Lower Chenango River Watershed
(0205010208)

**Water Index Number**
- SR- 44 (portion 1)
- SR- 44 (portion 2)
- SR- 44- 1 thru 13 (selected)
- SR- 44- 5
- SR- 44- 5- 3
- SR- 44- 5- 3-P26a
- SR- 44- 6
- SR- 44- 10
- SR- 44- 11
- SR- 44- 11
- SR- 44- 11- 8-1...Pxx
- SR- 44-12-P32
- SR- 44-12-P32-P34
- SR- 44-14

**Waterbody Segment**
- Chenango River, Lower, Main Stem (0602-0033)
- Chenango River, Middle, Main Stem (0602-0009)
- Minor Tribs to Lower Chenango River (0602-0117)
- Castle Creek, Lower, and minor tribs (0602-0065)
- Castle Creek, Upper, and tribs (0602-0166)
- Glen Castle Creek and tribs (0602-0118)
- St Johns Pond (0602-0073)
- Thomas Creek and minor tribs (0602-0120)
- Osborne Creek and minor tribs (0602-0030)
- Page Brook, Lower and tribs (0602-0036)
- Page Brook, Upper and tribs (0602-0122)
- Truitt Pond (0602-0074)
- Chenango Lake (0602-0075)
- Lily Lake (0602-0076)

*See Tioughnioga River Watershed*

**Category**
- Impaired Seg
- Impaired Seg
- NoKnownImpct
- Minor Impacts
- UnAssessed
- UnAssessed
- UnAssessed
- NoKnownImpct
- NoKnownImpct
- NoKnownImpct
- NoKnownImpct
- UnAssessed
- UnAssessed
- UnAssessed
- UnAssessed
- UnAssessed
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<tr>
<td>SR- 44-15 thru 41</td>
<td>Minor Tribs to Middle Chenango River (0602-0136)</td>
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<tr>
<td>thru 41</td>
<td>Spring Brook and tribs (0602-0140)</td>
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<td>thru 41</td>
<td>Tillotson Creek and tribs (0602-0141)</td>
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<tr>
<td>thru 41</td>
<td>Wheeler Brook and tribs (0602-0142)</td>
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<tr>
<td>thru 41</td>
<td>Bear/Padget Brook and tribs (0602-0143)</td>
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<tr>
<td>thru 41</td>
<td>Trestle Lake (0602-0097)</td>
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<td>Lake Gerry (0602-0098)</td>
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<td>Tank Pond (0602-0099)</td>
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<td>thru 41</td>
<td>Bowman Creek and trib (0602-0144)</td>
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<td>thru 41</td>
<td>Lake Ludlow (0602-0100)</td>
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<td>thru 41</td>
<td>Mill Brook and trib (0602-0146)</td>
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<tr>
<td>thru 41</td>
<td>Steer Pond (0602-0101)</td>
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</table>
Chenango River, Lower, Main Stem (0602-0033)  

**Waterbody Location Information**

- **Water Index No:** SR-44 (portion 1)  
- **Drain Basin:** Susquehanna River
- **Hydro Unit Code:** 02050102/130  
- **Str Class:** B
- **Waterbody Type:** River (Med. Flow)  
- **Reg/County:** 7/Broome Co. (4)
- **Waterbody Size:** 21.4 Miles
- **Quad Map:** CHENANGO FORKS (M-17-2)
- **Seg Description:** from mouth to Chenango Forks

**Water Quality Problem/Issue Information**

<table>
<thead>
<tr>
<th>Use(s) Impacted</th>
<th>Severity</th>
<th>Problem Documentation</th>
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<tbody>
<tr>
<td>FISH CONSUMPTION</td>
<td>Impaired</td>
<td>Known</td>
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<tr>
<td>Aquatic Life</td>
<td>Stressed</td>
<td>Known</td>
</tr>
<tr>
<td>Recreation</td>
<td>Stressed</td>
<td>Known</td>
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</table>

**Type of Pollutant(s)**

- **Known:** METALS (mercury), Silt/Sediment
- **Suspected:** Nutrients, Thermal Changes
- **Possible:** Salts

**Source(s) of Pollutant(s)**

- **Known:** Agriculture, Comb. Sewer Overflow, Habitat Modification, Urban/Storm Runoff
- **Suspected:** ATMOSPHER. DEPOSITION, Hydro Modification
- **Possible:** Municipal

**Resolution/Management Information**

- **Issue Resolvability:** 3 (Strategy Being Implemented)
- **Verification Status:** 5 (Management Strategy has been Developed)
- **Lead Agency/Office:** ext/EPA  
- **Resolution Potential:** Medium
- **TMDL/303d Status:** 4a (TMDL Complete, Being Implemented, Not Listed)

**Further Details**

Overview

Fish consumption in this portion of the Chenango River is known to be impaired due to a health advisory that recommend restricting the consumption of fish from the river because of elevated mercury levels. Atmospheric deposition is the likely source of the mercury contamination. Aquatic life support and recreational uses in this reach of the Chenango River is thought to experience minor impacts and threats due to nutrient loads and silt/sedimentation from agricultural and other nonpoint sources in the watershed, and urban/storm runoff in the more urban downstream part of the reach. Impacts due to habitat modification, the result of stream channelization through the city of Binghamton, are also a concern.

