



Catatonk Creek Watershed (0205010303)

Water Index Number

SR- 16- 4
 SR- 16- 4-
 SR- 16- 4-16
 SR- 16- 4-24
 SR- 16- 4-P13
 SR- 16- 4-P13-1

Waterbody Segment

Catatonk Creek, Lower and tribs (0603-0007)
 Catatonk Creek, Upper and minor tribs (0603-0008)
 Willseyville Creek and minor tribs (0603-0032)
 Dean Creek and minor tribs (0603-0036)
 Spencer Lake (0603-0048)
 Michigan Creek and tribs (0603-0055)

Category

NoKnownImpct
 NoKnownImpct
 NoKnownImpct
 NoKnownImpct
 UnAssessed
 NoKnownImpct

Catatonk Creek, Lower and tribs (0603-0007)

NoKnownImpct

Waterbody Location Information

Revised: 09/16/2009

Water Index No: SR- 16- 4
Hydro Unit Code: 02050103/120 **Str Class:** C
Waterbody Type: River (Low Flow) **Drain Basin:** Susquehanna River
Waterbody Size: 70.5 Miles **Reg/County:** LowSusquehanna-Owego
Seg Description: stream and tribs, from mouth to Gridleyville **Quad Map:** 7/Tioga Co. (54)
OWEGO (M-15-3) ...

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

NYSDEC Rotating Integrated Basin Studies (RIBS) Intensive Network monitoring of Catatonk Creek near Catatonk, Tioga County, (at Glen Mary Drive) was conducted in 2003 and 2004. 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 non-impacted water quality conditions, indicating very good water quality. Water column sampling revealed no parameters of concern to be present. Sediment screening for acute toxicity indicated some slight sediment toxicity and no porewater toxicity was indicated. While sediment sampling revealed some contaminants at low levels, based on sediment quality guidelines developed for freshwater ecosystems, overall sediment quality is not likely to cause chronic toxicity to sediment-dwelling organisms. Macroinvertebrates collected at this site and chemically analyzed for selected metals showed elevated levels of metals that should continue to be monitored. Toxicity testing using water from this location showed no significant mortality or reproductive effects on the test organism. Based on the consensus of these established assessment methods, overall water quality at this site shows that aquatic life is considered to be fully supported in the stream, and there are no other apparent water quality impacts to recreational uses. (DEC/DOW, BWAR/RIBS, August 2009)

Previous biological sampling of Lower Catatonk Creek conducted below Hubbardtown and Catatonk indicated generally non-impacted water quality conditions. Two large dairy farms are located along this reach of the creek. And while the samples did show slight effects of nonpoint/agricultural impacts, water quality was not substantially diminished. (Owego Creek Biological Assessment Report, DEC/DOW, BWAR/SBU, June 1999)

Previous Assessment

The stream is a warmwater fishery (smallmouth bass, walleye), and portions are stocked. It is slow-moving and flat, resulting in higher stream temperatures and the settling of sediments that enter the stream. In fact the county reports increases in sediment and weed growth where there were once gravel spawning beds. While natural conditions (stream gradient, etc) limit the fishery, there is evidence of eutrophication and any man-induced sediment reaching the stream makes matters worse. Specific sources of nutrients and sediment identified by the county include cropland erosion, barnyard runoff, onsite systems in Candor and Spencer, manure spreading and road sand piles stored near the stream. Cropland erosion occurs mostly during flooding especially after fall or spring plowing. More recently, the use of improved agricultural and forestry management practices have reduced the impact of these activities on the stream. (Tioga County WQCC/SWCD, 1996)

Segment Description

This segment includes the portion of the stream and all tribs from the mouth to Willseyville Creek (-16) in Gridleyville. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including Hoyt Creek (-7), Hubbard Run (-12) and Cole Brook (13), are also Class C. Willseyville Creek (-16) and Upper Catatonk Creek are listed separately.

(-P13-1) and Lower Catatank Creek are listed separately.

