



Otselic River Watershed (0205010203)

Water Index Number

SR- 44-14-27 (portion 1)/P35a
 SR- 44-14-27 (portion 2)
 SR- 44-14-27 (portion 3)
 SR- 44-14-27 (portion 4)
 SR- 44-14-27- 1 thru 12
 SR- 44-14-27-13
 SR- 44-14-27-13-10-P36
 SR- 44-14-27-14 thru 31
 SR- 44-14-27-19-P38
 SR- 44-14-27-23- 4-P38a
 SR- 44-14-27-23-P39
 SR- 44-14-27-26-P40
 SR- 44-14-27-32
 SR- 44-14-27-33 thru 55

Waterbody Segment

Whitney Point Lake/Reservoir (0602-0004)
 Otselic River, Lower, Main Stem (0602-0024)
 Otselic River, Middle, Main Stem (0602-0015)
 Otselic River, Upper and minor tribs (0602-0043)
 Minor Tribs to Whitney Point Reservoir (0602-0029)
 Merrill Creek and tribs (0602-0052)
 Dean Pond (0602-0077)
 Minor Tribs to Lower Otselic River (0602-0161)
 Bloody Pond (0602-0078)
 Stump Pond (0602-0079)
 Ellis/Melody Lake (0602-0053)
 Glover Pond/High Lake (0602-0080)
 Gee Brook and tribs (0602-0125)
 Minor Tribs to Upper Otselic River (0602-0162)

Category

Impaired Seg
 NoKnownImpct
 NoKnownImpct
 Minor Impacts
 NoKnownImpct
 NoKnownImpct
 UnAssessed
 UnAssessed
 UnAssessed
 UnAssessed
 Minor Impacts
 UnAssessed
 NoKnownImpct
 UnAssessed

Water Index Number

SR- 44-14-27-34
SR- 44-14-27-35
SR- 44-14-27-37
SR- 44-14-27-37-P42
SR- 44-14-27-38
SR- 44-14-27-44
SR- 44-14-27-47
SR- 44-14-27-48
SR- 44-14-27-53
SR- 44-14-27-61
SR- 44-14-27-64-P48
SR- 44-14-27-P49

Waterbody Segment

[Brakel Creek and tribs \(0602-0046\)](#)
[Mead Brook and tribs \(0602-0126\)](#)
[Pond Creek and tribs \(0602-0128\)](#)
Solon Pond (0602-0081)
[Mud Creek and tribs \(0602-0068\)](#)
Glen Brook and tribs (0602-0167)
Ashbell Brook and tribs (0602-0168)
Upper Perkins Pond Outlet and tribs (0602-0169)
Mann Brook and tribs (0602-0129)
[Otselic Creek and tribs \(0602-0130\)](#)
Fisk Marsh Pond (0602-0082)
Torpy Pond (0602-0083)

Category

NoKnownImpct
NoKnownImpct
NoKnownImpct
UnAssessed
NoKnownImpct
UnAssessed
UnAssessed
UnAssessed
UnAssessed
UnAssessed
NoKnownImpct
UnAssessed
UnAssessed

Whitney Point Lake/Reservoir (0602-0004)

Impaired Seg

Waterbody Location Information

Revised: 09/11/2009

Water Index No: SR- 44-14-27 (portion 1)/P35a
Hydro Unit Code: 02050102/070 **Str Class:** C
Waterbody Type: Lake (Eutrophic)
Waterbody Size: 1235.4 Acres
Seg Description: entire lake

Drain Basin: Susquehanna River
Chenango River
Reg/County: 7/Broome Co. (4)
Quad Map: WHITNEY POINT (L-17-4) ...

