

Appendix D

Nonattainment List for the Lake Huron Watershed (Michigan Only)

The State of Michigan Department of Environmental Quality prepared the Total Maximum Daily Loads (TMDLs) YEAR 2000 SECTION 303(d) REPORT to fulfill the requirements set forth in Section 303(d) of the federal Clean Water Act (CWA) and the Water Quality Planning and Management regulation at 40 CFR Part 130. Thee report was submitted to the USEPA by the Michigan Department of Environmental Quality (MDEQ) for review and approval of Michigan's list of water quality-limited or threatened waters needing established pollutant TMDLs. The report provides the state's supporting documentation required by 40 CFR 130.7(b)(6) and rationale in fulfilling Section 303(d) requirements.

The Section 303(d) list contains the following information from Michigan's Waterbody System database as required by USEPA guidance:

- Waterbody I.D. Number;
- Reach File 3 Indexing Number;
- Stream/Lake Name;
- Location Description;
- Size (stream miles, lake acres);
- Problem Summary; and
- Scheduled TMDL completion year.

Table D identifies the number of waterbodies in the Lake Huron basin by use impairment.

Table D-1. Waterbodies in the Lake Huron basin by use impairment.

Use Impairment	Number of Sites*
Fish consumption advisory for PCBs	22
Pathogens (untreated sewage discharges)	6
Pathogens (beach closings)	6
Pathogens (combined sewer overflows)	5
Macroinvertebrate community rated poor	5
Fish consumption advisory for Mercury	4
Fish community rated poor	4
Nutrient enrichment (nuisance algae/plant growth/bacterial slimes)	4
Fish consumption advisory for Dioxins	3
Mercury lakes	3
WQS exceedances for Dissolved Oxygen	3
WQS exceedances for Total Dissolved Solids	2
Fish consumption advisory for DDT	2
Fish consumption advisory for PBB	2
Water Quality Standards exceedance for Mercury	2
Water Quality Standards exceedances for Alachlor	1

Each site listed may have more than one Use Impairment.

Nonattainment List for the Lake Huron Watershed (Michigan Only)

<p>ALMA IMPOUNDMENT (PINE RIVER) County: GRATIOT Location: Impoundment of the Pine River n the vicinity of Alma. Reach File: 4080201 Problem: FCA-PCBs.</p>	<p>ID#: 210421 SIZE: 150 A</p>
<p>AU SABLE RIVER County: IOSCO Location: Lake Huron u/s to Foote Dam. Reach File: 4070007 12 Problem: FCA-PCBs, mercury.</p>	<p>ID#: 210801A SIZE: 9 M</p>
<p>BAD RIVER% ID#: 210418A County: SAGINAW Location: Saginaw/Gratiot County Lines d/s to the Shiawassee River confluence. Reach File: 4080203 10 0.67 Problem: FCA-PCBs.</p>	<p>SIZE: 18 M</p>
<p>BEAVER LAKE County: ALPENA Location: SE of Fletcher Pond and SW of Alpena. Reach File: 4070006 544 0.00 Problem: Mercury Lake.</p>	<p>ID#: 211001B SIZE: 665 A</p>
<p>BELLE RIVER AND N. BR. BELLE RIVER County: LAPEER/ST. CLAIR Location: Riley Center Rd. u/s to Berville Rd. and Bowman Rd. u/s to Imlay City Rd. Reach File: 4090001 16 Problem: WQS exceedances for TDS and D.O.; Macroinvertebrate community rated poor.</p>	<p>ID#: 061501 SIZE: 11 M</p>
<p>BERRY DRAIN County: SANILAC Location: Stontenberg Road, one-half mile south of M-46 d/s to the Berkshire Road bridge. Reach File: 4090001 000 Problem: Macroinvertebrate community rated poor.</p>	<p>ID#: 061506A SIZE: 4 M</p>
<p>BLACK RIVER County: ST. CLAIR Location: St. Clair River confluence u/s to I-94; vicinity of Port Huron. Reach File: 4090001 000 Problem: CSO, pathogens (Rule 100).</p>	<p>ID#: 061504A SIZE: 1.5 M</p>
<p>BURDICK DRAIN County: LAPEER</p>	<p>ID#: 210414 SIZE: 0.5 M</p>

Location: Enters NE part of Potters Lake after crossing Davison Rd. and Olgelthorp Rd., Elba Twp., SE 1/4 of the SW 1/4 of Sec. 6. (T7N, R9E).