Willseyville Creek and minor tribs (0603-0032)

NoKnownImpct

Waterbody Location Information

Revised: 06/25/2009

Water Index No:	SR- 16- 4-16	Drain Basin:	Susquehanna River
Hydro Unit Code:	02050103/120	Str Class:	C
Waterbody Type:	River (Low Flow)	Reg/County:	7/Tioga Co. (54) ...
Waterbody Size:	76.3 Miles	Quad Map:	WILLSEYVILLE (L-15-4) ...
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
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

A biological (macroinvertebrate) assessment of Willseyville Creek in Willseyville (at Route 96B) was conducted as part of the RIBS biological screening effort in 2003. Sampling results indicated non-impacted conditions. Such samples are dominated by clean-water species and are most similar to a natural community with minimal human impacts. Some additional species, including sensitive non-native species, and additional biomass may be present; the samples reveal no, or only incidental, anomalies. Aquatic life community is fully supported. (DEC/DOW, BWAM/SBU, January 2009)

Biological assessment of two tribs to Willseyville Creek were also conducted as part of the RIBS biological screening effort in 2003. Sampling results for Prospect Valley Creek in Willseyville (at Route 96B) indicated non-impacted conditions. Such samples are dominated by clean-water species and are most similar to a natural community with minimal human impacts. Some additional species, including sensitive non-native species, and additional biomass may be present; the samples reveal no, or only incidental, anomalies. Aquatic life community is fully supported. A biological assessment of Danby Creek in Willseyville (at Route 96B) also reflected 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, January 2009)

Segment Description

This segment includes the entire stream and all tribs. The waters of this portion of the stream are Class C,C(T). Tribs to this reach/segment, including Dry Brook (-1), Prospect Valley Creek (-2) and Danby Creek (-4), are also Class C,C(T).

Dean Creek and minor tribs (0603-0036)

NoKnownImpet

Waterbody Location Information

Revised: 07/01/2009

Water Index No:	SR- 16- 4-24	Drain Basin:	Susquehanna River
Hydro Unit Code:	02050103/110	Str Class:	C
Waterbody Type:	River (Low Flow)	Reg/County:	7/Tioga Co. (54)
Waterbody Size:	58.4 Miles	Quad Map:	SPENCER (M-15-1) ...
Seg Description:	entire stream and tribs		

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

A biological (macroinvertebrate) assessment of Deans Creek/South Branch in Tyler Hollow (at Owl Creek Road) was conducted as part of the RIBS biological screening effort in 2003. Sampling results indicated slightly impacted conditions. In such samples the community is slightly altered from natural conditions. Some sensitive species are not present and the overall abundance of macroinvertebrates is lower. However, the effects on the fauna appear to be (relatively) insignificant and water quality is considered to be good. The nutrient biotic index and impact source determination indicate low enrichment in the stream and fauna that is most similar to communities influenced by impoundment effects. Aquatic life support is considered to be fully supported in the stream, and there are no other apparent water quality impacts to designated uses. (DEC/DOW, BWAM/SBU, January 2009)

Segment Description

This segment includes the entire stream and all tribs. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including South Branch (-2), are also Class C.

Michigan Creek and tribs (0603-0055)

NoKnownImpct

Waterbody Location Information

Revised: 06/25/2009

Water Index No: SR- 16- 4-P13-1
Hydro Unit Code: 02050103/120 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 23.3 Miles
Seg Description: entire stream and tribs

Drain Basin: Susquehanna River
Reg/County: 7/Tioga Co. (54)
Quad Map: ()

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

A biological (macroinvertebrate) assessment of Michigan Creek in North Spencer (at Signor Hill Road) was conducted as part of the RIBS biological screening effort in 2003. Sampling results indicated non-impacted conditions. Such samples are dominated by clean-water species and are most similar to a natural community with minimal human impacts. Some additional species, including sensitive non-native species, and additional biomass may be present; the samples reveal no, or only incidental, anomalies. Aquatic life community is fully supported. (DEC/DOW, BWAM/SBU, January 2009)

Segment Description

This segment includes the entire stream and all tribs. The waters of this portion of the stream are Class C(T). Tribs to this reach/segment are Class C.