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

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Possible
RECREATION	Impaired	Known
Habitat/Hydrology	Stressed	Known

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH (vegetation, algal blooms), NUTRIENTS (phosphorus), Water Level/Flow, Silt/Sediment
Suspected: - - -
Possible: D.O./Oxygen Demand

Source(s) of Pollutant(s)

Known: AGRICULTURE, Hydro Modification
Suspected: On-Site/Septic Syst
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: DOW/Reg7 **Resolution Potential:** Medium
TMDL/303d Status: 1,4c (Individual Waterbody Impairment Requiring a TMDL, more)

Further Details

Overview

Recreational uses (swimming, fishing, boating) and aesthetics in Whitney Point Reservoir are restricted by high nutrient loads and resulting algal blooms and high suspended solids. Agricultural and other nonpoint source activities are the leading source of impacts. Hydrologic modification to support flood control and drought management goals may have occasional impacts on other recreational uses.

Water Quality Sampling

The algal blooms result in inadequate dissolved oxygen levels in depths greater than 15 feet which impact fish/aquatic life. These conditions are widely known and were specifically noted during a 1998 Lake Classification and Inventory (LCI) evaluation. DEC Regional Water staff also monitored the reservoir in 2000. The Otselic River and agricultural sources within the watershed are the primary source of these nutrients. (DEC/DOW, BWM/Lake Services, August 2000).

Hydrologic/Habitat Impacts

Fluctuating water levels in this flood control reservoir also impact the fishery/aquatic life by limiting the growth of vegetation that would be beneficial to fish. The annual water level control reduces the surface area by up to 300 acres, which also impacts recreational uses. However support of these uses are difficult to reconcile with the primary use of the reservoir that of flood control. (DEC/DFWMR, Region 7, 1998)

Section 303(d) Listing

Whitney Point Reservoir is included on the 2008 NYS Section 303(d) List of Impaired Waters. The lake is included on Part 1 of the List as a waterbody segment requiring the development of a TMDL or other strategy to attain water quality standards for phosphorus. This waterbody was first listed on the 2002 Section 303(d) List. (DEC/DOW, BWAM/WQAS, September 2009)

Background

Whitney Point Lake is a US Army Corps of Engineers reservoir project, located on the Otselic River in Broome County. It is primarily operated for flood control, but is also used for recreation and upland wildlife management. The project provides flood control for the valley along the lower Tioughnioga River, the lower Chenango River, and the Susquehanna River downstream of Binghamton. When Whitney Point Lake dam was constructed, no recreation facilities were included in the project. However, in the early 1960's, at the urging of the State of New York, recreation was added as a project purpose and normal summer pool levels were raised to provide a larger lake. Recreational facilities at Whitney Point include two Broome County Department of Parks and Recreation recreational facilities at Dorchester Park in the southern portion of the lake near the dam and Upper Lisle Park which is at the upstream end of the lake. These areas provide swimming, picnicking, boating, fishing, and camping opportunities. In the Upper Lisle area, the NYSDEC maintains a wildlife management area that is used by hunters, wildlife observers, and other outdoor enthusiasts. A recent change in water level management was implemented in 2009 to reduce previously routine winter drawdowns and maintain the pool all year except during periods of summer drought. Periodic releases will occur during these periods to augment downstream flows and protect ecosystem resource. (USACO, September 2009)

Segment Description

This segment includes the total area of the reservoir.

Otselic River, Lower, Main Stem (0602-0024)

NoKnownImpct

Waterbody Location Information

Revised: 11/08/2000

Water Index No: SR- 44-14-27 (portion 2) **Drain Basin:** Susquehanna River
Hydro Unit Code: 02050102/070 **Str Class:** C(T) Chenango River
Waterbody Type: River (Low Flow) **Reg/County:** 7/Cortland Co. (12)
Waterbody Size: 27.9 Miles **Quad Map:** WILLET (L-17-1) ...
Seg Description: river from Whitney Point Lake/Reservoir to Cincinnatus

