



Ganargua Creek-Erie Canal (0414020105)

Water Index Number

Ont 66-12-52-23
 Ont 66-12-52-23- 1
 Ont 66-12-52-23- 8
 Ont 66-12-52-23-17
 Ont 66-12-52-23-24

Waterbody Segment

Ganargua Creek, Lower, and minor tribs(0704-0026)
 Marletown Creek and tribs (0704-0003)
 Fairville Creek and tribs (0704-0032)
 Red Creek and tribs (0704-0015)
 Red Creek and tribs (0704-0033)

Category

MinorImpacts
 UnAssessed
 UnAssessed
 Need Verific
 MinorImpacts

Ganargua Creek, Lower, and minor tribs (0704-0026) MinorImpacts

Waterbody Location Information

Revised: 08/10/2007

Water Index No: Ont 66-12-52-23	Drain Basin: Oswego-Seneca-Oneida	
Hydro Unit Code: 04140201/230	Str Class: C	Seneca/Clyde Rivers
Waterbody Type: River	Reg/County: 8/Wayne Co. (59)	
Waterbody Size: 50.6 Miles	Quad Map: NEWARK (I-12-3)	
Seg Description: stream and selected tribs, from Lyons to Palmyra		

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

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

Type of Pollutant(s)

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

Source(s) of Pollutant(s)

Known: CONSTRUCTION (development), URBAN/STORM RUNOFF, Municipal (Newark WWTP)
Suspected: Agriculture
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 thought 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.

A biological (macroinvertebrate) survey of Ganargua Creek at multiple sites between East Victor and Lyons was conducted in 1996. Sampling results indicated primarily slightly impacted water quality conditions. However moderate impact was noted in Mud Mills below the Newark WWTP. One of these reaches was in this lower portion of the creek in Mud Mills, below the Newark WWTP. Another short reach upstream and outside this portion of the creek was similarly impacted. This impact represents a worsening of conditions since previous sampling in 1980 when slight impact was found. The assessment for this waterbody is listed as suspected due to the length of time since it was last sampled. (DEC/DOW, BWAM/SBU, June 2003)

The Newark WWTP experiences high plant flows resulting from inflow/infiltration problems in the collection system. And a constriction in the effluent line also restricts the ability to handle flow, particularly during wet weather events. Resolution to these problems are being discussed. (DEC/DOW, Region 8, Aug 2007)

This segment includes the portion of the stream and selected/smaller tribs from the confluence with the Barge Canal in Lyons to the diversion spillway at the Barge Canal near Palmyra. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including Lower Military Run (-11), are Class C,C(T). Marbletown Creek (-1), Fairville Creek (-8) and Red Creek (17) are listed separately.

Red Creek and tribs (0704-0015)

Need Verific

Waterbody Location Information

Revised: 08/09/2007

Water Index No: Ont 66-12-52-23-17
Hydro Unit Code: 04140201/230 **Str Class:** C
Waterbody Type: River
Waterbody Size: 39.1 Miles
Seg Description: entire stream and tribs

Drain Basin: Oswego-Seneca-Oneida
Seneca/Clyde Rivers
Reg/County: 8/Wayne Co. (59)
Quad Map: PALMYRA (I-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: D.O./OXYGEN DEMAND, NUTRIENTS
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: AGRICULTURE
Possible: Industrial

Resolution/Management Information

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

Resolution Potential: Medium

Further Details

Aquatic life support in Red Creek may experience minor impacts due to nutrients and BOD loading from agricultural activities and a food processing discharge.

Previously, concerns were raised regarding the impact of nonpoint runoff from agricultural fields with high application rates of apple pomace. A food processing plant discharge was although thought to be contributing to the loading in the stream. Sampling to verify the actual level of impact in the stream is recommended. (DEC/DOW, BWAM/RIBS, June 2005)

This segment includes the entire stream and all tribs. The waters of the stream are Class C/D. Tribs to this reach/segment are also Class C/D.

Red Creek and tribs (0704-0033)

MinorImpacts

Waterbody Location Information

Revised: 08/09/2007

Water Index No: Ont 66-12-52-23-24
Hydro Unit Code: 04140201/230 **Str Class:** C
Waterbody Type: River
Waterbody Size: 78.3 Miles
Seg Description: entire stream and tribs

Drain Basin: Oswego-Seneca-Oneida
Seneca/Clyde Rivers
Reg/County: 8/Wayne Co. (59)
Quad Map: PALMYRA (I-12-4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

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

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH, NUTRIENTS (phosphorus), Silt/Sediment
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: HABITAT MODIFICATION
Suspected: AGRICULTURE
Possible: ---

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 and recreational uses in Red Creek are known to experience minor impacts due to nonpoint nutrients and silt/sediment. Aquatic weed growth also contributes to the impacts.

A biological (macroinvertebrate) assessment of Red Creek in Palmyra (at Maple Avenue) was conducted in 2001. Sampling results indicated slightly impacted water quality conditions. The stream carried an abundance of aquatic weeds (duckweed) indicating ponded waters upstream. The ponded water likely influenced the sample. Specific conductance at the site was quite high also. Although aquatic life is supported in the stream, nutrient biotic evaluation indicates/suggests the level of eutrophication is sufficient to stress/threaten aquatic life support. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the entire stream and all tribs. The waters of the stream are Class C. Tribs to this reach/segment, including Black Creek (-9) are Class C,C(T).