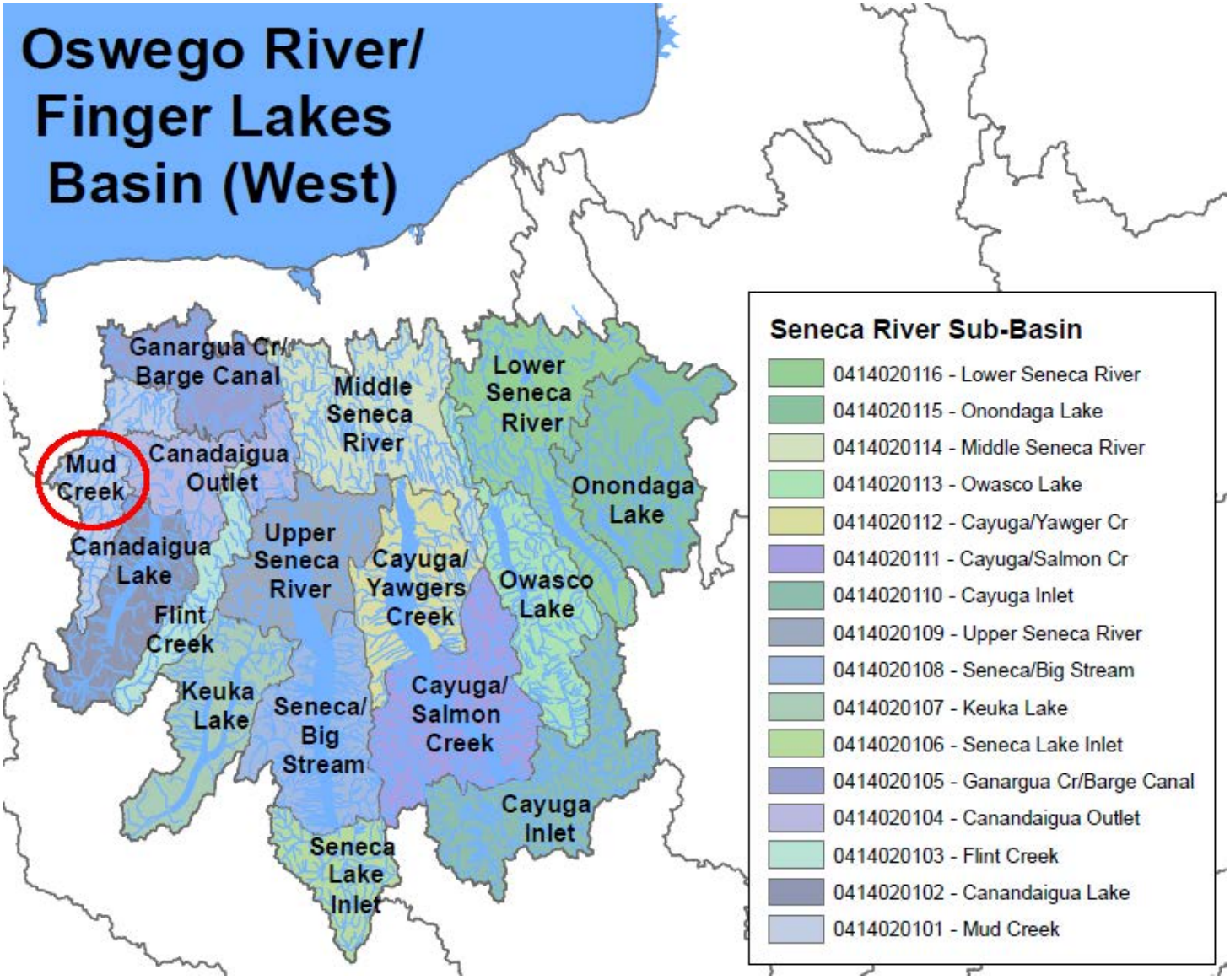

Mud Creek
(0414020101)

Water Index Number	Waterbody Segment	Category
Ont 66-12-52-23	Ganargua Creek, Upper, and minor tribs(0704-0013)	MinorImpacts
Ont 66-12-52-23 (Mud Creek)	Mud Creek, Lower, and minor tribs (0704-0030)	MinorImpacts
Ont 66-12-52-23 (Mud Creek)	Mud Creek, Upper, and tribs (0704-0031)	UnAssessed
Ont 66-12-52-23-43	Great Brook and minor tribs (0704-0034)	Impaired Seg
Ont 66-12-52-23-43..P263a,P263b	Fairport Reservoirs (0704-0035)	UnAssessed
Ont 66-12-52-23-43..P263a/b-	Tribs to Fairport Reservoirs (0704-0036)	UnAssessed
Ont 66-12-52-23-45	Fish Creek and tribs (0704-0037)	UnAssessed
Ont 66-12-52-23-46	Beards/Beaver Creek and tribs (0704-0038)	UnAssessed
Ont 66-12-52-23-51	Schaffer Creek and tribs (0704-0039)	UnAssessed
Ont 66-12-52-23-52-P267	Sterling Pond (0704-0040)	UnAssessed
Ont 66-12-52-23..(Barge Canal)	NYS Barge Canal (portion 5) (0704-0020)	Impaired Seg
Ont 66-12-52-23..(Barge Canal)-	Minor Tribs to Barge Canal (0704-0019)	UnAssessed

