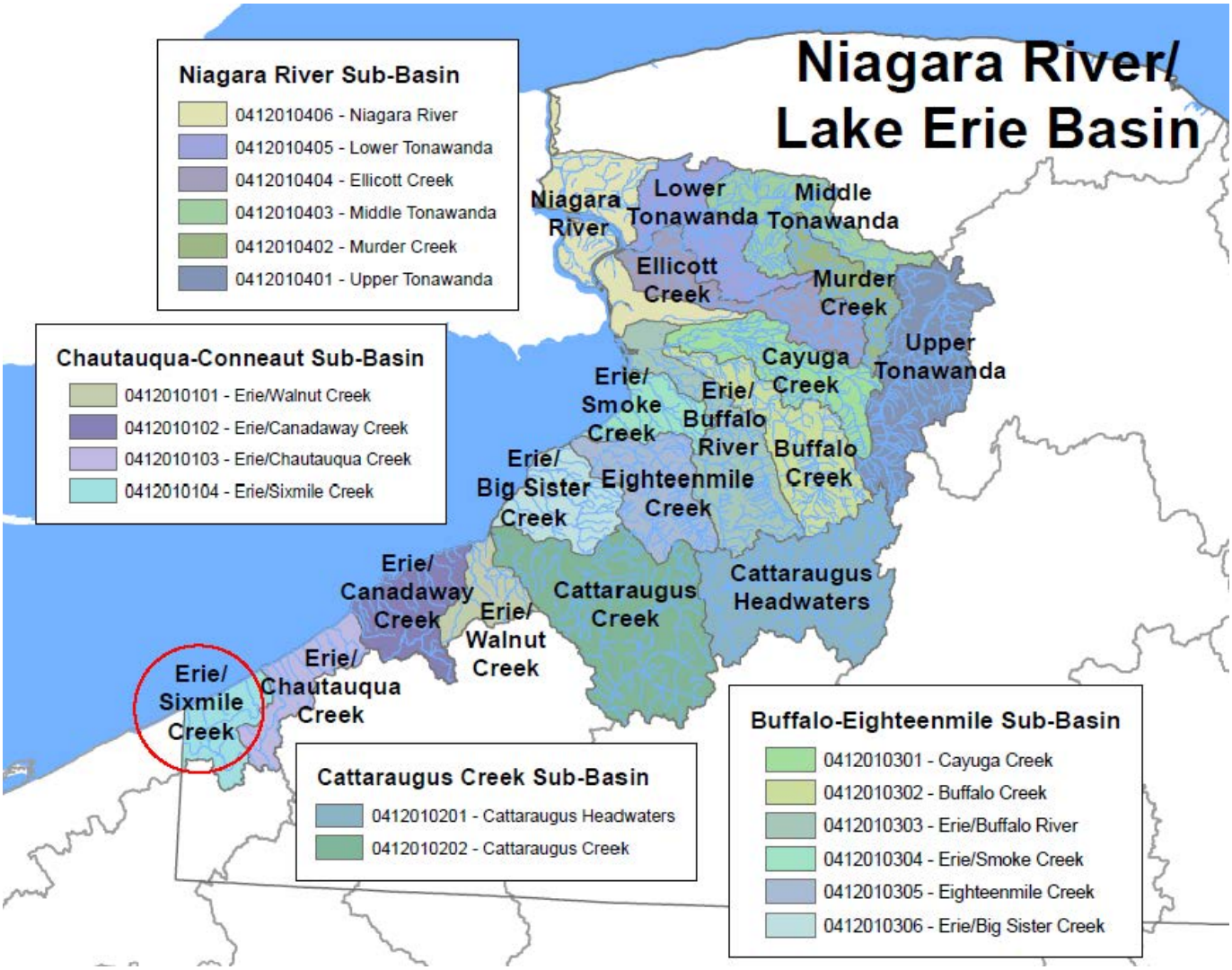

Sixmile Creek – Frontal Lake Erie
(0412010104)

Water Index Number	Waterbody Segment	Category
Ont 158-E (portion 9)	Lake Erie (Barcelona Harbor) (0105-0011)	**Impaired Seg**
Ont 158..E-69 thru 95	Minor Tribs to Lake Erie (0105-0030)	**Need Verific**
Ont 158..E-96	Twentymile Creek and minor tribs (0105-0003)	**NoKnownImpct**
Ont 158..E-96- 3	Upper Belson Creek/Gage Gulf and tribs (0105-0031)	**Threatened**
Ont 158..E-97	Unnamed tribs to Pennsylvania (0105-0032)	UnAssessed

