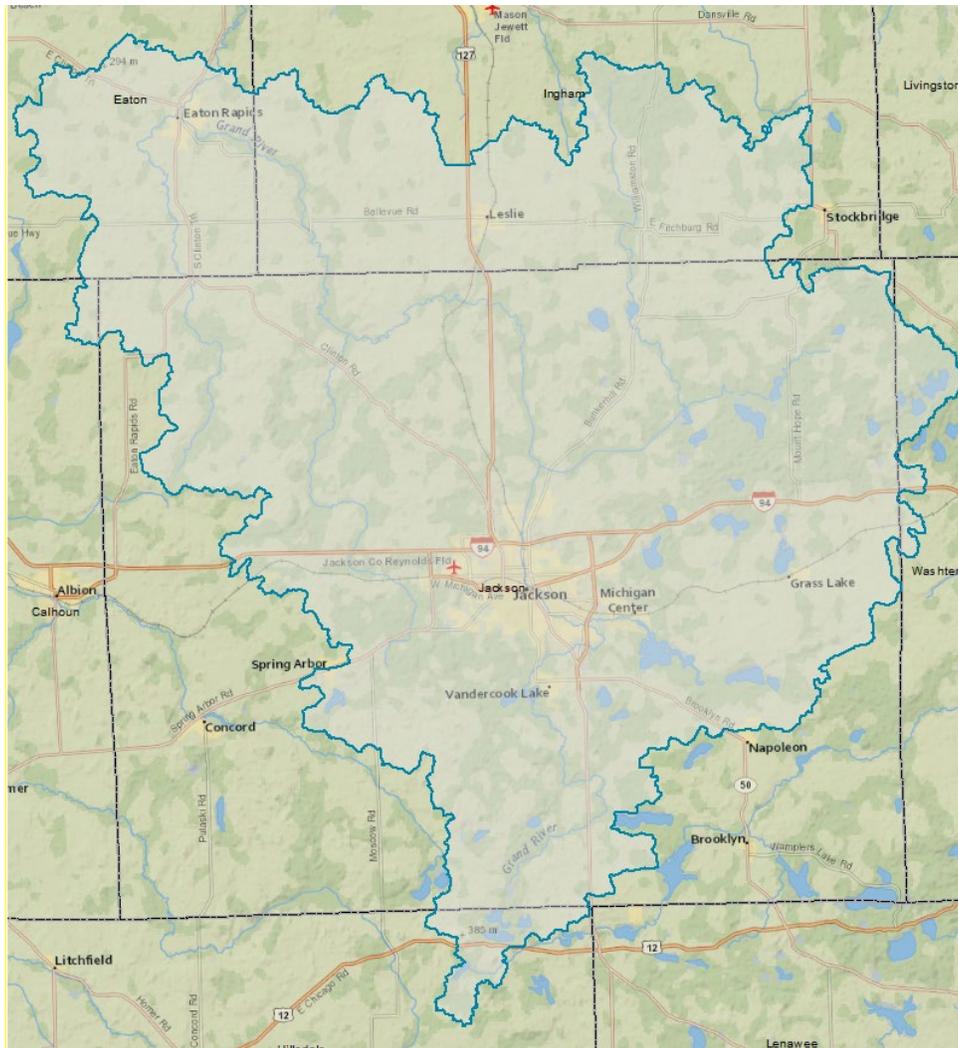
The Stony Creek Watershed Management Plan was developed by the Stony Creek Steering and Technical Committees, and was approved as meeting both CMI criteria in 2005. The Stony Creek Watershed planning area is within Washtenaw and Monroe Counties. The planning area is 79,359 acres in size. Land cover in the planning area is 36 percent agriculture, 26 percent grassland, 24 percent forested, 9 percent urban, 2 percent wetland, 1 percent open land, and 1 percent water. Designated uses addressed within the planning area include agriculture, warmwater fisheries, aquatic life and wildlife, partial and total body contact for recreation, public water supply, and coldwater fisheries. Pollutants of concern in the watershed include sediment, nutrients, pesticides, temperature, oil, and pathogens.

### EGLE Nonpoint Source Links

- [Stoney Creek Watershed Management Plan](#) (9 MB PDF)
- [Stoney Creek Watershed Management Plan Appendices](#)

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## UPPER GRAND RIVER



The Upper Grand River Watershed Management Plan was prepared by Tetra Tech. The plan received CMI approval in 2003 and 319 approval in 2006. The planning area is located in Jackson, Ingham, Eaton, Hillsdale, and Washtenaw Counties, and encompasses 447,923 acres. Land cover within the planning area is 44 percent agriculture, 19 percent wetland, 12 percent residential areas, 12 percent forest, 7 percent rangeland, 3 percent commercial/industrial land, 1.7 percent water, and 0.8 percent urban. Designated uses addressed within the planning area include warmwater fisheries, other aquatic life and wildlife, and total and partial body contact. The pollutants addressed by the plan include arsenic, sediment, and nutrients.

### EGLE Nonpoint Source Links

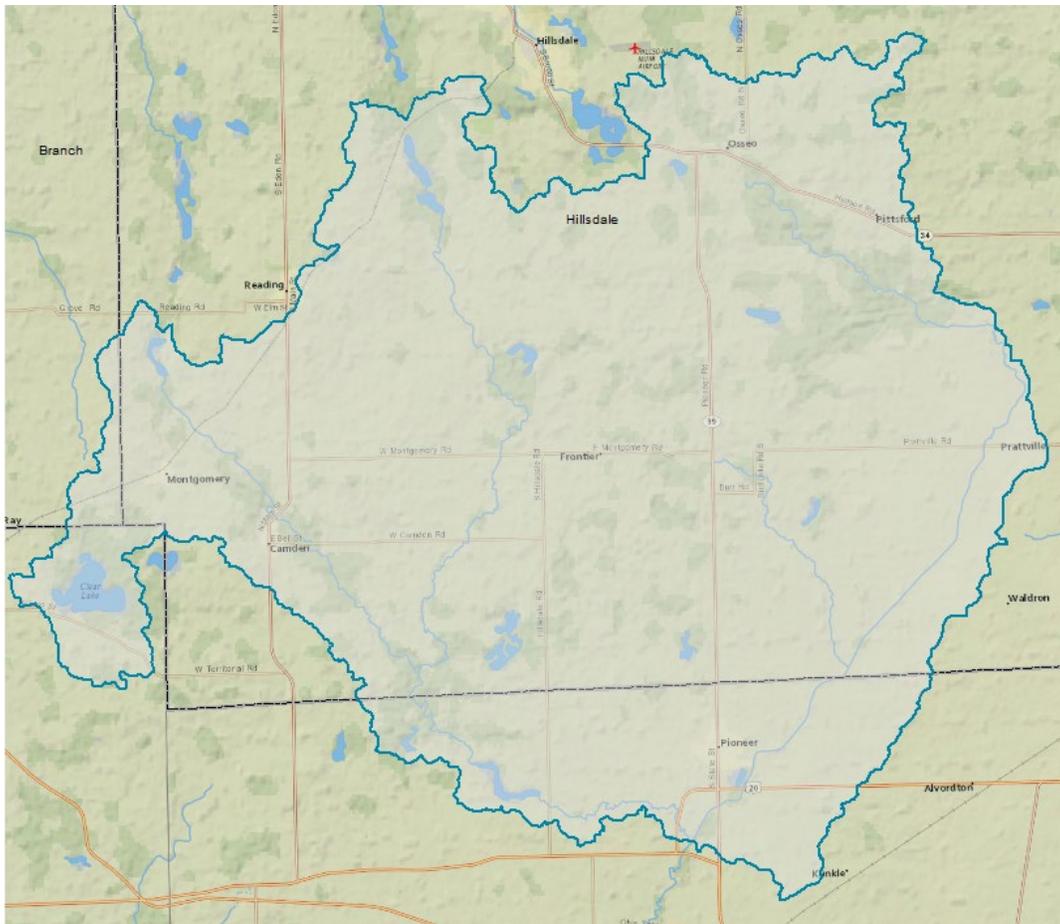
- [Upper Grand River Watershed Management Plan](#) (5 MB PDF)
- [Upper Grand River Watershed Management Plan Appendices](#) (7 MB PDF)

### Watershed Websites

- [Upper Grand River Watershed Council](#)

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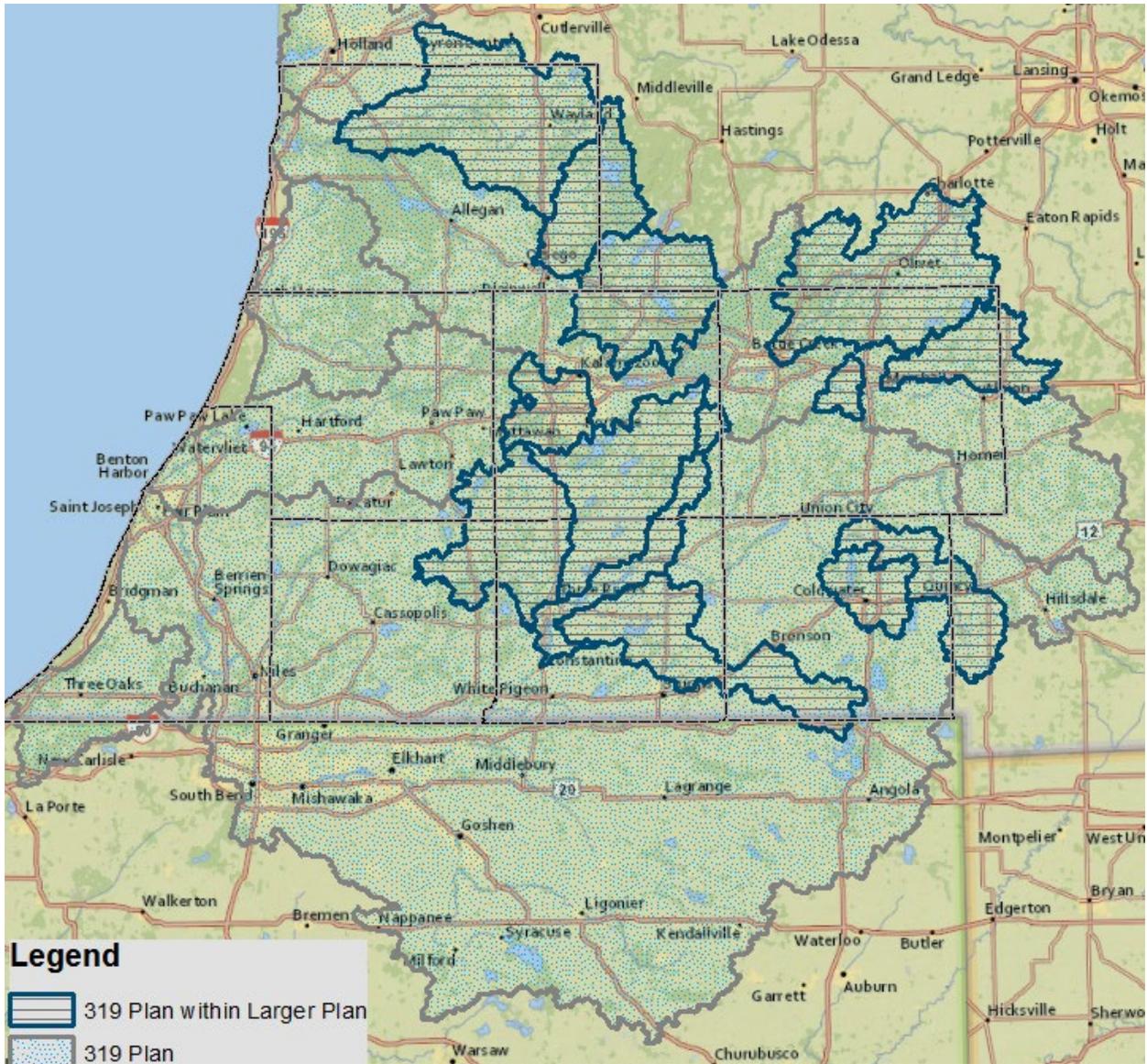
## UPPER ST. JOSEPH RIVER



The Upper St. Joseph River Watershed Management Plan was funded by Indiana's 319 Program and prepared by SNRT, Inc., for the St. Joseph River Watershed Initiative Partnership. The plan was approved by Michigan as meeting CMI and 319 criteria in 2016. The planning area is 343,468 acres in size and is predominantly in Hillsdale County with a small portion of the planning area in Branch County. Land Cover within the planning area is approximately 68 percent agriculture, 12 percent wetland, 11 percent forested, 4 percent open space, 3 percent urban, and remaining 2 percent in several other land covers. Pollutants of concern within the planning area include *E. coli*, sediment, and nutrients.

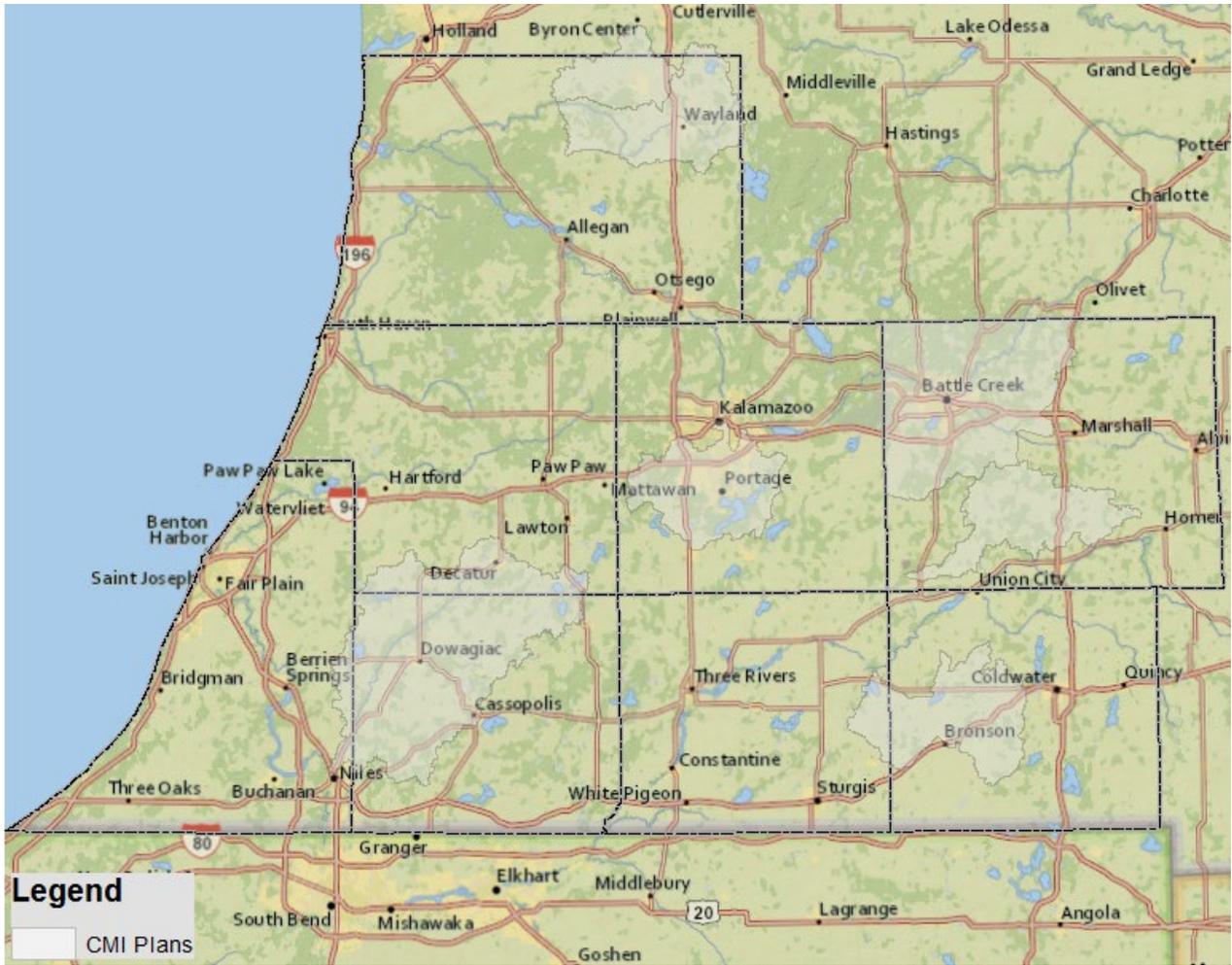
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

# KALAMAZOO DISTRICT 319 WATERSHEDS



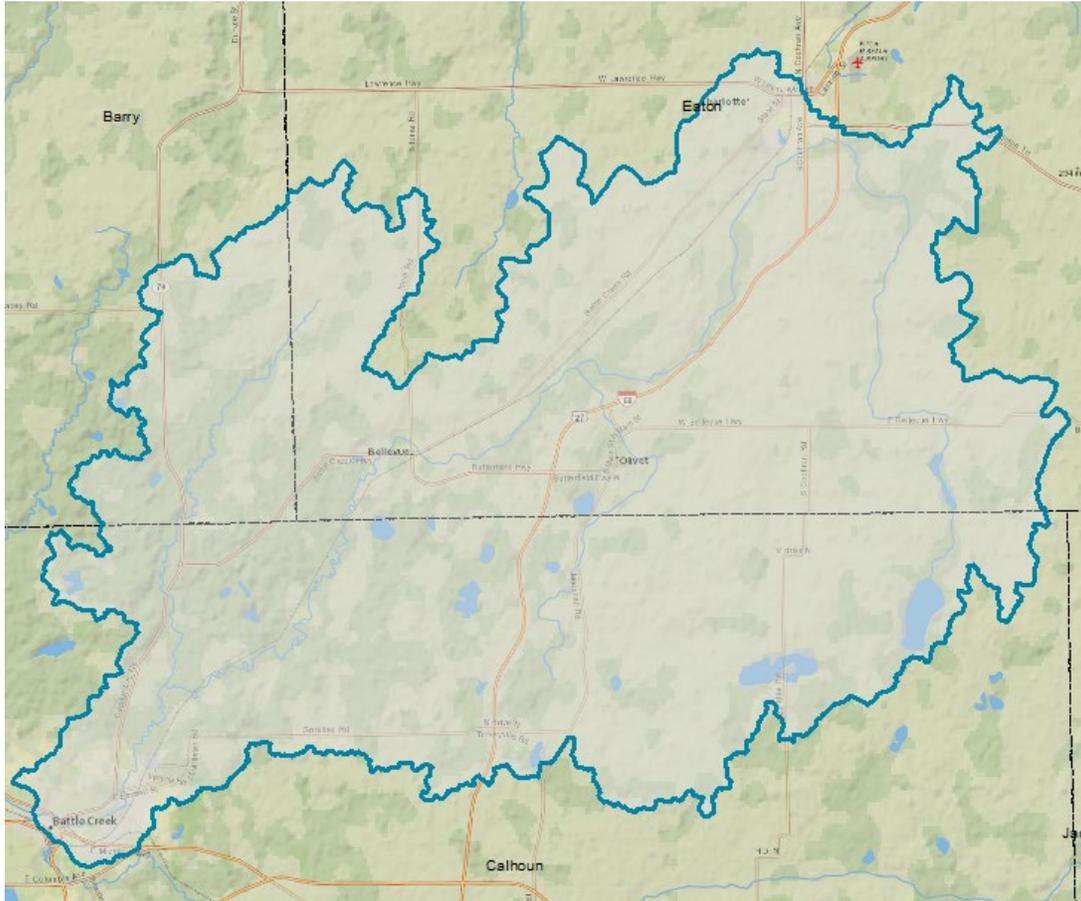
<b>CMI and 319 approved</b>	
Battle Creek River (Calhoun County)	Paw Paw River
Black River	Portage River
Ceresco Reach	Portage and Arcadia Creek
Galien River	Prairie River
Gull and Augusta Creek	Rabbit River
Gun River	Rice Creek
Hodunk-Messenger Chain of Lakes	Rocky River
Kalamazoo River	St. Joseph River
Little Portage Creek	

# KALAMAZOO DISTRICT CMI WATERSHED PLANS



CMI approved
Davis, Gourdneck, and Portage Creek
Dowagiac River
Greater Battle Creek Area
Little Rabbit River
Nottawa Creek
Swan Creek
Upper Rabbit River

BATTLE CREEK RIVER (CALHOUN COUNTY)



The Battle Creek River Watershed Management Plan was developed by Calhoun Conservation District and was approved as meeting CMI criteria in 2003 and 319 criteria in 2004. The Battle Creek River planning area covers 196,750 acres within portions of Calhoun, Barry, and Eaton Counties. Land use within the planning area is 68 percent agricultural, 13 percent forested, 10 percent wetland and 9 percent is urban/rural. Designated uses addressed within the planning area include warmwater fisheries, other indigenous aquatic life and wildlife, partial body contact recreation, and total body contact recreation. Pollutants of concern in the Battle Creek River Watershed include sediments, nutrients, hydrological flow, and pathogens.

### EGLE Nonpoint Source Links

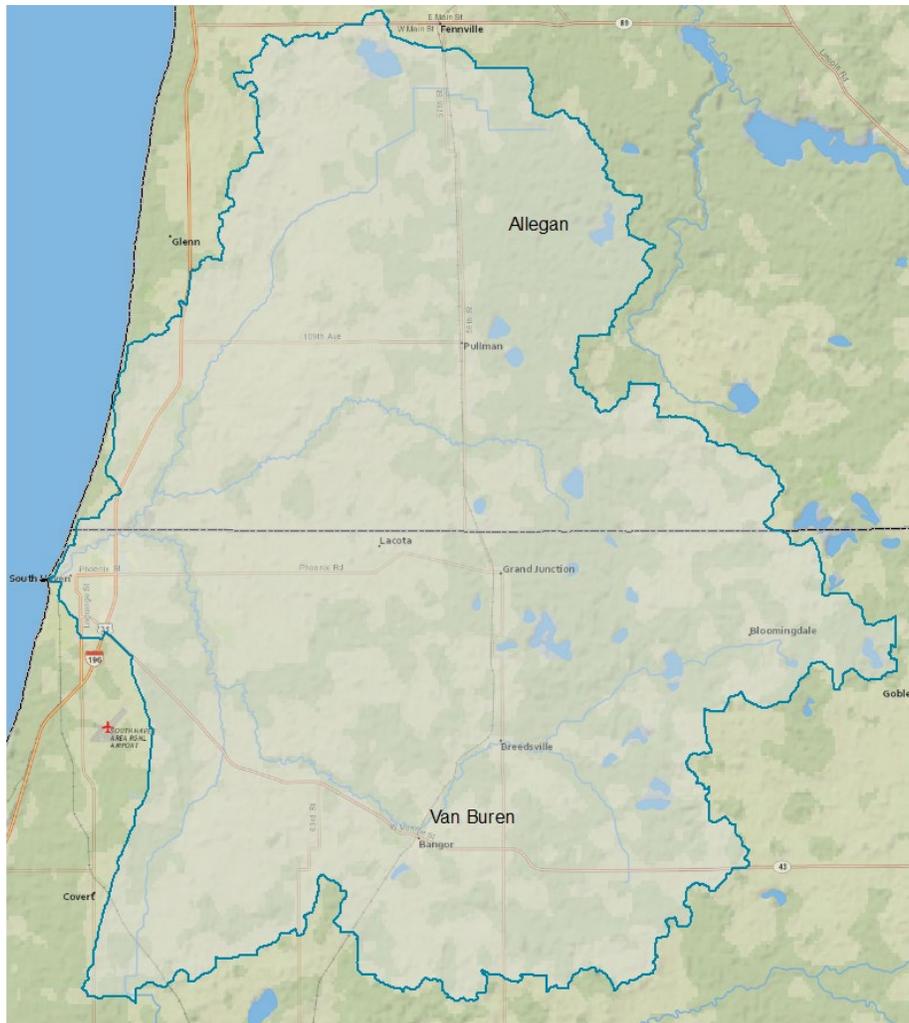
- [Battle Creek River Watershed Management Plan](#) (4 MB PDF)
- [Battle Creek River Watershed Management Plan, Wetland Resources Map](#)

### Watershed Websites

- [Calhoun County Conservation District](#)

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## BLACK RIVER



The Black River Watershed Management Plan was developed by the Van Buren Conservation District and was approved as meeting CMI criteria and 319 criteria in 2009. The Black River Watershed encompasses approximately 183,490 acres in Allegan and Van Buren Counties in southwestern Michigan. Land cover within the planning area is 57.4 percent agricultural, 32.9 percent forested, 6.7 percent wetland, 1.5 percent water, 1.1 percent developed land, and 0.3 percent other. Designated uses not being met within the planning area include warmwater fisheries, coldwater fisheries, and other indigenous aquatic life and wildlife. The Black River Watershed Management Plan addresses the sources of sediment, nutrients, bacteria/pathogens, temperature, trash/debris, chemical pollutants, and invasive species.

### EGLE Nonpoint Source Links

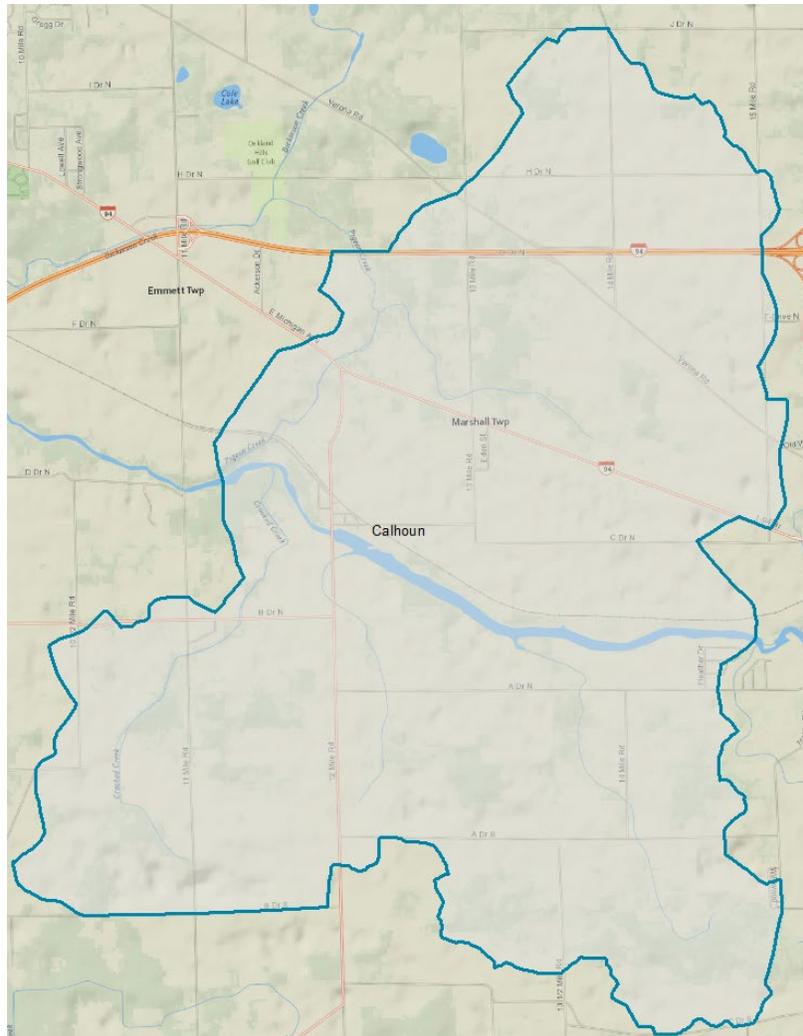
- [Black River Watershed Management Plan](#) (Part 1)
- [Black River Watershed Management Plan](#) (Part 2)

### Watershed Websites

- [Van Buren Conservation District](#)

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## KALAMAZOO RIVER-CERESCO REACH



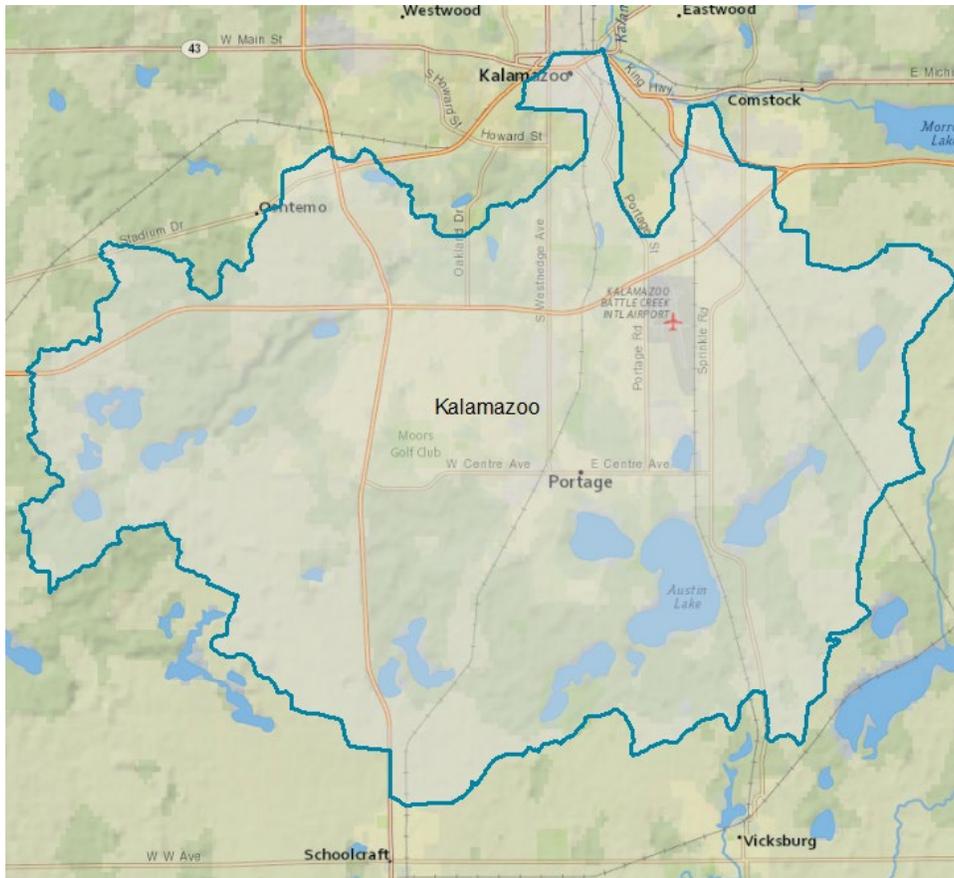
The Kalamazoo River-Ceresco Reach Watershed Management Plan was prepared by Calhoun Conservation District and was approved as meeting both CMI and 319 criteria in 2012. The watershed planning area is located in Calhoun County and is 13,813 acres in size. Land cover within the planning area is 67 percent cropland; 16 percent deciduous forest; 7 percent wooded wetland; 4 percent open field; 3 percent residential; 1 percent transportation, communication and utilities; and 1 percent pasture. Impaired designated uses within the planning area include navigation, industrial water supply, and agriculture. The pollutants of concern in the Kalamazoo River-Ceresco Reach Watershed include sediment, nutrients, hydromodification, temperature, pathogens, and salt.

### Watershed Websites

- [Ceresco Reach Management Plan](#)
- [Calhoun County Conservation District](#)

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## DAVIS, GOURDNECK, AND PORTAGE CREEKS



The Davis Creek, Gourdneck Creek, and Portage Creek Watershed Management Plan was prepared by Fishbeck, Thompson, Carr & Huber Inc., for the Kalamazoo Conservation District and was approved as meeting CMI criteria in 2001. The watershed is in Kalamazoo County. The planning area is 62,731 acres in size. Land cover within the planning area is 24 percent agricultural, 18 percent low density residential, 17 percent rural open, 16 percent forested, 7 percent wetland, 6 percent water, 3 percent industrial, 3 percent commercial, 3 percent transportation, 2 percent urban open, 1 percent high density residential, and 1 percent medium density residential. Designated uses addressed within the planning area include partial body contact recreation, indigenous aquatic life and wildlife, cold- and warmwater fisheries, public water supply, agricultural irrigation, wetland preservation, and navigation. The watershed management plan addresses the sources of sediment, nutrients, bacteria, toxic compounds, organic materials, and hydrocarbons.

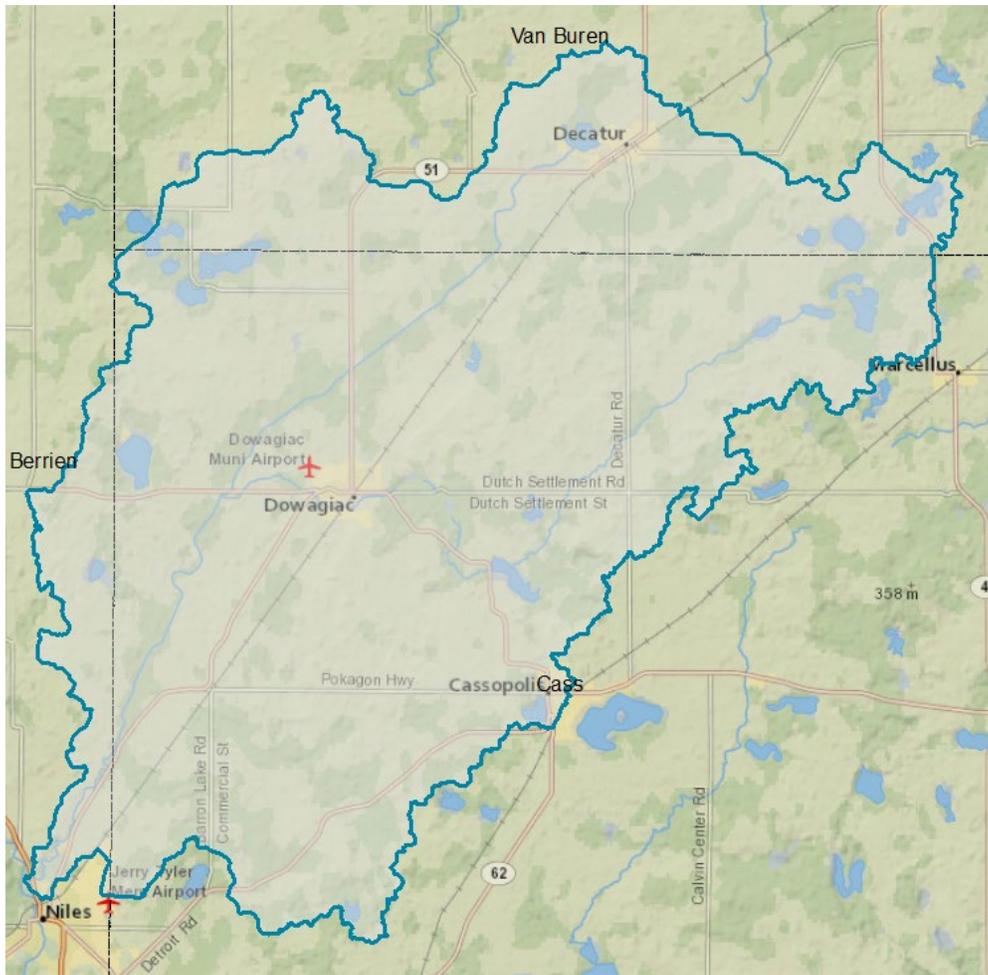
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Kalamazoo Conservation District](#)

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## DOWAGIAC RIVER



The Dowagiac River Watershed Management Plan was developed by Cass Conservation District and was approved as meeting CMI criteria in 2002. The Dowagiac River planning area lies within the St. Joseph River Basin and is located in Cass, Van Buren, and Berrien Counties. The planning area is 183,117 acres. Land cover within the planning area is 55 percent agricultural, 34 percent forest/wetlands, 6 percent residential, 0.3 percent industrial, 0.1 percent commercial, and 4 percent other. Designated uses addressed within the planning area include cold- and warmwater fisheries, other indigenous aquatic life and wildlife, and partial body contact recreation. The management plan addresses the following pollutants: sediment, nutrients, changes in hydrologic flow, and *E. coli*.

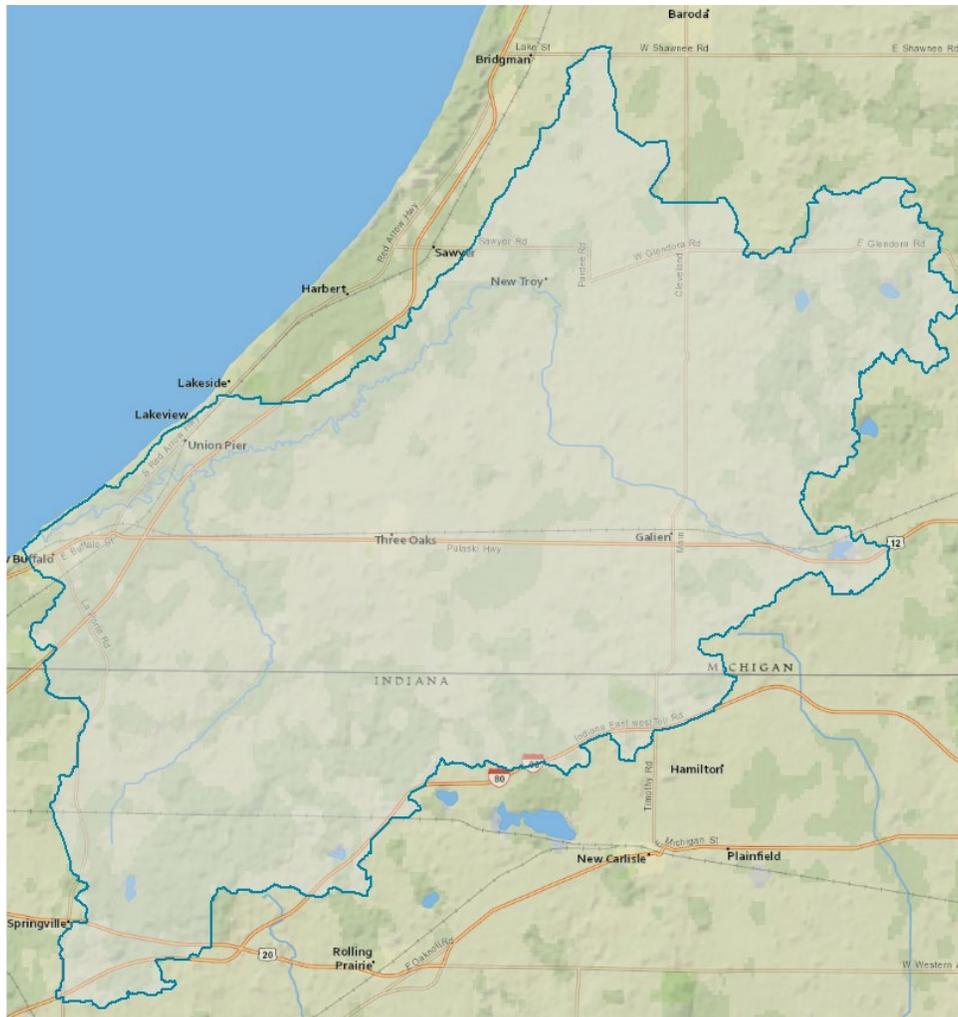
### EGLE Nonpoint Source Links

- [Dowagiac River Management Plan](#)

### Watershed Websites

- [Meeting Ecological and Agricultural Needs within the Dowagiac River System](#)
- [St. Joe River Watershed](#) (a larger watershed management plan encompassing Dowagiac River)

## GALIEN RIVER



The Galien River Watershed Management Plan was developed by Fishbeck, Thompson, Carr & Huber Inc., and was approved as meeting CMI criteria in 2003 and 319 criteria in 2006. The Galien River planning area is 112,222 acres in size and is located in Berrien County. Land cover within the planning area is 60 percent agricultural, 22 percent forested, 10 percent rangeland, 5 percent urban and built up, 2 percent wetland, 0.63 percent water, and 0.01 percent barren. Designated uses addressed within the planning area include partial and total body contact recreation, other indigenous aquatic life and wildlife, agriculture, warm- and coldwater fisheries, and navigation. Pollutants of concern include sediment, *E. coli*, nutrients, and possibly pesticides.