Ganargua Creek, Upper, and minor tribs (0704-0013) MinorImpacts

Waterbody Location Information

Revised: 08/09/2007

Water Index No:	Ont 66-12-52-23			**Drain Basin:**	Oswego-Seneca-Oneida
Hydro Unit Code:	04140201/160	**Str Class:**	C		Seneca/Clyde Rivers
Waterbody Type:	River			**Reg/County:**	8/Wayne Co. (59)
Waterbody Size:	67.1 Miles			**Quad Map:**	MACEDON (I-11-3)
Seg Description:	stream and selected tribs, from Palmyra to Victor				

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

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

Type of Pollutant(s)

Known: NUTRIENTS (phosphorus)
Suspected: Silt/Sediment
Possible: D.O./Oxygen Demand, Ammonia

Source(s) of Pollutant(s)

Known: CONSTRUCTION (development), URBAN/STORM RUNOFF
Suspected: Agriculture, Municipal
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: ext/WQCC
Resolution Potential: Medium
TMDL/303d Status: n/a

Further Details

Aquatic life support in this portion of Ganargua Creek is known to experience minor impacts due to nutrients from primarily nonpoint sources. Impacts from municipal discharges had been identified in the past, but additional sampling is recommended to determine the whether these impacts continue.

NYSDEC Rotating Intensive Basin Studies (RIBS) Intensive Network monitoring of Ganargua Creek in Macedon, Wayne County, (at Erie Road) was conducted in 2002. Intensive Network sampling typically includes macroinvertebrate community analysis, water column chemistry, sediment and invertebrate tissues analysis and toxicity evaluation. During this sampling the biological (macroinvertebrate) sampling results indicated slightly impacted water quality conditions. The impacts are attributed to nonpoint source nutrient enrichment. Water column sampling revealed dissolved solids and iron to be parameters of concern, however these finding are thought to be more reflective of natural conditions in the basin than a source of water quality impacts. Toxicity testing of the water column showed significant mortality and reproductive impacts in one of the three tests conducted. (DEC/DOW, BWAM/RIBS, January 2005)

A biological (macroinvertebrate) assessment of Ganargua Creek in Macedon was also conducted in 2001. Sampling results at that time also indicated slightly impacted water quality. Previous sampling in 1980 and prior reflected non-impacted conditions. The headwaters of the creek are in the Town of Victor, a rapidly growing suburb of Rochester. Recent development in the watershed and along the stream (including a golf course) increases the nutrient and other loadings to the stream. This stream is typical of many waters in the state that are slipping from non-impacted to slightly impacted due to nonpoint source nutrient enrichment attributed to development pressures. A survey of the entire Ganargua Creek at multiple sites between East Victor and Lyons was conducted in 1996. Sampling results at that time also indicated primarily slightly impacted water quality conditions. However moderate impact was noted along one short reach below Victor and Farmington related to municipal discharges. Another short reach outside this portion of the creek was similarly impacted. Since this sampling, the Village of Victor WWTP has been updated and is meeting permit discharge limits and the Farmington WWTP is about to complete and upgrade as well. Due to the length of time since it was last sampled, conditions regarding this impact should be verified. (DEC/DOW, BWAM/SBU, August 2007)

This segment includes the portion of the stream and selected/smaller tribs from the confluence with the Barge Canal in Palmyra to Mud Creek in Victor. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including Trapp Brook (-33), are also Class C. Great Brook (-43) and Mud Creek are listed separately.

Mud Creek, Lower, and minor tribs (0704-0030) MinorImpacts

Waterbody Location Information

Revised: 08/09/2007

Water Index No:	Ont 66-12-52-23 (Mud Creek)	**Drain Basin:**	Oswego-Seneca-Oneida
Hydro Unit Code:	04140201/160 **Str Class:** C		Seneca/Clyde Rivers
Waterbody Type:	River	**Reg/County:**	8/Ontario Co. (35)
Waterbody Size:	35.5 Miles	**Quad Map:**	VICTOR (J-11-1)
Seg Description:	stream and selected tribs, from Victor to S.Bloomfield		

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

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

Type of Pollutant(s)

Known: NUTRIENTS (phosphorus)
Suspected: AMMONIA, Chlorine, D.O./Oxygen Demand, Silt/Sediment
Possible: - - -

Source(s) of Pollutant(s)

Known: AGRICULTURE, CONSTRUCTION (development), URBAN/STORM RUNOFF
Suspected: Municipal
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: ext/WQCC **Resolution Potential:** Medium
TMDL/303d Status: n/a

Further Details

Aquatic life support in this portion of Mud Creek is known to experience minor impacts due primarily to nutrients from nonpoint sources. Impacts from municipal discharges had been identified in the past, but additional sampling is recommended to determine the whether these impacts continue.