Reach File: 4080204 0

Problem: Untreated sewage discharge, pathogens (Rule 100).

BUTTERNUT CREEK

County: MONTCALM

Location: Fish Creek confluence u/s to headwaters.

Reach File: 4050005 19

Problem: Fish community rated poor; bacterial slimes, pathogens (Rule 100).

ID#: 082808F
SIZE: 8.5 M

CASS RIVER%

County: SAGINAW

Location: Shiawassee River confluence to u/s to Frankenmuth.

Reach File: 4080205 1 0.00

Problem: FCA-PCBs, TCDD (dioxin), mercury.

ID#: 210402B
SIZE: 7 M

CEDAR RIVER

County: GLADWIN

Location: Vicinity of Gladwin; M-61 d/s to Howard Oil Field Road.

Reach File: 4080201 37

Problem: CSO, pathogens (Rule 100).

ID#: 210429A
SIZE: 9 M

CHEBOYGANING CREEK%

County: SAGINAW

Location: Saginaw River confluence u/s to headwaters.

Reach File: 4080206 2 0.00

Problem: FCA-PCBs.

ID#: 210408A
SIZE: 12 M

CROSWELL IMPOUNDMENT (BLACK RIVER)

County: SANILAC

Location: Vicinity of Croswell (Croswell Impoundment

Reach File: 4090001 715.57

Problem: FCA-PCBs.

ID#: 061504F
SIZE: 12 A

CULVER CREEK

County: BAY

Location: Kawkawlin River confluence u/s.

Reach File: 4080102 12

Problem: Macroinvertebrate community rated poor; WQS exceedances for TDS. rated poor; Nuisance algae and bacterial slime growths. exceedances for mercury.

ID#: 210501A
SIZE: 0.5 M

DUFF CREEK

County: SANILAC

Location: Germania Rd. u/s to the vicinity of Marlette.

Reach File: 4080205 371

Problem: Untreated sewage discharges, pathogens (Rule 100).

ID#: 210406A
SIZE: 5.5 M

FLINT RIVER (MAIN)

County: SAGINAW/GENESEE

ID#: 210409
SIZE: 52 M

Location: From the Shiawassee River confluence u/s to the first dam just d/s of the IMA Auditorium in the vicinity of Flint.
Reach File: 4080204 941 0.00
Problem: FCA-PCBs.

FLINT RIVER, S. BR. **ID#:** 210413P
County: LAPEER **SIZE:** 15 M
Location: Winns Pond u/s to the Lapeer Co. and Oakland Co. line to Horseshoe Lake outlet.
Reach File: 4080204 2112.18
Problem: Fish community rated poor.

HART DRAIN **ID#:** 210415
County: SHIAWASSEE **SIZE:** 0.5 M
Location: Tributary to Shiawassee River located S. of Henderson in the vicinity of Berger & Company facility.
Reach File: 4080203 566 0.00
Problem: WQS exceedances of Alachlor; Fish community rated poor.

HOLLOWAY RESERVOIR (FLINT RIVER IMP.) **ID#:** 210411X
County: GENESEE **SIZE:** 954 A
Location: NE of Richfield Center (Flint area).
Reach File: 4080204
Problem: FCA-PCBs.

KAWKAWLIN RIVER **ID#:** 210501F
County: BAY **SIZE:** 5 M
Location: Saginaw Bay confluence u/s to the N. Br. Kawkawlin River confluence.
Reach File: 4080102 5
Problem: FCA-PCBs.

KAWKAWLIN RIVER, N. BR. **ID#:** 210501
County: BAY **SIZE:** 13 M
Location: Kawkawlin River confluence u/s to Eight Mile Road.
Reach File: 4080102 6
Problem: WQS exceedance for D.O.

LAKE BESSER (NINTH STREET POND) **ID#:** 211002
County: ALPENA **SIZE:** 392 A
Location: Vicinity of Alpena.
Reach File: 4070006 1 1.84
Problem: Mercury Lake.

LAKE HURON - BURTCHVILLE TWP. PARK BEACH **ID#:** 210101F
County: ST. CLAIR **SIZE:** 1 M
Location: East end of Harris Rd.
Reach File: 40801042956
Problem: Beach closings, pathogens (Rule 100).

LAKE HURON - KEEWADHIN ROAD BEACH **ID#:** 210101
County: ST. CLAIR **SIZE:** 1 M
Location: East end Keewahdin Rd.