### EGLE Nonpoint Source Links

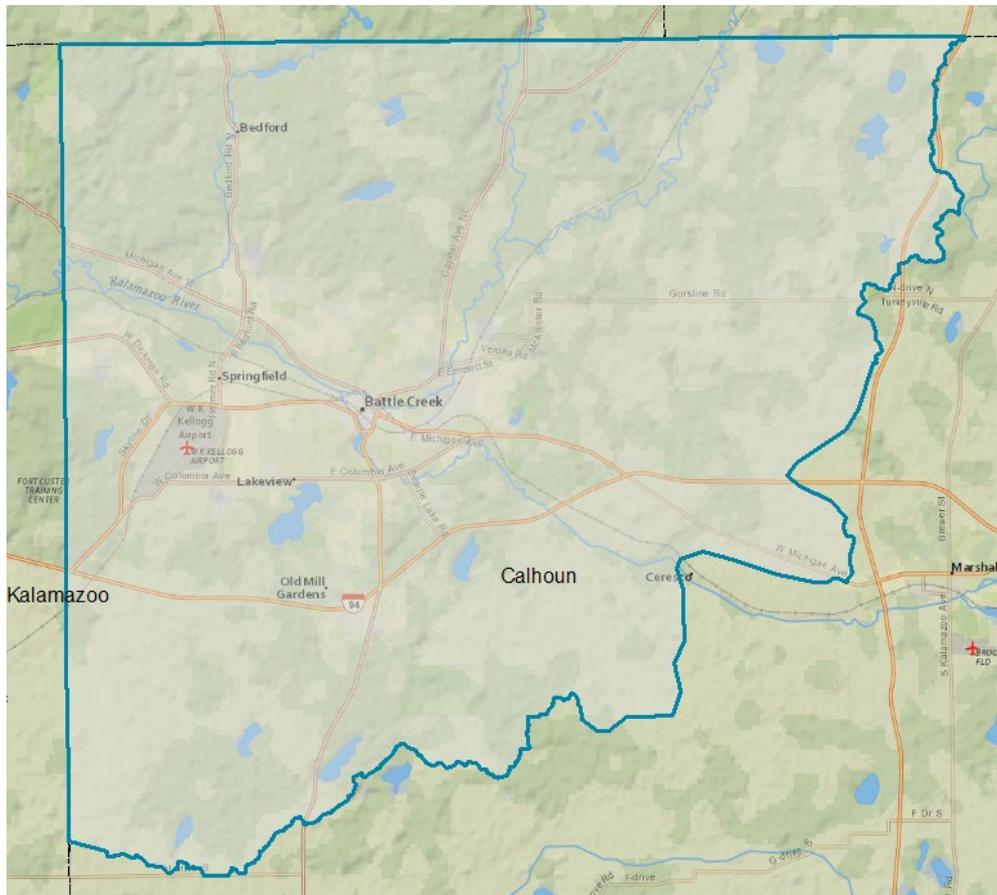
- [Galien River Watershed Management Plan](#) (2 MB PDF)
- [Galien River Watershed Management Plan Figures](#) (7 MB PDF)
- [Galien River Watershed Management Plan Appendices](#) (8 MB PDF)
- [Galien River Watershed Management Plan Addendum, November 2005](#) (4 MB PDF)

### Watershed Websites

- [Southwestern Michigan Commission - Galien River Watershed](#)

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## GREATER BATTLE CREEK AREA



The Greater Battle Creek Watershed Management Plan was approved as meeting CMI criteria in 2001. The planning area is located in Calhoun County and is approximately 187,000 acres in size. The primary pollutants addressed by the plan are sediment and phosphorus.

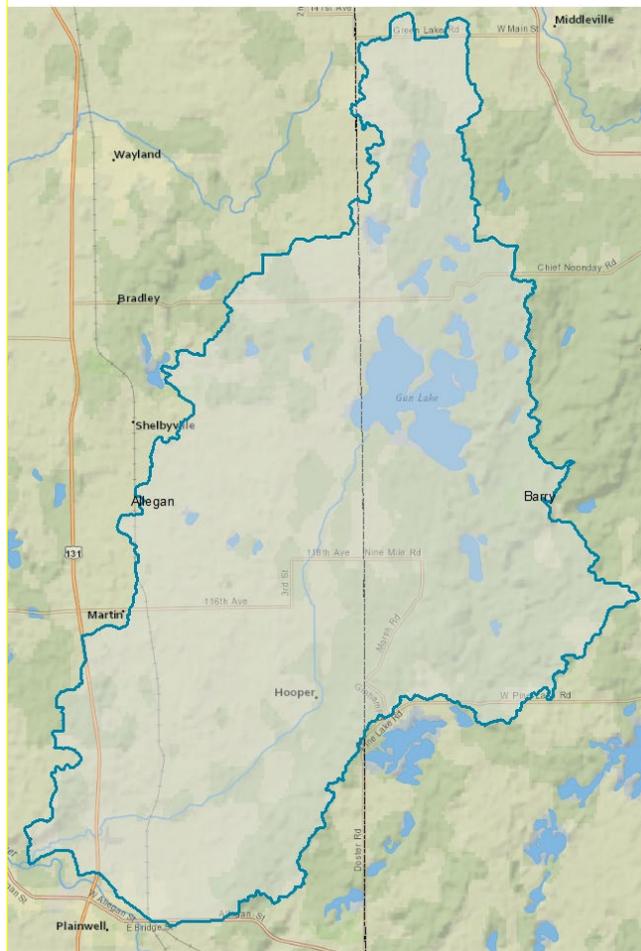
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Calhoun County Conservation District](#)

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## GUN RIVER



The Gun River Watershed Management Plan was developed by Fishbeck, Thompson, Carr & Huber for the Allegan Conservation District and was approved as meeting CMI criteria in 2003 and 319 criteria in 2005. The Gun River watershed encompasses an area of 73,272 acres in Allegan and Barry Counties. Designated uses not being met within the planning area include cold- and warmwater fisheries, other indigenous aquatic life and wildlife, partial body contact recreation, and total body contact recreation. Concerns in the Gun River Watershed include the pollutants sediment, nutrients, *E. coli*, and hydrocarbons; and issues related to altered hydrology, invasive species, obstructions, increased temperatures, and fragmentation of habitats.

### EGLE Nonpoint Source Links

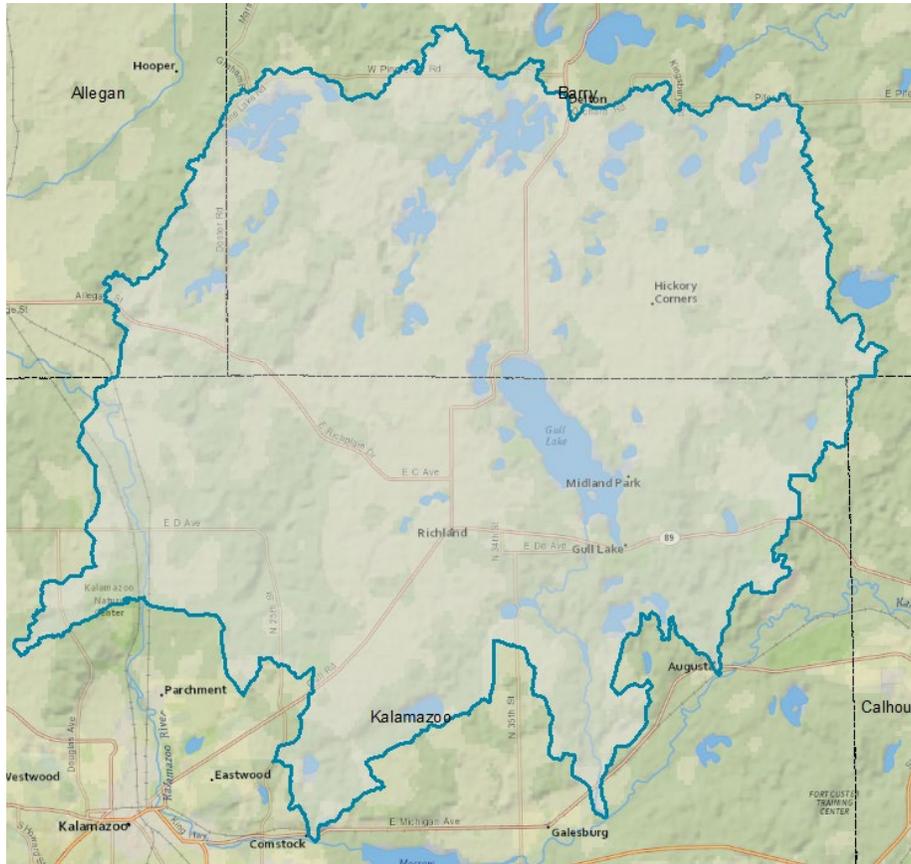
- [Gun River Watershed Management Plan](#) (2 MB PDF)
- [Gun Watershed Management Plan Figures](#) (6 MB PDF)
- [Gun River Watershed Management Plan Appendices](#) (1 MB PDF)

### Watershed Websites

- [Allegan Conservation District](#)

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## GULL AND AUGUSTA CREEK WATERSHED



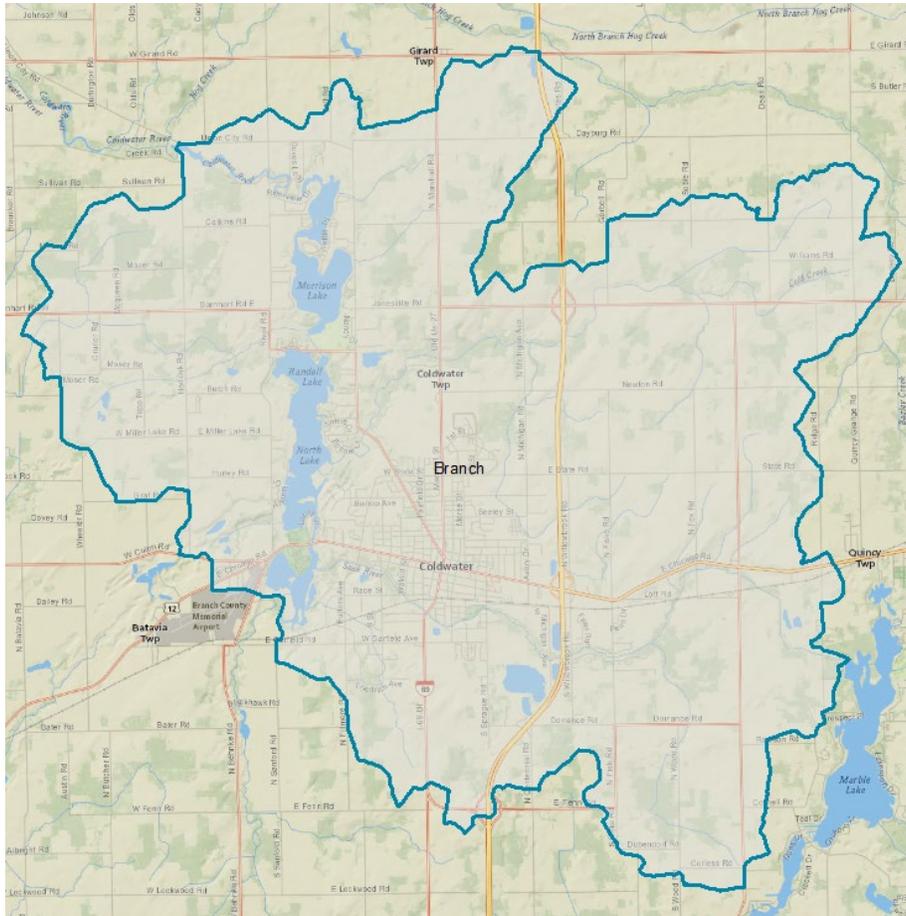
The Gull and Augusta Creeks Watershed Management Plan was created by the Four Township Water Resources Council and was updated and approved as meeting CMI criteria in 2017. The Gull and Augusta Creek planning area encompasses 108,119 acres in Kalamazoo and Barry Counties. Land cover within the planning area is 44 percent agriculture, 25 percent forested, 9 percent open land and parks, 8 percent non-forested wetlands, 5 percent water, 4 percent forested wetland, 3 percent transportation, 1.4 percent low-intensity urban, and 0.4 percent high-intensity urban. Designated uses addressed include total body contact, partial body contact, coldwater fisheries, and other indigenous aquatic life and wildlife. Pollutants of concern are nutrients (particularly phosphorus), sediments, microbial pathogens, habitat fragmentation, high flow, and temperature.

### Watershed Websites

- [Four Township Management Plan](#)
- [Four Township Water Resources Council](#)

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## HODUNK-MESSENGER CHAIN OF LAKES



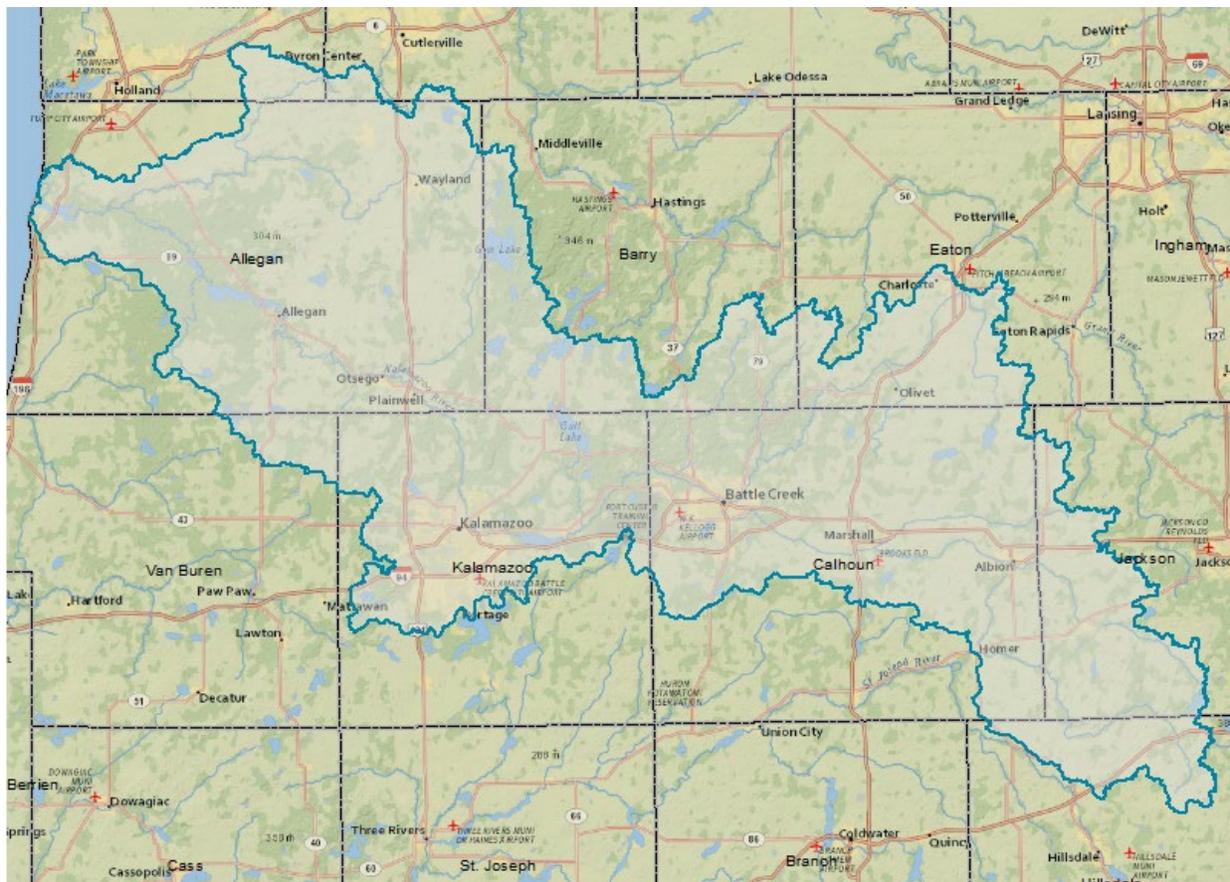
The Hodunk-Messenger Chain of Lakes Watershed Management Plan was developed by the Branch County Conservation District and was approved as meeting both CMI and section 319 criteria in 2009. The Hodunk-Messenger Chain of Lakes Watershed planning area covers 39,386 acres in Branch County. Land cover in the planning area is 70 percent agricultural, 15 percent forested, 7 percent urban, 4 percent wetland, and 3.5 percent water. Impaired designated uses in the watershed are Indigenous aquatic life and wildlife, and total body contact recreation. Pollutants of concern in the watershed are pathogens and sediment.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Branch County Conservation District](#)

## KALAMAZOO RIVER



The Kalamazoo River Watershed Management Plan was developed by the Kalamazoo River Watershed Council and was approved as meeting CMI criteria in 2010 and 319 criteria in 2011. The Kalamazoo River Watershed drains 1,292,800 acres in Southwestern Lower Michigan and encompasses portions of Ottawa, Allegan, Van Buren, Kalamazoo, Calhoun, Hillsdale, Jackson, Eaton, Barry, and Kent Counties. Land cover in the Kalamazoo River watershed is approximately 47 percent agriculture, 30 percent unmanaged terrestrial upland, 15 percent lakes and wetlands, and 8 percent urban. Impaired designated uses within the planning area include other indigenous aquatic life and wildlife, total body contact recreation, partial body contact recreation, and warmwater fisheries, fish consumption. The Kalamazoo River Watershed Management Plan addresses the sources of nutrients, sediments, *E. coli*, mercury, PCBs, and dioxin.

### EGLE Nonpoint Source Links

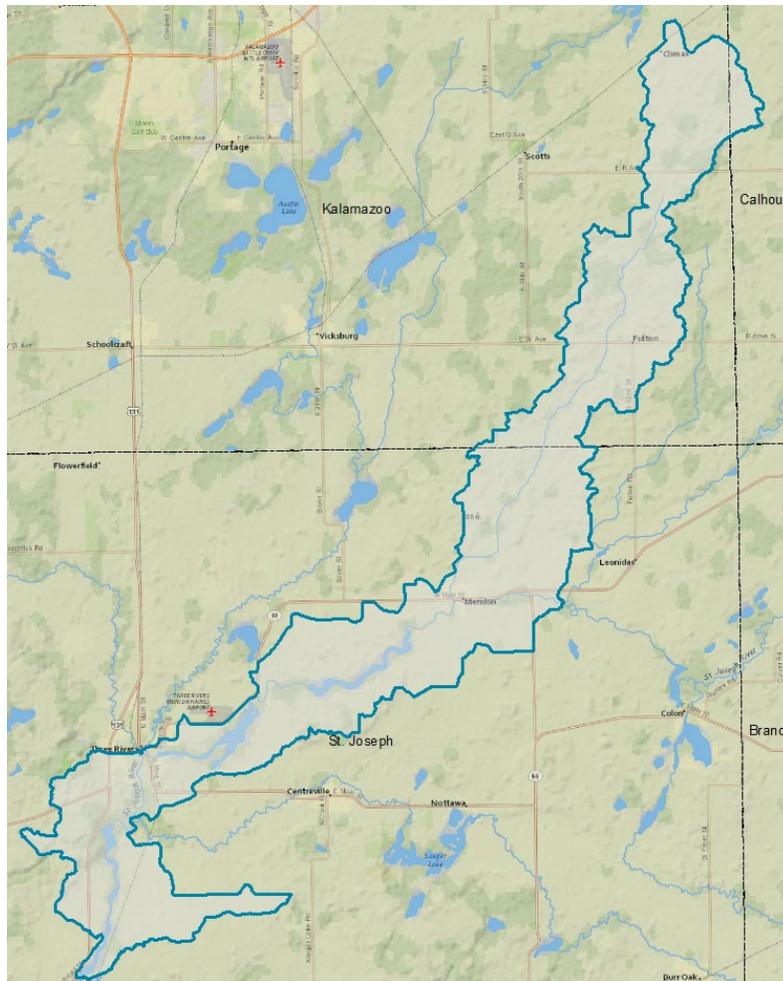
- [Kalamazoo River Watershed Management Plan](#) (7 MB PDF)

### Watershed Websites

- [Kalamazoo River Watershed Council](#)

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## LITTLE PORTAGE CREEK



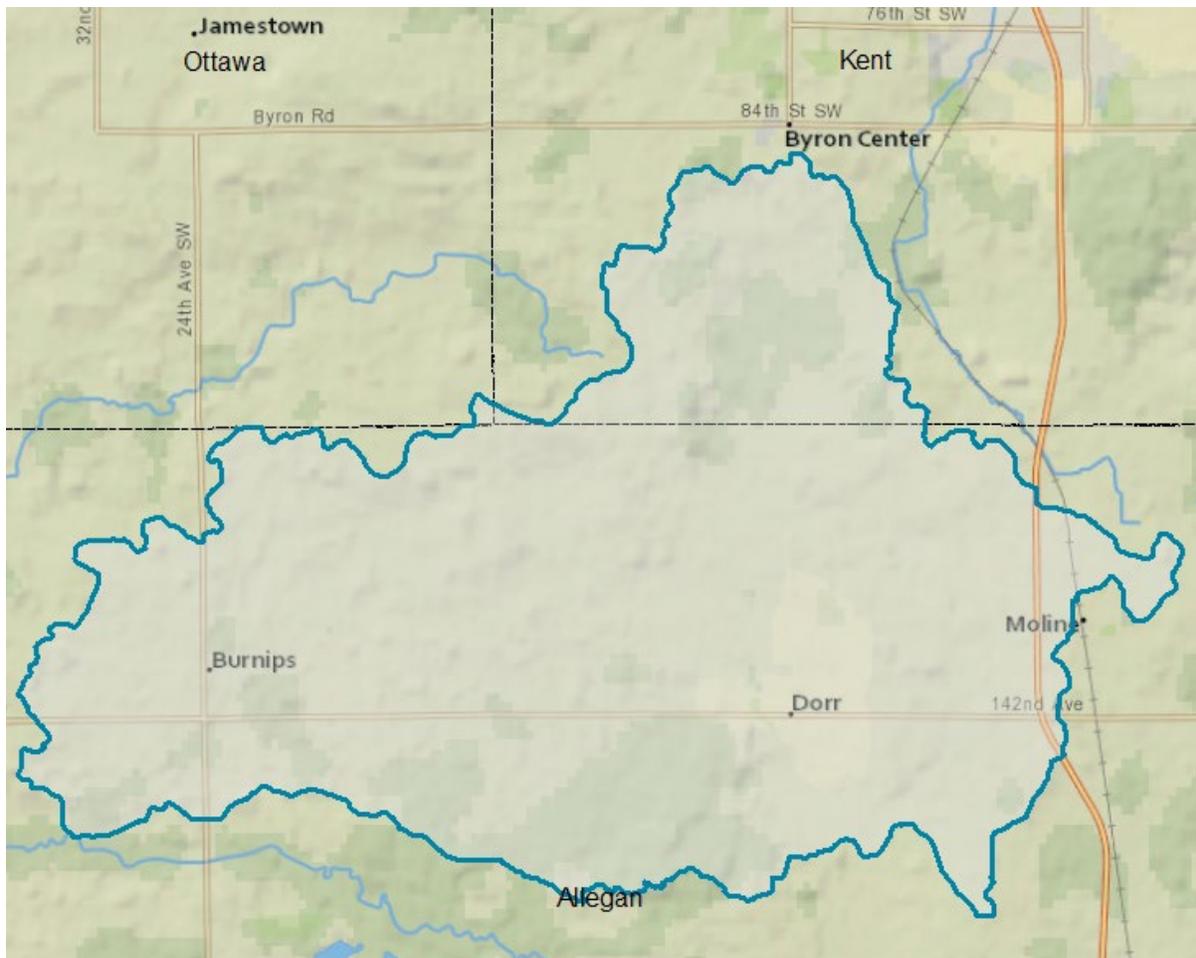
The Little Portage Creek Watershed Management Plan was developed by the Calhoun County Conservation District and was approved as meeting CMI and 319 criteria in 2016. The Little Portage Creek planning area is approximately 60,000 acres in size and is located in St. Joseph, Kalamazoo, and Calhoun Counties. Land cover within the planning area is 71 percent agriculture, 14 percent forested, 5 percent open field, 4 percent urban, 3 percent water, and 3 percent wetland. Impaired designated uses include partial and total body contact recreation, and warmwater fisheries. Primary pollutants of concern include sediment and *E. coli*.

### Watershed Websites

- [Little Portage Creek Management Plan](#)
- [Calhoun Conservation District Planning Page](#)
- [Calhoun Conservation District](#)

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## LITTLE RABBIT RIVER



The Little Rabbit River Watershed Management Plan was developed by the Allegan County Conservation District. The plan received CMI approval in 2000. The planning area encompasses 30,850 acres and is predominantly in Allegan County with small portion in Kent and Barry Counties. Land cover within the watershed is 46.8 percent agriculture, 29.8 percent residential, 14 percent forest, 4.5 percent open land, 3.5 percent water and wetland, 0.6 percent commercial and industrial areas, and 0.4 percent both transportation/utilities and extractive/barren. Impaired designated use within the watershed is warmwater fisheries. Pollutants of concern include sediment, nutrients, and high flow.

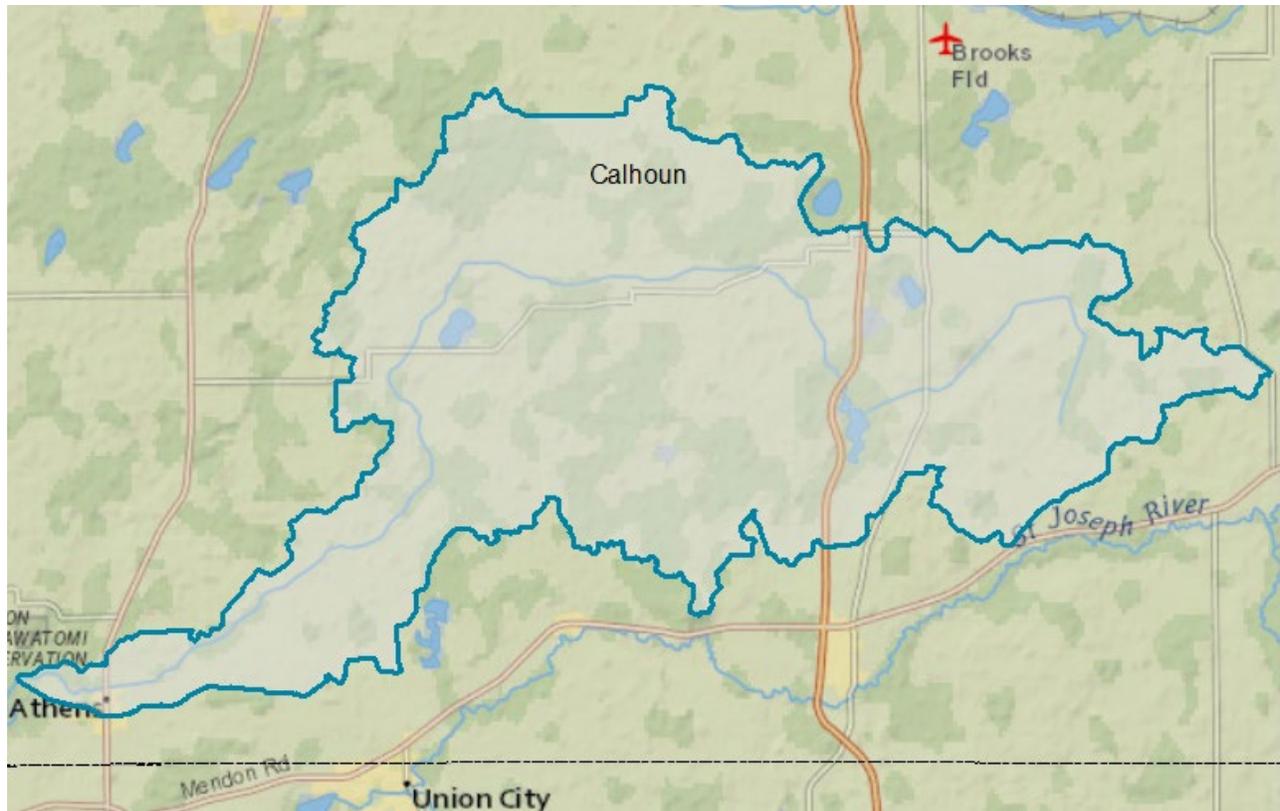
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Allegan Conservation District](#)

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## NOTTAWA CREEK

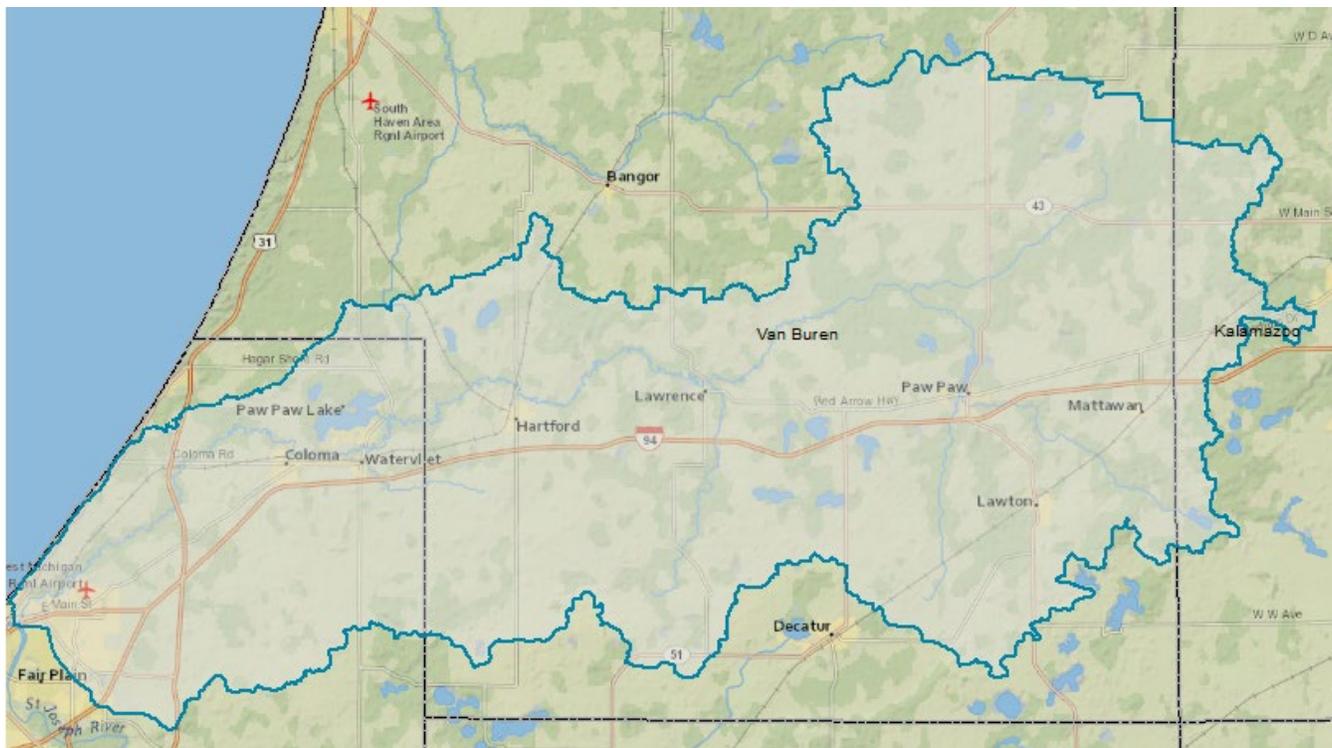


The Nottawa Creek Watershed Plan was developed by the Calhoun Conservation District and received CMI approval in 2000. The planning area covers 59,196 acres. Land cover within the watershed is 68 percent agricultural, 13 percent forested, 10 percent wetland, and 9 percent urban and rural, non-farm lands. Designated uses addressed within the planning area include warmwater fisheries, and partial and total body contact recreation. Pollutants include sediment, nutrients, pathogens, and pesticides.

### Watershed Websites

- [Nottawa Creek Management Plan](#)
- [Calhoun County Conservation District](#)
- [St. Joe River Watershed](#) (a larger watershed management plan encompassing Nottawa Creek)

## PAW PAW RIVER



The Paw Paw River Watershed Management Plan was written by the Southwestern Michigan Planning Commission and was approved as meeting both CMI and 319 criteria in 2008. The Paw Paw River encompasses approximately 285,557 acres in Kalamazoo, Van Buren, and Berrien Counties. Land cover within the planning area is 47.6 percent agricultural, 28.2 percent forested, 9.7 percent upland open land, 6.9 percent urban, 6.1 percent wetland, 1 percent water, and 0.3 percent other/unknown. Designated uses addressed within the planning area include partial and total body contact recreation, other indigenous wildlife, and cold- and warmwater fisheries. Pollutants of concern include sediment, nutrients, temperature, bacteria and pathogens, pesticides, oil, grease, and metals.