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 Otselic River in Landers Corners (at Landers Corners 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. These results are consistent with sampling conducted at the same site during a biological (macroinvertebrate) survey of the Otselic River in 1997 (Otselic River Biological Assessment Report, Bode et al. DEC/DOW, BWAR/SBU, April 1998). The lower reach of the river from Landers Corners to South Otselic was assessed as non-impacted. Although faunas were influenced by nonpoint sources, the samples were diverse and well-balanced. (DEC/DOW, BWAM/SBU, January 2009)

A RIBS Intensive Network Monitoring site was located on the river in Willet in 1998. Chemical monitoring at the site indicates no significant parameters of concern and water quality was assessed as good. A fishery assessment found an abundant and diverse fishery with suitable habitat. However sediment and streambank erosion concerns remain throughout the Otselic River Watershed. (DEC/DOW, RIBS, August 2000)

Water Quality Management

The Village of Whitney Point, located at the confluence of the Otselic and Tioughnioga Rivers, completed construction of a new sewage treatment plant in December 2007. The plant, which is designed to handle up to 110,000 gpd, serves the village and service is being extended to some nearby areas as well. Prior to the plant, going online, on-site wastewater (septic) systems, many of which were failing, served most homes in the village. (DEC/DOW, Region 7, June 2009)

Segment Description

This segment includes the main stem portion of the river from Whitney Point Lake to Gee Brook (-32) near Cincinnatus. This reach of the river is Class C.

Otselic River, Middle, Main Stem (0602-0015)

NoKnownImpct

Waterbody Location Information

Revised: 07/15/2009

Water Index No: SR- 44-14-27 (portion 3) **Drain Basin:** Susquehanna River
Hydro Unit Code: 02050102/070 **Str Class:** C(T) Chenango River
Waterbody Type: River (Low Flow) **Reg/County:** 7/Chenango Co. (9)
Waterbody Size: 16.7 Miles **Quad Map:** OTSELIC (K-18-1) ...
Seg Description: river from Cincinnatus to Otselic

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) survey of the Otselic River at multiple sites between Landers Corners and Otselic was conducted in 1997. Three of the six Otselic River sites - in Lower Cincinnatus (at Route 23), in Pitcher (at Route 26), and in South Otselic (at Route 13) - were located in this reach. Sampling results at the two downstream sites indicated non-impacted conditions. Such samples are dominated by clean-water species and are most similar to a natural community with minimal human impacts. Evidence of some influence from nonpoint sources were noted. Slightly impacted conditions were indicated in the upstream site in South Otselic. 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. At this site the nonpoint source influences were greater. In spite of these minor affects, water quality in this reach is satisfactory and aquatic life support is considered to be fully supported in the stream. (Otselic River Biological Assessment Report, Bode et al., DEC/DOW, BWAR/SBU, April 1998)

Previous Assessment

Concerns were raised by local agencies during previous (1998) assessment efforts regarding impacts due to nutrient loads and silt/sedimentation from agricultural nonpoint source runoff. The loss and removal of riparian vegetation contributes to thermal stresses and streambank erosion and cattle access to the river have also been noted as a problem by the county.

While efforts to minimize potential impacts to the stream from these source should continue, available sampling results suggest these activities are not currently causing significant water quality impacts in this reach of the river. (DEC/DOW, BWAM/WQAS, June 2009)

Segment Description

This segment includes the main stem portion of the river from Gee Brook (-32) near Cincinnatus to/including unnamed trib (-55) near Otselic. This reach of the river is Class C(T).

Otselic River, Upper and minor tribs (0602-0043)

MinorImpacts

Waterbody Location Information

Revised: 06/26/2009

Water Index No: SR- 44-14-27 (portion 4) **Drain Basin:** Susquehanna River
Hydro Unit Code: 02050102/060 **Str Class:** C(T) Chenango River
Waterbody Type: River (Low Flow) **Reg/County:** 7/Madison Co. (27)
Waterbody Size: 55.4 Miles **Quad Map:** WEST EATON (J-18-4) ...
Seg Description: stream and selected tribs above Otselic

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: SILT/SEDIMENT, Pathogens, Thermal Changes
Possible: - - -

Source(s) of Pollutant(s)

Known: AGRICULTURE
Suspected: Streambank Erosion
Possible: Habitat Modification

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

Overview

Aquatic life support and recreational uses in this reach of the Otselic River is known to experience impacts due to nutrient loads and silt/sedimentation from agricultural activities and related nonpoint source runoff.

