



## Canandaigua Outlet Watershed (0414020104)

### Water Index Number

Ont 66-12-52..  
 Ont 66-12-52..  
 Ont 66-12-52..  
 Ont 66-12-52..35  
 Ont 66-12-52..46  
 Ont 66-12-52..49

### Waterbody Segment

Canandaigua Outlet, Low, and minor trib (0704-0041)  
 Canandaigua Outlet, Mid, and minor tribs(0704-0042)  
 Canandaigua Outlet, Upp, and minor tribs(0704-0011)  
 Marsh Creek and tribs (0704-0043)  
 Rocky Run and tribs (0704-0046)  
 Black Brook and tribs (0704-0047)

### Category

MinorImpacts  
 MinorImpacts  
 MinorImpacts  
 UnAssessed  
 UnAssessed  
 UnAssessed

# Canadaigua Outlet, Low, and minor trib (0704-0041)

# MinorImpacts

## Waterbody Location Information

Revised: 08/09/2007

**Water Index No:** Ont 66-12-52..  
**Hydro Unit Code:** 04140201/220      **Str Class:** C  
**Waterbody Type:** River  
**Waterbody Size:** 68.5 Miles  
**Seg Description:** stream and selected tribs, from Lyons to Phelps

**Drain Basin:** Oswego-Seneca-Oneida  
Seneca/Clyde Rivers  
**Reg/County:** 8/Wayne Co. (59)  
**Quad Map:** GENEVA NORTH (J-13-1)

## 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: - - -

### Source(s) of Pollutant(s)

Known: AGRICULTURE, URBAN/STORM RUNOFF  
Suspected: - - -  
Possible: Municipal

## Resolution/Management Information

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

**Resolution Potential:** Medium

## Further Details

Aquatic life support in this portion of Canadaigua Creek is known to experience minor impacts due to nutrients from nonpoint sources.

NYSDEC Rotating Intensive Basin Studies (RIBS) Intensive Network monitoring of Canadaigua Outlet in Alloway, Wayne County, (at Route 339) 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 site was determined to be impacted by nonpoint sources that result in nutrient enrichment of the stream. Although aquatic life is supported in the stream, nutrient biotic evaluation suggests the level of eutrophication is sufficient to stress aquatic life support. Water column sampling revealed dissolved solids to be a parameter of concern. However this finding is consistent with high conductivity that is characteristic on this basin. One of ten samples collected showed mercury to be present above detection levels. Toxicity testing of the water column showed no significant mortality or reproductive impacts. (DEC/DOW, BWAM/RIBS, January 2005)

A biological (macroinvertebrate) assessment of Canadaigua Creek in Alloway (at Alloway Road) was also conducted in 2001 as part of the RIBS Biological Screening effort. Sampling results indicated slightly impacted water quality conditions in this sample as well. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the portion of the stream and selected/smaller tribs from the mouth at the Seneca River in Lyons to Flint Creek (-40) in Phelps. The waters of this portion of the stream are Class C. Tribs to this reach/segment are Class C,C(T). Marsh Creek (-35), Flint Creek (-40) and Middle/Upper Canadaigua Outlet are listed separately.

# Canadaigua Outlet, Mid, and minor tribs (0704-0042) MinorImpacts

## Waterbody Location Information

Revised: 08/09/2007

<b>Water Index No:</b> Ont 66-12-52..	<b>Drain Basin:</b> Oswego-Seneca-Oneida	
<b>Hydro Unit Code:</b> 04140201/220	<b>Str Class:</b> C	Seneca/Clyde Rivers
<b>Waterbody Type:</b> River	<b>Reg/County:</b> 8/Ontario Co. (35)	
<b>Waterbody Size:</b> 45.9 Miles	<b>Quad Map:</b> CLIFTON SPRINGS (J-12-1)	
<b>Seg Description:</b> stream and selected tribs, from Phelps to Manchester		

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

<b>Use(s) Impacted</b>	<b>Severity</b>	<b>Problem Documentation</b>
Aquatic Life	Stressed	Known

### Type of Pollutant(s)

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

### Source(s) of Pollutant(s)

Known: AGRICULTURE, URBAN/STORM RUNOFF  
Suspected: Industrial  
Possible: - - -

## Resolution/Management Information

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

## Further Details

Aquatic life support in this portion of Canadaigua Creek is thought to experience minor impacts due to nutrients from nonpoint sources.

Biological (macroinvertebrate) assessments of Canadaigua Creek were conducted upstream at multiple sites between Manchester and Canadaigua in 2006 and downstream of this segment in Alloway (at Alloway Road) in 2001 and 2002. Sampling results upstream ranged from moderate to non-impacted, with better water quality noted farther downstream (i.e., closer to this reach). Slightly impacted water quality conditions were noted at the sites downstream of this reach. Both sites were determined to be impacted by nonpoint sources that result in nutrient enrichment of the stream. Though these sampling points lie just outside the described segment, they are considered representative of water quality in this reach. This segment should be considered as being evaluated rather than monitored. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the portion of the stream and selected/smaller tribs from Flint Creek (-40) in Phelps to Black Brook (-49) in Manchester. The waters of this portion of the stream are Class C,C(T). Tribs to this reach/segment are primarily Class C,C(T); Sulphur Creek (-44) is Class D. Flint Creek (-40), Rocky Run (-46), Black Brook (-49) and Lower/Upper Canadaigua Outlet are listed separately.

# Canadaigua Outlet, Upp, and minor tribs (0704-0011) MinorImpacts

## Waterbody Location Information

Revised: 08/09/2007

**Water Index No:** Ont 66-12-52..  
**Hydro Unit Code:** 04140201/220      **Str Class:** C  
**Waterbody Type:** River  
**Waterbody Size:** 67.4 Miles  
**Seg Description:** stream and selected tribs, fr Manchester to Canadaigua

**Drain Basin:** Oswego-Seneca-Oneida  
Seneca/Clyde Rivers  
**Reg/County:** 8/Ontario Co. (35)  
**Quad Map:** CLIFTON SPRINGS (J-12-1)

## Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

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

### Type of Pollutant(s)

Known: NUTRIENTS (phosphorus)  
Suspected: D.O./OXYGEN DEMAND, Silt/Sediment, Unknown Toxicity  
Possible: - - -

### Source(s) of Pollutant(s)

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

## 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:** n/a

**Resolution Potential:** Medium

## Further Details

Aquatic life support in this portion of Canadaigua Creek is known to experience minor impacts due to nutrients from nonpoint sources. Impacts from municipal discharges and urban/storm runoff are suspected.

A biological (macroinvertebrate) survey of Canadaigua Creek at multiple sites from Canadaigua to Manchester was conducted in 2005. Sampling results indicated that water quality conditions ranged from non-impacted to moderately impacted. These findings are similar to previous sampling results. Results showed that water quality improved as one moved downstream. The moderate impacts at the head of the segment are the result of a combination of impoundment effects which influence the sample and municipal wastewater inputs. The City of Canadaigua WWTP appears to provide adequate wastewater treatment based on downstream sampling showing eventual return to non-impacted water quality. Nonpoint sources that result in some nutrient enrichment of the stream also influence water quality. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the portion of the stream and selected/smaller tribs from Black Brook (-49) in Manchester to Canandaigua Lake, including feeder canal. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including Padelford Brook (-50) and Freshour Creek (-52) are also Class C. Black Brook (-49) and Lower/Upper Canandaigua Outlet are listed separately.