Lake Erie (Barcelona Harbor) (0105-0011) Impaired Seg

Waterbody Location Information

Revised: 05/07/2010

Water Index No: Ont 158-E (portion 7b)
Hydro Unit Code: 04120101/ **Str Class:** B
Waterbody Type: G.Lakes
Waterbody Size: 0.7 ShrMi
Seg Description: portion as described below

Drain Basin: Lake Erie-Niagara River
Lake Erie-Chautauqua
Reg/County: 9/Chautauqua Co. (7)
Quad Map: WESTFIELD (L-02-3)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
FISH CONSUMPTION	Impaired	Known

Type of Pollutant(s)

Known: PRIORITY ORGANICS (PCBs)
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: TOX/CONTAM. SEDIMENT
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: DEC/FWMR **Resolution Potential:** Low
TMDL/303d Status: 2b (Multiple Segment/Categorical Water, Fish Consumption)

Further Details

Overview
Fish consumption in this portion of Lake Erie Shoreline is considered to be impaired due to PCB contamination from Lake sediments attributed to past/historic industrial discharges.

Fish Consumption Advisories
Fish consumption in Lake Erie is impaired by a NYS DOH health advisory that recommends that women of childbearing age and children under the age of 15 eat no more than one meal per month of certain species due to PCB contamination. Advisories for this population regarding some species (smaller chinook salmon, burbot, freshwater drum, lake whitefish, rock bass and yellow perch) recommend a less restrictive limit of no more than one meal per week - the same as the general (statewide) advisory for fish consumption for all people. However, because the more stringent restrictions apply to a significantly large population, fish consumption in the Lake Erie is considered to be impaired. (2002-03 NYS DOH Health Advisories, May 2010).

Section 303d Listing

This segment of Lake Erie Shoreline is included on the NYS 2010 Section 303(d) List of Impaired Waters. The lake is included on Part 2b of the List as a fish consumption water. This waterbody was first listed on the 2002 Section 303(d) List. (DEC/DOW, BWAM/WQAS, January 2010)

Segment Description

This segment includes the lake shoreline between the east and west breakwater. The waters of this segment are Class B.

Minor Tribs to Lake Erie (0105-0030) Need Verific

Waterbody Location Information

Revised: 06/02/2010

Water Index No:	Ont 158..E-69 thru 95			**Drain Basin:**	Lake Erie-Niagara River
Hydro Unit Code:	04120101/110	**Str Class:**	C		Lake Erie-Chautauqua
Waterbody Type:	River			**Reg/County:**	9/Chautauqua Co. (7)
Waterbody Size:	88.5 Miles			**Quad Map:**	RIPLEY (L-02-4)
Seg Description:	total length of selected tribs, Chautauqua to 20-mile				

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: - - -
Possible: NUTRIENTS

Source(s) of Pollutant(s)

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

Resolution/Management Information

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

Further Details

Overview
Aquatic life in these tribs to Lake Erie may experience minor impacts and threats. Specific pollutants and sources have not been identified.

Water Quality Sampling
A biological (macroinvertebrate) assessment of Vorce/Norge Creek in Westfield (at Route 20) was conducted as part of the RIBS biological screening effort in 2005. Sampling results indicated the lower range of slightly impacted conditions. In such samples some replacement of sensitive ubiquitous species by more tolerant species occurs, although the sample also includes a balanced distribution of all expected species. Aquatic life is thought to be fully supported in the stream, however the community composition and nutrient biotic evaluation suggest conditions and levels of enrichment are sufficient to cause stress to aquatic life. Despite the noted impacts, impact source determination found the fauna to have high similarity to natural communities. Additional sampling to verify the level of impact in the stream. (DEC/DOW, BWAM/SBU, June 2010)

Though Vorce/Norge Creek is just one of several streams that make up this waterbody segment, it is considered representative of water quality in the segment as a whole. Additional sampling on other trib within this segment is recommended.