Water Quality Sampling

A biological macroinvertebrate assessment of Otselic River above Georgetown (at Lebanon Road) was conducted as part of the RIBS biological screening effort in 2003. Sampling results indicated 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 considered to be fully supported in the stream, however the community composition and nutrient biotic evaluation suggest conditions and elevated levels of enrichment are sufficient to cause some stress to aquatic life. Impact source determination found a community that is most similar to communities influenced by nonpoint sources. (DEC/DOW, BWAM/SBU, January 2009)

A biological (macroinvertebrate) survey of the Otselic River at multiple sites between Landers Corners and Otselic was conducted in 1997. Two of the six Otselic River sites - in Otselic Center (at Route 16) and above Otselic (at Mill Road)

- were considered to be reflective on conditions in this reach. Sampling results at these two sites also indicated slightly impacted conditions. Nonpoint source influences were noted at these sites. (Otselic River Biological Assessment Report, Bode et al., DEC/DOW, BWAR/SBU, April 1998)

Source Assessment

Agricultural nonpoint sources have been identified by local agencies as the primary source of these impacts. Cattle grazing in the river have also been noted as a problem by the county. The loss and removal of riparian vegetation also contributes to thermal stresses and streambank erosion. (Madison County WQCC, 1996)

Segment Description

This segment includes the portion of the stream and selected/smaller tribs above unnamed trib (-55) in Otselic. The waters of this portion of the stream are Class C,C(T). Tribs to this reach/segment, including Muller Brook (-60) and Georgetown Creek (-63), are also Class C,C(T). Otselic Creek (-61) is listed separately.

Minor Tribs to Whitney Point Reservoir (0602-0029) NoKnownImpct

Waterbody Location Information

Revised: 06/25/2001

Water Index No: SR- 44-14-27- 1 thru 12
Hydro Unit Code: 02050102/070 **Str Class:** C
Waterbody Type: River (Low Flow) **Reg/County:** 7/Broome Co. (4)
Waterbody Size: 13.6 Miles **Quad Map:** WHITNEY POINT (L-17-4) ...
Seg Description: total length of select tribs to reservoir

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) sampling of Page Brook in Triangle (at Route 26) indicated the stream to be non-impacted. The fauna appeared diverse, well-balanced and satisfied screening criteria. (DEC/DOW, BWAR/SBU, January 1999)

Source Assessment

The Army Corps of Engineers has documented that sediment from streambank and roadbank erosion contributes to sediment problems in Whitney Point Reservoir. However, impacts to the tribs do not appear to be significant. (DEC/DOW, BWAM/WQAS, June 2009)

Segment Description

This segment includes the total length of selected/smaller tribs to Whitney Point Reservoir. Tribs within this segment, including Page Brook (-3) and Landers Creek (-12), are primarily Class C,C(TS). Merrill Creek (-13) is listed separately.

Merrill Creek and tribs (0602-0052)

NoKnownImpet

Waterbody Location Information

Revised: 06/25/2009

Water Index No: SR- 44-14-27-13
Hydro Unit Code: 02050102/070 **Str Class:** C(T)
Waterbody Type: River (Low Flow) **Reg/County:** 7/Cortland Co. (12) ...
Waterbody Size: 44.8 Miles **Quad Map:** WILLET (L-17-1) ...
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 Merrill Creek in Upper Lisle (at Cold Spring 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)

Previous Assessment

Concerns were raised by local agencies in previous (1998) assessments regarding impacts from silt/sedimentation and nutrient loads from various nonpoint sources and the loss of riparian vegetation. However, while continued implementation of agricultural and other BMPs is encouraged, this more recent sampling indicates there are no significant impacts to the stream from these or other sources. (DEC/DOW, BWAM/WQAS, June 2009)