Reach File: 40801042643
Problem: Beach closings, pathogens (Rule 100).

LAKE HURON - LAKEPORT STATE CAMPGROUND BEACH

County: ST. CLAIR
Location: Lakeport State Park, N. of Lakeport.
Reach File: 40801042372
Problem: Beach closings, pathogens (Rule 100).

ID#: 210101
SIZE: 1 M

LAKE HURON - METCALF ROAD BEACH

County: ST. CLAIR
Location: East end Metcalf Rd.
Reach File: 40801042035
Problem: Beach closings, pathogens (Rule 100).

ID#: 210101E
SIZE: 1 M

MILL CREEK ID#: 061503A

County: ST. CLAIR
Location: Village of Yale, T7N,R14E, Sec.1.
Reach File: 4090001 1415.00
Problem: Untreated sewage discharge, pathogens (Rule 100).

SIZE: 1 M

NETTIE LAKE

County: PRESQUE ISLE
Location: SE of Millersburg.
Reach File: 4070003 1222.63
Problem: Mercury Lake.

ID#: 211201B
SIZE: 278 A

PINE CREEK (WATERSHED)

County: GRATIOT
Location: SW of Ithaca. Grant Road u/s to 0.8 miles u/s of St. Charles Road.
Reach File: 4080202 25
Problem: Nutrient enrichment, nuisance plant growths.

ID#: 082821L
SIZE: 9 M

PINE RIVER ID#: 061502F

County: ST. CLAIR
Location: St. Clair River confluence u/s to I-69.
Reach File: 4090001 15 0.00
Problem: FCA-PCBs.

SIZE: 27 M

PINE RIVER

County: MIDLAND/GRATIOT
Location: Confluence of Chippewa River u/s to St. Louis Impoundment at M-46.
Reach File: 4080202 11
Problem: FCA-PBB, DDT; Nutrient enrichment, nuisance algal growths.

ID#: 210421A
SIZE: 36 M

POTTERS LAKE

County: LAPEER
Location: Vicinity of Elba Twp.
Reach File: 4080204 675 0.00

ID#: 210413F
SIZE: 160 A

Problem: Untreated sewage discharge, pathogens (Rule 100).

RIFLE RIVER

County: ARENAC

Location: Saginaw Bay confluence u/s to 1 mile u/s of U.S. Rt. 23 (Vicinity of Omer).

Reach File: 4080101 24 0.03

Problem: FCA-PCBs.

ID#: 210602A
SIZE: 8 M

SAGINAW RIVER% ID#: 210401A

County: BAY

Location: Saginaw Bay confluence u/s for its entire length.

Reach File: 4080206 1

Problem: FCA-PCBs, TCDD (dioxin); WQS exceedances for D.O.

SIZE: 21 M

SEBAWAING RIVER

County: HURON

Location: Vicinity of Sebawaing.

Reach File: 4080103

Problem: FCA-PCBs.

ID#: 210301E
SIZE: 2 M

SHIAWASSEE RIVER

County: SAGINAW

Location: Vicinity of Oakley d/s.

Reach File: 4080203 9 1.29

Problem: Untreated sewage discharge, pathogens (Rule 100).

ID#: 210415B
SIZE: 0.5 M

SHIAWASSEE RIVER AND S. BR. SHIAWASSEE RIVER

County: SHIAWASSEE

Location: Shiawassee River from the Saginaw River confluence u/s to Byron Mill Pond, thence, the S. Br. Shiawassee River from Byron u/s to M-59 (vicinity of Howell).

Reach File: 4080203 1 0.00

Problem: FCA-PCBs.

ID#: 210417A
SIZE: 107 M

SHIAWASSEE RIVER, S. BR.

County: LIVINGSTON

Location: Route M-59 u/s to Pinckney Road.

Reach File: 4080203 20

Problem: Fish community rated poor.

ID#: 210417
SIZE: 6 M

SMITH'S CREEK ID#: 061502B

County: ST. CLAIR

Location: Vicinity of Smith's Creek (drains to Pine River).

Reach File: 4090001 32 0.00

Problem: CSO, pathogens (Rule 100), Macroinvertebrate community poor.

SIZE: 3 M

ST. CLAIR RIVER

County: ST. CLAIR

Location: Algonac u/s to the Black River confluence at Port Huron

Reach File: 4090001 1 0.00

Problem: FCA-PCBs, mercury; CSO, pathogens (Rule 100).