Segment Description

This segment includes the total length of all selected/smaller tribs to the Lake Erie between Chautauqua Creek (-68) and Twentymile Creek (-96). Tribs within this segment, including Vorce/Norge Creek (-71) and Freelings Creek (-73), are Class C. Chautauqua Creek (-68) and Twentymile Creek (-96) are listed separately.

Twentymile Creek and minor tribs (0105-0003) NoKnownImpct

Waterbody Location Information

Revised: 05/05/2010

Water Index No: Ont 158..E-96
Hydro Unit Code: 04120101/110 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 53.3 Miles
Seg Description: entire stream and selected tribs

Drain Basin: Lake Erie-Niagara River
Lake Erie-Chautauqua
Reg/County: 9/Chautauqua Co. (7)
Quad Map: SOUTH RIPLEY (M-02-1)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

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

Source(s) of Pollutant(s)

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

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a **Resolution Potential:** n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling
Biological (macroinvertebrate) assessments of Twentymile Creek in Robinson Stop, PA (at Route 5) and in Sheldon Corners (at Route 6) were conducted as part of the RIBS biological screening effort in 2005. Sampling results indicated non-impacted conditions. Such samples are dominated by clean-water species and conditions that reflect a natural community with minimal, if any, human impacts. Aquatic life community is clearly fully supported. (DEC/DOW, BWAM/SBU, May 2010)

A biological assessment of Twentymile Creek was also conducted at the Robinson Stop site in 2000. Sampling results also indicated non-impacted water quality conditions. Field sampling results found clean-water mayflies, stoneflies, caddisflies, and beetles to be present. The sample satisfied field screening criteria and was returned to the stream. There are no other apparent impacts to water quality. (DEC/DOW, BWAR/SBU, April 2003)

Previous Assessment
Concerns were raised by local agencies regarding the impact of silt/sediment and other nonpoint pollutant loads on the natural resources (fishery) habitat in Twentymile Creek. Streambank erosion and logging activities were noted as suspected sources, however sampling results indicate that there appear to be no impacts to aquatic life and the sediment loading is considered to be natural, a result of highly erodible soils throughout the basin. (DEC/DOW, BWAM/WQAS,

May 2010)
Segment Description
This segment includes the entire stream and selected/smaller tribs. The waters of the stream are Class C(T). Tribs to this reach/segment, including Lower Belson Creek/Gage Gulf (-3), are Class C,C(T). Upper Belson Creek/Gage Gulf (-3) is listed separately.

Upper Belson Creek/Gage Gulf and tribs (0105-0031) Threatened

Waterbody Location Information

Revised: 05/10/2010

Water Index No: Ont 158..E-96- 3
Hydro Unit Code: 04120101/110 **Str Class:** A
Waterbody Type: River
Waterbody Size: 12.4 Miles
Seg Description: stream and tribs

Drain Basin: Lake Erie-Niagara River
Lake Erie-Chautauqua
Reg/County: 9/Chautauqua Co. (7)
Quad Map: SOUTH RIPLEY (M-02-1)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Water Supply	Threatened	Suspected

Type of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: PATHOGENS

Source(s) of Pollutant(s)

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

Resolution/Management Information

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

Further Details

Overview

Water supply use of Upper Belson Creek is thought to experience threats from pathogens due to the level of agricultural pastureland in the watershed. Current information does not indicate any impacts to water supply or other uses, but the use of the resources as a water supply and the activities in the watershed suggest additional protection efforts may be appropriate.

Source (Drinking) Water Assessment

A source water assessment of Upper Belson Creek found an elevated susceptibility to contamination for this source of drinking water due to the amount of pasture in the assessment area. This assessment was conducted through the NYSDOH Source Waters Assessment Program (SWAP) which compiles, organizes, and evaluates information regarding possible and actual threats to the quality of public water supply (PWS) sources. The information contained in SWAP assessment reports assists in the oversight and protection of public water systems. It is important to note that SWAP reports estimate the potential for untreated drinking water sources to be impacted by contamination and do not address the quality of treated finished potable tap water. This water supply source provides water to the Ripley Water District. (NYSDOH, Source Water Assessment Program, 2005)

Segment Description

This segment includes the portion of the stream and all tribs above the Ripley Water District intake (near a western extension of Greenbush Road). The waters of this portion of the stream are Class A. Tribs to this reach/segment are also Class A.