### EGLE Nonpoint Source Links

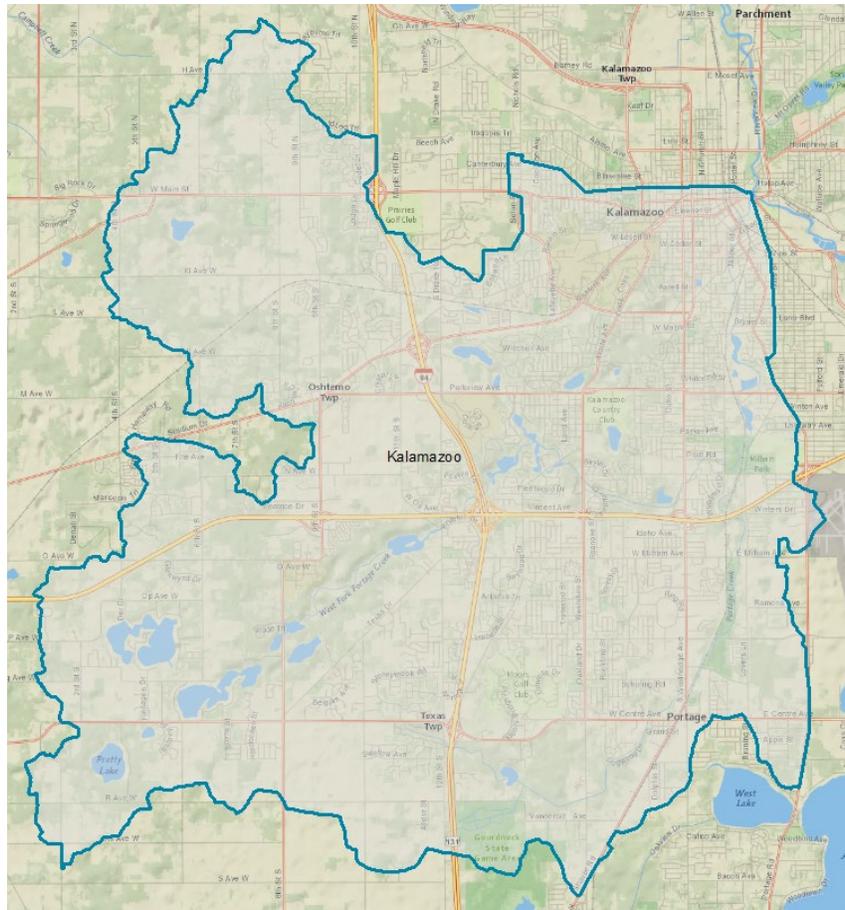
- [Paw Paw River Watershed Management Plan](#)

### Watershed Websites

- [Southwestern Michigan Planning Commission](#)

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## PORTAGE AND ARCADIA CREEKS

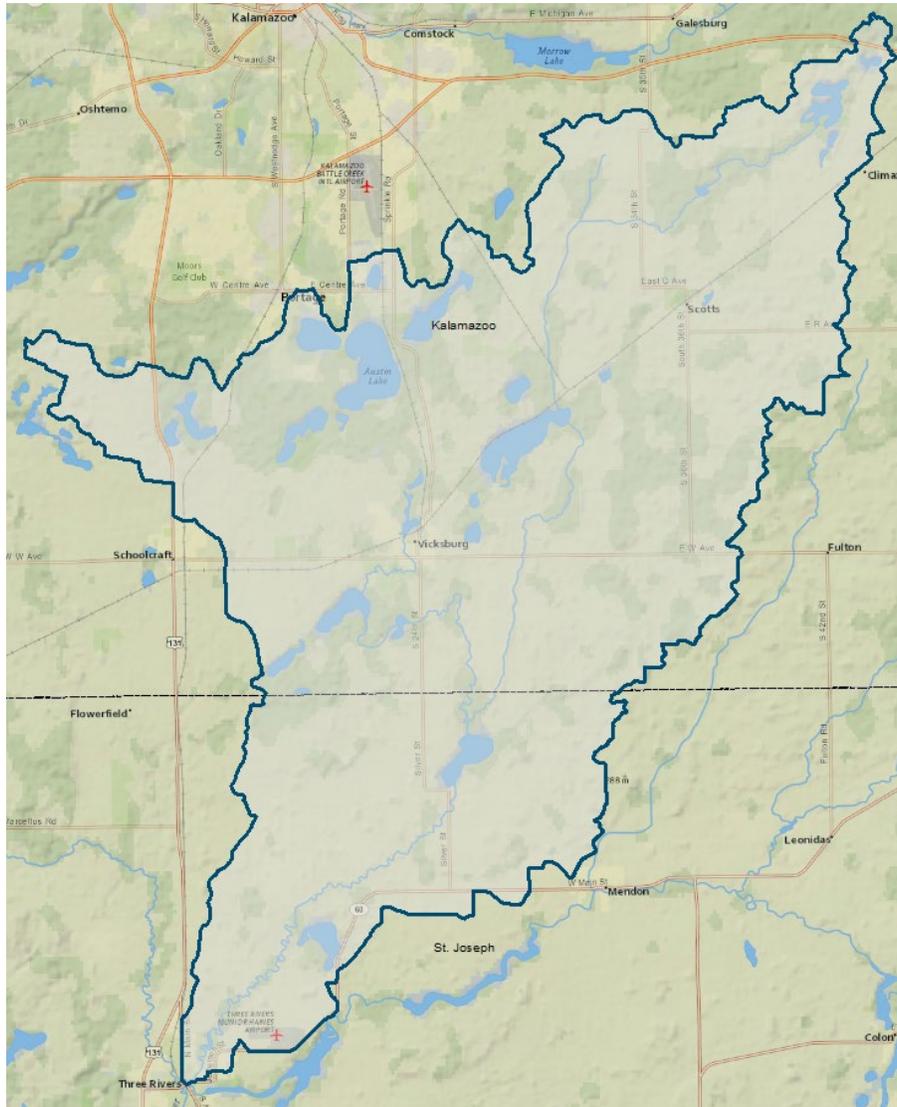


The Portage and Arcadia Creeks Watershed Management Plan was updated by Western Michigan University and Kieser and Associates LLC for the Portage and Arcadia Creek Steering Committee. The plan updated was approved as meeting CMI and 319 criteria in 2019. The planning area is located in the western portion of the Kalamazoo County and encompasses 43,723 acres. Land cover within the planning area is 49.7 percent open spaces and forest, 26.4 percent by urban areas, 19 percent by agriculture, and 4.9 percent by water and wetland. Designated uses addressed within the planning area include warmwater fisheries, total body contact, and partial body contact. Concerns include increased water volume and temperature and degradation and loss of habitat. Pollutants addressed by the plan include pathogens, sediment, and nutrients.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

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## PORTAGE RIVER

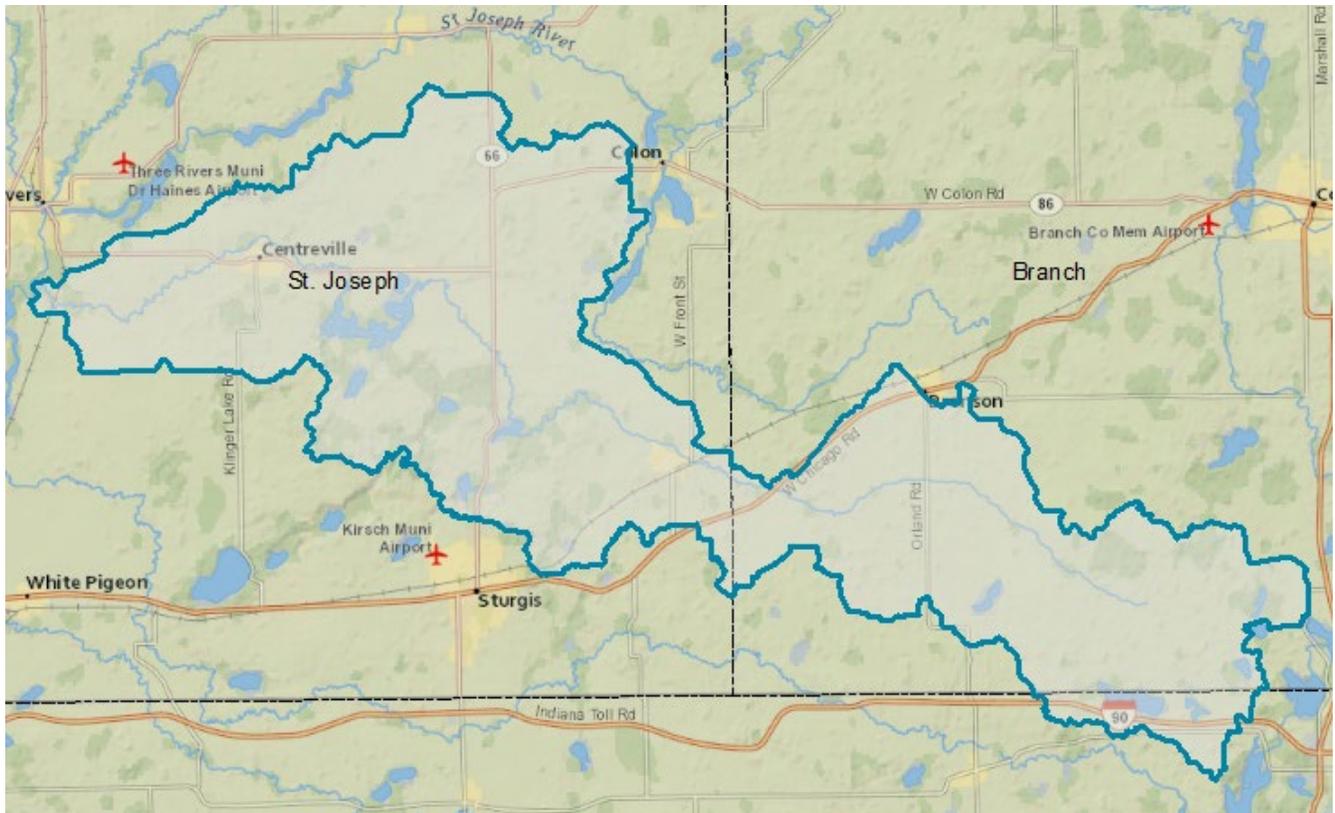


The Portage River Watershed Management Plan was developed by the Calhoun County Conservation District and was approved as meeting CMI and 319 criteria in 2016. The planning area is approximately 125,500 acres in size and is located in Kalamazoo and St. Joseph Counties. Land cover within the planning area is 60 percent agriculture, 18 percent forested, 7 percent wetland, 6 percent urban, 5 percent open field, and 4 percent water. The impaired designated use within the watershed is total body contact. Pollutants of concern include pathogens, sediment, and hydrologic issues.

### Watershed Websites

- [Portage River Management Plan](#)
- [Calhoun Conservation District Planning Page](#)
- [Calhoun Conservation District](#)

## PRAIRIE RIVER



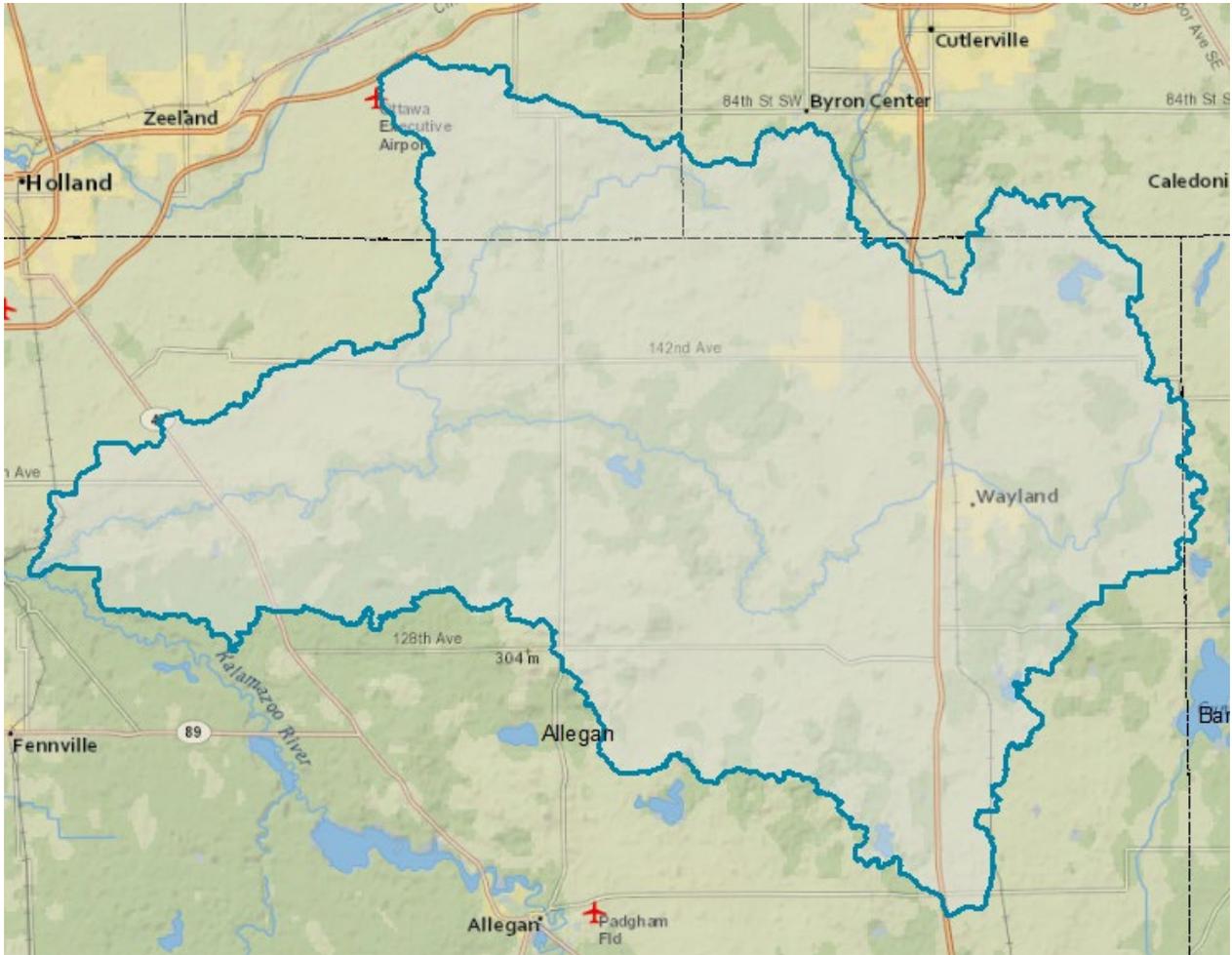
The Prairie River Watershed Management Plan was developed by the Branch County Conservation District and was approved as meeting both CMI and section 319 criteria in 2014. The Prairie River planning area is 116,668 acres in size. The planning area is located in portions of Branch and St. Joseph Counties, Michigan; and Steuben County, Indiana. Land cover in the planning area is 69 percent agricultural production, 12 percent forested, 12 percent wetland, 4 percent urban, and 3 percent water. No waterbodies in the Prairie River Watershed are currently identified as having impaired designated uses. The pollutant of concern in the watershed is *E. coli*.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Branch County Conservation District](#)

## RABBIT RIVER



The Rabbit River Watershed Management Plan was developed by the Allegan County Drain Commission and was approved as meeting both CMI and section 319 criteria in 2009. The Rabbit River Watershed Planning area is 187,200 acres in size and covers parts of Allegan, Barry, Ottawa, and Kent Counties. Land cover in the planning area is 63 percent agriculture, 16 percent forested, 9 percent wetland, 6 percent urban, 5 percent open land, and 1 percent water. Impaired designated uses in the Rabbit River watershed include warmwater fisheries and other indigenous aquatic life and wildlife. Pollutants of concern in the watershed are nutrients, pesticides, and sediment.

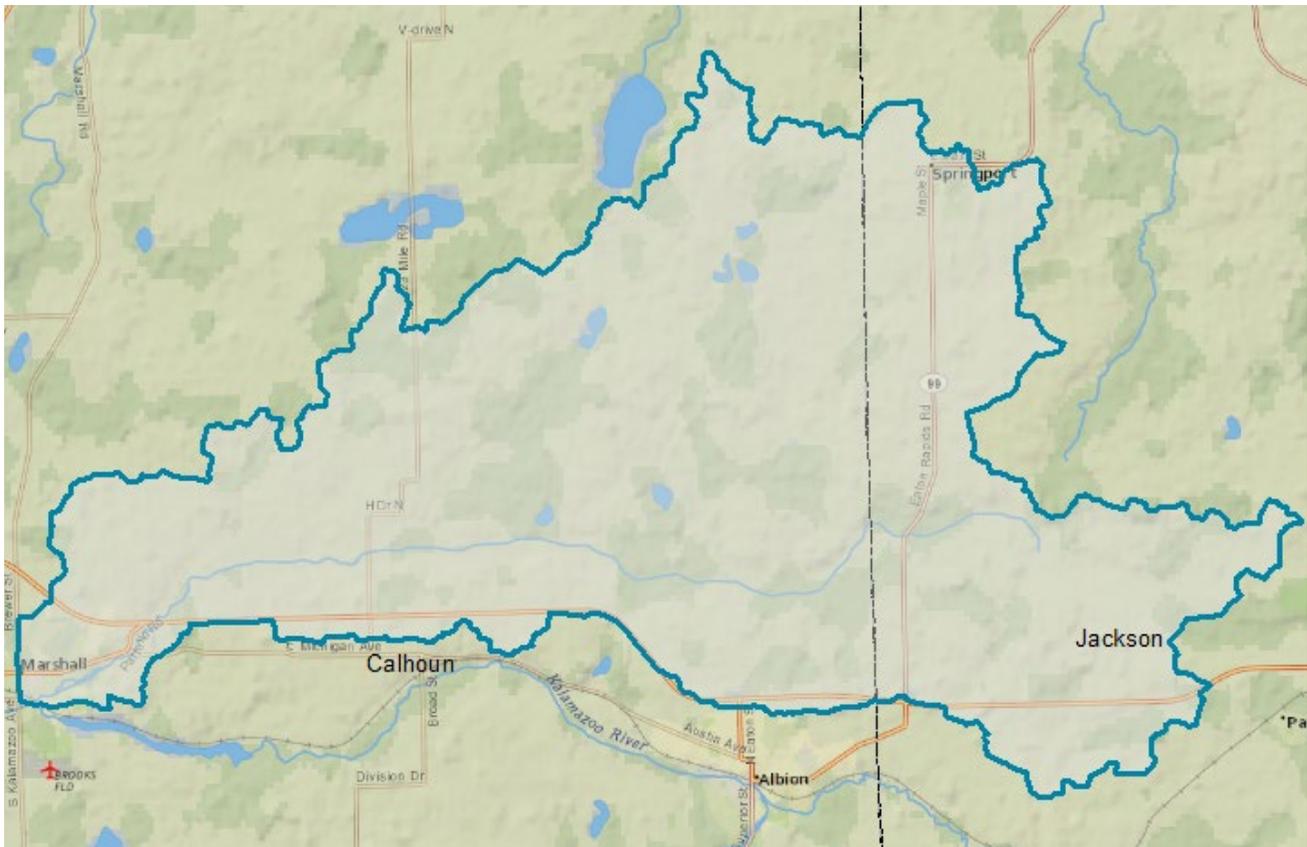
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Allegan County Drain Commission](#)

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## RICE CREEK



The Rice Creek Watershed Management Plan was developed by the Calhoun Conservation District and the Rice Creek Watershed Project Action Committee. The plan received CMI approval in July 2003 and 319 approval in September 2004. The watershed covers 58,200 acres in Jackson and Calhoun Counties. Land cover within the watershed is 63 percent agriculture, 18 percent forest, 9 percent wetland, 5 percent urban and developed land, 4 percent pasture lands, and 1 percent water. Designated uses addressed within the planning area include warmwater fisheries, other indigenous aquatic life and wildlife, and partial and total body contact recreation. Pollutants of concern include nutrients, sediments, E.coli, and temperature.

### EGLE Nonpoint Source Links

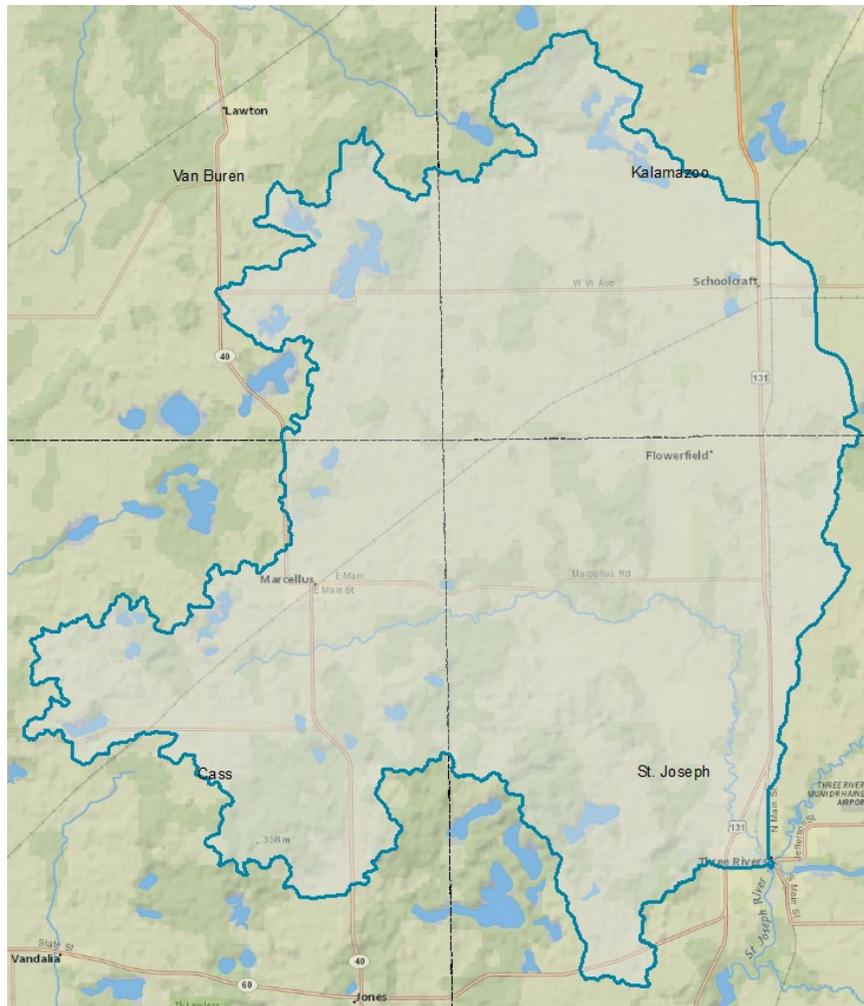
- [Rice Creek Watershed Management Plan](#) (2 MB PDF)

### Watershed Websites

- [Calhoun Conservation District](#)

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## ROCKY RIVER



The Rocky River Watershed Management Plan was prepared by the St. Joseph County Conservation District and was approved as meeting CMI criteria in 2003 and 319 criteria in 2004. The planning area is in portions of Cass, St. Joseph, Van Buren, and Kalamazoo Counties and is approximately 112,100 acres in size. Land cover within the planning area is 64.6 percent agricultural, 21.8 percent forested, 9.9 percent wetland, 2.5 percent water, and 1.1 percent urban. Designated uses addressed within the planning area include navigation, warmwater fisheries, other indigenous aquatic life and wildlife, partial and total body contact recreation. Pollutants of concern include sediment, nutrients, bacteria (*E. coli*), and hydrologic flow.

### EGLE Nonpoint Source Links

- [Rocky River Management Plan](#)

### Watershed Websites

- [St. Joseph Conservation District](#)
- [St. Joe River Watershed](#) (a larger watershed management plan encompassing Rocky River)

## ST. JOSEPH RIVER



The St. Joseph River Watershed Management Plan was developed by the Friends of the St. Joe River Association and was approved as meeting both CMI and section 319 criteria in 2005. The St. Joseph River Watershed planning area is 2,998,400 acres in size and covers portions of Berrien, Branch, Calhoun, Cass, Hillsdale, Kalamazoo, St. Joseph, and Van Buren Counties, Michigan; and DeKalb, Elkhart, Kosciusko, Lagrange, Noble, St. Joseph, and Steuben Counties, Indiana. Land cover in the planning area is 70 percent agricultural, 17 percent forested, 6 percent wetland, 5 percent residential, and 2 percent water. Designated uses addressed within the planning area include agricultural water supply, navigation, warmwater fisheries, coldwater fisheries, other indigenous aquatic wildlife, partial body contact recreation, and total body contact recreation. Pollutants of concern in the watershed include sediment, nutrients, pathogens, pesticides, herbicides, and other toxins.

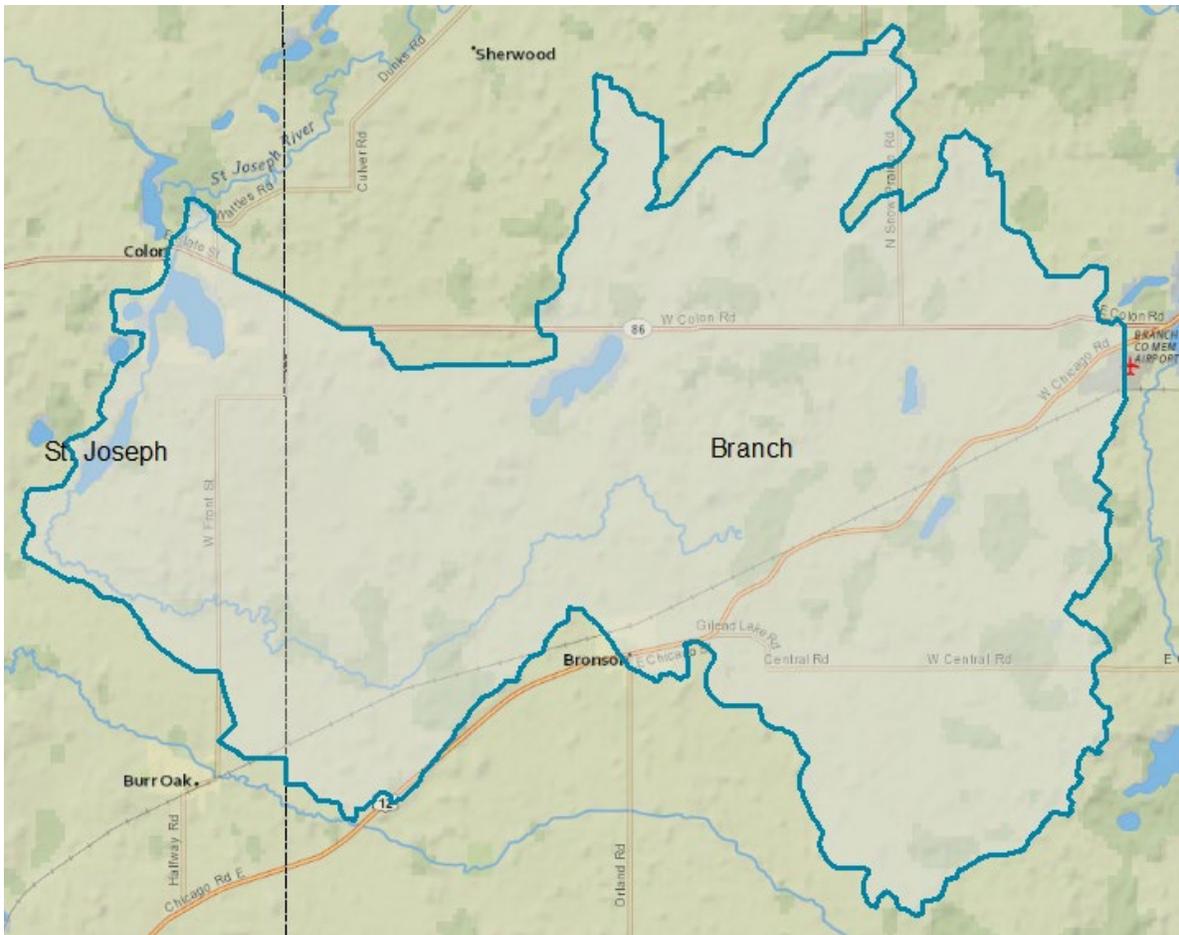
### EGLE Nonpoint Source Links

- [St. Joseph River Watershed Management Plan](#) (11 MB PDF)

### Watershed Websites

- [Friends of the St. Joe River Association](#)

## SWAN CREEK



The Swan Creek Watershed Management Plan is approved as meeting CMI criteria in 2000. The planning area is located in portions of Branch and St. Joseph Counties and is 70,630 acres in size. Land cover within the planning area is 71 percent cropland, 18 percent forested, 5 percent wetland, 3 percent other, 1 percent pastureland, and 1 percent urban. Pollutants of concern within the planning area include sediment and phosphorus.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### **Watershed Websites**

- [St. Joe River Watershed](#) (a larger watershed management plan encompassing Swan Creek)

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## UPPER RABBIT RIVER



The Upper Rabbit River Watershed Management Plan was developed by the Allegan Conservation District and was approved as meeting both CMI and section 319 criteria in 2005. The Upper Rabbit River Watershed planning area is in portions of Allegan, Barry, Ottawa, and Kent Counties. The planning area is 96,500 acres in size. Land cover in the watershed is 44 percent agriculture, 20 percent open, 15 percent forested, 10 percent wetland, 8 percent residential, 2 percent urban, and 1 percent water. Designated uses addressed within the planning area include cold- and warmwater fisheries, and other indigenous aquatic life and wildlife. Pollutants of concern in the watershed include sediment and nutrients.

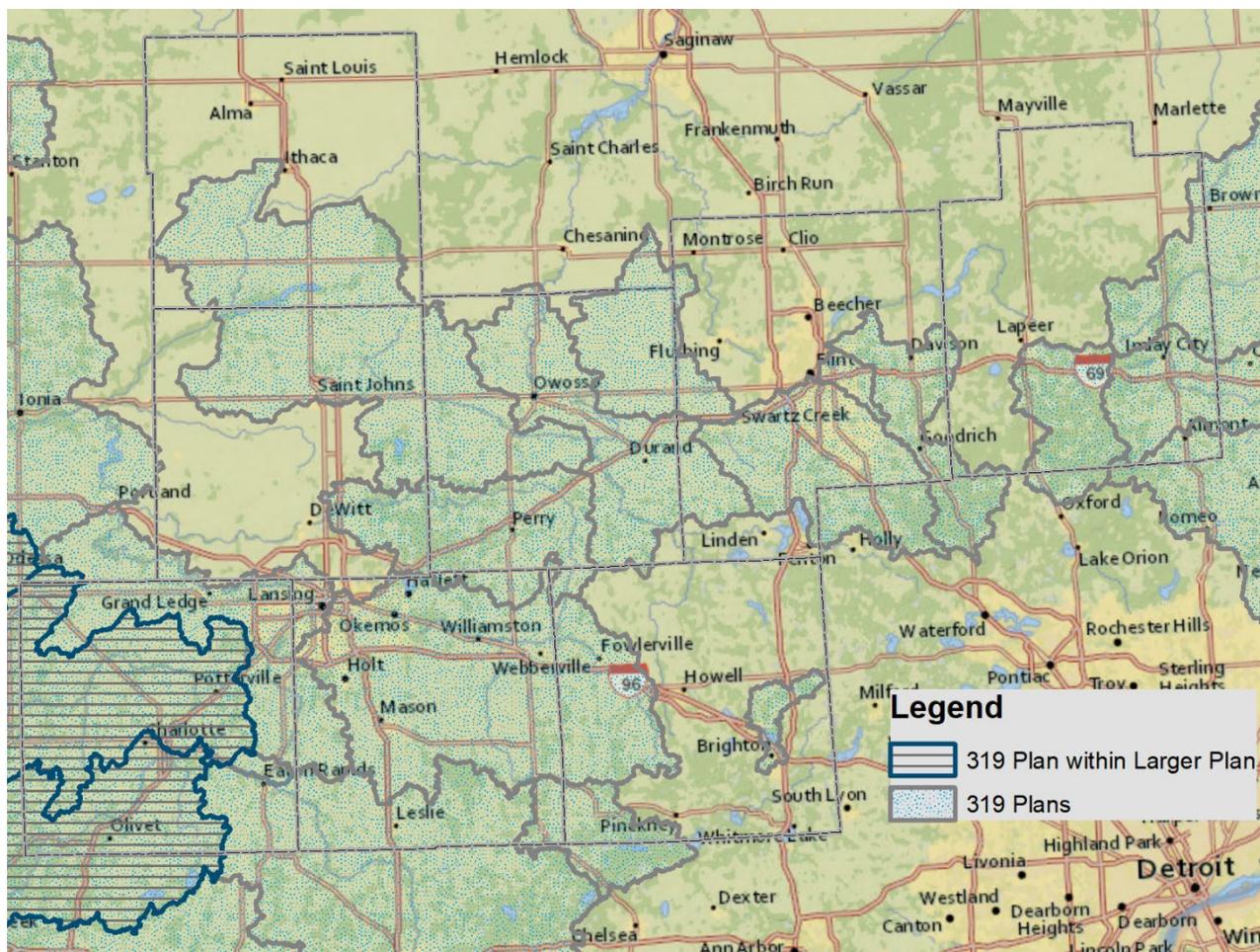
### EGLE Nonpoint Source Links

- [Upper Rabbit River Watershed Management Plan](#) (9 MB PDF)
- [Upper Rabbit River Watershed Management Plan Appendices](#) (3 MB PDF)

### Watershed Websites

- [Allegan County Drain Commission](#)

LANSING DISTRICT 319 WATERSHEDS



CMI and 319 approved
Brighton Lake Subwatershed
Gilkey Creek
Kearsley Creek
Middle Grand River
Mid-Shiawassee River
Red Cedar
South Branch Flint River
Swartz Creek
Upper Looking Glass
Upper Maple
Upper Misteguay

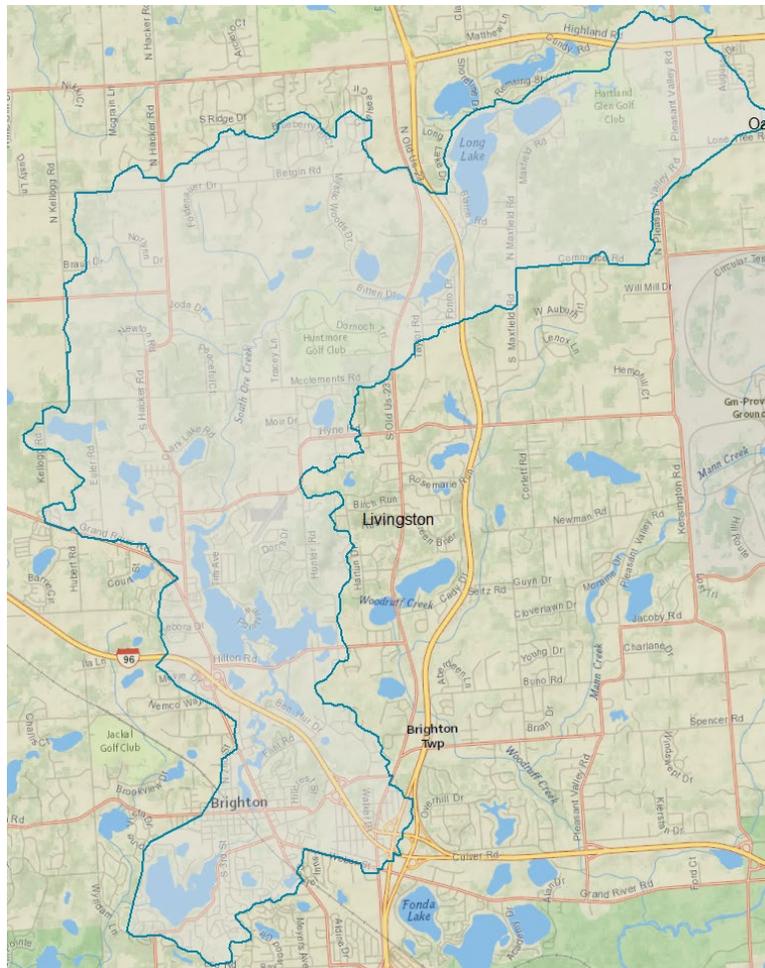
# LANSING DISTRICT CMI WATERSHEDS



CMI approved
Carrier Creek
Huron Chain of Lakes

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## BRIGHTON LAKE SUBWATERSHED



The Brighton Lake Subwatershed Management Plan was prepared by the Brighton Lake Subwatershed Workgroup and was approved as meeting CMI criteria in 2002 and 319 criteria in 2006. The Brighton Lake Subwatershed is 14,730 acres in size and extends from the headwaters of South Ore Creek downstream to the Brighton Lake. The planning area is located in southwestern Livingston County and comprises all or portions of Hartland, Osceola, Genoa, Brighton, and Hamburg Townships, and the city of Brighton. Land cover within the planning area is 23 percent residential, 20 percent grass/shrub, 18 percent wetland, 16 percent agriculture, 9 percent woodland, 7 percent water, 5 percent commercial, and 2 percent public. The designated use addressed within the plan area is other indigenous aquatic life and wildlife. Pollutants identified as impacting water quality are nutrients and sediment.

### EGLE Nonpoint Source Links

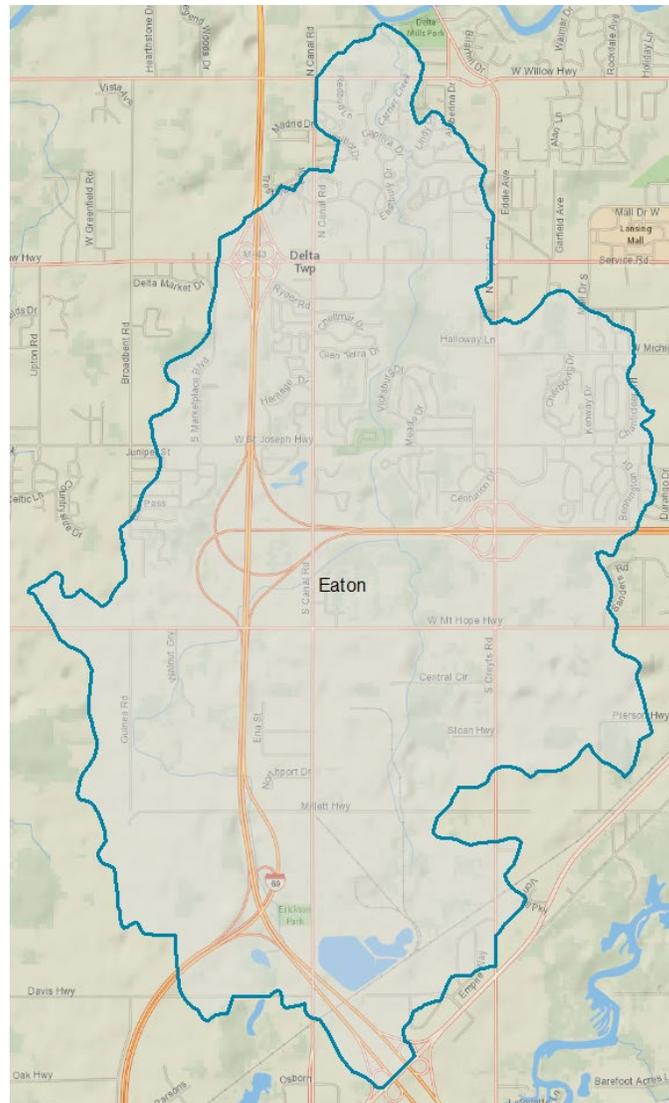
- [Brighton Lake Watershed Management Plan](#)

### Watershed Websites

- [Huron River Watershed Council](#)

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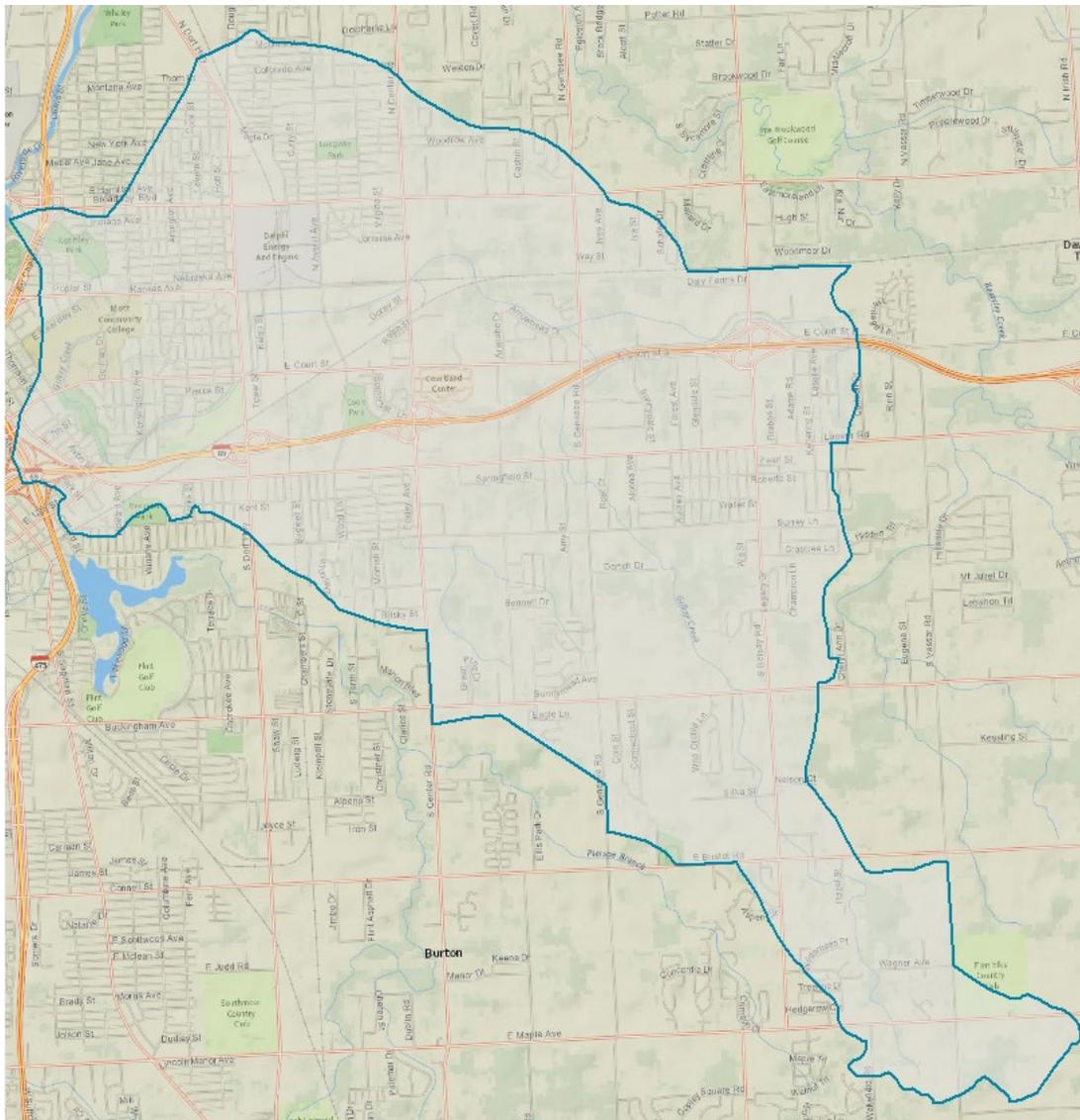
## CARRIER CREEK



The Carrier Creek Watershed Management Plan was approved as meeting CMI criteria in 2000. Carrier Creek is located within Eaton County. It functions as a storm water drain for approximately 11.1 square miles of Delta and Windsor Townships, and the city of Lansing. It is a tributary of the Grand River. The upper portion of the watershed is largely industrial, and the lower portion is mainly residential.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

## GILKEY CREEK



The Gilkey Creek Watershed Management Plan was developed by the Center for Applied Environmental Research and was approved as meeting CMI criteria in 2007 and 319 criteria in 2009. The planning area is 9,600 acres in size within Genesee County. Land cover within the planning area is 63.6 percent developed, 33 percent undeveloped, and 3.3 percent agricultural. Designated uses within the planning area not being met include other indigenous aquatic life and wildlife and warmwater fisheries. Pollutants of concern nutrients, sediment, and temperature.