Segment Description

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

Ellis/Melody Lake (0602-0053)

MinorImpacts

Waterbody Location Information

Revised: 07/06/2009

Water Index No:	SR- 44-14-27-23-P39	Drain Basin:	Susquehanna River
Hydro Unit Code:	02050102/070	Str Class:	C
Waterbody Type:	Lake (Eutrophic)	Reg/County:	7/Cortland Co. (12)
Waterbody Size:	40.8 Acres	Quad Map:	WILLET (L-17-1)
Seg Description:	entire lake		

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

Use(s) Impacted	Severity	Problem Documentation
Recreation	Stressed	Suspected

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH (algal blooms, vegetation), Nutrients (phosphorus)
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

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

Resolution/Management Information

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

Further Details

Overview

Recreational uses (swimming, fishing, boating) in Ellis Pond/Melody Lake are known to experience impacts from excessive algal and weed growth. Elevated nutrient levels may contribute to the plant growth. Sampling from 1980s and 1990s and continuing through the present indicate a trend toward improving water quality. In more recent years impacts have been primarily related to weeds.

Water Quality Sampling

Ellis Pond/Melody Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) from 1987 through 1991 and from 1997 and continuing through 2006. An Interpretive Summary report of the findings of this sampling was published in 2007. These data indicate that the lake continues to be best characterized as mesotrophic, or moderately productive. Phosphorus levels in the lake occasionally exceed the state guidance values indicating impacted/stressed recreational uses but exceedences appear to be less frequent. Corresponding transparency measurements only rarely fail to exceed the recommended minimum for swimming beaches. Measurements of pH fall within the state water quality range of 6.5 to 8.5. The lake water is weakly colored, but color does not limit water transparency. (DEC/DOW, BWAM/CSLAP, March 2007)

Recreational Assessment

Public perception of the lake and its uses is also evaluated as part of the CSLAP program. This assessment indicates recreational suitability of the lake to be increasingly favorable. The recreational suitability of the lake during more recent sampling is described most frequently as "excellent." The lake itself is most often described as "not quite crystal clear" or as having "definite algal greenness," an assessment that is consistent measured water quality characteristics. Assessments have noted that aquatic plants do not grow to the lake surface in more recent sampling years. Aquatic plants are dominated by a mix of native species and non-native Eurasian milfoil and have been cited as impacting recreational uses. (DEC/DOW, BWAM/CSLAP, March 2007)

Lake Uses

This lake waterbody is designated class C, suitable for use as general recreation and aquatic life support, but not as a public water supply or public bathing beach. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program. Monitoring to assess potable water supply and public bathing use is generally the responsibility of state and/or local health departments.

Segment Description

This segment includes the total area of the lake.

Gee Brook and tribs (0602-0125)

NoKnownImpct

Waterbody Location Information

Revised: 06/25/2009

Water Index No: SR- 44-14-27-32
Hydro Unit Code: 02050102/070 **Str Class:** C
Waterbody Type: River
Waterbody Size: 25.3 Miles
Seg Description: entire stream and tribs

Drain Basin: Susquehanna River
Chenango River
Reg/County: 7/Cortland Co. (12)
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 Gee Brook in Gee Brook (at Routes 26/41) 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 the stream are Class C,C(T). Tribs to this reach/segment are Class C.