Fish Consumption Advisories

Fish consumption in this portion of the Chenango River is impaired by a health advisory for the entire river due to mercury contamination. The advisory recommends eating no more than one meal per month of larger walleye (over 22 inches). NYS DOH indicates elevated mercury levels have been documented in the river in the vicinity of Chenango Forks and Norwich. Atmospheric deposition is considered a likely source of the mercury contamination. Other sources
have not been identified. (2009-10 NYS DOH Health Advisories).

Water Quality Sampling
NYSDEC Rotating Integrated Basin Studies (RIBS) Intensive Network monitoring of Chenango River in Binghamton, Broome County, (at Clinton Street) 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 slightly impacted water quality conditions, indicating generally good water quality. Water column sampling revealed iron and pH to be parameters of concern, but iron levels and elevated pH are considered to be natural characteristics of the river at this site and not a source of water quality impacts. Sediment screening for acute toxicity indicated slight sediment toxicity but 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 were not collected at this site for chemical analysis. 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 minor impacts but aquatic life is considered to be fully supported in the stream, and there are no other apparent water quality impairments to recreational uses. (DEC/DOW, BWAR/RIBS, August 2009)

A biological (macroinvertebrate) assessment of Chenango River in Binghamton (at Route 17) 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 a 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 elevated enrichment in the stream and fauna that is most similar to communities influenced by nonpoint sources. These results are consistent with results from previous sampling at this site; previous results alternate between non- and slightly impacted water quality conditions. In spite of these minor impacts, aquatic life support is considered to be fully supported in the stream. (DEC/DOW, BWAM/SBU, January 2009)

Source Assessment
The upper reach is thought to be more affected by nutrients, sediments and agricultural inputs. Although agricultural land use in this reach is limited, considerable activity farther upstream in the drainage area contributes loadings. Elevated nutrients alter habitat, reduces suitable nursery and spawning areas, and foster algae growth which discourages the favored species, smallmouth bass. (Broome County WQCC, 1998)

Sources of silt/sedimentation include agricultural activities upstream, urban runoff and various other nonpoint sources. Gravel mining activity was previously cited as a contributing source, however the Barrett/ Boland Mine directly next to the river was reclaimed over a decade ago. (DEC/DMR, July 2009)

In the lower reach, water quality concerns impacting recreational uses are related to urban sources including urban runoff, CSOs, and thermal and hydrologic effects due to hydro and habitat modification. The river is significantly channelized within the City of Binghamton. (DEC/DOW, Region 7, January 2000)

Section 303(d) Listing
Due to the fish consumption advisory this portion of Chenango River was included in the 2006 Section 303(d) List of Impaired Waters, but it is not included on the 2008 List. Though the waterbody remains impaired, it was delisted in 2008 due to the completion of the Northeast Regional Mercury TMDL which was approved in 2007 and provides coverage for this specific waterbody. (DEC/DOW, BWAM, January 2009)

Segment Description
This segment includes the main stem portion of the river from the mouth to the Tioughnioga River (-14) in Chenango Forks. This reach of the river is Class B.
Chenango River, Middle, Main Stem (0602-0009)  Impaired Seg

Waterbody Location Information

| Water Index No:         | SR-44 (portion 2) |
| Hydro Unit Code:       | 02050102/050      |
| Waterbody Type:        | River (Med. Flow) |
| Waterbody Size:        | 42.2 Miles        |
| Seg Description:       | from Chenango Forks to near Oxford |

Drain Basin: Susquehanna River

| Reg/County:            | 7/Chenango Co. (9) |
| Quad Map:              | GREENE (L-17-3) ...