### EGLE Nonpoint Source Links

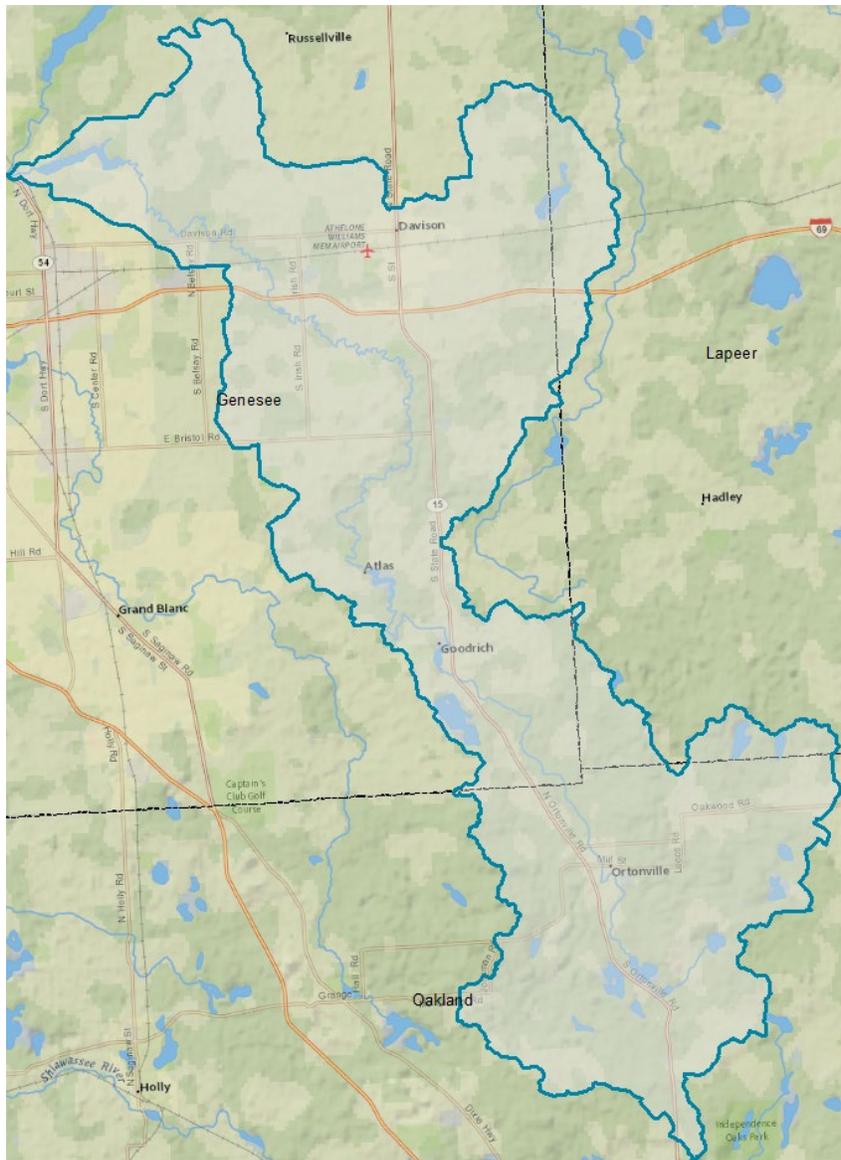
- [Gilkey Creek Watershed Management Plan](#)

### Watershed Websites

- [Flint River Watershed Coalition](#)

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## KEARSLEY CREEK



The Kearsley Creek Watershed Management Plan was developed by the Genesee County Drain Commissioner and was approved as meeting both CMI and 319 criteria in 2006. The Kearsley Creek Watershed planning area is approximately 73,600 acres in size and covers portions of Genesee, Oakland, and Lapeer Counties. Predominant types of land cover within the planning area are open, agricultural and natural lands. There are no impaired designated uses in the watershed. Pollutants of concern are sediment and temperature.

### **EGLE Nonpoint Source Links**

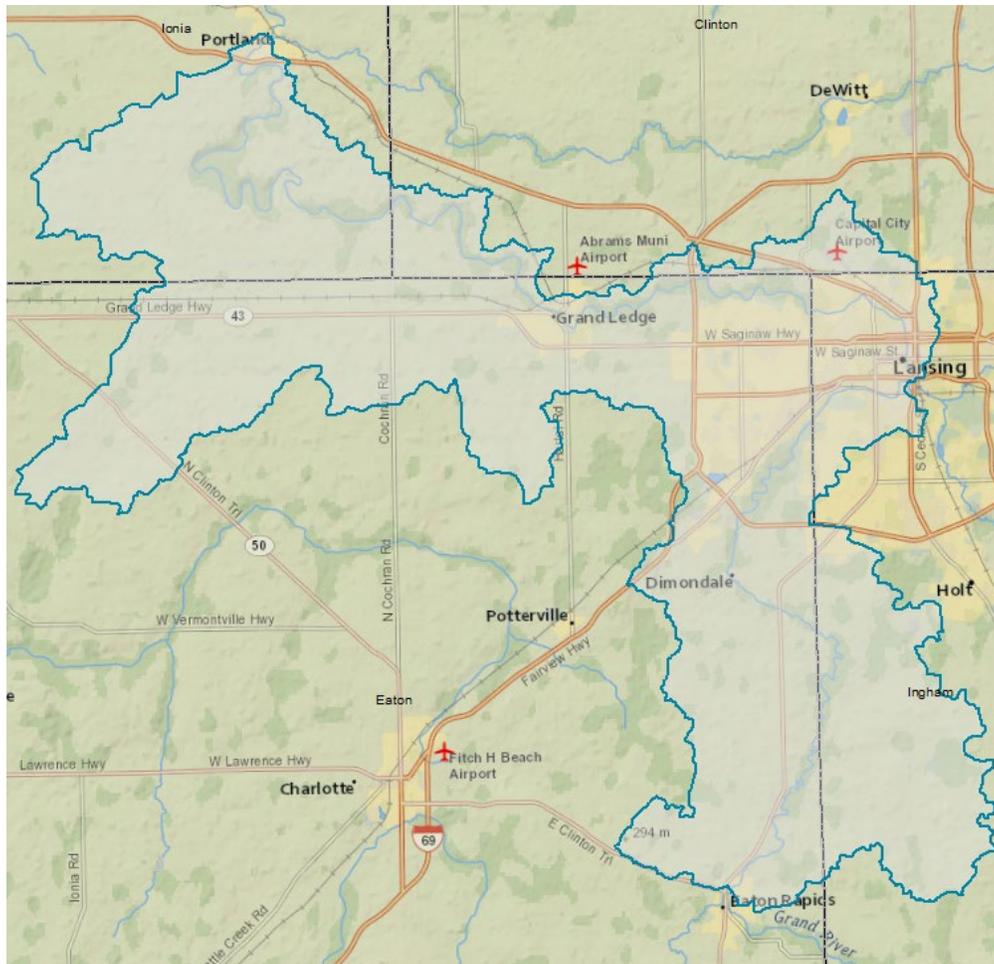
- [Kearsley Creek Watershed Management Plan](#)

### **Watershed Websites**

- [Genesee County Drain Commissioner](#)

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## MIDDLE GRAND RIVER



The Middle Grand River Watershed Management Planning project was developed by the Eaton County Conservation District and was approved as meeting both CMI and section 319 criteria in 2015. The Middle Grand River planning area is 16,920 acres in size. The planning area is located in portions of Eaton, Ingham, Clinton, and Ionia Counties. Land cover in the planning area is 60 percent agricultural production, 16 percent urban, 13 percent forested, 9 percent open, 1 percent water, and 1 percent wetland. Impaired designated uses within the planning area include partial body contact recreation, total body contact recreation, warmwater fisheries, and other indigenous aquatic life and wildlife. The pollutant of concern in the watershed is *E. coli*.

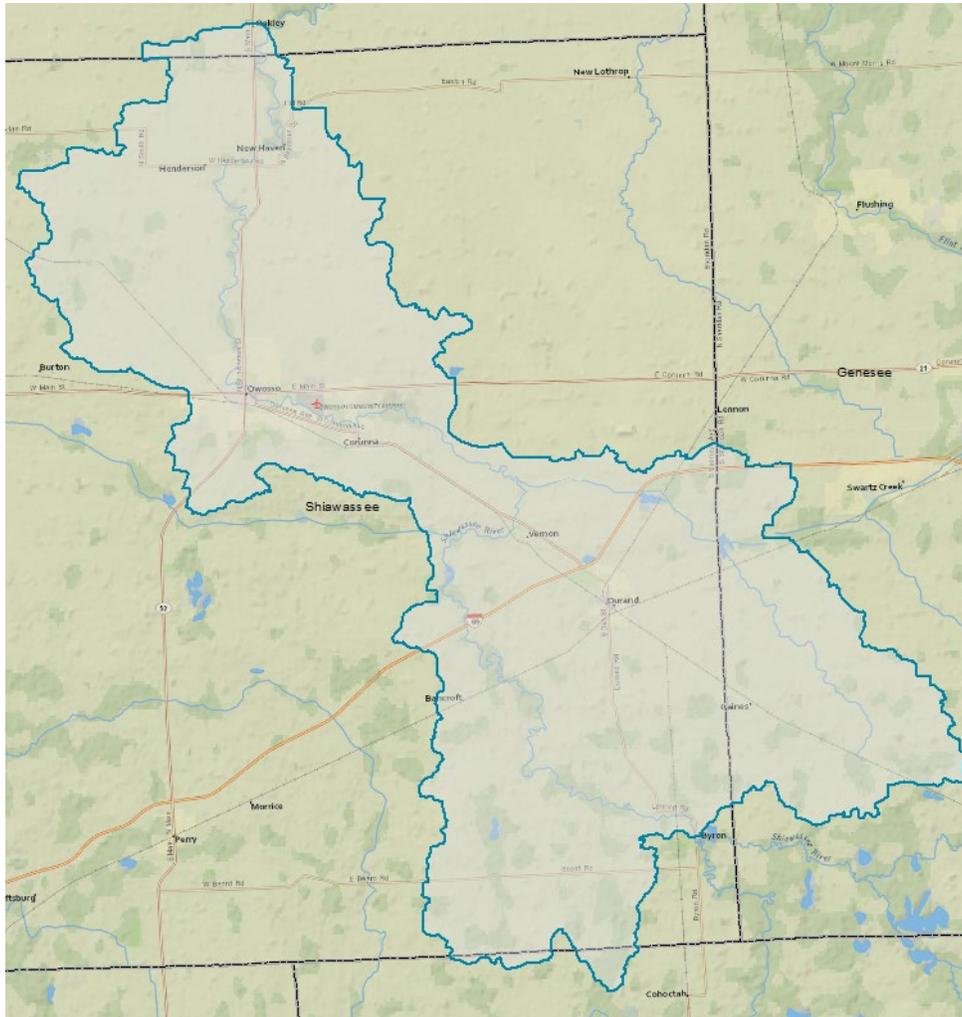
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Eaton Conservation District](#)

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## MID-SHIAWASSEE RIVER



The Mid-Shiawassee River Watershed Management Plan was developed by the Shiawassee Conservation District and has been approved as meeting CMI and 319 criteria. The Mid-Shiawassee River Watershed planning area is 138,178 acres in size and includes the central part of the Shiawassee River Watershed. The planning area is located in portions of Shiawassee, Genesee, Saginaw, and Livingston Counties. Land use within the planning area is 62.1 percent agriculture, 21.3 percent natural areas, 14.4 percent urban areas, and 2.2 percent water and wetland. Designated uses not being met within the planning area include other indigenous aquatic life and wildlife, total body contact, and partial body contact. The Mid-Shiawassee River Watershed Management Plan addresses the sources of sediment and nutrients.

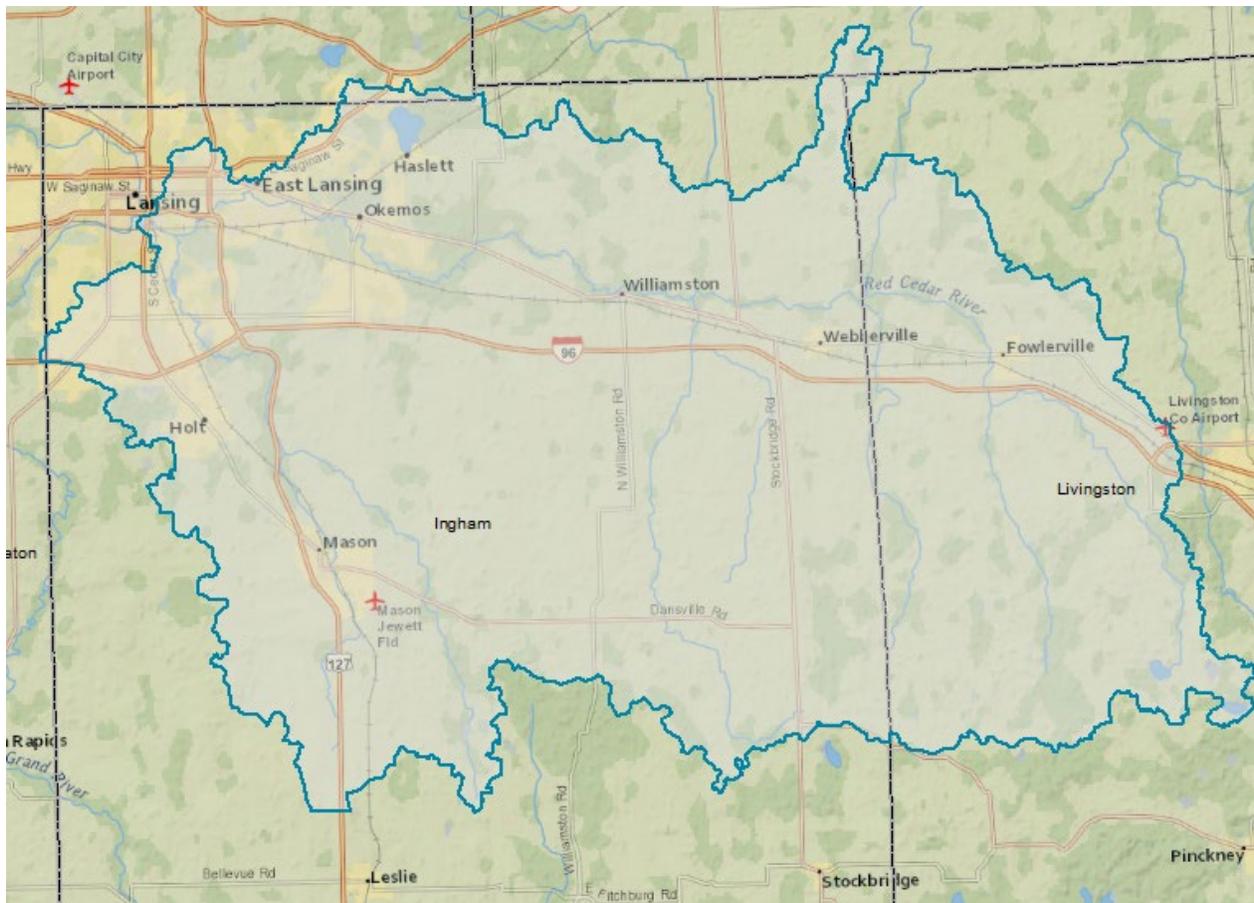
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Shiawassee County Conservation District](#)

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## RED CEDAR RIVER



The Red Cedar River Watershed Management Plan was developed by the Michigan State University Institute of Water Research and received both CMI and 319 approval in 2015. The Red Cedar River planning area is located in Livingston and Ingham Counties. The planning area is approximately 294,496 acres. Land cover is 35 percent agriculture, 23 percent grassland and shrubland, 16 percent wetland, 10 percent forest, 7 percent low-intensity development, 3 percent medium intensity development, 1 percent high-intensity development, and 1 percent open water. Partial body contact and total body contact recreation are impaired due to high *E. coli* levels. The warmwater fishery is impaired due to low dissolved oxygen levels and sedimentation.

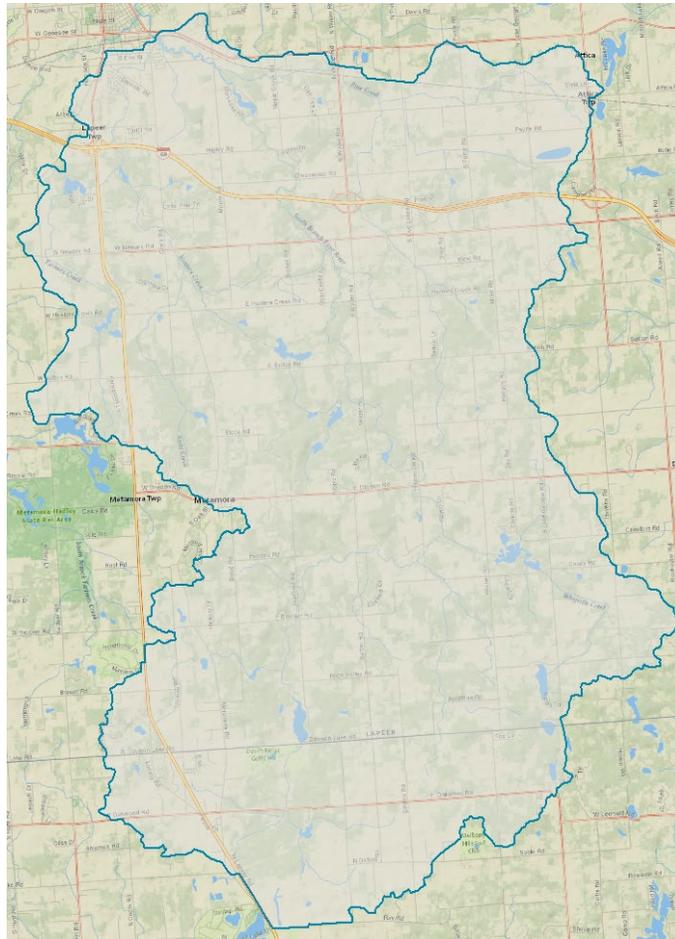
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### **Watershed Websites**

- [Michigan State University Institute of Water Research](#)

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## SOUTH BRANCH FLINT RIVER



The South Branch Flint River Watershed Management Plan was developed by the Regents of The University of Michigan and was approved as meeting both CMI and section 319 in 2007. The planning area is 63,231 acres in size and covers portions of Lapeer and Oakland Counties. Land cover in the planning area is 50 percent agricultural, 16 percent wetland, 5 percent urban. Designated uses addressed within the planning area include warm and coldwater fisheries. The pollutant of concern in the watershed is sediment.

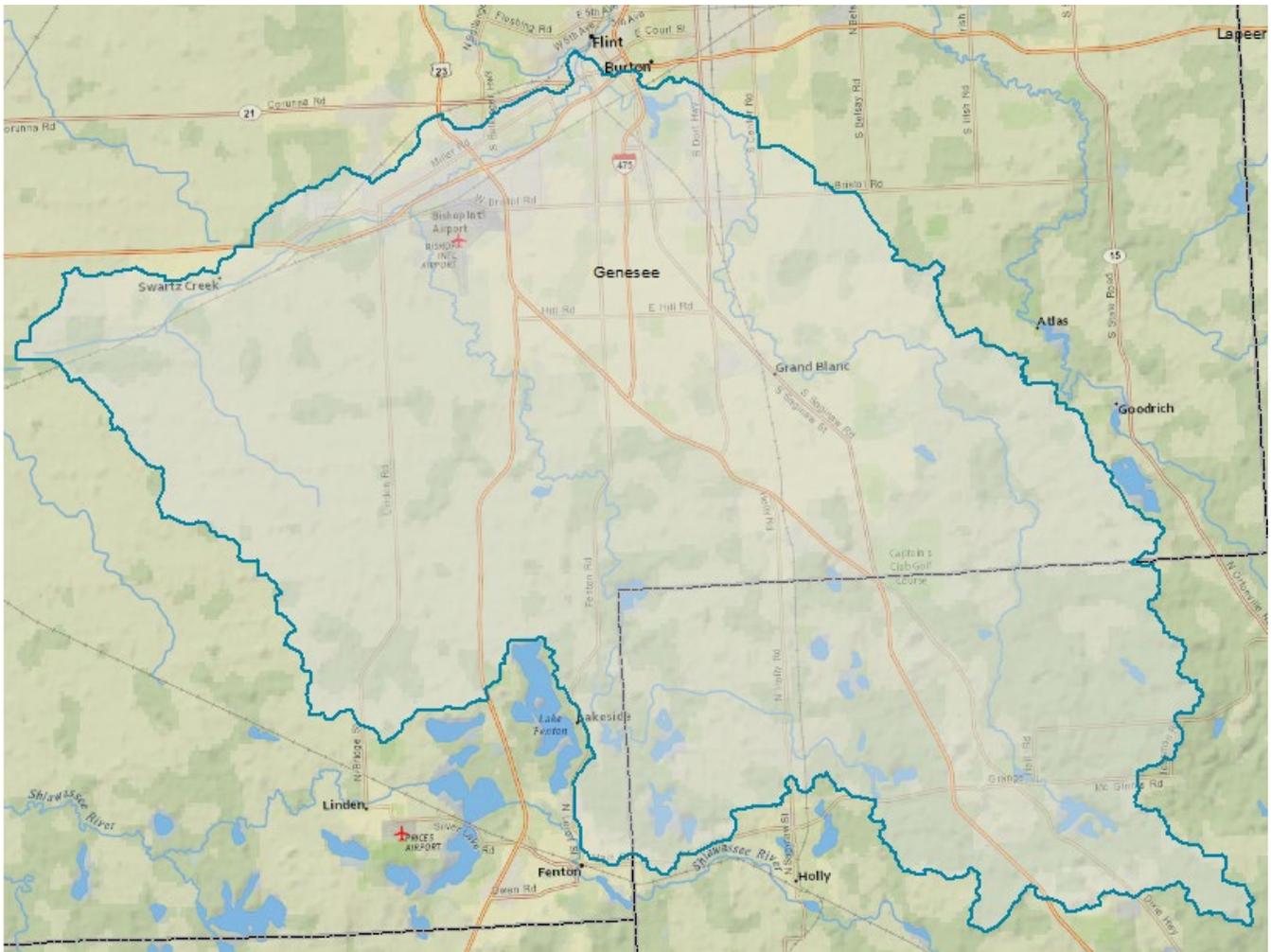
### EGLE Nonpoint Source Links

- [South Branch Flint River Watershed Management Plan](#) (without appendices)
- [South Branch Flint River Watershed Management Plan Appendices 1 through 3](#) (2 MB PDF)
- [South Branch Flint River Watershed Management Plan Appendix 4 part 1](#) (7 MB PDF)
- [South Branch Flint River Watershed Management Plan Appendix 4 part 2](#) (7 MB PDF)
- [South Branch Flint River Watershed Management Plan Appendix 4 part 3](#) (7 MB PDF)
- [South Branch Flint River Watershed Management Plan Appendix 4 part 4](#) (7 MB PDF)
- [South Branch Flint River Watershed Management Plan Appendix 4 part 5](#) (7 MB PDF)
- [South Branch Flint River Watershed Management Plan Appendices 5 through 8](#) (2 MB PDF)

### Watershed Websites

- [Flint River Watershed Coalition](#)

## SWARTZ CREEK



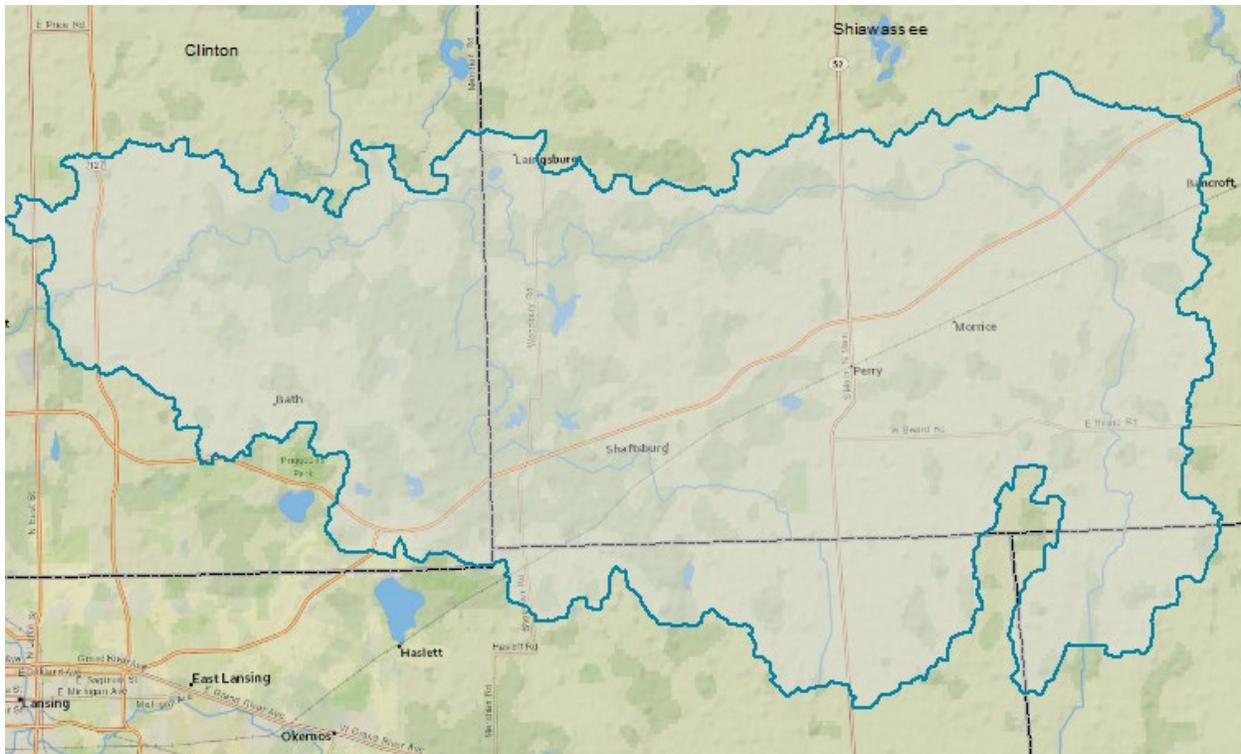
The Swartz Creek Watershed Management Plan was developed by the Center for Applied Environmental Research at the University of Michigan, Flint, and was approved as meeting both CMI and section 319 criteria in 2006. The Swartz Creek Watershed planning area is approximately 82,500 acres in size and covers parts of Genesee and Oakland Counties. Land cover in the planning area is 38 percent agriculture, 18 percent grasses, 15 percent residential, 10 percent forested, 7 percent wetland, 3 percent utilities, 2 percent water, and 2 percent open. Designated uses addressed within the planning area include warmwater fisheries and other indigenous aquatic life and wildlife. Pollutants of concern in the watershed are sediment, nutrients, and pathogens.

### EGLE Nonpoint Source Links

- [Swartz Creek Watershed Plan](#)

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## UPPER LOOKING GLASS RIVER



The Upper Looking Glass River Watershed Management Plan was updated by the Shiawassee Conservation District and received both CMI and 319 approval in 2017. The planning area encompasses 124,725 acres. Land cover within the planning area is 53 percent agriculture, 23 percent wetland, 15 percent forests, 7 percent open lands, and 4 percent urban. There are no impaired designated uses as of the writing of this plan. Priority pollutants of concern include pathogens, nutrients, and sediment.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Shiawassee Conservation District](#)

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## UPPER MISTEGUAY RIVER



The Upper Misteguay Watershed Management Plan was developed by the Shiawassee Conservation District and was approved as meeting CMI and 319 criteria in 2017. The watershed encompasses 85,853 acres and is located within Shiawassee, Genesee, and Saginaw Counties. Land cover within the planning area is 83 percent agriculture, 7 percent forest, 5 percent urban, 2 percent wetland, and 3 percent other. Designated uses addressed by the plan include total and partial body contact, warmwater fisheries, and other indigenous aquatic life and wildlife. Pollutants addressed by the plan are include pathogens, sediment, and nutrients.

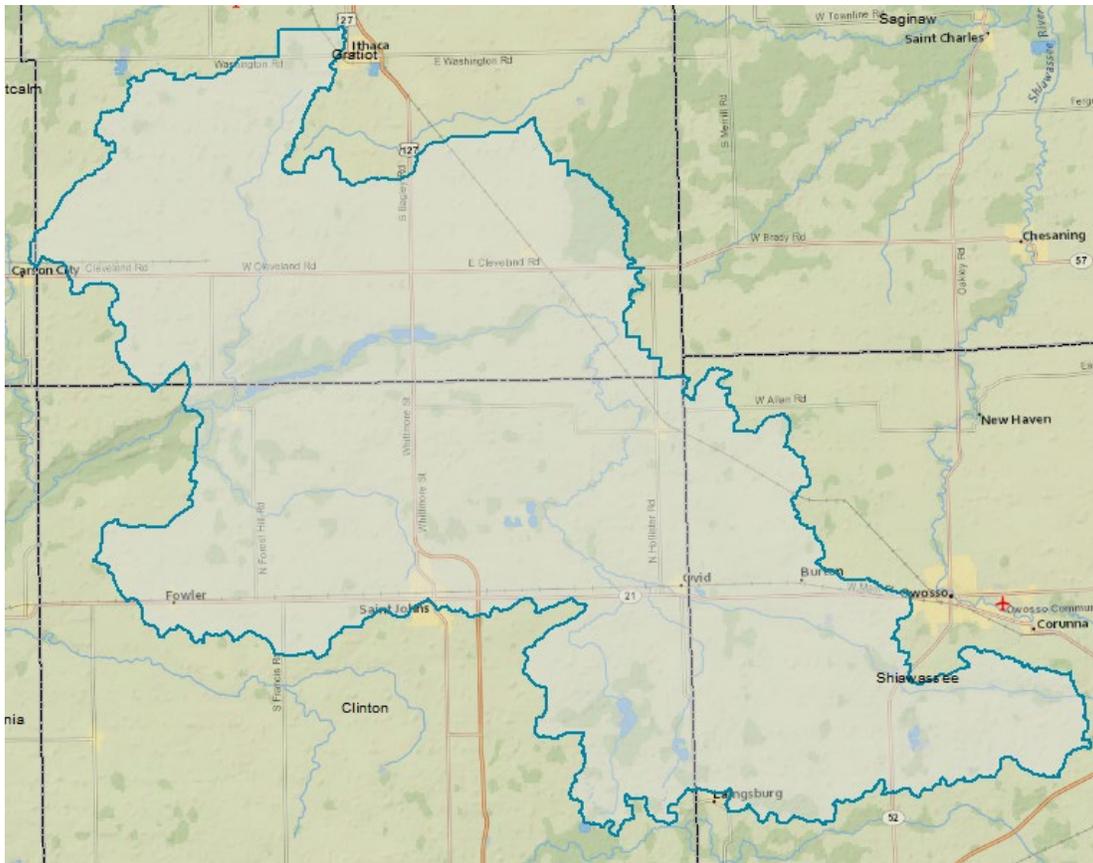
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Shiawassee Conservation District](#)

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## UPPER MAPLE RIVER



The Upper Maple River Watershed Management Plan was developed by the Clinton County Conservation District and was approved as meeting both CMI and section 319 criteria in 2010. The Upper Maple river watershed planning area is 328,320 acres in size and is located in portions of Clinton, Shiawassee, and Gratiot Counties. Land cover in the watershed is 85 percent agriculture, 9 percent forested, 4 percent wetland, 1 percent urban, and 0.8 percent water. Designated uses addressed within the planning area include warmwater fisheries, total body contact recreation, partial body contact recreation, navigation, and other indigenous aquatic life and wildlife. Pollutants of concern in the planning area are nutrients (phosphorus), bacteria, temperature, and sediment loading.

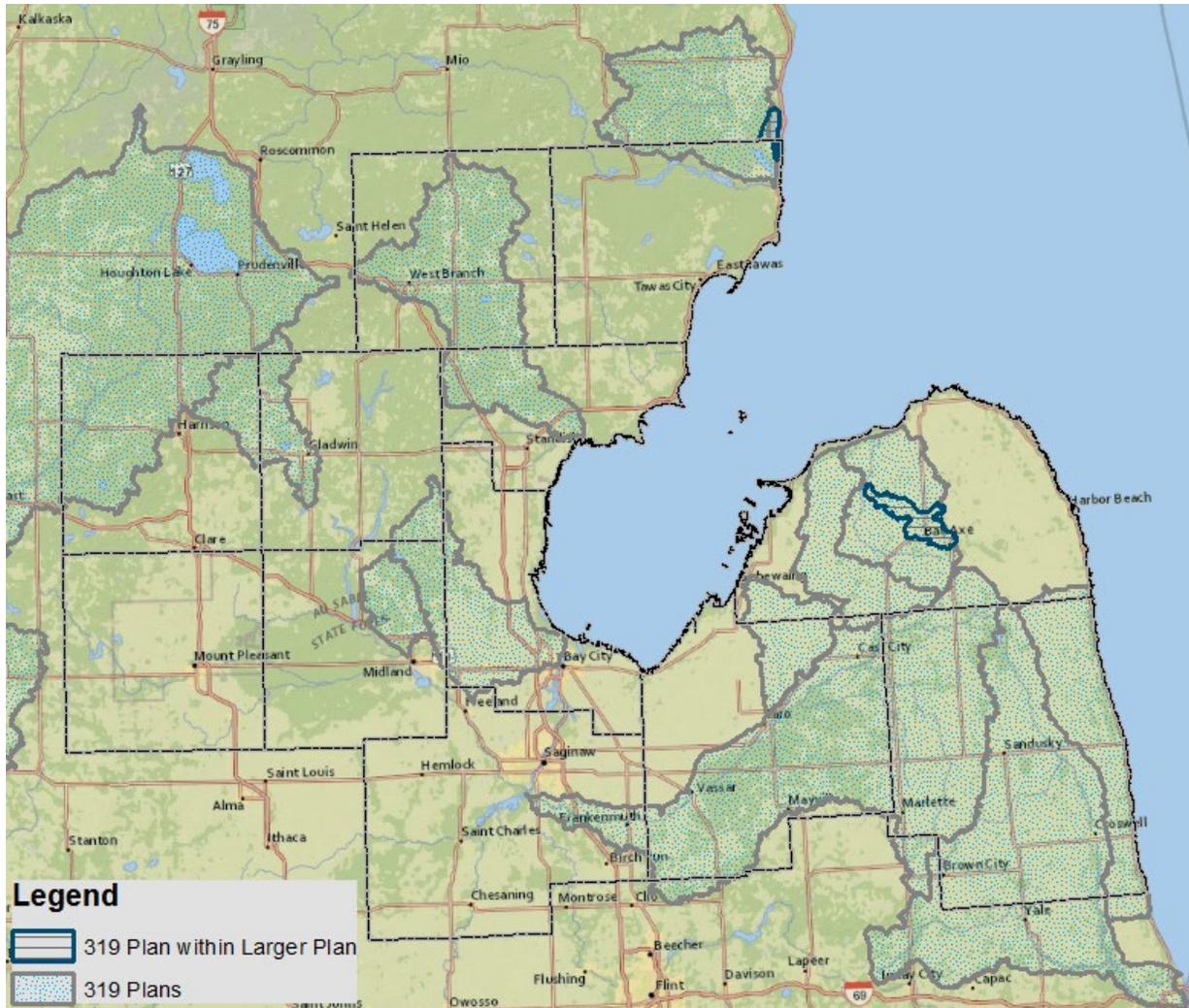
### EGLE Nonpoint Source Links

- [Upper Maple River Watershed Management Plan, without Appendices](#)
- [Upper Maple River Watershed Management Plan, Appendices 1 - 4](#)
- [Upper Maple River Watershed Management Plan, Appendices 5 - 17](#)

### Watershed Websites

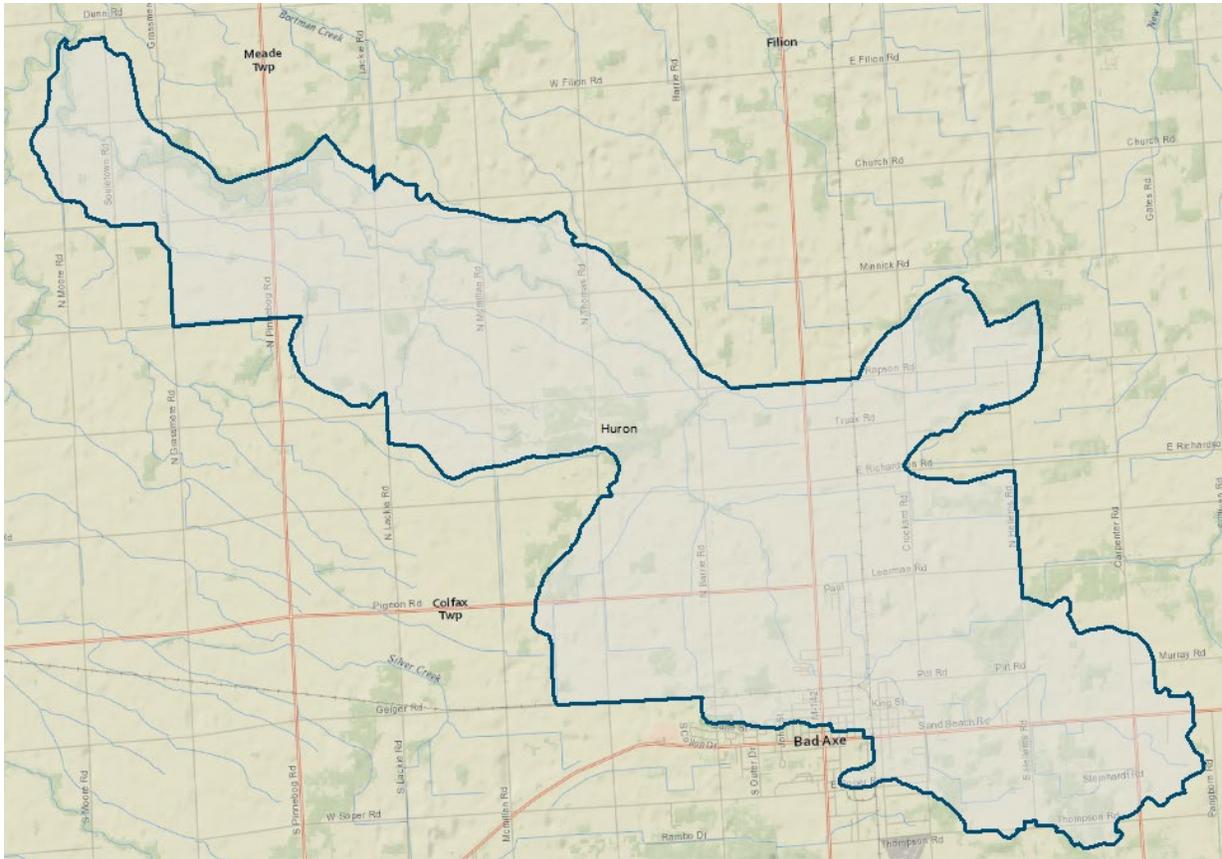
- [Clinton Conservation District](#)

## SAGINAW BAY 319 DISTRICT WATERSHEDS



<b>CMI and 319 approved</b>
Bad Axe
Black River
Cass River
Cedar River (Gladwin County)
Eastern Sanilac Coastal Tributary
Kawkawlin River
Pigeon River
Pinnebog River
Riffle River
Sebewaing River
Sturgeon Creek (Midland County)

## BAD AXE CREEK

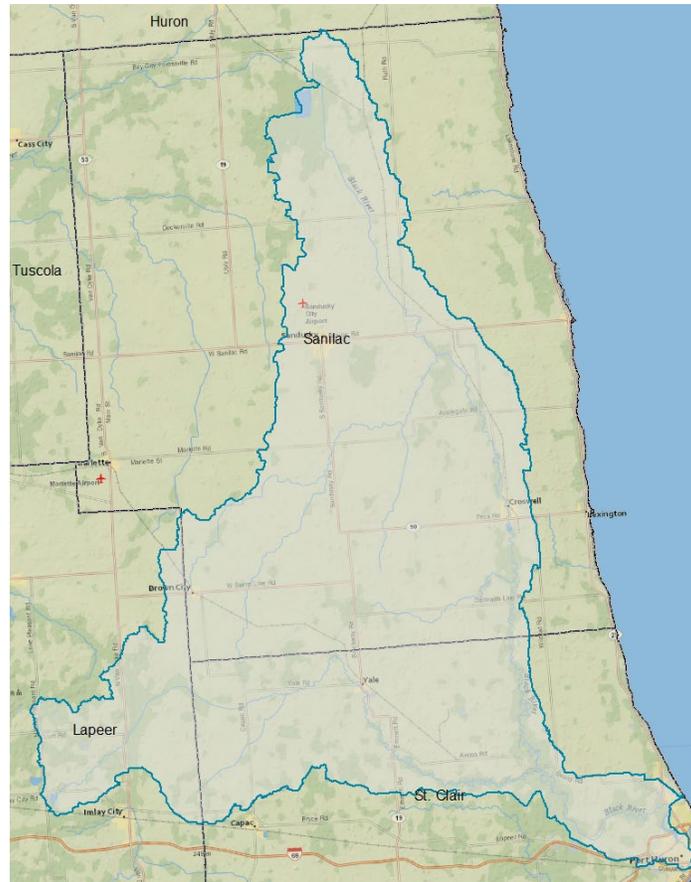


The Bad Axe Creek TMDL and Watershed Implementation Plan for Phosphorus and *E. coli* was developed by Tetra Tech under contract by the Environmental Protection Agency. The plan was approved as meeting CMI and 319 criteria in 2016. The planning area is located in Huron County and is 18,860 acres in size. Bad Axe Creek is part of the Pinnebog River Watershed. Land cover within the planning area is 57 percent agriculture, 13 percent wetlands, 10 percent developed open, 7 percent forest, 7 percent low intensity developed, 2 percent medium intensity developed, 1 percent open water, 1 percent high intensity developed, 1 percent grassland/herbaceous, and 1 percent barren land. Impaired designated use with the planning area are total and partial body contact recreation and other indigenous aquatic life and wildlife. Pollutants addressed by the plan are *E. coli* and phosphorus.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area](#) or the [NPS Program Watershed Planning Coordinator](#).*

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## BLACK RIVER



The Black River Watershed Management Plan was developed by the Sanilac Conservation District and was approved as meeting both CMI and 319 criteria in 2010. The Black River Watershed encompasses 457,475 acres within Lapeer, Sanilac, and St. Clair Counties. The primary land cover within the planning area is agricultural, 67 percent. Designated uses addressed within the planning area include warmwater fisheries, other indigenous aquatic life and wildlife, and partial and total body recreational contact. The Black River Watershed Management Plan addresses the sources of sediment, nutrients, elevated dissolved solids, *E. coli*, and temperature.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Sanilac Conservation District](#)

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## CASS RIVER



The Cass River Watershed Management Plan was prepared by Saginaw Bay Resource Conservation & Development and was approved as meeting CMI and 319 criteria in 2014. The Cass River planning area is located in portions of Sanilac, Tuscola, Saginaw, Genesee, Huron, and Lapeer Counties. The watershed is 581,119 acres in size. The predominant land cover within the planning area is 59 percent agricultural and 36 percent natural lands. Designated uses addressed within the planning area include total and partial body contact recreation and other indigenous aquatic life and wildlife. The Cass River Watershed Management Plan addresses the sources of sediment, nutrients, and bacteria pollution.