ID#: 061502A
SIZE: 30 M

ST. LOUIS IMPOUNDMENT (PINE RIVER)	ID#: 210421
County: GRATIOT	SIZE: 130 A
Location: Impoundment of the Pine River in the vicinity of St. Louis.	
Reach File: 4080201	
Problem: FCA-PBB, DDT.	
ST. MARYS RIVER	ID#: 211701A
County: CHIPPEWA	SIZE: 0.02 M
Location: At Sault Ste. Marie.	
Reach File: 4070001 4	
Problem: CSO, pathogens (Rule 100).	
ST. MARYS RIVER	ID#: 211701E
County: CHIPPEWA	SIZE: 50 M
Location: St. Mary's River system, from Sault Ste. Marie to east side of Drummond Island.	
Reach File: 4070001 4	
Problem: FCA-PCBs, mercury.	
TAWAS RIVER	ID#: 210703
County: IOSCO	SIZE: 2 M
Location: Lake Huron confluence u/s to the Tawas Lake outlet.	
Reach File: 4080101 7 0.00	
Problem: FCA-PCBs.	
THREAD CREEK AND THREAD LAKE	ID#: 210414
County: GENESEE	SIZE: 26 M
Location: Genesee/Oakland county line d/s to Thread Lake	
Reach File: 4080204 816.03	
Problem: FCA-PCBs.	
THREE MILE CREEK	ID#: 210416
County: SHIAWASSEE	SIZE: 5 M
Location: Vicinity of Durand; Durand Road u/s to Miller Road.	
Reach File: 4080203 677 0.00	
Problem: Fish and macroinvertebrate communities rated poor; Nutrient enrichment, nuisance plant growths.	
THUNDER BAY	ID#: 210902A
County: ALPENA	SIZE: A
Location: Vicinity of Alpena.	
Reach File: 4070003 2	
Problem: FCA-PCBs.	
THUNDER BAY RIVER	ID#: 211002E
County: ALPENA	SIZE: 1 M
Location: Thunder Bay confluence u/s to the 9th Street Dam (Besser Lake Dam).	
Reach File: 4070006 1	
Problem: FCA-PCBs	

TITTABAWASSEE RIVER ID#: 210420
 County: SAGINAW/MIDLAND SIZE: 1 M
 Location: Saginaw River confluence u/s to the City of Midland's dam.
 Reach File: 4080201 120.11
 Problem: Untreated sewage discharge, pathogens (Rule 100).

TITTABAWASSEE RIVER% ID#: 210420B
 County: SAGINAW/MIDLAND SIZE: 43 M
 Location: Saginaw River confluence u/s to the City of Midland dam.
 Reach File: 4080201 1
 Problem: FCA-PCBs, TCDD (dioxin); Untreated sewage discharge, pathogens (Rule 100).

TOBICO MARSH ID#: 210501
 County: BAY SIZE: 680 A
 Location: NE of Kawkawlin.
 Reach File: 40801020208 0.88
 Problem: FCA-PCBs.

UNNAMED TRIBUTARY TO WOLF CREEK ID#: 210422A
 County: MONTCALM SIZE: 1 M
 Location: Section 27, T12N,R6W, Edmore Quad. Stream wetland complex from Hitachi Magnetic's outfall to Deja Road.
 Reach File: 4080202 26
 Problem: WQS exceedances for mercury.

Criteria Used to Determine Nonattainment Status

The following decision criteria were used in evaluating designated use nonattainment for each waterbody.

- Water Quality Standards (WQS) are the minimally acceptable water quality conditions.
- Ambient chemistry and microorganisms exceedances of the WQS are evaluated and determined on a case-by-case basis. Nonattainment is determined by assessing the severity and frequencies of the exceedances.
- When using biological community results, only the "poor" rating is used to place a waterbody on the Nonattainment List.
- Waterbodies with combined sewer overflows or untreated sewage discharges are placed on the Nonattainment List.
- Waterbodies with Fish Consumption Advisories are placed on the Nonattainment List.
- Inland lakes with representative fish tissue levels averaging over 0.5 mg/kg for mercury are placed on the Nonattainment List.

Threatened Status Criteria

- Threatened waterbodies are those that presently meet WQS but are expected to exceed standards before April 2002. A waterbody is fully supporting but threatened for a particular designated use/compound when the use/compound may not meet WQS by April 2002 unless pollution prevention or control action is taken because of anticipated sources or adverse pollution trends.