Waterbody Type: River (Med. Flow)

Water Quality Problem/Issue Information

Use(s) Impacted: FISH CONSUMPTION

Severity: Impaired

Problem Documentation: Known

Type of Pollutant(s)

- Known: METALS (mercury)
- Suspected: - - -
- Possible: - - -

Source(s) of Pollutant(s)

- Known: - - -
- Suspected: ATMOSPHER. DEPOSITION
- Possible: - - -

Resolution/Management Information

Issue Resolvability: 3 (Strategy Being Implemented)

Verification Status: 5 (Management Strategy has been Developed)

Lead Agency/Office: ext/EPA

Resolution Potential: Medium

TMDL/303d Status: 4a (TMDL Complete, Being Implemented, Not Listed)

Further Details

Overview
Fish consumption in this portion of the Chenango River is known to be impaired due to a health advisory that recommend restricting the consumption of fish from the river because of elevated mercury levels. Atmospheric deposition is the likely source of the mercury contamination.

Fish Consumption Advisories
Fish consumption in this portion of the Chenango River is impaired by a health advisory for the entire river due to mercury contamination. The advisory recommends eating no more than one meal per month of larger walleye (over 22 inches). NYS DOH indicates elevated mercury levels have been documented in the river in the vicinity of Chenango Forks and Norwich. Atmospheric deposition is considered a likely source of the mercury contamination. Other sources have not been identified. (2009-10 NYS DOH Health Advisories).

Water Quality Sampling
A RIBS Intensive Network Monitoring site was located on the river below Norwich in 1998. Chemical monitoring at the site at that time indicated no significant parameters of concern and water quality was assessed as good. Although a fishery assessment found generally good habitat, silt and sedimentation from streambank erosion and agricultural runoff...
were noted. (DEC/DOW, RIBS, August 2000)

Biological (macroinvertebrate) sampling conducted in the lower reach near Chenango Forks in 1997 revealed slightly impacted conditions with considerable Macrophytes. However, other sites along the reach in Greene and Norwich found non-impacted conditions. (DEC/DOW, BWAR/SBU, January 1999)

Previous Assessment
Concerns regarding impacts from nonpoint sources loads to the river have been raised in previous assessments. However, while these sources represent an ongoing threat and should continue to be monitored and reduced when possible, current impacts on the river water quality do not appear to be significant. Previously cited problems attributed to the Norwich WWTP appear to have been addressed with the plant upgrade in November 1989. (DEC/DOW, Region 7, 1998)

Section 303(d) Listing
Due to the fish consumption advisory this portion of Chenango River was included in the 2006 Section 303(d) List of Impaired Waters, but it is not included on the 2008 List. Though the waterbody remains impaired, it was delisted in 2008 due to the completion of the Northeast Regional Mercury TMDL which was approved in 2007 and provides coverage for this specific waterbody. (DEC/DOW, BWAM, January 2009)

Segment Description
This segment includes the main stem portion of the river from the Tioughnioga River (-14) in Chenango Forks to Mill Creek (-41) below Oxford. This reach of the river is Class B.
Waterbody Location Information

| Water Index No: | SR- 44- 1 thru 13 (selected) | Drain Basin: | Susquehanna River |
| Hydro Unit Code: | 02050102/130 | Str Class: | C |
| Waterbody Type: | River | Reg/County: | 7/Broome Co. (4) |
| Waterbody Size: | 13.4 Miles | Quad Map: | () |
| Seg Description: | total length of selected tribs, mouth to Chenango Forks |

Water Quality Problem/Issue Information

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<tr>
<th>Use(s) Impacted</th>
<th>Severity</th>
<th>Problem Documentation</th>
</tr>
</thead>
<tbody>
<tr>
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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
TMDL/303d Status: n/a
Resolution Potential: n/a

Further Details

Water Quality Sampling
A biological (macroinvertebrate) assessment of Phelps Creek (at Chenango Street) 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. Phelps Creek is just one of several streams that make up this waterbody segment, but it is considered representative of water quality in the segment as a whole. This segment is listed as being evaluated rather than monitored. (DEC/DOW, BWAM/SBU, January 2009)

Previous Assessment
Concerns were previously raised by local agencies (Broome County WQCC, 1998) regarding the impact of silt/sedimentation from stream and roadbank erosion, and residential development. While monitoring of impacts from such sources continue, it appears from the most recent sampling that these sources have little if any water quality impacts on the aquatic community. (DEC/DOW, BWAM, June 2009)
Segment Description
This segment includes the total length of selected/smaller tribs to the Lower Chenango River (from the mouth to Tioughnioga River in Chenango Forks). Tribs within this segment, including Phelps Creek, are Class C. Castle Creek (-5), Thomas Creek (-6), Osborne Creek (-10), Page Brook (-11) and Tioughnioga River (-14) are listed separately.
Castle Creek, Lower, and minor tribs (0602-0065)  Minor Impacts

Waterbody Location Information

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<td>Reg/County:</td>
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| Waterbody Size: | 28.7 Miles | Quad Map: | CASTLE CREEK (M-17-1) ...
| Seg Description: | stream and tribs, from mouth to Castle Creek |

Water Quality Problem/Issue Information

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Type of Pollutant(s)

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Source(s) of Pollutant(s)

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Resolution/Management Information

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Further Details

Overview
Habitat/hydrology in Castle Creek is known to experience minor impacts due to excessive silt and sediment loads, the result of streambank and roadbank erosion.