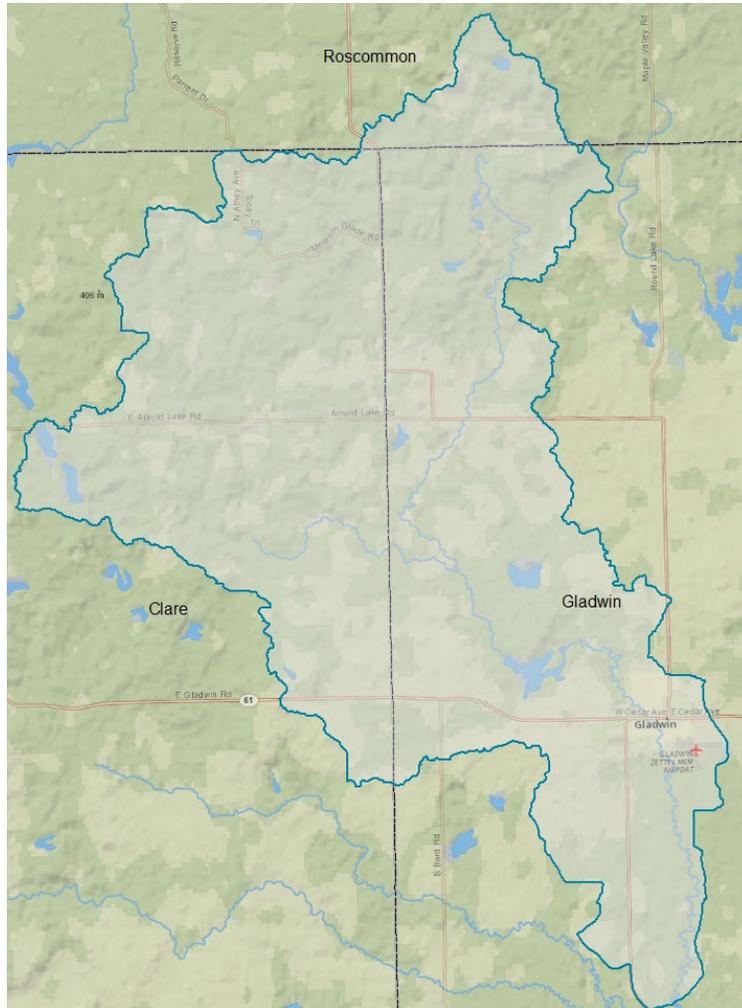
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Saginaw Bay Resource Conservation & Development](#)

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## CEDAR RIVER (GLADWIN COUNTY)

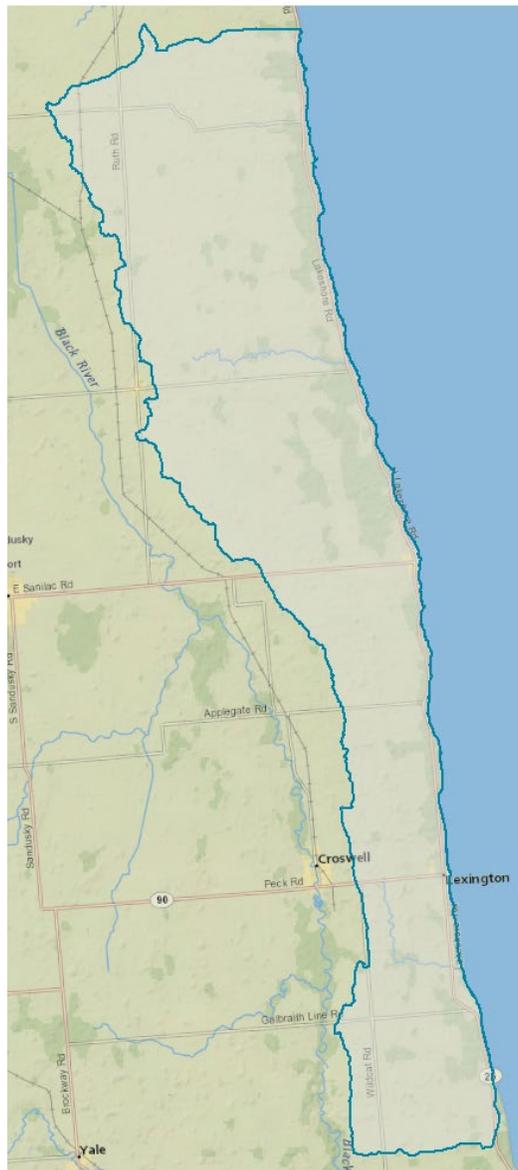


The Cedar River Watershed Management Plan was created by the Gladwin Conservation District and was approved as meeting CMI and 319 criteria in 2011. The Cedar River Watershed lies within Clare, Gladwin, and Roscommon Counties and is approximately 92,800 acres in size. Land cover within the planning area is 49 percent forested, 15 percent wetland, 10 percent natural grasses, 9 percent cultivated crops, 9 percent pasture/hay, 6 percent urban, and 2 percent open water. Impaired designated uses within the planning area include partial and total body contact. Pollutants of concern in the planning area are *E. coli*, nutrients, sediment, and hydrologic flow.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Gladwin Conservation District](#)



The Sanilac County Lakeshore Watershed Management Plan was prepared by the Sanilac County Conservation District and was approved as meeting CMI criteria in 2003. The Sanilac County Lakeshore planning area is in portions of Sanilac, Huron, and St. Clair Counties. The planning area is 114,560 acres in size. Land cover within the planning area is 80 percent agricultural, 10 percent forested or wetland, and 6 percent residential and commercial. The plan addresses total and partial body contact recreation. Pollutants of concern are *E. coli*, sediment, and nutrients.

#### **EGLE Nonpoint Source Links**

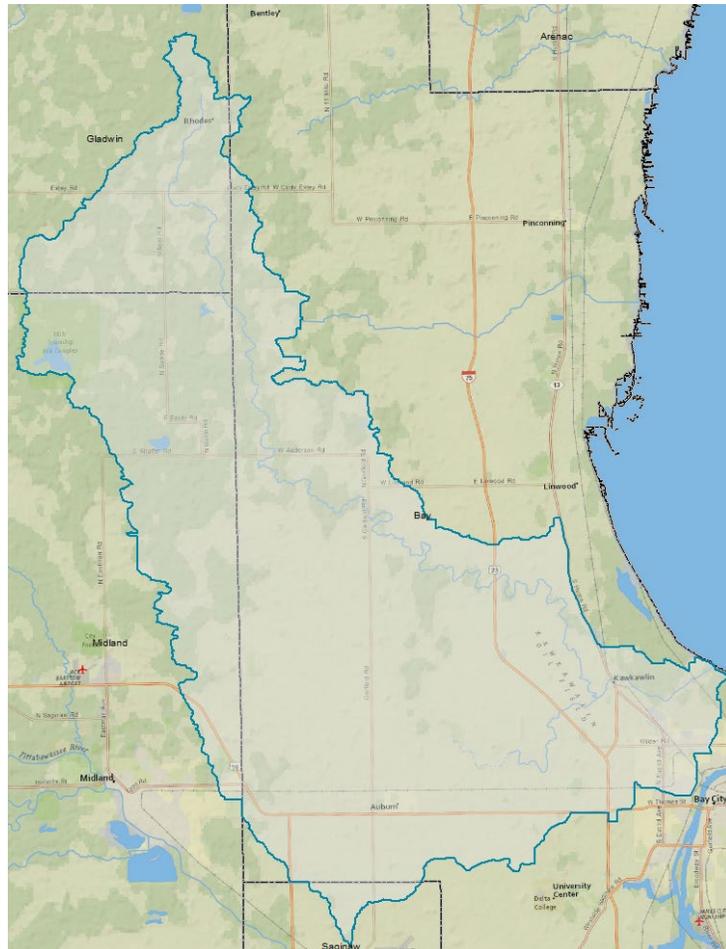
- [Sanilac County Lakeshore Management Plan](#)

#### **Watershed Websites**

- [Sanilac County Conservation District](#)

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## KAWKAWLIN RIVER



The Kawkawlin River Watershed Management Plan was developed by the Bay County Drain Commissioner's office and was approved as meeting both CMI and section 319 criteria in 2011. The Kawkawlin River Watershed planning area is 144,000 acres in size and covers parts of Bay, Midland, Gladwin, and Saginaw Counties. Land cover in the planning area is 58 percent agricultural production, 23.5 percent forested, 7.5 percent urban, 5.5 percent open, 4.5 percent wetland, and 0.2 percent water. Impaired designated uses in the watershed include other indigenous aquatic life and wildlife, total and partial body contact recreation, and warmwater fisheries. Pollutants of concern in the watershed are bacteria (*E. coli*), sediment, and low dissolved oxygen.

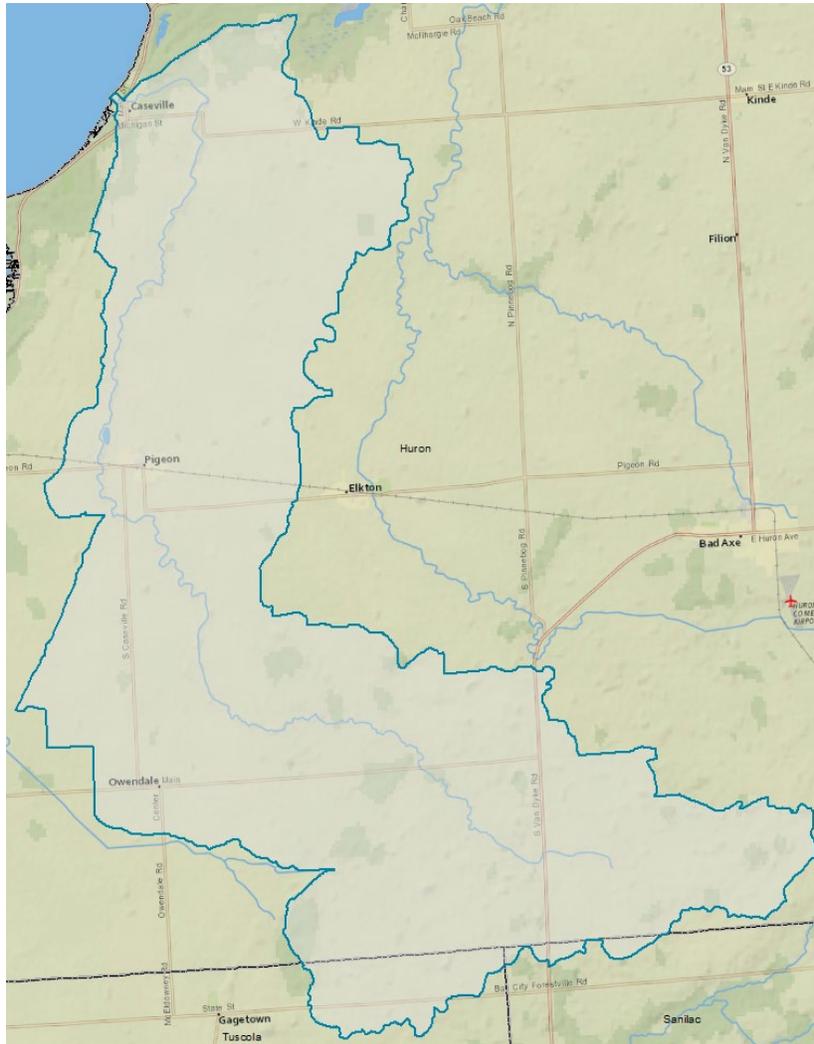
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Bay County Drain Commissioner](#)

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## PIGEON RIVER



The Pigeon River Watershed Management Plan was developed by the Huron Conservation District and was approved as meeting both CMI and section 319 criteria in 2010. The Pigeon River Watershed planning area covers 92,799 acres in Huron, Tuscola, and Sanilac Counties. Land cover in the planning area is 89 percent agricultural, 6 percent forested, 4.5 percent wetland, and 0.5 percent urban. There are no impaired designated uses in the Pigeon River Watershed planning area. Pollutants of concern are sediments, nutrients, pathogens, pesticides, and pharmaceuticals.

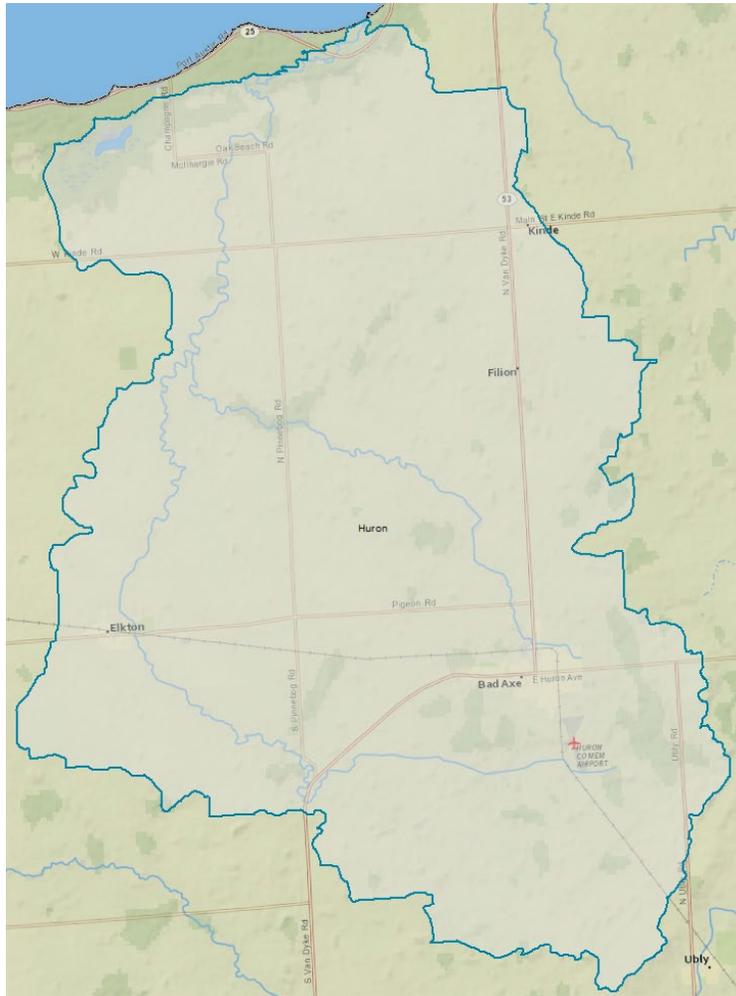
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Huron Conservation District](#)

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## PINNEBOG RIVER



The Pinnebog River Watershed Management Plan was prepared by Fishbeck, Thompson, Carr & Huber, Inc., for the Huron Conservation District and was approved as meeting CMI criteria in 2007 and 319 criteria in 2008. The Pinnebog River planning area is 124,800 acres in size and is in Huron County. Land cover in the planning area is 82 percent agricultural, 10 percent forested, 3 percent wetland, 3 percent rangeland, and 2 percent urban and built-up land. Designated uses addressed within the planning area include total and partial body contact recreation, other indigenous aquatic life and wildlife, warmwater fisheries, and navigation. Pollutants of concern include sediment, nutrients, pathogens (*E. coli*), pesticides, pharmaceuticals, and trash and debris.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### **Watershed Websites**

- [Huron County Conservation District](#)

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## RIFLE RIVER



The Rifle River Watershed Management Plan was prepared by Huron Pines. The plan was approved as meeting CMI criteria and 319 criteria in 2015. The planning area is located in portions of Ogemaw and Arenac Counties and covers 253,440 acres. Land cover within the planning area is 48 percent forest, 21 percent agricultural, 11 percent wetland, and 3 percent urban. There are no impaired designated uses in the planning area. Pollutants of concern include sediment, nutrients, pathogens, pesticides, and chemicals.

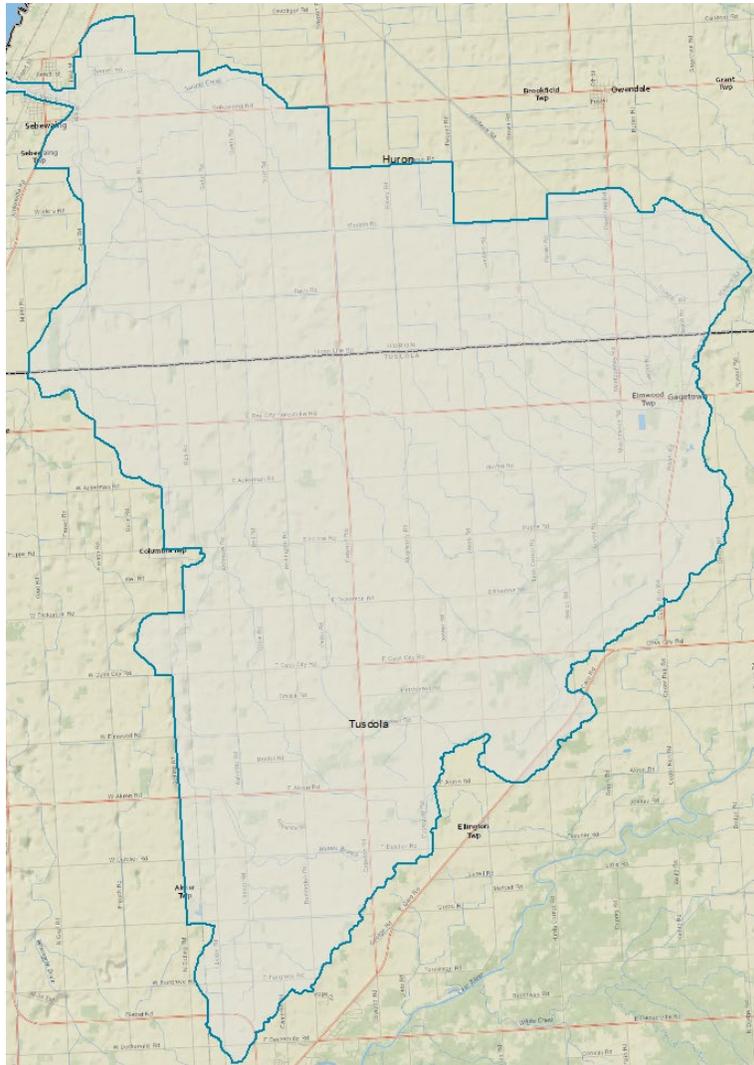
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Rifle River Management Plan Summary](#)
- [Huron Pines](#)

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## SEBEWAING RIVER



The Sebewaing River Watershed Management Plan was developed by the Huron and Tuscola County Conservation Districts and was approved as meeting both CMI and section 319 criteria in 2007. The Sebewaing River Watershed planning area is approximately 66,000 acres in size and covers portions of Huron and Tuscola Counties. Land cover in the planning area is predominantly agriculture, 92 percent. Designated uses addressed within the planning area include agriculture and other indigenous aquatic life and wildlife. Pollutants of concern in the watershed are sediments, nutrients, pesticides, and pathogens.

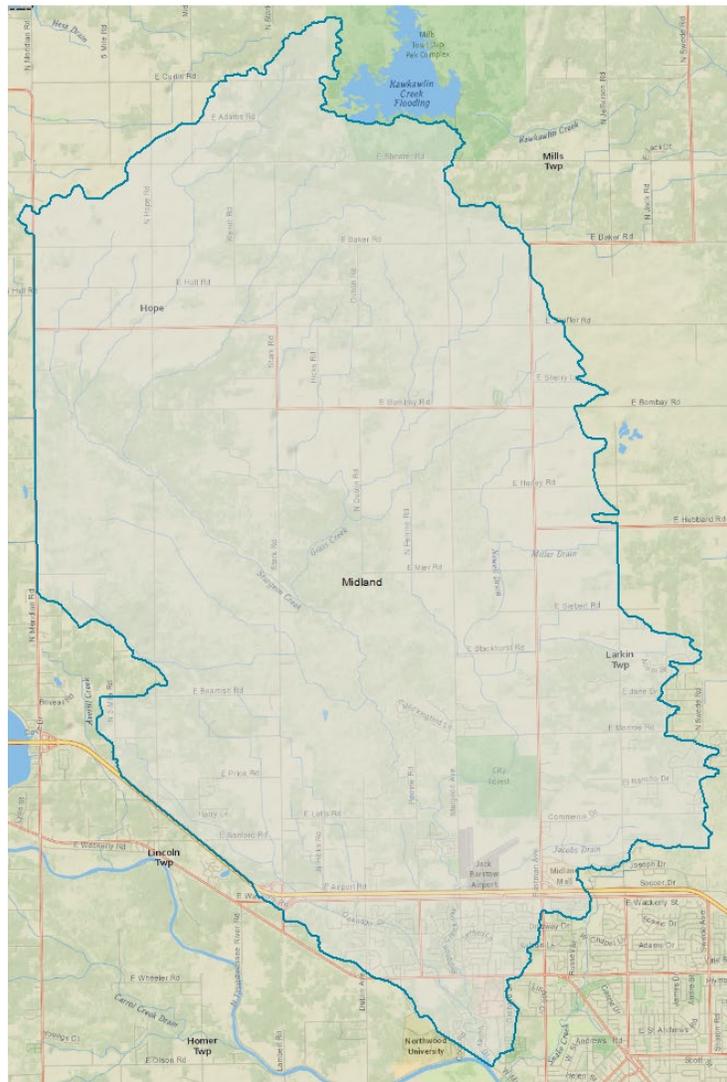
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Huron Conservation District](#)
- [Tuscola Conservation District](#)

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## STURGEON CREEK (MIDLAND COUNTY)



The Sturgeon Creek Watershed Management Plan was developed by the Midland County Conservation District and was approved as meeting both CMI and section 319 criteria in 2007. The Sturgeon Creek Watershed planning area is 40,862 acres in size and lies entirely within Midland County. Land cover within the planning area is 37 percent agricultural, 33 percent forested, 26 percent wetland, 3 percent urban and 1 percent water. Designated uses addressed within the planning area include warm- and coldwater fisheries, other indigenous aquatic life and wildlife, and partial and total body contact recreation. Pollutants of concern in the watershed are sediment, nutrients, and pathogens.

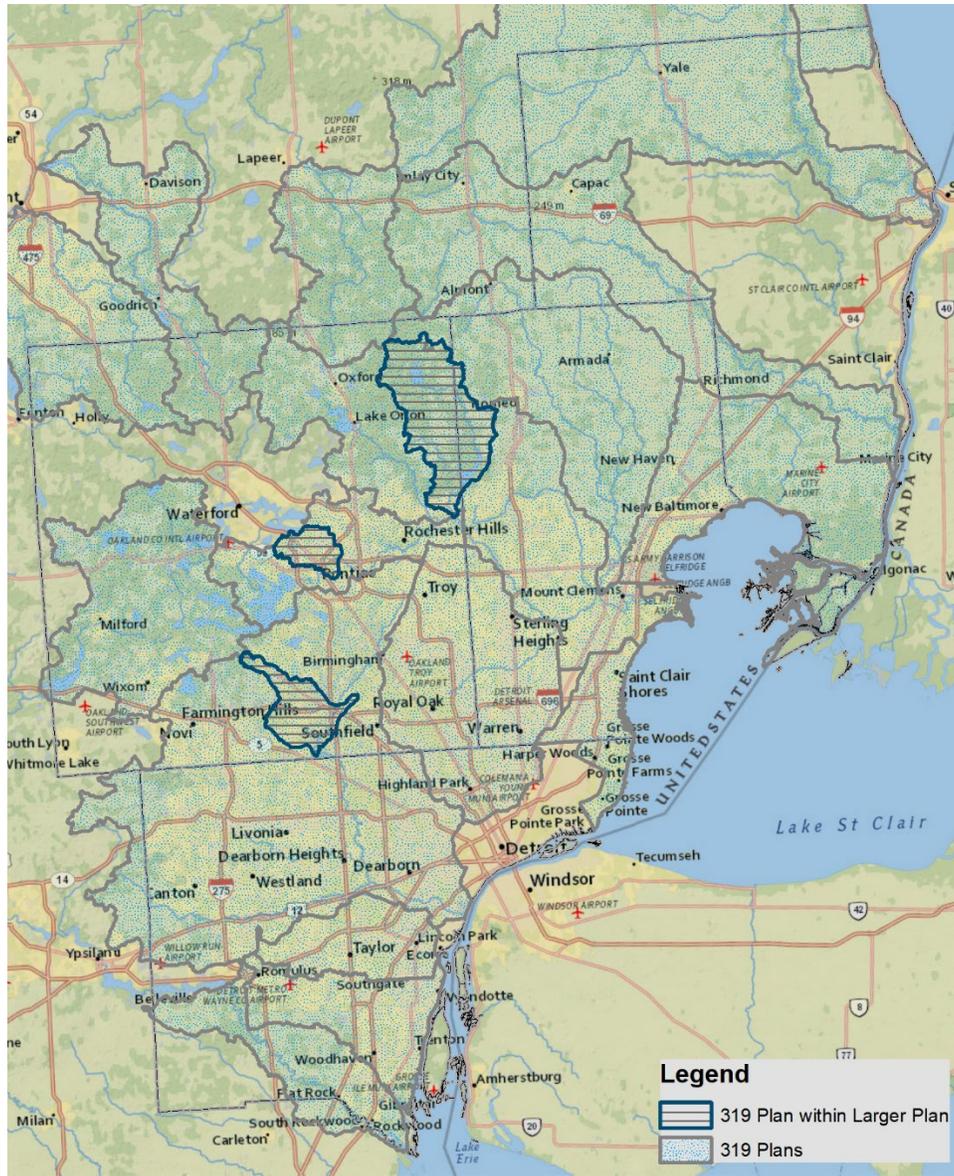
### EGLE Nonpoint Source Links

- [Sturgeon Creek Watershed Management Plan](#) (2 MB PDF)
- [Sturgeon Creek Watershed Management Plan Figures](#) (4 MB PDF)
- [Sturgeon Creek Watershed Management Plan Appendices](#) (6 MB PDF)

### Watershed Websites

- [Midland County Conservation District](#)

WARREN DISTRICT 319 WATERSHEDS



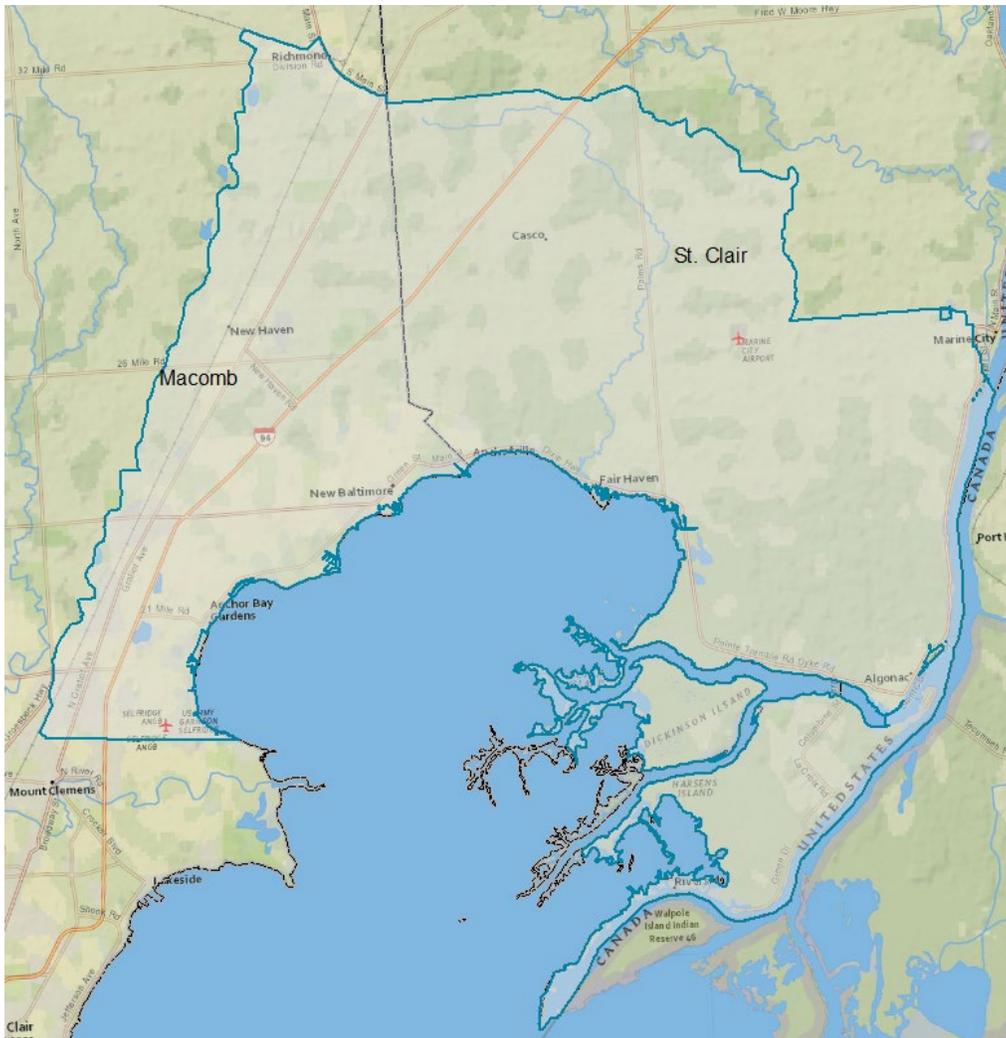
<b>CMI and 319 approved</b>	
Anchor Bay	Lake St. Clair
Belle River	Lower Huron
Brighton Lake Subwatershed	Pebble Creek
Clinton River East Watershed	Pontiac Creek
Clinton River Main Watershed	Red Run Watershed
Clinton River North Branch	Rouge River
Combined Downriver	Stony Creek (Oakland Co.)
Ecorse Creek	Stony/Paint Creek
Kent Lake Watershed	Swartz Creek

WARREN DISTRICT CMI WATERSHEDS



<b>CMI approved</b>
Bear Creek (Oakland County)
Huron Chain of Lakes
St. Clair County's NE Watersheds

## ANCHOR BAY



The Anchor Bay Watershed Management Plan was developed by the Anchor Bay Technical Committee. The plan received CMI approval in 2003 and 319 approval in 2006. The planning area is located in St. Clair and Macomb Counties and encompasses 109,440 acres. Dominant land uses within the planning area include cropland, grassland and shrubs, single family residential, forest, and wetland. Designated uses addressed within the planning area include partial body contact, total body contact, other indigenous aquatic life and wildlife, and warmwater fisheries. The plan addresses nutrients and sediment. Sources of pollutant include industrial discharge and runoff from urban, agricultural, and residential areas within the watershed.