A biological (macroinvertebrate) assessment of Mud Creek in East Victor (at Route 96) was conducted in 2001. Sampling results indicated slightly impacted water quality conditions. This site had been assessed as non-impacted in previous sampling conducted in 1996. This stream is typical of many waters in the state that are slipping from non-impacted to slightly impacted due to nonpoint source nutrient enrichment attributed to development pressures. Sampling at an additional site below the Farmington WWTP (at railroad bridge) conducted in 1996 found moderately impacted conditions attributed to municipal/industrial discharges. However since this sampling the Farmington WWTP has initiated an upgrade to expand plant capacity; the upgrade is nearing completion. Due to the length of time since it was last sampled, conditions regarding this impact should be verified. (DEC/DOW, BWAM/SBU, August 2007)

This segment includes the portion of the stream and selected/smaller tribs from the confluence with Ganargua Creek in Victor to/including unnamed trib (-56) near South Bloomfield. The waters of this portion of the stream are Class C. Tribs to this reach/segment are also Class C. Fish Creek (-45), Beards/Beaver Creek (-46) and Schaffer Creek (-51) are listed separately.

Great Brook and minor tribs (0704-0034) Impaired Seg

Waterbody Location Information

Revised: 08/15/2007

Water Index No:	Ont 66-12-52-23-43			**Drain Basin:**	Oswego-Seneca-Oneida
Hydro Unit Code:	04140201/160	**Str Class:**	C		Seneca/Clyde Rivers
Waterbody Type:	River			**Reg/County:**	8/Ontario Co. (35)
Waterbody Size:	33.2 Miles			**Quad Map:**	VICTOR (J-11-1)
Seg Description:	entire stream and selected tribs				

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Impaired	Suspected
RECREATION	Impaired	Suspected
Aesthetics	Stressed	Known

Type of Pollutant(s)

Known: D.O./OXYGEN DEMAND, NUTRIENTS (phosphorus), SILT/SEDIMENT, Aesthetics (floatables)
Suspected: - - -
Possible: - - -

Source(s) of Pollutant(s)

Known: URBAN/STORM RUNOFF
Suspected: MUNICIPAL, Agriculture
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: DOW/Reg8 **Resolution Potential:** Medium
TMDL/303d Status: 1*

Further Details

Aquatic life support and recreational uses in Great Brook are thought to be impaired by low dissolved oxygen the result of urban runoff and other primarily nonpoint sources. Municipal wastewater discharges are also thought to contribute to water quality impacts.

A biological (macroinvertebrate) assessment of Great Brook in Victor (at Maple Avenue) was conducted in 2001. Sampling results indicated moderately impacted water quality conditions. Silt and sedimentation was evident in the stream and considerable trash and other urban runoff impacts were also noted. Sampling at an alternate site downstream of the Village of Victor WWTP conducted in 1996 also found moderately impacted conditions. At the time, sewage effluent was identified as the cause of the impacts. Since this sampling the Victor WWTP has completed an upgrade of the plant and is currently meeting permit discharge limits. Due to the length of time since it was last sampled, conditions regarding the sewage impacts should be verified. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the entire stream and selected/smaller tribs. The waters of this portion of the stream are Class C. Tribs to this reach/segment, Sucker Brook (-6), are also Class C. Tribs to the Fairport Reservoirs are listed separately.

NYS Barge Canal (portion 5) (0704-0020) Impaired Seg

Waterbody Location Information

Revised: 08/13/2007

Water Index No: Ont 66-12-52-23..(Barge Canal)
Hydro Unit Code: 04140201/230 **Str Class:** C
Waterbody Type: River
Waterbody Size: 23.5 Miles
Seg Description: portion from Lyons to Wayneport

Drain Basin: Oswego-Seneca-Oneida Seneca/Clyde Rivers
Reg/County: 8/Wayne Co. (59)
Quad Map: NEWARK (I-12-3)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Impaired	Suspected

Type of Pollutant(s)

Known: - - -
Suspected: D.O./OXYGEN DEMAND, Water Level/Flow, Nutrients
Possible: Pathogens

Source(s) of Pollutant(s)

Known: - - -
Suspected: MUNICIPAL, Agriculture, Hydro Modification, Urban/Storm Runoff
Possible: On-Site/Septic Syst, Other Sanitary Disch

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 3 (Cause Identified, Source Unknown)
Lead Agency/Office: DOW/Reg8
TMDL/303d Status: 3a*
Resolution Potential: Medium

Further Details

Aquatic life support and recreational uses in this portion of the NYS Barge Canal are impaired due to oxygen-demanding substances that cause low dissolved oxygen. Municipal discharges are the likely source of the pollutants. Zebra mussel infestation of the canal may also be contributing to the impacts.

A biological (macroinvertebrate) assessment of the Barge Canal in Newark (at canal light 719) was conducted in 2006. Multiple sampling results indicated moderately impacted water quality conditions. The fauna was dominated by sewage-tolerant midges. Zebra mussels were numerous on the plates, but not so numerous that they invalidated the samples. Habitat factors (slow current) may have some effect on the results, but the samples showed greater impacts than previous sampling results. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the portion of the canal from Canadaigua Outlet in Lyons to the western edge of the drainage basin in Wayneport. The waters of this portion of the canal are Class C.