



Lake Ontario/Fourmile Creek Watershed (0414010106)

Water Index Number	Waterbody Segment	Category
Ont (portion 15)	Lake Ontario Shoreline, Central (0302 0045)	Impaired Seg
Ont 93	Salmon Creek, Lower (0302 0068)	Need Verific
Ont 93	Salmon Creek, Upper, and tribs (0302 0069)	Need Verific
Ont 93 thru 99 (selected)	Minor Tribs to Lake Ontario, Central (0302 0070)	UnAssessed
Ont 96	Bear Creek and tribs (0302 0071)	UnAssessed
Ont 98	Mill Creek and minor tribs (0302 0072)	UnAssessed
Ont 98 1	Deer Creek and tribs (0302 0073)	UnAssessed

Lake Ontario Shoreline, Central (0302-0045)

Impaired

Waterbody Location Information

Revised: 7/30/2015

Water Index No: Ont (portion 15) **Drain Basin:** Lake Ontario
Unit Code: 04140101 **Class:** A Lake Ontario Central
Water Type/Size: G Lakes Shore 14.2 Miles **Reg/County:** 8/Wayne (59)
Description: shoreline from Pultneyville to Ninemile Point

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	Fully Supported	Known
Public Bathing	Fully Supported	Suspected
Recreation	Fully Supported	Suspected
Aquatic Life	Fully Supported	Known
Fish Consumption	Impaired	Known

Conditions Evaluated

Habitat/Hydrology	Fair
Aesthetics	Good

Type of Pollutant(s)

Known: PESTICIDES (MIREX), PRIORITY ORGANICS (PCBS), PRIORITY ORGANICS (DIOXIN)
Suspected: - - -
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: TOX/CONTAM. SEDIMENT, Atmospheric Deposition
Suspected: - - -
Unconfirmed: - - -

Management Information

Management Status: Verification of Sources Needed
Lead Agency/Office: DEC/GLks
IR/305(b) Code: Impaired Water Requiring a TMDL (IR Category 5)

Further Details

Overview

This portion of the Lake Ontario Shoreline is assessed as an impaired waterbody due to fish consumption that is considered to be impaired by contamination from the past/historic discharge of organics (PCBs, dioxin) and pesticides (mirex). No specific impacts to other uses in this waterbody have been noted.

Use Assessment

This waterbody segment is a Class A waterbody, suitable for water supply, public bathing and general recreation use and support of aquatic life.

Public water supply use of Lake Ontario is fully supported. The waterbody is used as a public supply for numerous municipalities in Wayne and Monroe Counties, including Rochester. The most recent annual water quality reports indicate no contaminants in finished (treated) water exceed regulatory limits. A Source Water Assessment by the NYSDOH conducted in the early 2000s found that, in general, public water supplies that use Great Lakes sources are not very susceptible to contaminants because of the size and quality of the Great Lakes. (NYSDOH, Source Water Assessment Program, 2005)

Recreational uses of this waterbody are thought to be fully supported. Reports of dense algal growth which impacts other reaches of the Lake Ontario Shoreline are not reported to similarly impact this reach. There are no monitored designated public beaches within this reach.

Lake Ontario supports a diverse and world-class recreational sporting fishery which includes trophy-sized trout, salmon and walleye in the open lake, as well as superb near-shore angling for smallmouth bass and panfish. However fish consumption in this portion of Lake Ontario (and all tribs to the first impassable barrier) is impaired due to a NYS DOH health advisory that recommends eating no channel catfish or carp, and eating no more than one meal per month of white sucker, larger lake trout (over 25 inches), or larger brown trout (over 20 inches) because of elevated levels of PCBs, dioxin and mirex. The advisory also recommends eating no more than one meal per month of white perch for portions of the lake east of Point Breeze. Harvest/possession of American eel is also prohibited. Restrictions for some species have been reduced in recent years. The source of organics/pesticides is contaminated lake sediments, the result of past/historic industrial discharges to the lake, the Niagara River and the Upper Great Lakes. The advisory for this lake was first issued prior to 1998-99. (2014-15 NYS DOH Health Advisories and DEC/DFWMR, Habitat, January 2014)

Habitat concerns include the impact of invasive species, including zebra/quagga mussels, round goby, fishhook and spiny waterflea, on the biologic community, as well as on other uses of the waterbody.

Water Quality Information

The Great Lakes are the focus of considerable national and international study. This assessment relies on monitoring data and information from the USEPA Great Lakes Program, the NYSDEC Great Lakes Program, and other participants in the Binational Great Lakes Water Quality Agreement, as well the work of numerous academic researchers. Monitoring of public bathing beaches along the Lake Ontario shore is conducted by NYS and local health departments.