### EGLE Nonpoint Source Links

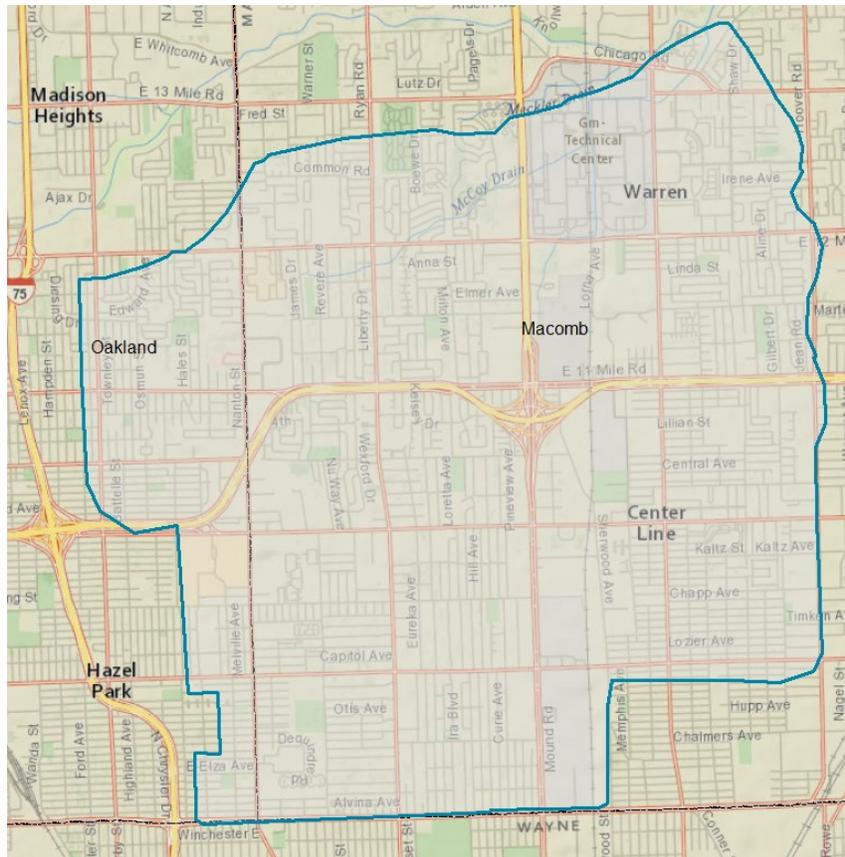
- [Anchor Bay Watershed Management Plan](#) (2 MB PDF)
- [Anchor Bay Watershed Management Plan Appendices](#) (5 MB PDF)
- [Anchor Bay Watershed Management Plan Technical Report](#) (7 MB PDF)
- [Anchor Bay Watershed Management Plan Technical Report Appendices](#) (7 MB PDF)

### Watershed Websites

- [St. Clair County - Anchor Bay](#)

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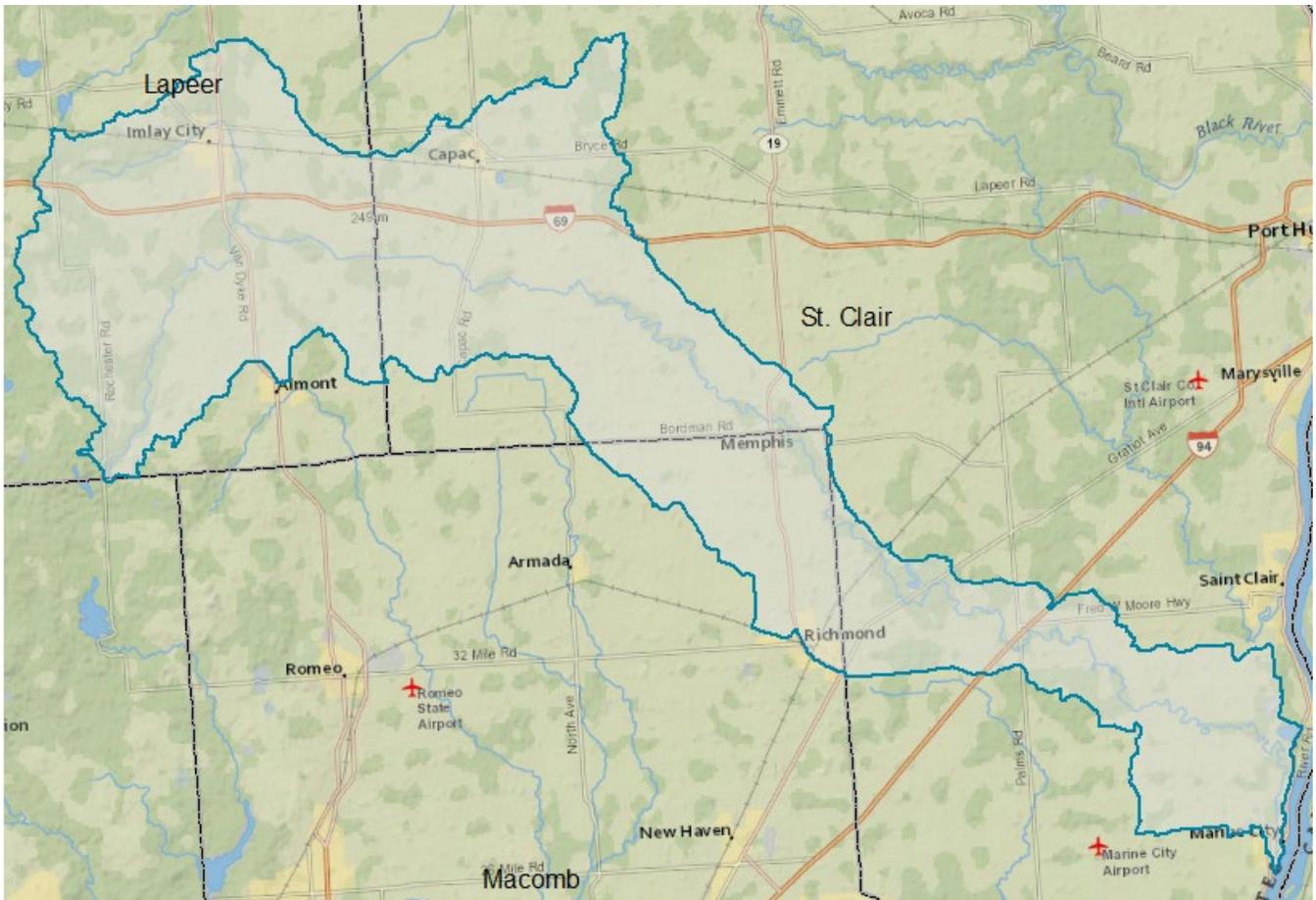
## BEAR CREEK (OAKLAND COUNTY)



The Bear Creek Watershed Management Plan was approved as meeting CMI criteria in 2000. The planning area is within Macomb and Oakland County and is 13,782 acres in size. The watershed is predominantly commercial and industrial.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

## BELLE RIVER

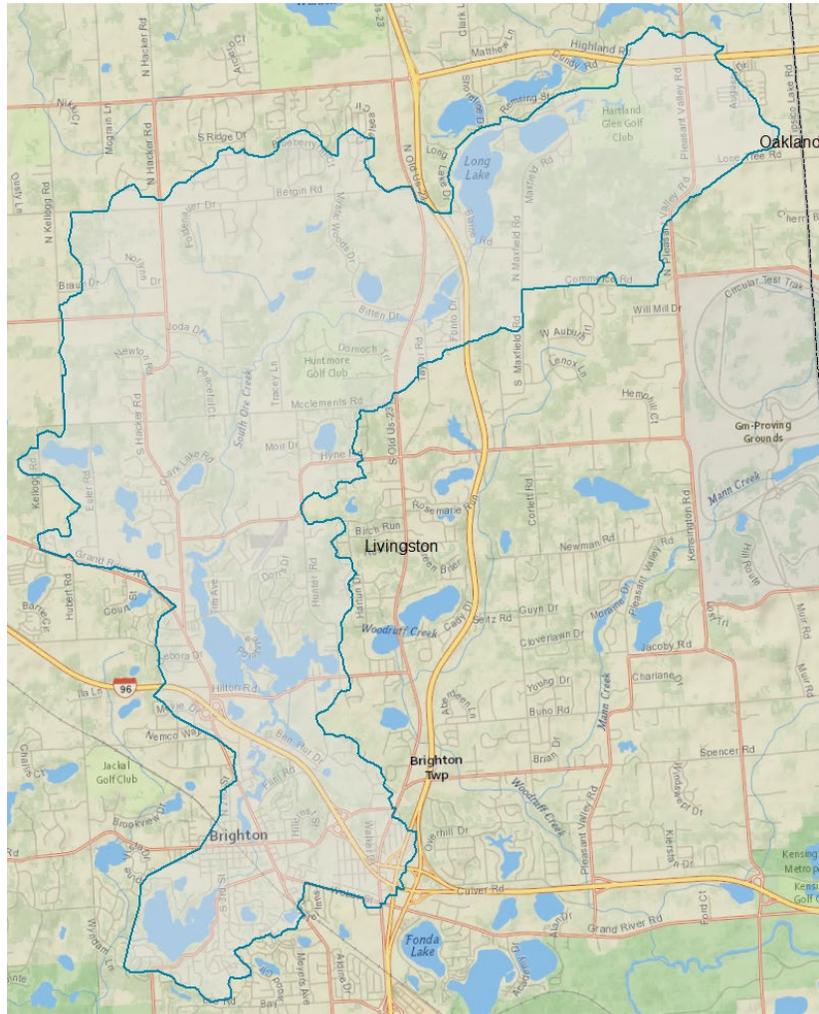


The Belle River Watershed Management Plan was developed by the St. Clair County Health Department and was approved in 2015 as meeting both CMI and 319 criteria. The Belle River planning area is in parts of Lapeer, St. Clair, Oakland, and Macomb Counties. The planning area covers approximately 145,280 acres. Its land cover is 57.5 percent agricultural, urban 16.9 percent, natural areas 23.5 percent, and water and wetland 2.1 percent. The impaired designated uses within the planning area are other indigenous aquatic life and wildlife, total body contact recreation, and warmwater fisheries. It has been determined that bacteria, sediment, and nutrients are the priority nonpoint pollutants impacting the Belle River Watershed.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

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## BRIGHTON LAKE SUBWATERSHED

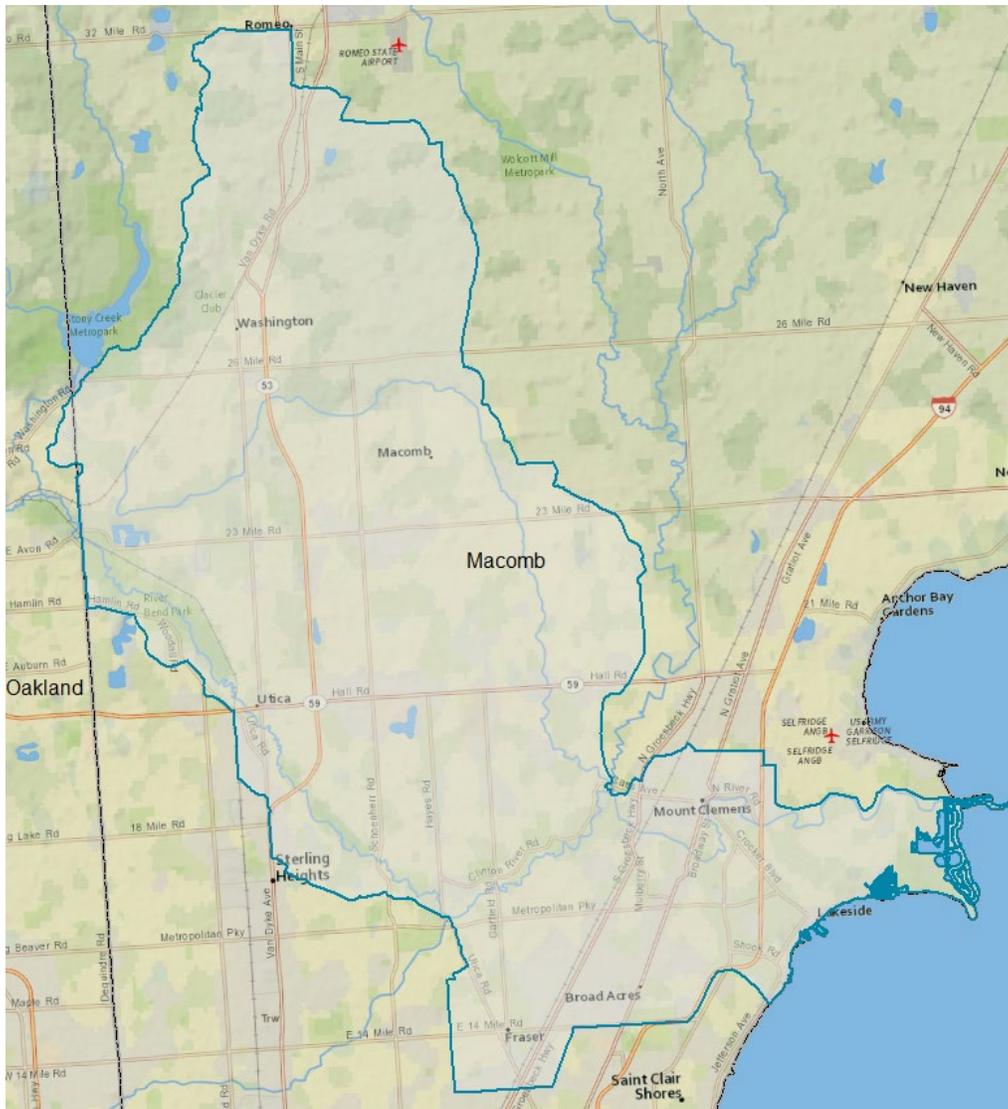


The Brighton Lake Subwatershed Management Plan was prepared by the Brighton Lake Subwatershed Workgroup and was approved as meeting CMI criteria in 2002 and 319 criteria in 2006. The Brighton Lake Subwatershed is 14,730 acres in size and extends from the headwaters of South Ore Creek downstream to the Brighton Lake. The planning area is located in southwestern Livingston County and comprises all or portions of Hartland, Osceola, Genoa, Brighton, and Hamburg Townships, and the city of Brighton. Land cover within the planning area is 23 percent residential, 20 percent grass/shrub, 18 percent wetland, 16 percent agriculture, 9 percent woodland, 7 percent water, 5 percent commercial, and 2 percent public. The designated use addressed within the plan area is other indigenous aquatic life and wildlife. Pollutants identified as impacting water quality are nutrients and sediment.

### Watershed Websites

- [Brighton Lake Watershed Management Plan](#)
- [Huron River Watershed Council](#)

## CLINTON RIVER EAST WATERSHED

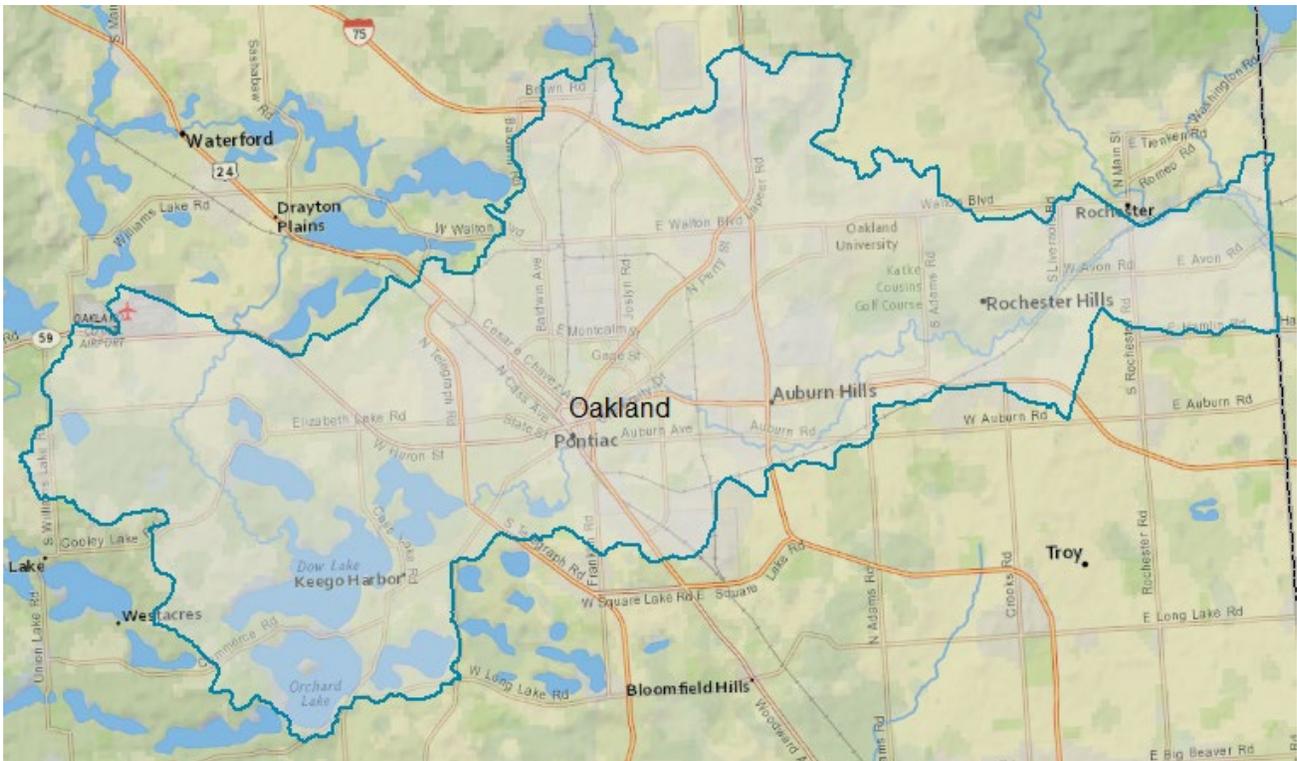


The Clinton River East Subwatershed Management Plan was developed by Tetra Tech, Inc., and was approved as meeting both CMI and 319 criteria in 2007. The Clinton River East Subwatershed planning area is 84,480 acres in size and is located in portions of Oakland and Macomb Counties. Land cover within the planning area is 65.3 percent developed land, 14.6 percent open space, 11.6 percent agriculture, 5.7 percent wetland, and 2.8 percent wooded area. Designated uses not being met within the planning area include other indigenous life and wildlife, warmwater fisheries, total body contact, and partial body contact. The Clinton River East Subwatershed Management Plan addresses the sources of sediment and pathogens.

### Watershed Websites

- [Clinton River East Watershed Plan](#)
- [Clinton River Watershed Council](#)

## CLINTON RIVER MAIN WATERSHED



The Clinton Main Watershed Management Plan was developed by the Clinton Main Subwatershed Advisory Group. The management plan received CMI approval in 2007 and 319 approval in 2010. The planning area is located in Oakland County and encompasses 47,647 acres. Land cover within the watershed is 27 percent single-family residential; 13 percent roads; 12 percent vacant; 10 percent water; 9 percent industrial; 8 percent recreation and conservation; 8 percent public and institutional; 6 percent commercial; 4 percent multiple family residential; 1 percent transportation, utility, and communication; 1 percent mobile home parks; and the remaining 1 percent railroads and extraction. Designated uses addressed within the planning area include navigation, warm- and coldwater fisheries, indigenous aquatic life and wild life, partial and total body contact recreations. The pollutants identified in the plan are, hydrology, sediment, nutrients, bacteria, and temperatures.

### EGLE Nonpoint Source Links

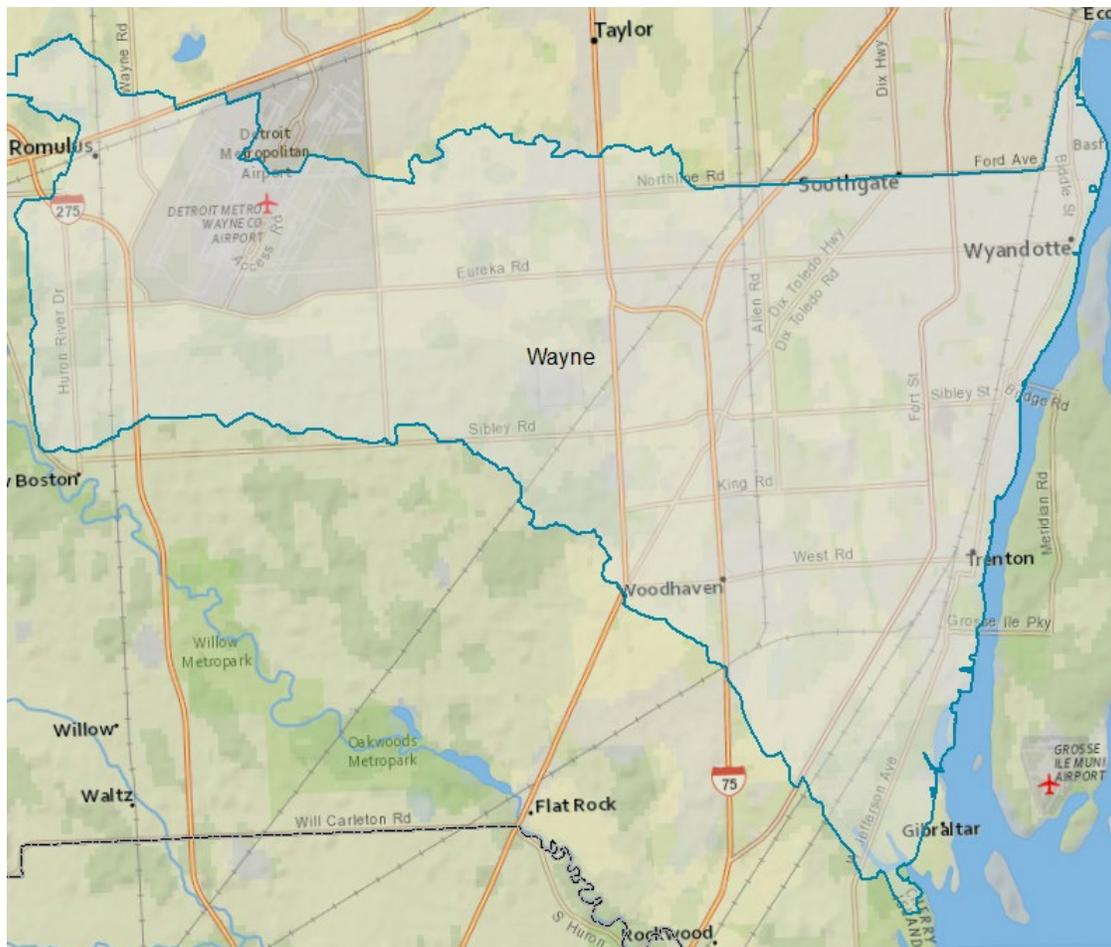
- [Clinton River Main Watershed Plan](#)

### Watershed Websites

- [Clinton River Watershed Council](#)



## COMBINED DOWNRIVER



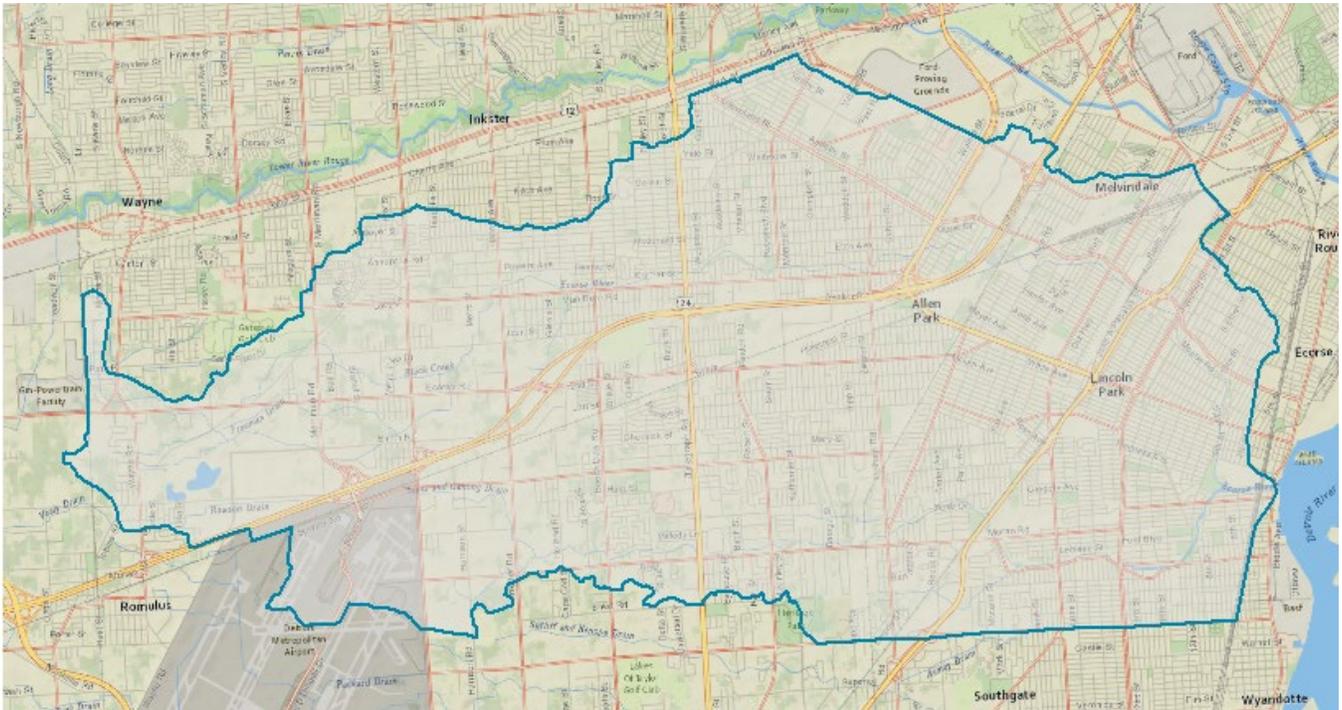
The Combined Downriver Watershed Management Plan was prepared by the Combined Downriver Advisory Group and the Alliance of Downriver Watersheds. The plan was approved for CMI and 319 criteria in 2012. The Combined Downriver Watershed is located entirely within Wayne County and encompasses 54,944 acres. Land cover within the planning area is 34.4 percent single-family residential; 16 percent industrial; 15.7 percent transportation, communication and utility; 8.4 percent airport; 8.4 percent commercial; 6.6 percent governmental/institutional; 6.5 percent parks, recreation, and open space; 2 percent agricultural; 1.6 percent multiple-family residential; and 0.5 percent water. Designated use impairments include partial body contact recreation, other indigenous aquatic life and wildlife, and total body contact recreation. Known pollutants include pathogens, sedimentation, low dissolved oxygen, lack of stable flow, and lack of habitat in addition to suspected nutrient pollution.

### Watershed Websites

- [Alliance of Down River Watersheds](#)
- [Combined Downriver Watershed Management Plan](#)

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## ECORSE CREEK



The Ecorse Creek Watershed Management Plan was prepared by the Ecorse Creek Watershed Advisory Group and the Alliance of Downriver Watersheds. The plan was approved as meeting CMI criteria in 2007 and 319 criteria in 2012. The Ecorse Creek planning area encompasses 27,776 acres in Wayne County. Land cover within the watershed is 40.8 percent single-family residential, 23.5 percent TCU, 12.4 percent industrial, 8.6 percent commercial, 4.9 percent governmental/institutional, 2.8 percent airport, and 2.7 percent agricultural. Designated uses not being met within the planning area are total body contact, partial body contact, and other indigenous aquatic life and wildlife. Pollutants of concern are nutrients, *E. coli*, and sediment.

### Watershed Websites

- [Ecorse Creek Watershed Management Plan](#)
- [Alliance of Down River Watersheds](#)

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## HURON CHAIN OF LAKES



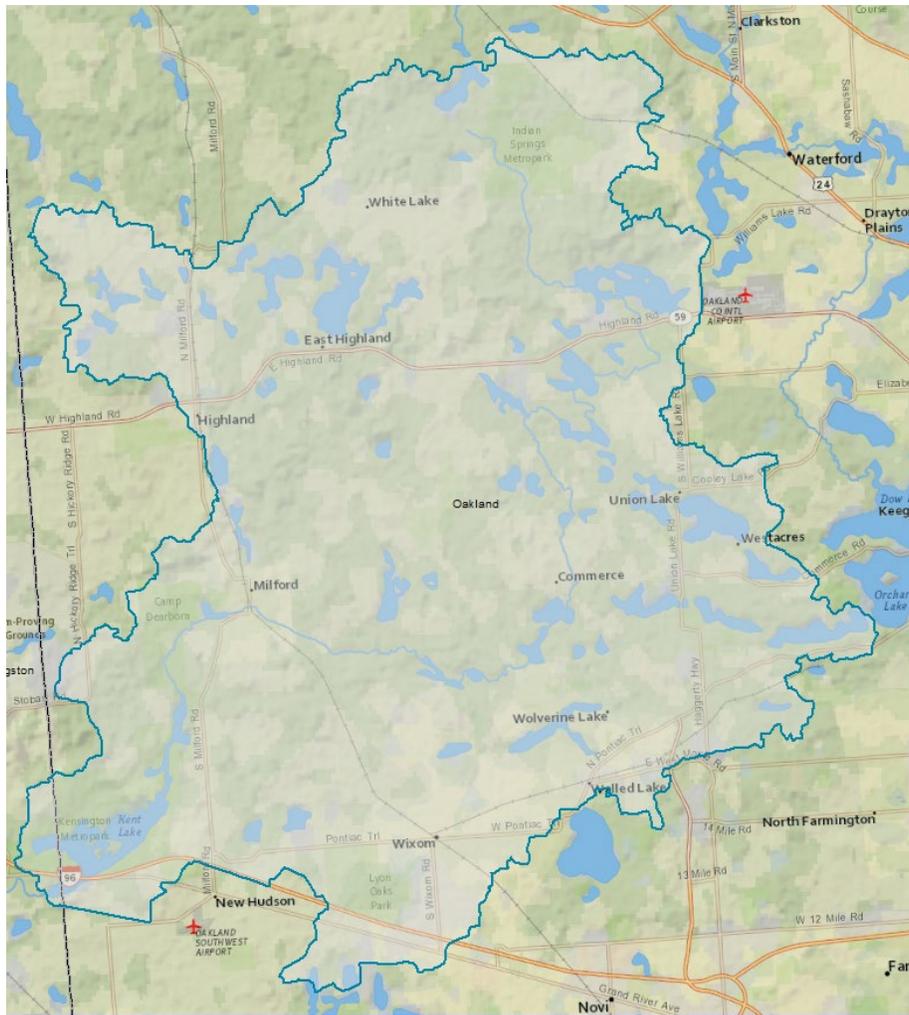
The Huron Chain of Lakes Watershed Management Plan was prepared by the Huron Chain of Lakes Steering Committee and the Huron River Watershed Council. The plan was approved as meeting CMI criteria in 2007. The Huron Chain of Lakes Watershed is 161,920 acres in size and is located within Livingston, Washtenaw, and a small portion of Oakland County. Land cover within the planning area is 29 percent residential, 16 percent open grass and shrub, 15 percent agricultural, 14 percent wetland, 11 percent forested, 6 percent commercial/industrial, 6 percent water and 3 percent recreational. Impaired designated uses within the watershed are warmwater fisheries and other indigenous aquatic life and wildlife. Pollutants of concern include nutrients, sediment, pathogens, salts, organic compounds, heavy metals, high water temperature, altered hydrology, and debris/litter.

### Watershed Websites

- [Huron Chain of Lakes Watershed Management Plan](#)
- [Huron River Watershed Council](#)

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## KENT LAKE WATERSHED



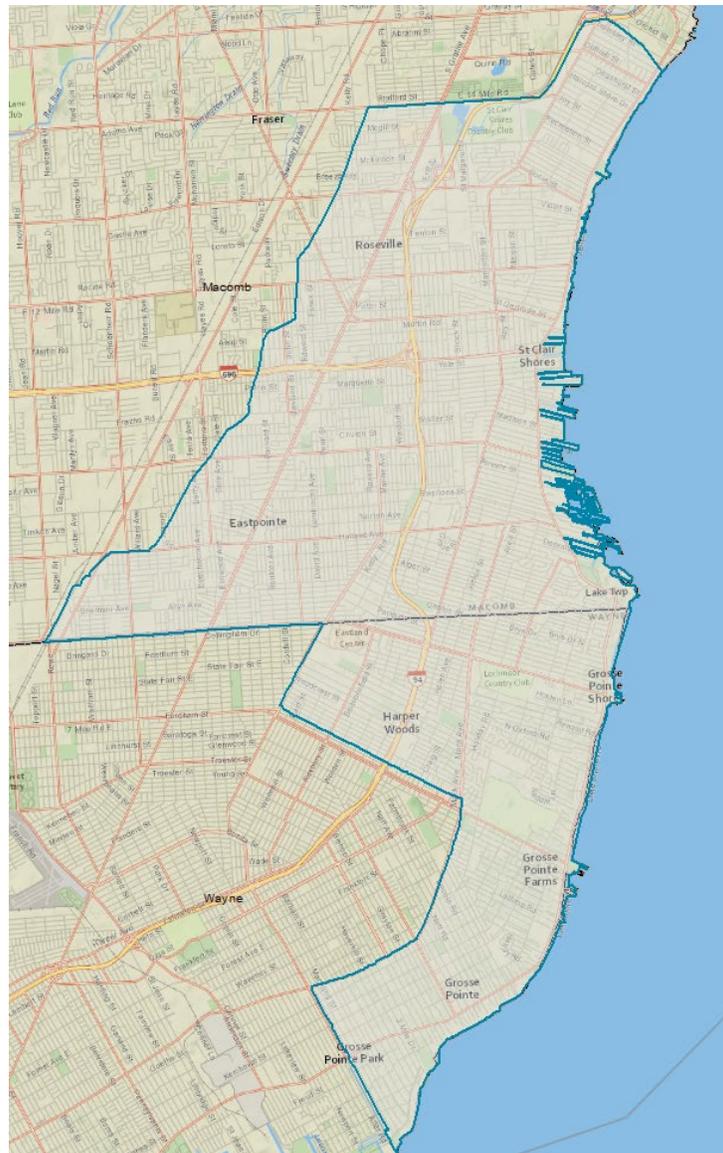
The Kent Lake Subwatershed Management Plan was prepared by the Kent Lake Subwatershed Workgroup with guidance from the Huron River Watershed Council. The plan was approved as meeting CMI criteria in 2002 and 319 criteria in 2006. The Kent Lake Subwatershed is located in Oakland and small portion of Livingston Counties. The subwatershed is approximately 100,000 acres in size. Land cover within the planning area include 26.8 percent single family, 19.5 percent non-forested open, 11.2 percent woodland, 9.6 percent agricultural, 3.3 percent outdoor recreation, and 1.6 percent industrial. Sediment and nutrients are pollutants of concern within the Kent Lake Subwatershed.

### Watershed Websites

- [Kent Lake Watershed Management Plan](#)
- [Huron River Watershed Council](#)

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## LAKE ST. CLAIR



The Lake St. Clair Direct Drainage Subwatershed Management Plan was developed by Tetra Tech, Inc., and was approved as meeting both CMI and 319 criteria in 2007. The Lake St. Clair planning area is 26,240 acres in size and is located in portions of Macomb and Wayne Counties. Land cover within the planning area is 94.7 percent developed land, 4.6 percent open space, 0.6 percent wetland and 0.1 percent wooded area. Designated uses not being met within the planning area include other aquatic life and wildlife, warmwater fisheries, total body contact and partial body contact. The Lake St. Clair Direct Drainage Subwatershed Management Plan addresses the sources of sediments, low dissolved oxygen, fish kills, pathogens, and the presence of algae from nutrient elevation.

### Watershed Websites

- [Clinton River Watershed Council](#)
- [Lake St. Clair Watershed Plan](#)

## LOWER HURON

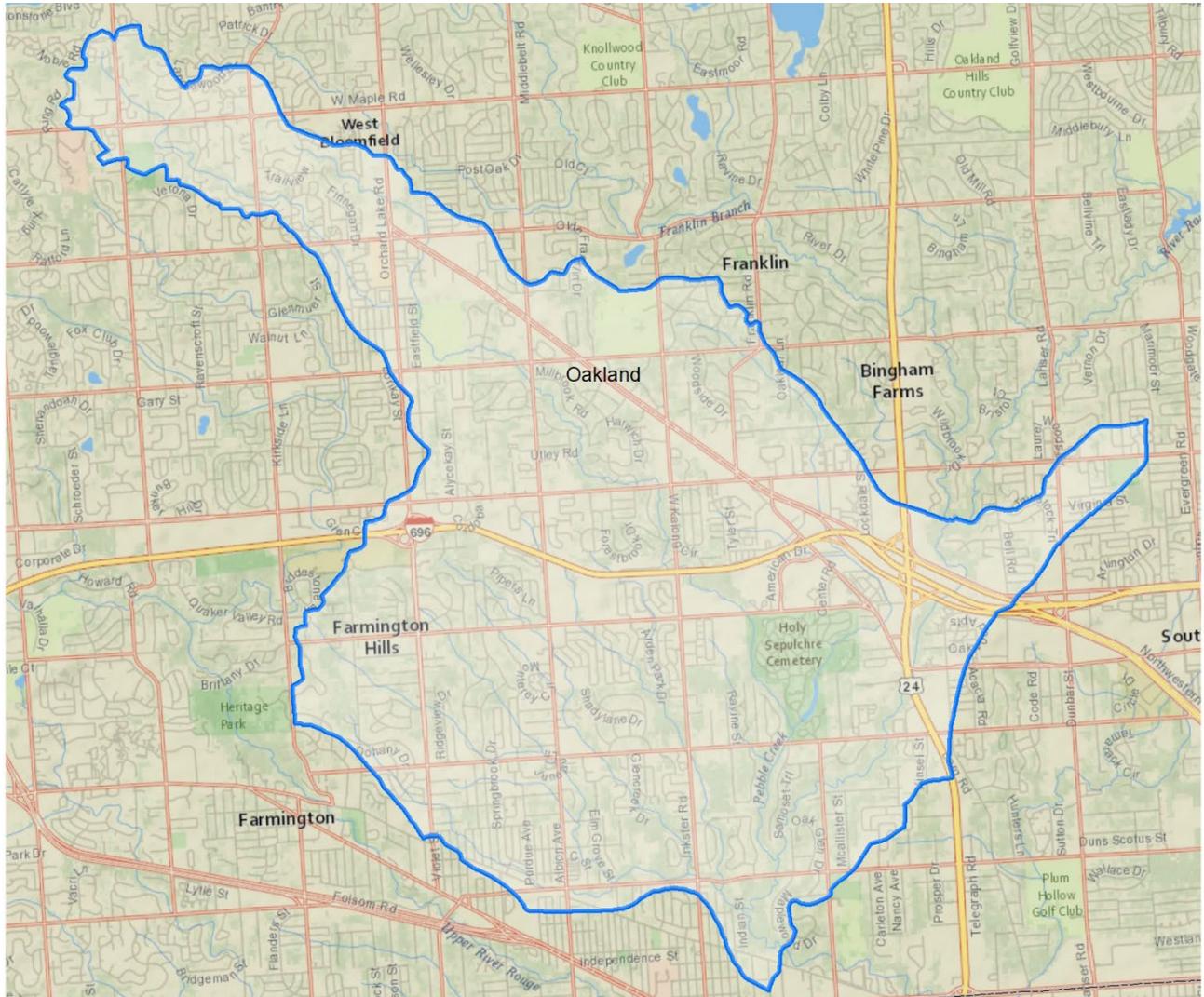


The Lower Huron River Watershed Management Plan was prepared by the Lower Huron Watershed Advisory Group and the Alliance of Downriver Watersheds. The plan was approved as meeting CMI criteria in 2007 and 319 criteria in 2012. The Lower Huron River planning area is 47,431 acres in size. The planning area is in portions of Wayne, Monroe, and Washtenaw Counties. Land cover within the planning area is 52.9 percent residential, 15.9 percent industrial, 11.8 percent agricultural, 11.6 percent open, 7.3 percent commercial, and 0.5 percent water. Impaired designated uses within the planning area are partial and total body contact recreation and other indigenous aquatic life and wildlife. Pollutants of concern include pathogens, nutrients, and sediment.