Brakel Creek and tribs (0602-0046)

NoKnownImpet

Waterbody Location Information

Revised: 07/15/2009

Water Index No:	SR- 44-14-27-34	Drain Basin:	Susquehanna River
Hydro Unit Code:	02050102/070	Str Class:	C(T)
Waterbody Type:	River (Low Flow)	Reg/County:	7/Chenango Co. (9) ...
Waterbody Size:	29.5 Miles	Quad Map:	CINCINNATUS (K-17-4) ...
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 Brackel Creek in Cincinnatus (at Route 166) 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 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)

Previous Assessment

Concern were raised by local agencies during previous (1998) assessment efforts regarding impacts due to silt/sedimentation, nutrient loads and thermal stresses from agricultural nonpoint source activities. Specific concerns included the loss/removal of riparian vegetation that contributes to thermal stresses and streambank erosion and livestock access to the creek. Local agencies have emphasized agricultural BMP implementation. Dredging and bulldozing in the stream by localities also destabilizes the streambanks. These specific sources should continue to be monitored, however based available sampling data they do not appear cause any significant water quality impacts to the stream. (DEC/DOW, BWAM/WQAS, June 2009)

Segment Description

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

Mead Brook and tribs (0602-0126)

NoKnownImpet

Waterbody Location Information

Revised: 06/25/2009

Water Index No: SR- 44-14-27-35
Hydro Unit Code: 02050102/070 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 9.3 Miles
Seg Description: entire stream and tribs

Drain Basin: Susquehanna River
Chenango River
Reg/County: 7/Cortland Co. (12)
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 Mead Brook in Cincinnatus (at Piety 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 the stream are Class C,C(T). Tribs to this reach/segment are Class C.

Pond Creek and tribs (0602-0128)

NoKnownImpct

Waterbody Location Information

Revised: 06/22/2009

Water Index No: SR- 44-14-27-37
Hydro Unit Code: 02050102/070 **Str Class:** C
Waterbody Type: River
Waterbody Size: 12.6 Miles
Seg Description: entire stream and tribs

Drain Basin: Susquehanna River
Chenango River
Reg/County: 7/Cortland Co. (12)
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 Pond Creek in Taylor (at Route 26) 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 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 the stream are Class C,C(T). Tribs to this reach/segment, including Wells Creek (-1), Class C.

Mud Creek and tribs (0602-0068)

NoKnownImpet

Waterbody Location Information

Revised: 06/26/2009

Water Index No:	SR- 44-14-27-38	Drain Basin:	Susquehanna River
Hydro Unit Code:	02050102/070	Str Class:	C(T)
Waterbody Type:	River	Reg/County:	7/Chenango Co. (9) ...
Waterbody Size:	48.8 Miles	Quad Map:	CINCINNATUS (K-17-4) ...
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 Mud Creek above Pitcher (at closed bridge) was conducted as part of the RIBS biological screening effort in 2003. Sampling results indicated slightly impacted conditions, but near the range of non-impacted. 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 natural communities with some evidence of nonpoint source influences. 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)

A biological (macroinvertebrate) survey of the Otselic River conducted in 1997 also included sampling of Mud Creek at this site. Although the stream appeared to be carrying a heavy load of silt and plankton, the fauna was diverse and well-balanced. Many clean-water indicators were present, and overall water quality indices were in the range of non-impacted conditions. (Otselic River Biological Assessment Report, Bode et al. DEC/DOW, BWAR/SBU, April 1998)

Previous Assessment

Concerns have been raised by local agencies during previous (2000) assessments of the stream regarding impacts of silt and sediment loads from high gradient "flashy" tributary flow. However the sampling results indicate these conditions do not appear have a significant impact on water quality. (DEC/DOW, BWAM/WQAS, June 2009)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C(T). Tribs to this reach/segment, including Factory Gulf (-2) and Linklean Creek (-5), are Class C,C(T).

Otselic Creek and tribs (0602-0130)

NoKnownImpet

Waterbody Location Information

Revised: 06/25/2009

Water Index No: SR- 44-14-27-61
Hydro Unit Code: 02050102/060 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 10.4 Miles
Seg Description: entire stream and tribs

Drain Basin: Susquehanna River
Chenango River
Reg/County: 7/Madison Co. (27)
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 Otselic Creek in Georgetown (at Route 26) 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 the stream are Class C(T). Tribs to this reach/segment are Class C,C(T).