Source Assessment

The primary sources of chemical pollutants that have the greatest impact on the waterbody include contaminated sediments and atmospheric deposition that result in health advisories for fish consumption. Habitat alteration, specifically the presence of ecosystem-altering invasive species, is also a source of impacts.

Management Actions

Efforts to restore and protect the waters of Lake Ontario are coordinated by the NYSDEC Great Lakes Program. Working with stakeholders throughout the basin, the Program has developed a new, fully integrated action plan that guides restoration and conservation activities in New York's Great Lakes region. This action plan, or interim Great Lakes Action Agenda, is a multi-agency, multi-program, and cross-region strategic plan to support innovative programs and build new partnerships at multiple levels of local, state, and federal government across the state's Great Lakes basin. The plan identifies high priority actions and focuses federal and state funding opportunities to address the most critical challenges unique to this region, including contamination clean-up, restoration of fish and wildlife, waterfront and economic development, climate change resiliency strategies, and recreation and tourism development. (DEC, Great Lakes Program, July 2015)

The NYSDEC Great Lakes Program supports the commitments made by the governments of the United States and Canada, as part of the 1987 Great Lakes Water Quality Agreement (GLWQA) as amended in 2013, to develop a

Lakewide Action and Management Plan (LAMP) for each of the five Great Lakes. The Lake Ontario LAaMP is a binational, cooperative effort that also involves a large number of local, statewide and federal partners. The goals of the LAMP are to restore and protect the health of Lake Ontario's water and aquatic ecosystem by reducing chemical pollutants entering the lake and addressing the biological and physical factors impacting the lake. The LAMP is being revised to reflect new Lake Ecosystem Objectives that will assess and address specific environmental stressors that adversely affect water quality and ecosystem health. (DEC, Great Lakes Program, July 2015)

Section 303(d) Listing

This portion of Lake Ontario shoreline is included on the current (2015) NYS Section 303(d) List of Impaired/TMDL Waters. The waterbody is included on Part 2b due to fish consumption restrictions related to PCB, dioxin, mirex contamination. This waterbody was first listed for organics in 1998. (DEC/DOW, BWAM/WQAS, January 2015)

Segment Description

This segment includes the portion of the Lake Ontario shoreline from the mouth of Salmon Creek in Pultneyville to Ninemile Point near the mouth of Fourmile Creek. The waters of this portion of the shoreline are Class A. Tribs to this reach/segment are listed separately.

Salmon Creek, Lower (0302-0068)

Need Verific

Waterbody Location Information

Revised: 05/04/2007

Water Index No: Ont 93
Hydro Unit Code: 04140101/030 **Str Class:** B
Waterbody Type: River
Waterbody Size: 17.9 Miles
Seg Description: stream and tribs, from mouth to Pultneyville

Drain Basin: Lake Ontario
Reg/County: 8/Wayne Co. (59)
Quad Map: PULTNEYVILLE (H-12-4)

Water Quality Problem/Issue Information (CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Possible

Type of Pollutant(s)

Known: ---
Suspected: UNKNOWN TOXICITY
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: AGRICULTURE
Possible: ---

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 1 (Waterbody Nominated, Problem Not Verified)
Lead Agency/Office: DOW/Reg8
TMDL/303d Status: n/a

Resolution Potential: Medium

Further Details

Aquatic life support in Salmon Creek may experience minor impacts/threats due to unidentified stressors.

A biological (macroinvertebrate) assessment of Salmon Creek in Pultneyville (at Route 21) was conducted in 2001. Sampling results indicated moderately impacted water quality conditions, however very low seasonal (summer) are thought to be a significant influence on the sampling results. The sample that was collected indicated impacts that were the result of toxic inputs. Because of the poor sampling conditions, these impacts are listed as needing to be verified by additional sampling. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the portion of the stream from the mouth to State Route 21 in Pultneyville. The waters of this portion of the stream are Class B. Upper Salmon Creek is listed separately.

Salmon Creek, Upper, and tribs (0302-0069)

Need Verific

Waterbody Location Information

Revised: 05/04/2007

Water Index No: Ont 93
Hydro Unit Code: 04140101/030 **Str Class:** C
Waterbody Type: River
Waterbody Size: 10.4 Miles
Seg Description: stream and tribs, above Pultneyville

Drain Basin: Lake Ontario
Reg/County: 8/Wayne Co. (59)
Quad Map: PULTNEYVILLE (H-12-4)

Water Quality Problem/Issue Information (CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Possible

Type of Pollutant(s)

Known: ---
Suspected: UNKNOWN TOXICITY
Possible: ---

Source(s) of Pollutant(s)

Known: ---
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This segment includes the portion of the stream and all tribs above State Route 21 in Pultneyville. The waters of this portion of the stream are Class C. Tribs to this reach/segment are also Class C. Lower Salmon Creek is listed separately.