### Watershed Websites

- [Lower Huron River Watershed Management Plan](#)
- [Lower Huron River Watershed](#)

## PEBBLE CREEK



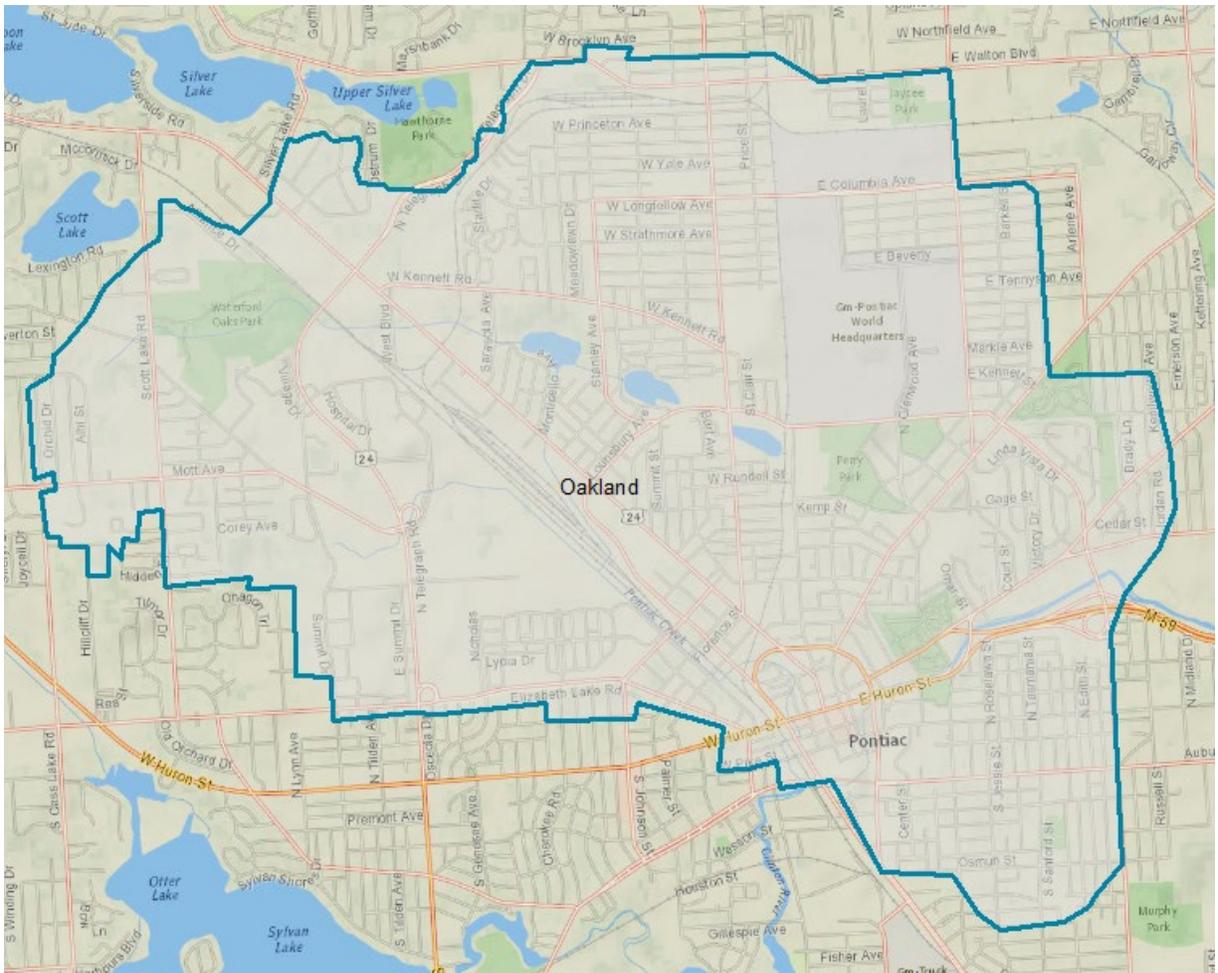
The Pebble Creek Watershed Management Plan was developed by Tetra Tech for the city of Farmington Hills and was approved as Meeting CMI and 319 criteria in 2019. The subwatershed encompasses 14,571 acres and is entirely within Oakland County. Land cover within the planning area is 55 percent single family residential, 17 percent roads and right of way, 10 percent commercial, 9 percent institutional, 4 percent multifamily residential, and 4 percent parks and open space. Designates uses addressed by the plan include warmwater fisheries, other indigenous life and wildlife, and total and partial body contact. Pollutants addressed by the plan include *E. coli* and storm water volume.

For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).

### Watershed Websites

- [Farmington Hills](#)

## PONTIAC CREEK



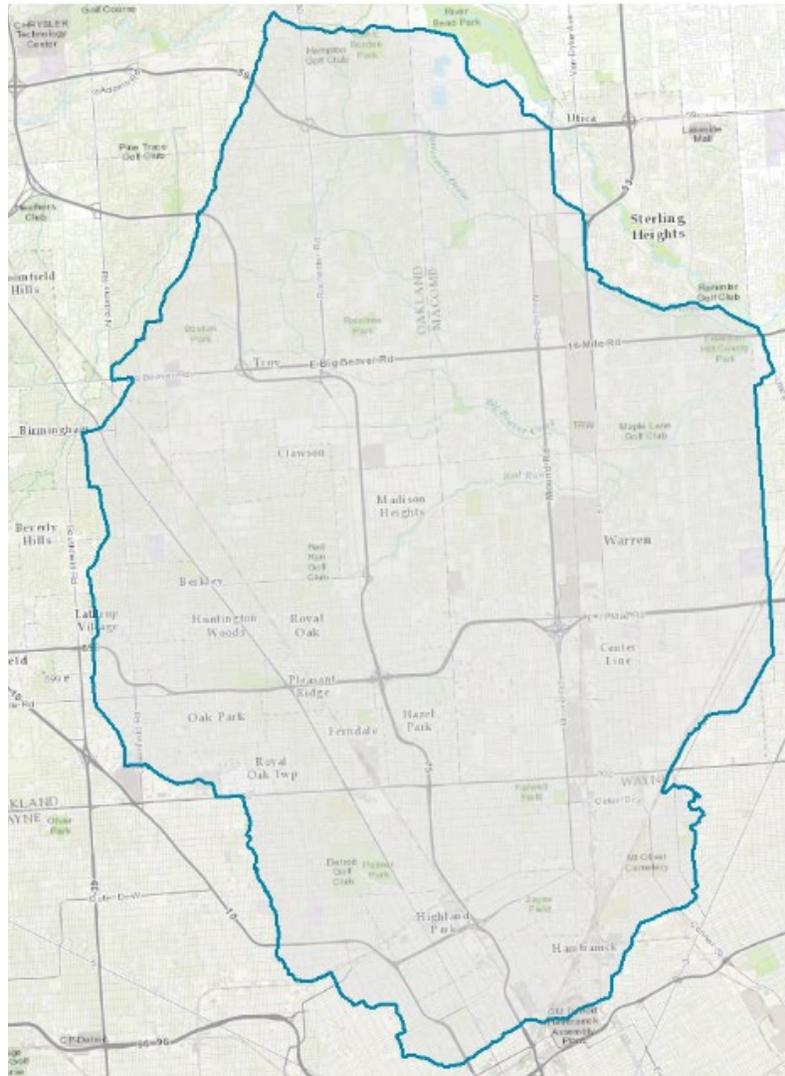
Pontiac Creek is a highly urbanized watershed that drains much of the city of Pontiac. The planning area is approximately 6,400 acres in size. The Pontiac Creek Watershed was approved as meeting CMI criteria in 2003 and 319 criteria in 2006. The plan addresses nutrients, suspended solids, and BOD.

### EGLE Nonpoint Source Links

- [Pontiac Creek Management Plan](#)

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## RED RUN WATERSHED



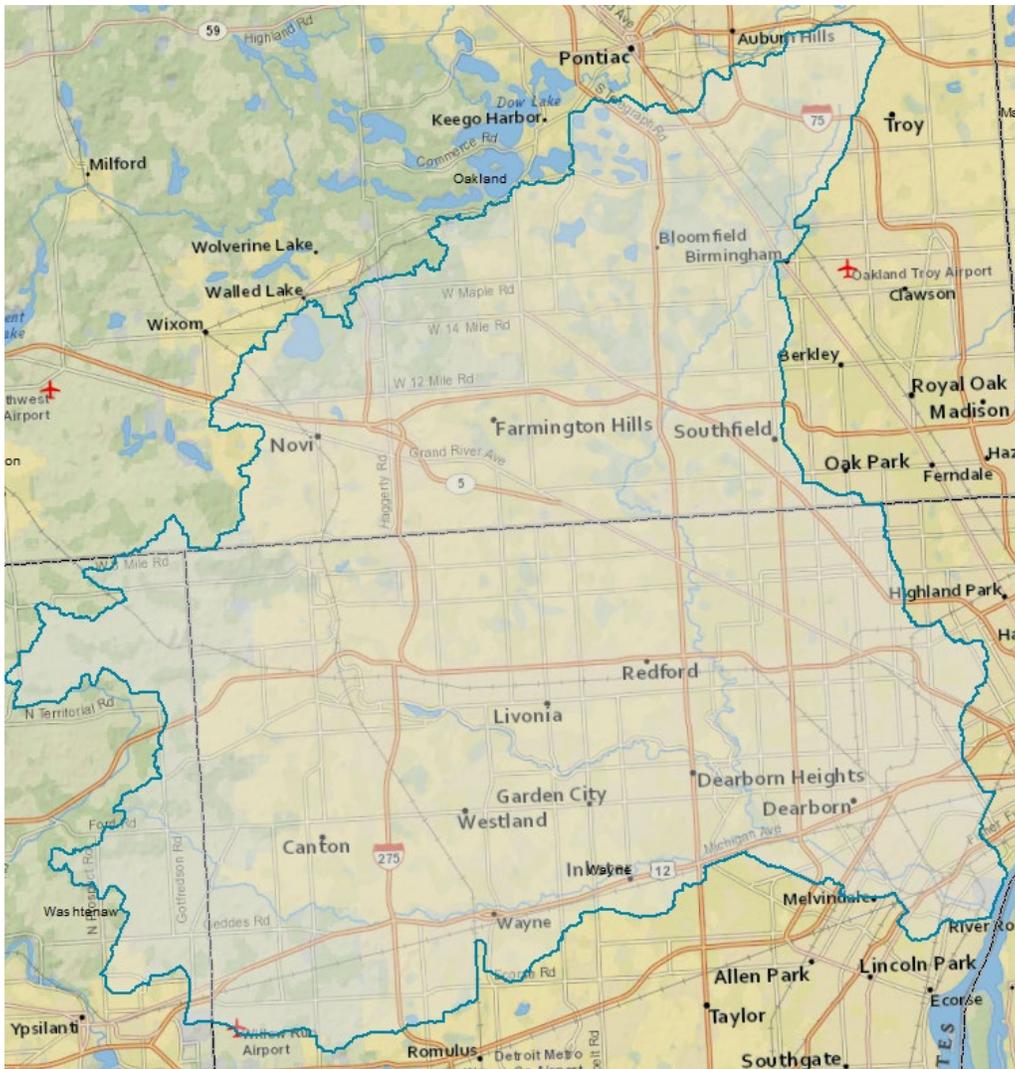
The Red Run Subwatershed Management Plan was developed by Tetra Tech, Inc. and was approved as meeting both CMI and 319 criteria in 2007. The planning area is 90,880 acres in size and is located in portions of Oakland and Macomb Counties. Land cover within the planning area is 87.7 percent developed land, 9.3 percent open space, 1.6 percent wetland, 1.2 percent wooded area, and 0.2 percent agriculture. Designated uses not being met are other aquatic life and wildlife, warmwater fisheries, total body contact and partial body contact. The Red Run Subwatershed Management Plan addresses the sources of sediment, pathogens, and channelization.

### Watershed Websites

- [Red Run Watershed Plan](#)
- [Clinton River Watershed Council](#)

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## ROUGE RIVER



The Rouge River Watershed Management Plan was developed by Environmental Consulting & Technology for the Alliance of Rouge Communities. The plan received CMI and 319 approval in 2012. The planning area is approximately 298,240 acres. Land cover within the planning area is 47.2 percent medium density residential area, 10.9 percent commercial area, 9.5 percent by forest or rural open areas, 7.8 percent by industrial areas, 6.6 percent by water and wetlands, 6.0 percent by urban open areas, 5.2 percent by agriculture, 4.1 percent by high density residential areas, and 2.5 percent by highways. Designated uses addressed within the planning area include warmwater fisheries, other indigenous aquatic life and wildlife, partial body recreation, and total body contact recreation. The four primary pollutants affecting the Rouge River are pathogens, flow rate and volume, sediment, and nutrients.

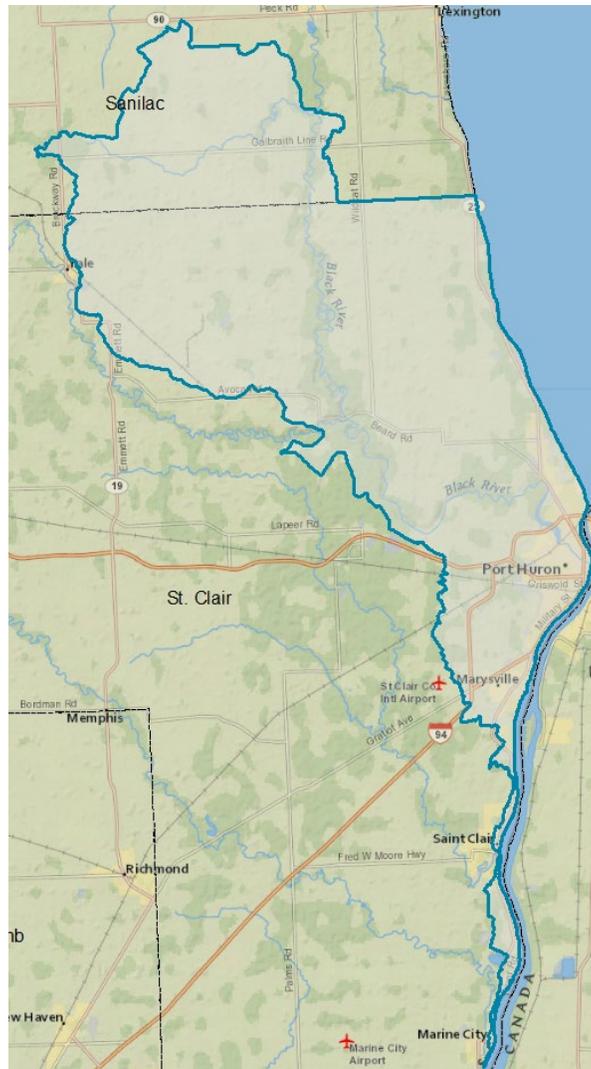
*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Friends of the Rouge](#)

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## ST. CLAIR COUNTY'S NE WATERSHEDS



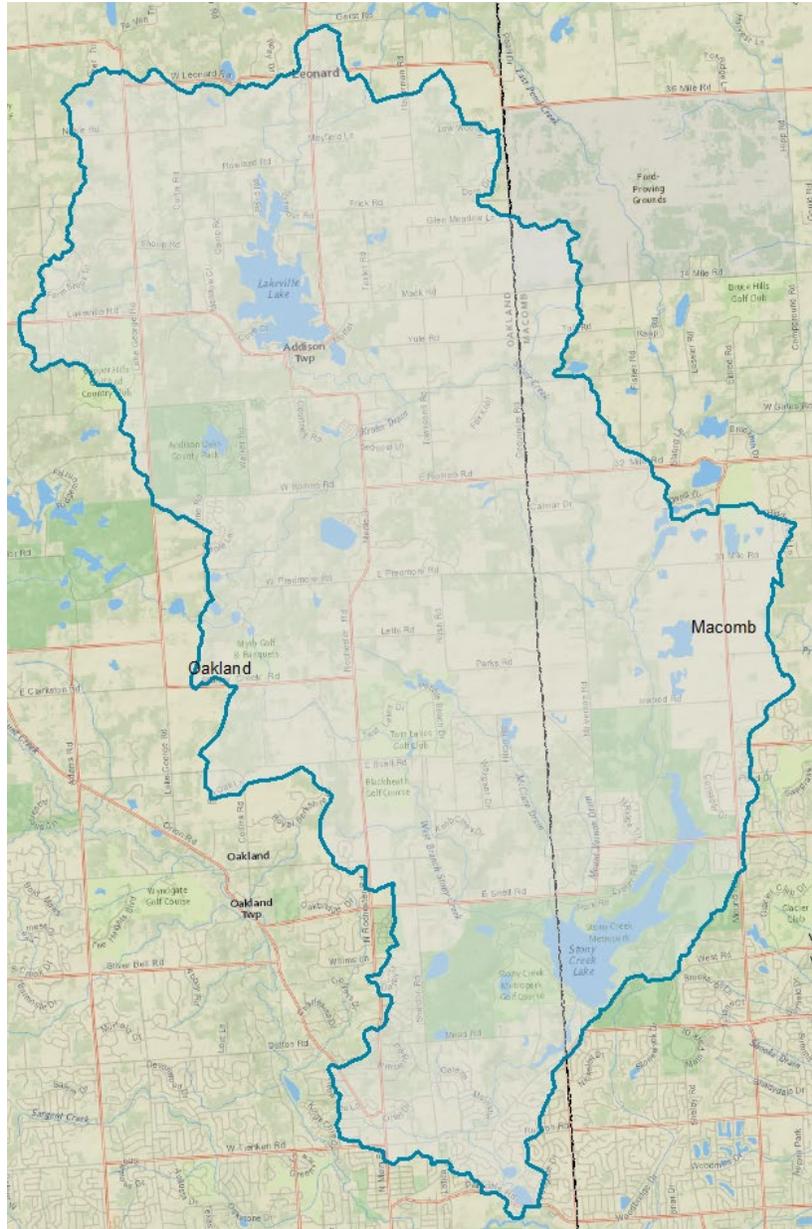
The St. Clair County's Northeastern Watersheds Watershed Management Plan (NEW WMP) was developed by the Northeastern Watershed Advisory Group. The NEW WMP was developed using local funding in response to the Phase 2 Storm Water Program and was approved in 2007 as meeting CMI criteria. The NEW WMP encompasses approximately 143,983 acres in portion of St Clair and Sanilac Counties. The NEW also encompasses 46.8 miles of shoreline along Lake Huron and the St. Clair River and contains twenty communities spanning St. Clair and Sanilac Counties.

### Watershed Websites

- [Northeastern Watersheds Management Plan](#)

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## STONY CREEK (OAKLAND COUNTY)

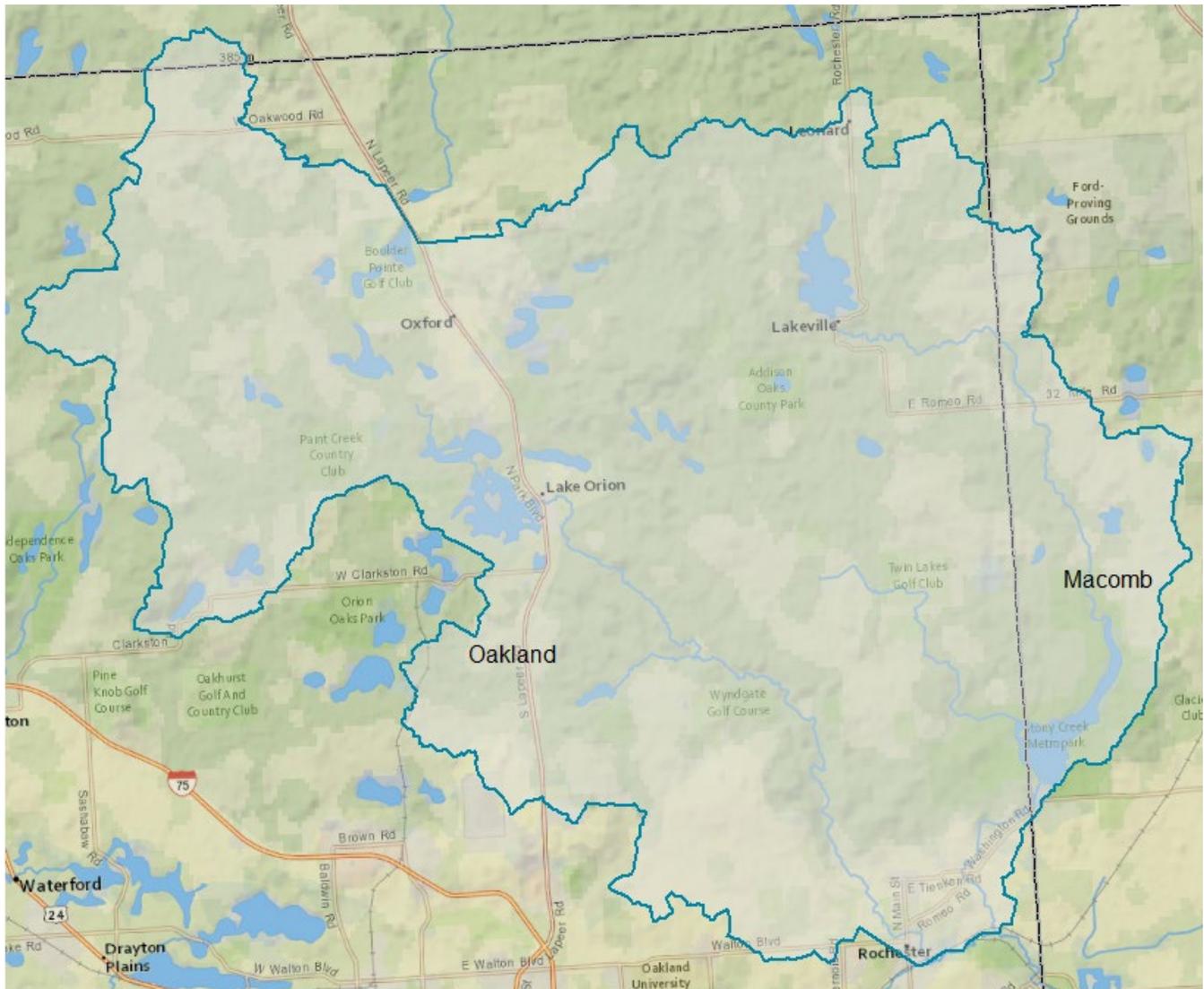


The Stony Creek Watershed Management Plan was developed by the Stony Creek Stewardship Committee and was approved as meeting both CMI and section 319 criteria in 2006. The Stony Creek Watershed Planning area is 47,360 acres in size and covers portions of Oakland and Macomb Counties. Land cover in the planning area is 32 percent residential, 24.5 percent vacant, 13 percent recreation/ conservation, 11 percent agricultural, 9 percent urban, and 7 percent wetland. Impaired designated uses in the watershed include warm- and coldwater fisheries, total and partial body contact recreation, and other indigenous aquatic life and wildlife. Pollutants of concern in the watershed are nutrients, sediment, pesticides, and bacteria.

### Watershed Websites

- [Stony/Paint Creek Watershed Plan](#)
- [Clinton River Watershed Council](#)

## STONY/PAINT CREEK



The Stony/Paint Creek Subwatershed Management Plan was developed by the Clinton River Watershed Council and was approved as meeting both CMI and section 319 criteria in 2005. The planning area is 92,160 acres in size and covers parts of Oakland and Macomb Counties. Land cover in the planning area is 38 percent residential, 20 percent open, 15 percent urban, 13 percent recreation and conservation, 6 percent waterbodies and wetlands. Designated uses addressed within the planning area include coldwater fisheries, other indigenous aquatic life and wildlife, and partial and total body contact recreation. Pollutants of concern in the watershed include sediment, nutrients, temperature, and pathogens.

### Watershed Websites

- [Stony/Paint Creek Watershed Plan](#)
- [Clinton River Watershed Council](#)

## UPPER PENINSULA DISTRICT 319 WATERSHEDS



<b>CMI and 319 approved</b>
Days River
Eagle River
Fumee Creek
Huron Creek
Les Cheneaux
Lower Dead River
Munuscong River
Partridge Creek
Pilgrim River
Salmon Trout River
Sault Saint Marie
Two Hearted River
Yellow Dog River

## UPPER PENINSULA DISTRICT CMI WATERSHEDS



<b>CMI approved</b>
Chocolay River
Hamilton Creek
Iron River Watershed
Munising Bay
Otter River
Pine Creek (Dickinson County)
Trap Rock River
Whetstone Brook and Orianna Creek

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## CHOCOLAY RIVER



The Chocolay River Watershed Restoration and Adaptive Management Plan was prepared by White Water Associates, Inc. The plan received CMI approval in 2000. The Chocolay River Watershed is located in the northeast corner of Marquette County. The planning area comprises roughly 102,382 acres. Land cover within the watershed is 59 percent forest, 16 percent wetland, 14 percent agriculture, and 11 percent residential and urban areas. There are no identifiable impaired designated uses within the watershed. The pollutant of concern addressed by the plan is sediment.

### EGLE Nonpoint Source Links

- [Chocolay River Watershed Management Plan](#)

### Watershed Websites

- [Superior Watershed Partnership and Land Trust](#)

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## DAYS RIVER



The Days River Watershed Management Plan was developed by the Delta County Conservation District. The plan received both CMI and 319 approval in 2006. The planning area encompasses approximately 40,594 acres and is located primarily in Delta County with a small portion in Marquette County. The dominant land cover within the watershed is forest. The designated uses addressed within the planning area include navigation, warmwater fisheries, coldwater fisheries, partial body contact, and total body contact. Pollutants of concern include sediments, nutrients, pathogens, increased temperature, and altered hydrologic flow.

### EGLE Nonpoint Source Links

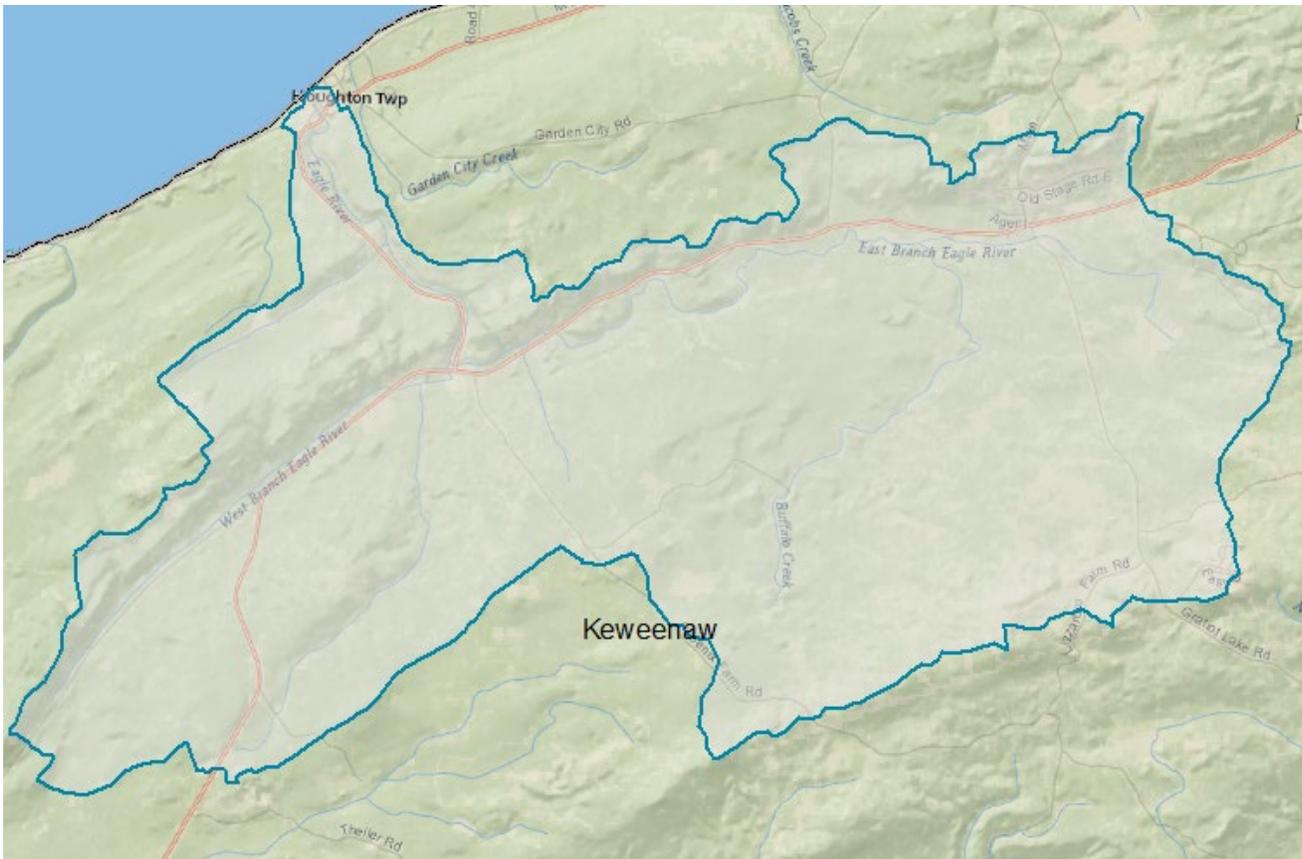
- [Days River Watershed Plan, without appendices](#) (2 MB PDF)
- [Days River Watershed Plan appendices](#) (10 MB PDF)

### Watershed Websites

- [Delta Conservation District](#)

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## EAGLE RIVER



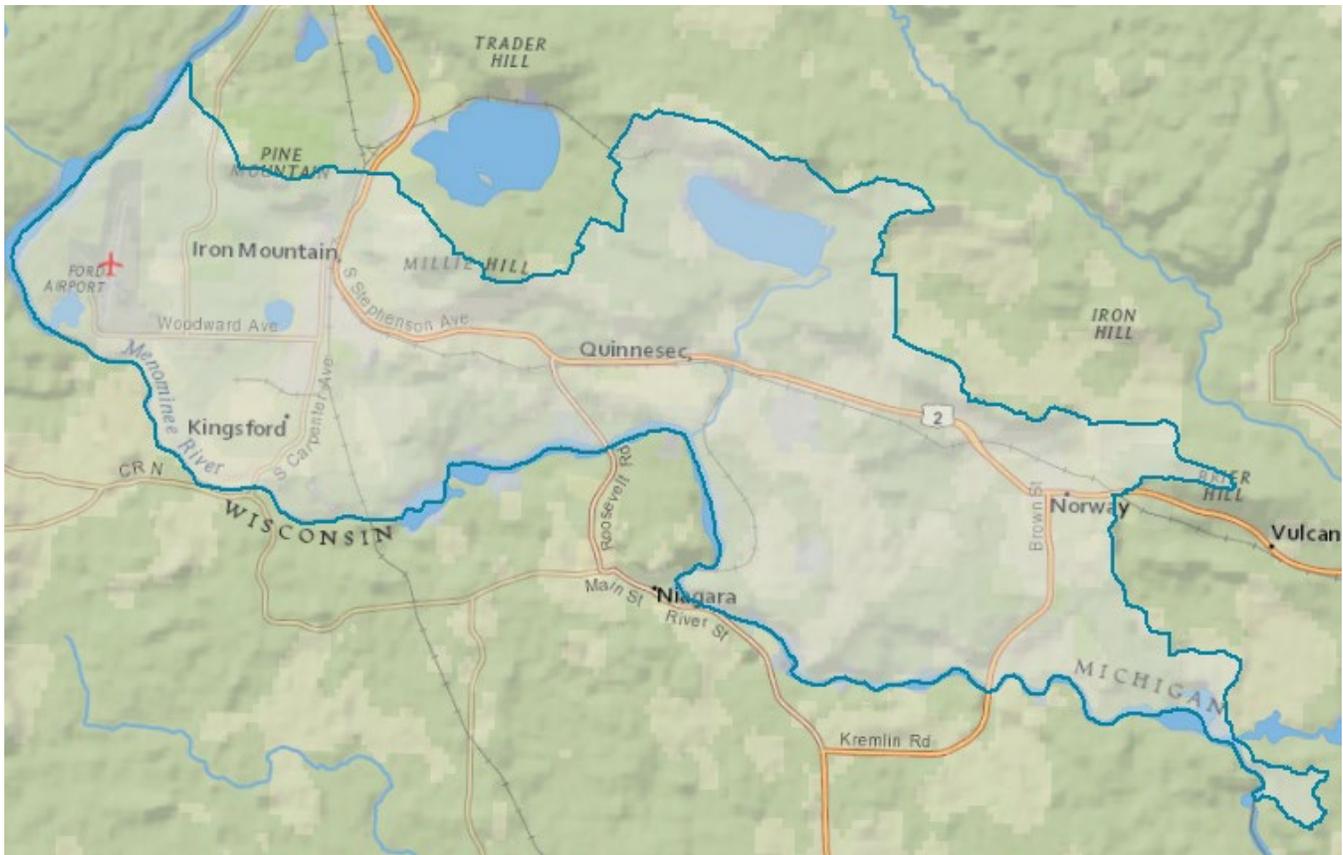
The Eagle River Watershed Management Plan was developed by the Houghton Keweenaw Conservation District and was approved as meeting both CMI and 319 criteria in 2008. The Eagle River planning area is located in Keweenaw County and is 13,595 acres in size. Land cover within the planning area is 88 percent forest, 8 percent wetland, 2 percent urban, and 2 percent other (e.g., roads, stamp sand deposits). Designated use addressed by the plan is other indigenous aquatic life and wildlife. The plan addresses copper from stamp sand.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### **Watershed Websites**

- [Houghton Keweenaw Conservation District](#)

## FUMEE CREEK



The Fumee Creek Watershed Project Management Plan was developed by the Dickinson County Conservation District and is approved as meeting both CMI and 319 criteria. The Fumee Creek planning area covers approximately 24,500 acres of Dickinson County. Land cover within the planning area is 48 percent forest, 24 percent urban, 5 percent agricultural, 2 percent wetland, and 21 percent other. Designated uses addressed within the planning area include coldwater fisheries and navigation. Pollutants of concern in the Fumee Creek Watershed include sediment, nutrients, hydrologic flow, depressed dissolved oxygen, temperature, exotic species, and pathogens.

### EGLE Nonpoint Source Links

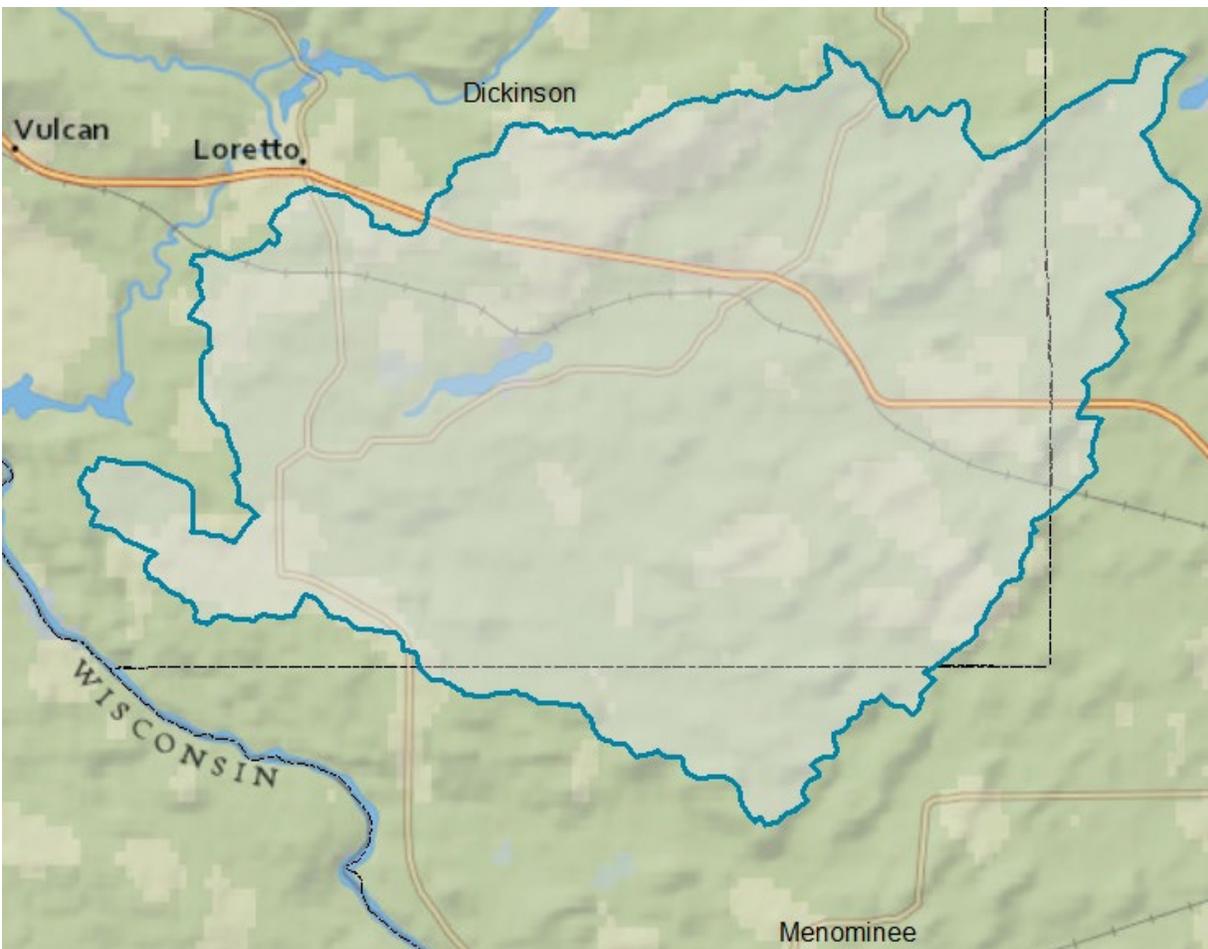
- [Fumee Creek Watershed Management Plan](#)

### Watershed Websites

- [Dickinson Conservation District](#)

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## HAMILTON CREEK



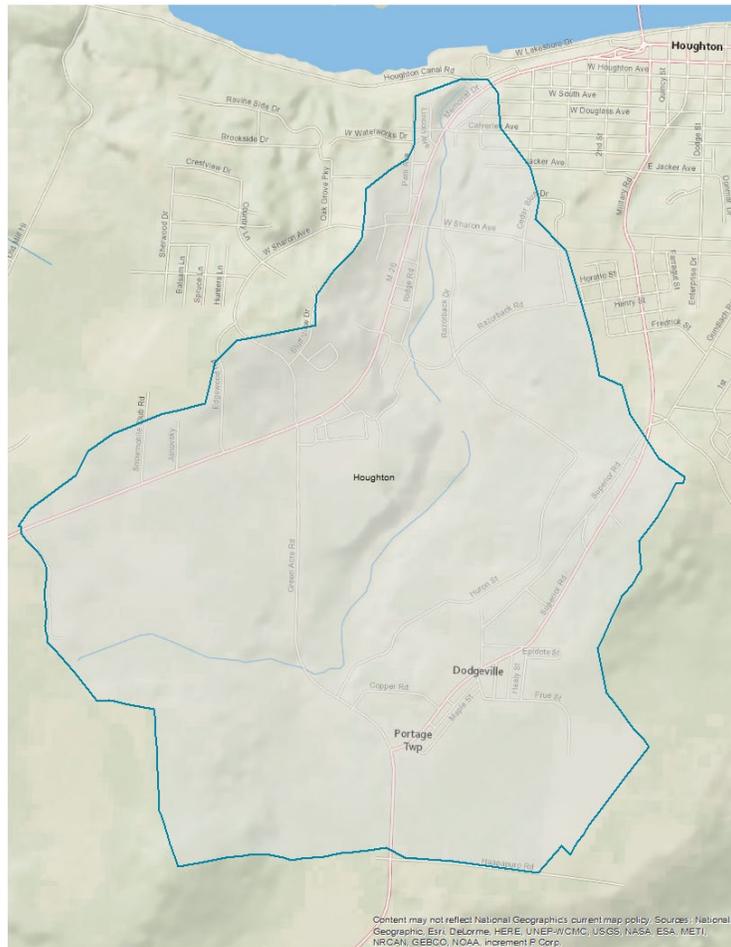
The Hamilton Creek Watershed Management plan was approved as meeting CMI criteria in 2003. The Hamilton Creek planning area is 18,322 acres in size and is located predominantly within Dickinson County with a small portion in Menominee County.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### **Watershed Websites**

- [Dickinson Conservation District](#)

## HURON CREEK

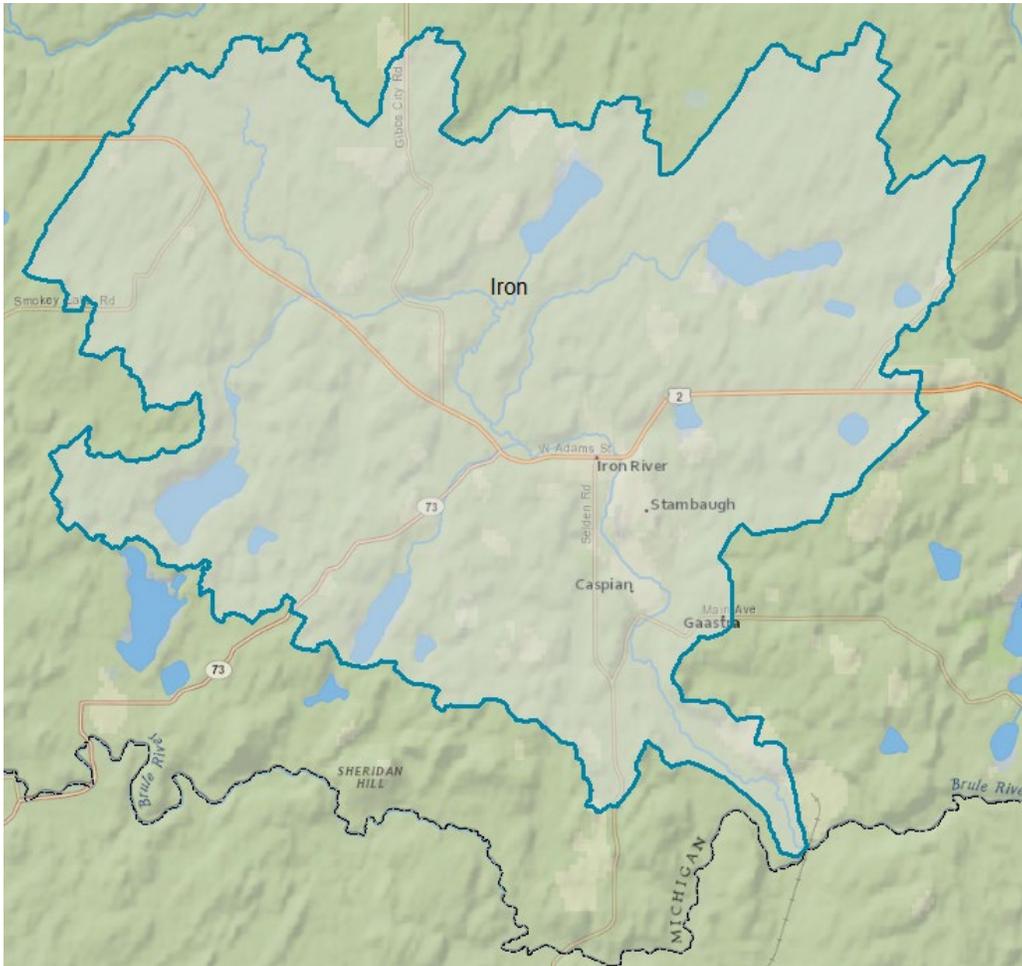


The Huron Creek Watershed Management Plan was developed by the Michigan Technological University Center for Water and Society. The plan was approved as meeting both CMI and 319 criteria in 2009. The planning area is located in north-central Houghton County and is 2,176 acres in size. Land cover within the watershed is 33 percent forest, 30 percent commercial and residential developments, 17 percent agriculture and rangeland, and 20 percent wetland. Designated use not being met within the planning area is other indigenous aquatic life and wildlife. Pollutants of concern include metals (copper and iron), sediments, “flashy” flow, nutrients, invasive species, and bacteria.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

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## IRON RIVER WATERSHED



The Iron River Watershed Management Plan was prepared by the Iron River Watershed Council and was approved as meeting CMI criteria in 2002. The Council changed its name to the Iron County Watershed Coalition in 2009. The Iron River Watershed is located in southwestern Iron County in Michigan's Upper Peninsula. The watershed is approximately 61,440 acres. Land cover within the planning area is 57 percent forest, 16 percent urban, 12 percent agricultural, 7 percent wetland, and 8 percent of other. All designated uses within the Iron River Watershed are being met. The Iron River Watershed Management Plan addresses the sources of sediment, acid mine drainage, thermal pollution, nutrients, and toxics (oil, grease, metals).

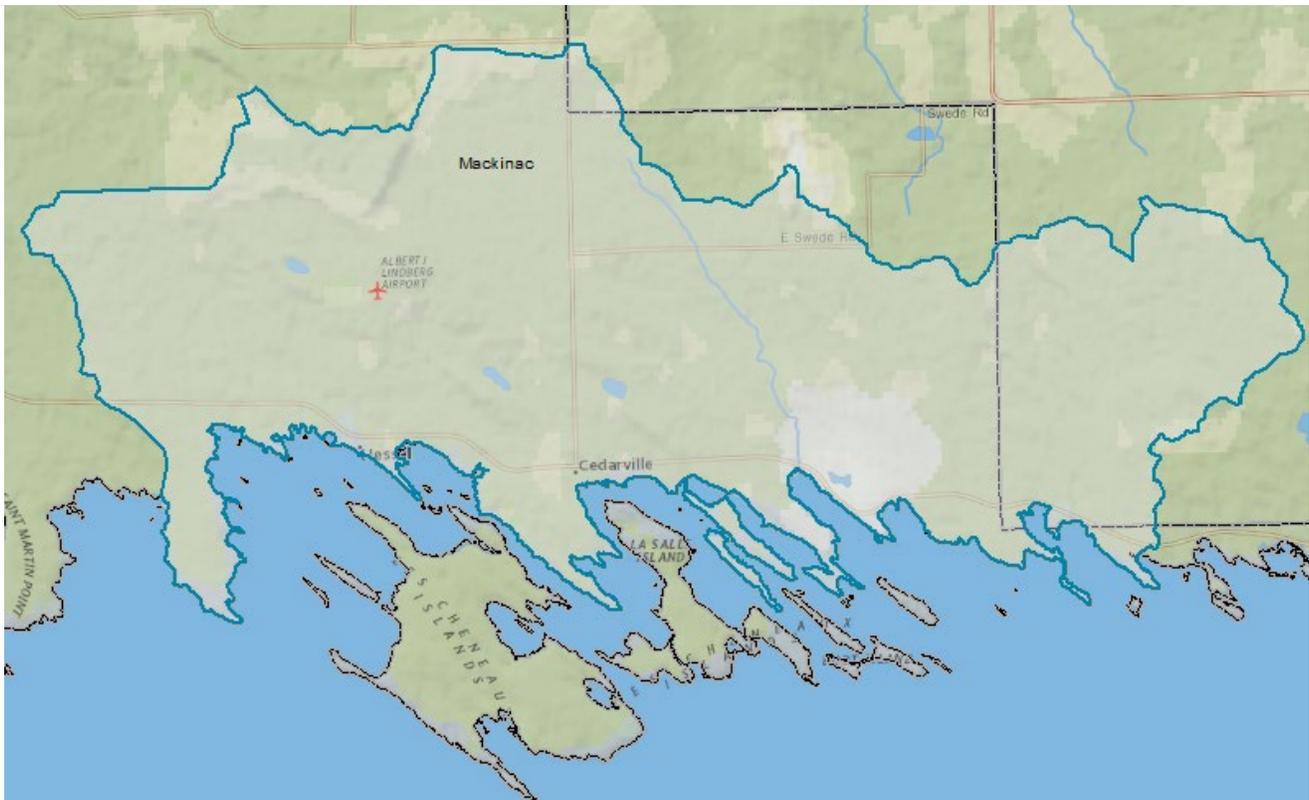
### EGLE Nonpoint Source Links

- [Iron River Watershed Plan \(Part 1\)](#)
- [Iron River Watershed Plan \(Part 2\)](#)

### Watershed Websites

- [Iron County Watershed Coalition](#)

## LES CHENEAUX

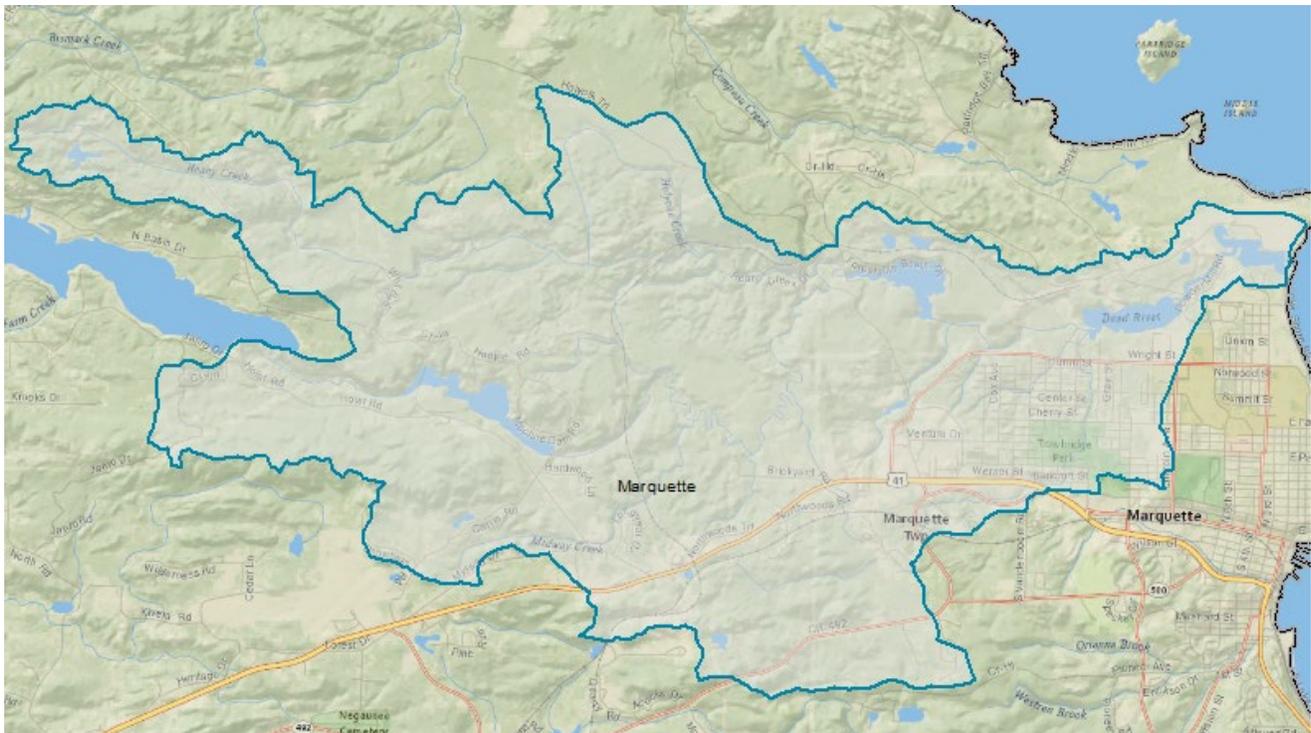


The Les Cheneaux Watershed Management Plan was prepared by the Chippewa Luce Mackinac Conservation District and was approved as meeting CMI criteria in 2005 and 319 criteria in 2006. The Les Cheneaux Watershed is 73,600 acres in size and is in portions of Mackinac and Chippewa County. Land cover within the planning area is 71 percent forested, 16 percent wetland, 1 percent agricultural, 8 percent urban, and 4 percent open and barren lands. All designated uses in the planning area are met. The Les Cheneaux Watershed Management Plan addresses the sources of pathogens, toxics, nutrients, hydrologic flow changes, sediments and invasive species.

### Watershed Websites

- [Les Cheneaux Watershed Plan](#)
- [Les Cheneaux Watershed Council](#)
- [Chippewa Luce Mackinac Conservation District](#)

## LOWER DEAD RIVER



The Lower Dead River Watershed Management Plan was developed by the Marquette County Conservation District and the Central Lake Superior Watershed Partnership. The plan received CMI approval in 2003, and 319 approval in 2006. The planning area is located in Marquette County and is comprised of 14,246 acres. Land cover within the planning area is, 78.5 percent forest, 15.5 percent urban, 2.8 percent open field, 2.1 percent water, 0.9 percent wetland, 0.1 percent agricultural, and 0.1 percent barren. There are no impaired designated uses within the watershed. Designated uses addressed within the planning area include public water supply, navigation, coldwater fisheries, and other indigenous aquatic live and wildlife. The primary pollutants are sediment, nutrients, and hydrologic flow.

### EGLE Nonpoint Source Links

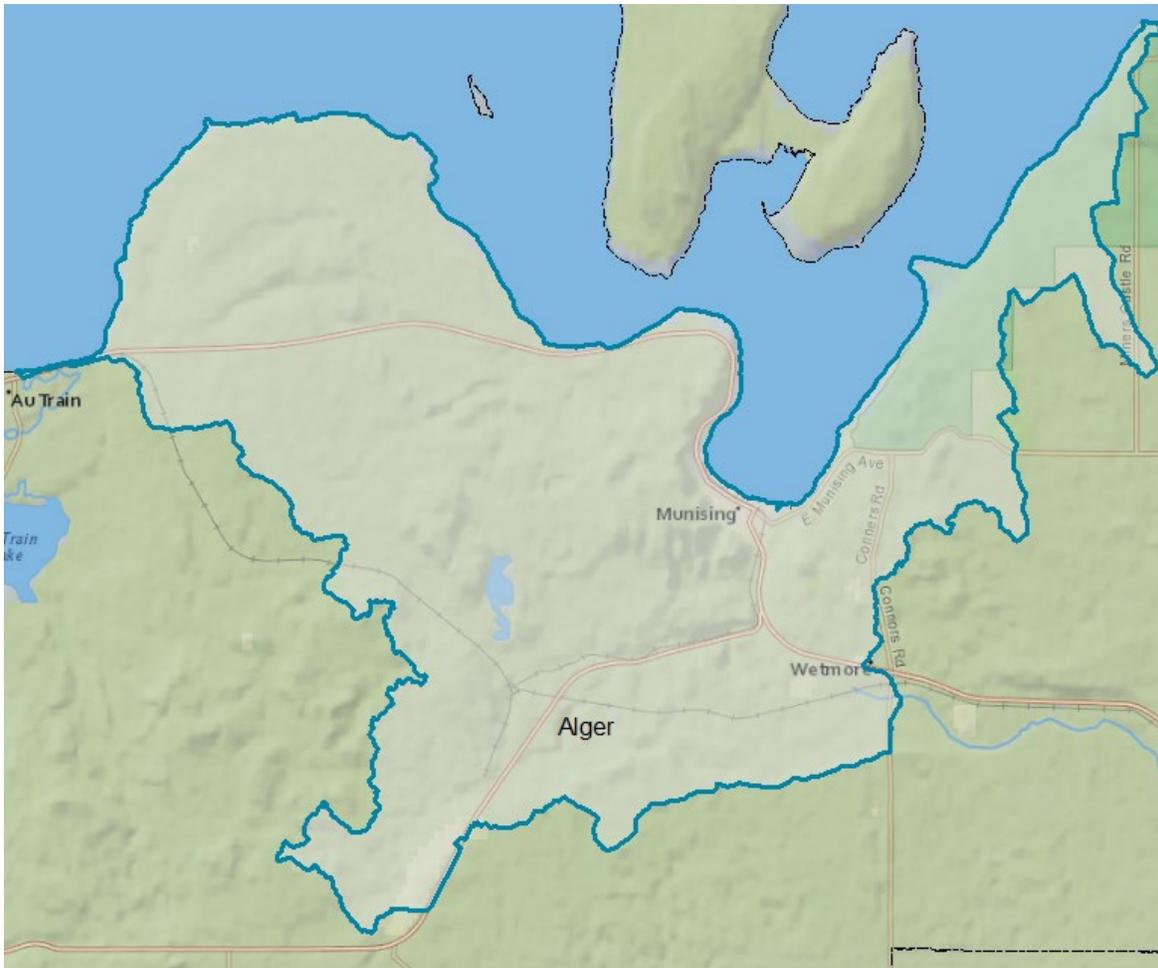
- [Lower Dead River Watershed Management Plan](#) (3 MB PDF)

### Watershed Websites

- [Superior Watershed Partnership and Land Trust](#)

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## MUNISING BAY



The Munising Bay Watershed Restoration Project and Water Quality Management Plan was developed by the Alger County Conservation District. The plan was approved as meeting CMI criteria in 2002. The planning area encompasses approximately 30,350 acres and is located entirely within Alger County. Land cover within the planning area is 74 percent forest, 13 percent wetland, 10 percent urban areas, and 3 percent agriculture. Designated uses addressed within the planning area include other indigenous aquatic life and wildlife and coldwater fisheries. Pollutant addressed is sedimentation.

### EGLE Nonpoint Source Links

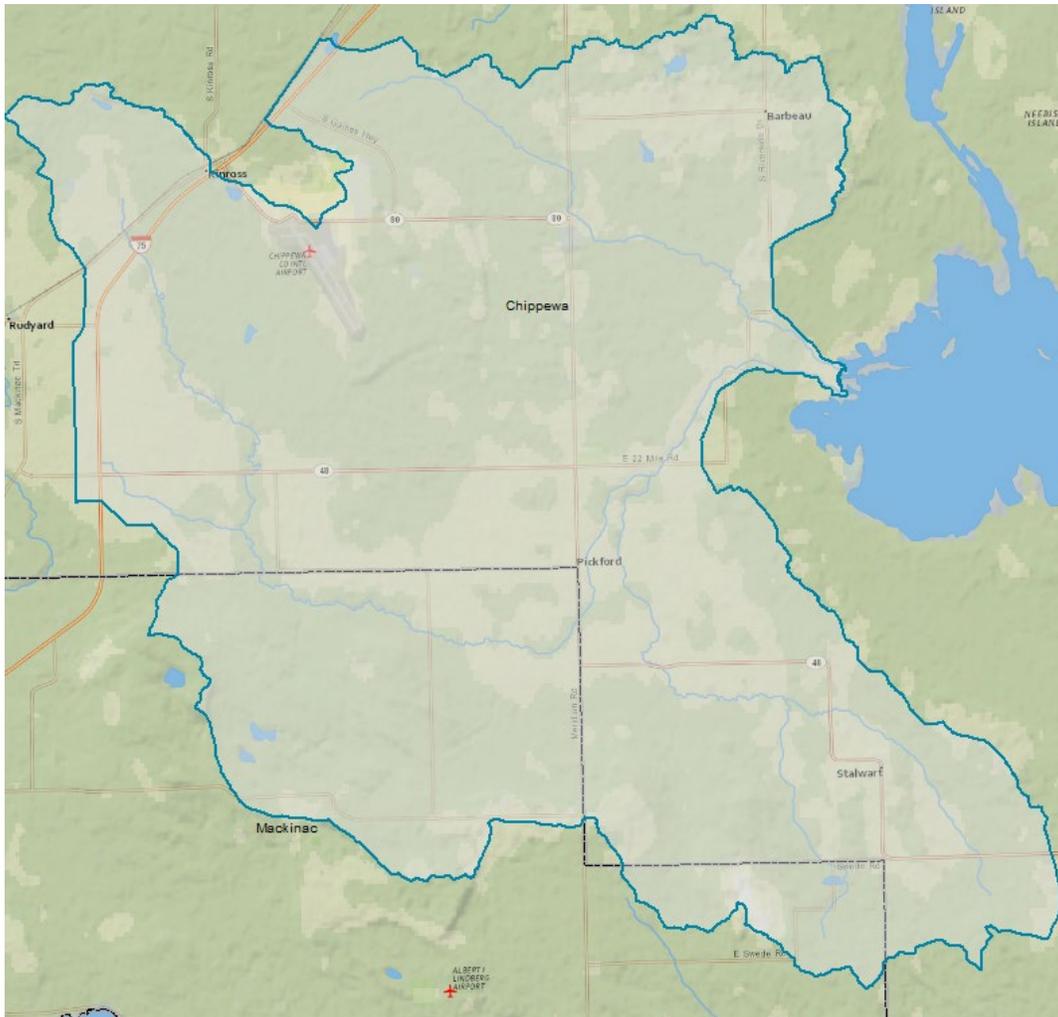
- [Munising Bay Watershed Management Plan](#)

### Watershed Websites

- [Alger County Conservation District](#)

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## MUNUSCONG RIVER



The Munuscong River Watershed Management Plan was developed by the Chippewa Luce Mackinac Conservation District and was approved as meeting both CMI and section 319 criteria in 2010. The Munuscong River planning area is 149,100 acres in size. The planning area is located in portions of Chippewa and Mackinac Counties. Land cover in the planning area is 40 percent wetland, 28 percent agriculture, 23 percent forested, 5 percent open, and 3 percent urban. Impaired designated uses in the planning area include indigenous aquatic life and wildlife, partial body contact, and total body contact. Pollutants of concern include pathogens, sediment, and temperature.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Chippewa Luce Mackinac Conservation District](#)
- [Munuscong River Watershed](#)

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## OTTER RIVER



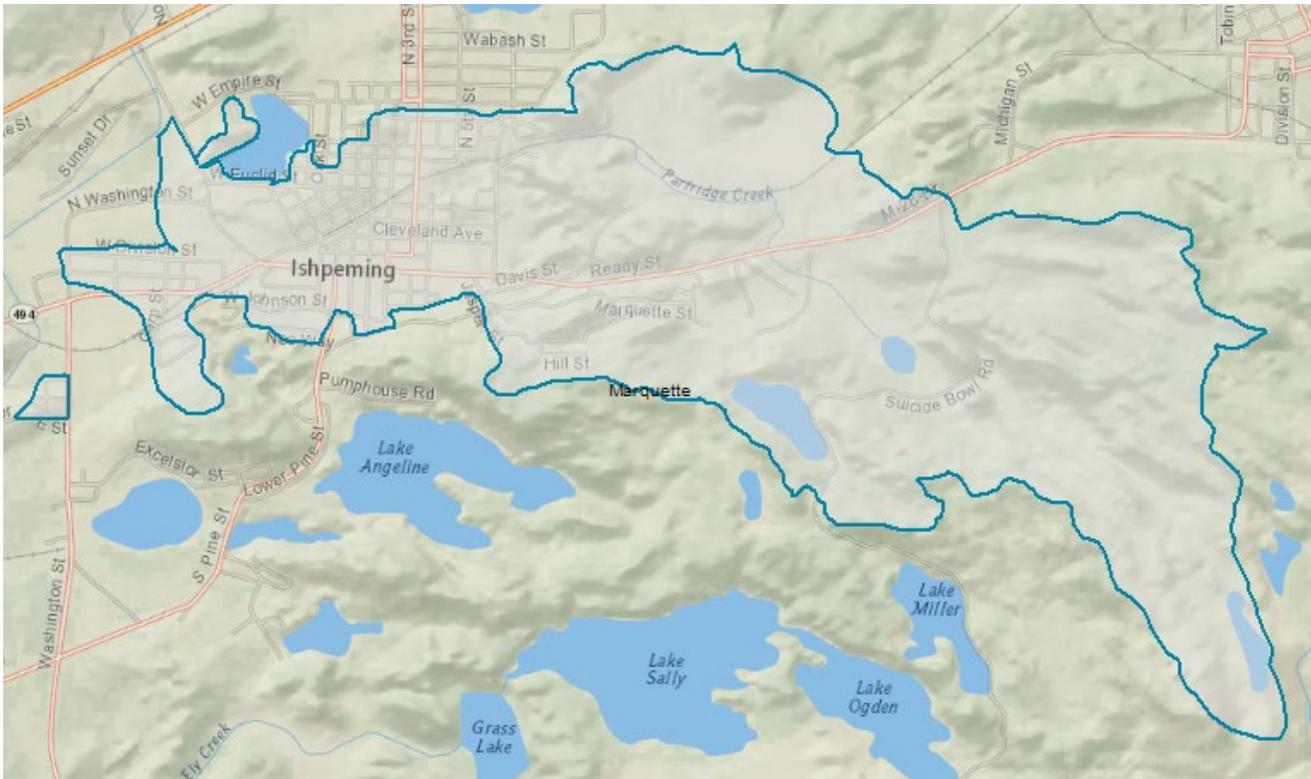
The Otter River Watershed Plan was developed by the Sturgeon/Otter River Watershed Council and received CMI approval in 2000. The planning area, located in Houghton, Baraga, and Ontonagon Counties and encompasses 106,350 acres. Land cover within the planning area is 89.1 percent forest, 5.4 percent agriculture, 3.5 percent urban roads, and 2 percent wetland. Designated uses addressed within the planning area include coldwater fisheries, warmwater fisheries, aquatic life and wildlife, and navigation. The primary pollutants in the watershed are sediments and hydrologic flow.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### **Watershed Websites**

- [Friends of the Land of Keweenaw](#)

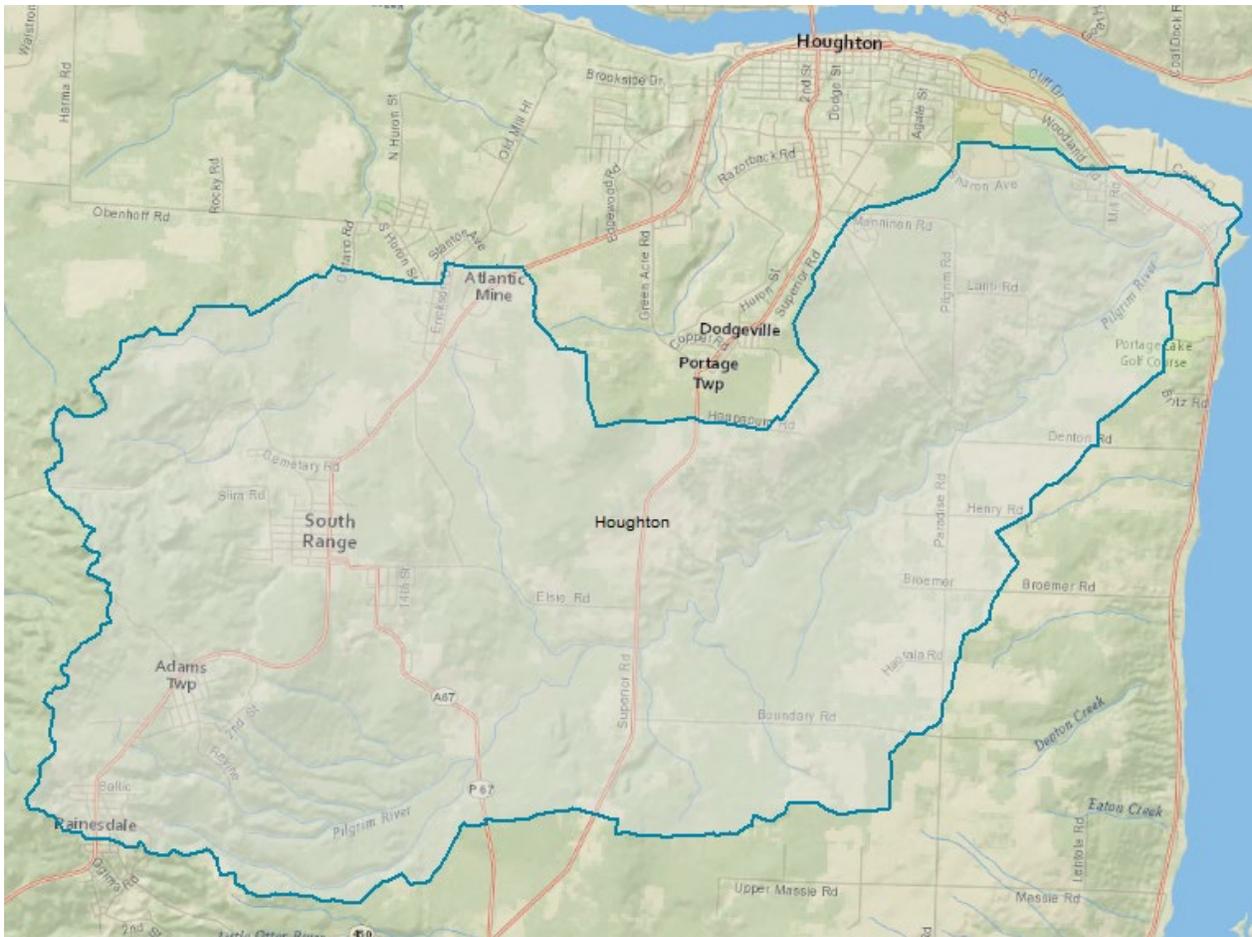
## PARTRIDGE CREEK



The Partridge Creek Watershed Management Plan was developed by AECOM in Marquette. The plan was approved as meeting both CMI and section 319 criteria in 2011. The planning area covers 1,780 acres in Marquette County. Land cover is identified as mostly forested, with some residential. Impaired designated uses in the watershed include warmwater fisheries, aquatic life and wildlife habitat, partial and total body contact recreation, and coldwater fisheries. Mercury is the major pollutant of concern in the Partridge Creek Watershed.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

## PILGRIM RIVER



The Pilgrim River Watershed Management Plan was developed by the Houghton Keweenaw Conservation District and was approved as meeting both CMI and 319 criteria in 2012. The Pilgrim River Watershed planning area covers approximately 15,546 acres of land in Houghton County. Land cover within the Pilgrim is 58 percent forested, 25 percent open, 12 percent wetland, 4 percent developed, and 1 percent lake and ponds. Designated uses within the watershed area being met.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Houghton Keweenaw Conservation District](#)

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## PINE CREEK (DICKINSON COUNTY)



The Pine Creek Watershed was approved as meeting CMI criteria in 1999. The Pine Creek Watershed is approximately 47,350 acres and is located within Dickinson County. The planning area is predominantly forested watershed. Pollutants of concern include sediment, nutrients, and pesticides.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Dickinson Conservation District](#)

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## SALMON TROUT RIVER



The Salmon Trout River Watershed Management Plan was developed by the Superior Watershed Partnership and was approved as meeting both CMI and 319 criteria in 2007. The Salmon Trout River planning area is located in the northwest portion of Marquette County and is 31,687 acres in size. Land cover within the planning area is 88 percent forest, 6 percent wetland, 4 percent barren (rock outcrop) and 1 percent water. Designated uses addressed within the planning area include coldwater fisheries, other indigenous aquatic life and wildlife, and public water supply (groundwater). The Salmon Trout River Watershed Management Plan addresses the sources of sediment, acid mine drainage, heavy metals, nutrients, and toxins.

### EGLE Nonpoint Source Links

- [Salmon Trout Watershed Management Plan](#)

### Watershed Websites

- [Superior Watershed Partnership and Land Trust](#)



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## TRAP ROCK RIVER



The Trap Rock River Watershed Management Plan was developed by the Houghton Keweenaw Conservation District and was approved as meeting CMI criteria in 1999. The Trap Rock River Watershed planning area encompasses 29,527 acres in Houghton and Keweenaw Counties. Land cover in the watershed is 73 percent forested, 11 percent urban, 5 percent agricultural, 5 percent grassland, and 2 percent wetland.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### Watershed Websites

- [Houghton Keweenaw Conservation District](#)

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## TWO HEARTED RIVER



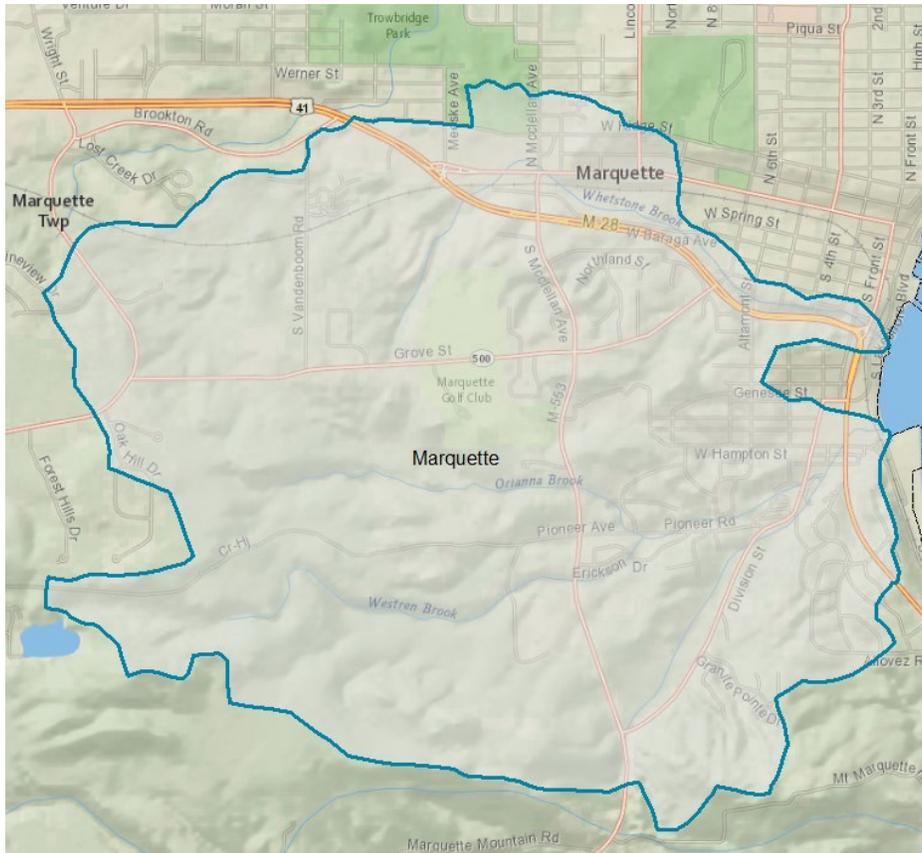
The Two Hearted River Watershed Management Plan was developed by the Superior Watershed Partnership in cooperation with The Nature Conservancy. The plan received both CMI and 319 approval in 2008. The watershed is predominantly located in Luce County with a small portion in Alger County. The planning area is 132,478 acres in size. Land cover is 83 percent forest, 17 percent wetland, 1 percent shrubland, and 1 percent water. There are no impaired designated uses, but the plan addresses issues with the coldwater fisheries, other aquatic life and wildlife, and public water supply. The primary pollutant of concern is sediment.

### **Watershed Websites**

- [Two Hearted River Watershed Management Plan](#)
- [Superior Watershed Partnership and Land Trust](#)

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## WHETSTONE BROOK AND ORIANNA CREEK



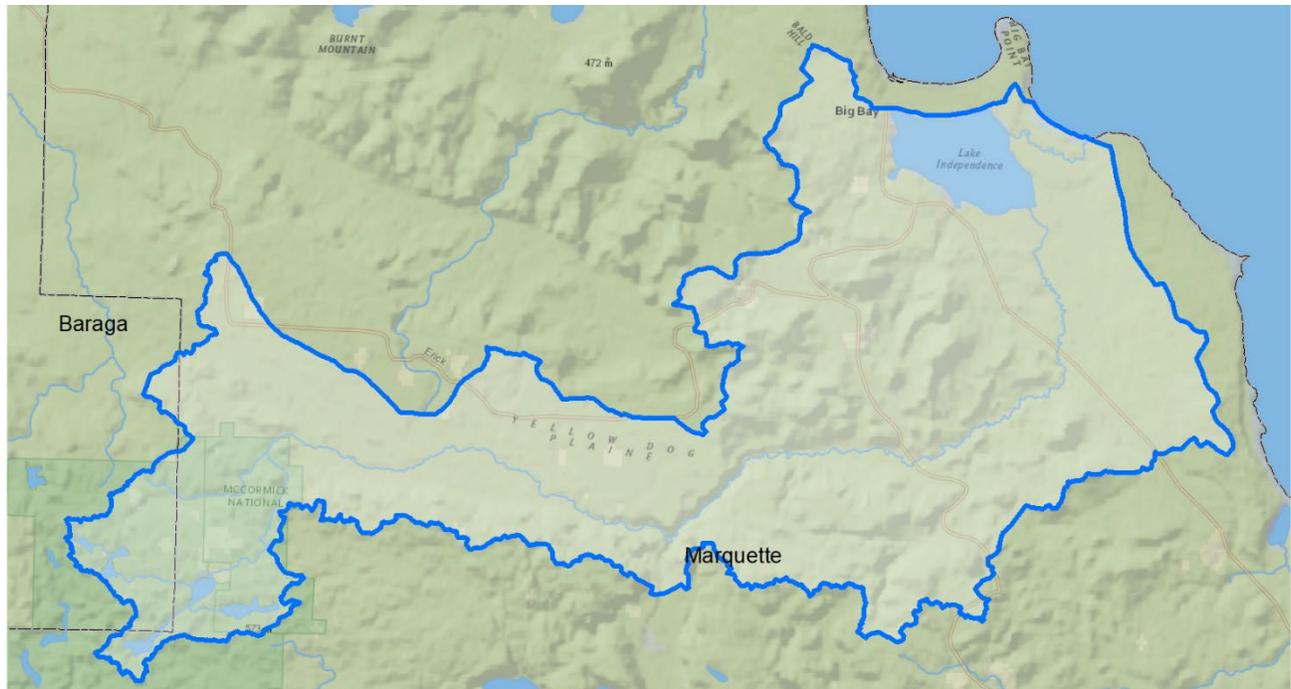
The Whetstone Brook and Orianna Creek Watershed Management Plan was developed by the Whetstone Brook and Orianna Creek Watershed Council and was approved as meeting CMI criteria in 2002. The Whetstone Brook and Orianna Creek Watershed Planning area is 3,225 acres in size and located in Marquette County. Land cover in the planning area is 58 percent open space, 20 percent residential, 13 percent commercial, 8 percent conservation/recreation, and 1 percent community/institutional. There are no impaired designated uses in the planning area. Pollutants of concern in the watershed are nutrients and metals.

### Watershed Websites

- [Whetstone Brook and Orianna Creek Watershed Plan](#)
- [Superior Watershed Partnership and Land Trust](#)

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## YELLOW DOG RIVER



The Yellow Dog Watershed Management Plan was prepared by the Yellow Dog Watershed Preserve and was approved as meeting CMI and 319 criteria in 2018. The planning area is in portions of Marquette and Baraga Counties and encompasses 62,832 acres. Land cover within the planning area 71 percent forest, 5 percent water, 2 percent urban, and 22 percent other. There are no impaired designated uses within the planning area. Pollutants of concern within the watershed sediment, heavy metals, nutrients, and toxins.

*For a copy of the approved watershed management plan, please contact [NPS Program District Staff for your area or the NPS Program Watershed Planning Coordinator](#).*

### **Watershed Websites**

- [Yellow Dog Watershed Preserve](#)