Water Quality Sampling
Biological (macroinvertebrate) sampling of the Castle Creek in Hinman Corners (at Route 11) indicated the stream to be non-impacted. The fauna appeared diverse, well-balanced and satisfied screening criteria. (DEC/DOW, BWAR/SBU, January 1999)

Biological sampling of Glen Castle Creek, a trib to Castle Creek, in 2003 found slightly impacted conditions. Indices suggested elevated nutrient enrichment, however the fauna was most similar to natural communities. (DEC/DOW, BWAM/SBU. June 2009)

Source Assessment
High gradient streams and "flashy" runoff events result in significant sediment load to the stream. Poor management practices in the watershed exacerbate the problem. However the sampling results indicate these conditions do not appear
have a significant impact on water quality. (DEC/DFWMR, Region 7, November 2000)

Segment Description
This segment includes the portion of the stream and all tribus from the mouth to/including Brooks Creek (-7) near Castle Creek. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including Glen Castle Creek (-3) and Brooks Creek (-7), are Class C,C(T). Upper Castle Creek is listed separately.
Thomas Creek and minor tribs (0602-0120)  

**Waterbody Location Information**

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**Water Quality Problem/Issue Information**

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<th>Severity</th>
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**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 |
| TMDL/303d Status: | n/a |
| Resolution Potential: | n/a |

**Further Details**

Water Quality Sampling
A biological (macroinvertebrate) assessment of Thomas Creek in Chenango Bridge (at Route 12A) was conducted as part of the RIBS biological screening effort in 2003 and in 2008. 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 2003 sample was initially assessed as moderately impacted, but this was thought to be heavily influenced by low gradient and marshy areas upstream of the site. When subsequently evaluated using low gradient (sandy stream) criteria, the assessment was clearly in the slightly impacted range. 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, 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, including Gilbert Creek (-2), are Class C.
Osborne Creek and minor tribs (0602-0030)  NoKnownImpact

Waterbody Location Information

Water Index No: SR-44-10  Drain Basin: Susquehanna River
Hydro Unit Code: 02050102/130  Str Class: C  Chenango River
Waterbody Type: River (Low Flow)  Reg/County: 7/Broome Co. (4)
Waterbody Size: 32.9 Miles  Quad Map: CHENANGO FORKS (M-17-2) ...
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 IMPAIRMENT

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  
TMDL/303d Status: n/a  
Resolution Potential: n/a

Further Details

Water Quality Sampling
A biological (macroinvertebrate) assessment of Osborne Creek in Port Crane (at Ballyhack and Pleasant Hill Roads) 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)

A biological assessment of Ballyhack Creek in Port Crane (above Osborne Creek) was also 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 elevated enrichment in the stream but fauna that is most similar to natural communities. 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)
Previous Assessment
Concerns were previously raised by local agencies (Broome County WQCC, 1998) regarding the impact of silt/sedimentation from stream and roadbank erosion, and residential development. While monitoring of impacts from such sources continue, it appears from the most recent sampling that these sources have little if any water quality impacts on the aquatic community. (DEC/DOW, BWAM, June 2009)

Segment Description
This segment includes the entire stream and all trib. The waters of the stream are Class C. Tribs to this reach/segment, including Ballyhack Creek (-1) and Porter Creek (-7), are Class C.
Page Brook, Lower and tribs (0602-0036)  NoKnownImpct

Waterbody Location Information  Revised: 09/16/2009

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<td>Waterbody Size:</td>
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<td>CHENANGO FORKS (M-17-2)</td>
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<td>Seg Description:</td>
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Water Quality Problem/Issue Information  (CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

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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 |
| TMDL/303d Status:    | n/a |

Resolution Potential: n/a

Further Details

Water Quality Sampling
NYSDEC Rotating Integrated Basin Studies (RIBS) Intensive Network monitoring of Page Brook in Fenton, Broome County, (at Rogers Road) 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 pH to be parameter(s) of concern, however, pH is considered to be naturally high and not a source of water quality impacts. Sediment screening for acute toxicity indicated no toxicity to be present. Sediment sampling revealed some contaminants at low levels but 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. Chronic 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 in spite of some concerns that should continue to be monitored, 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 Page Brook near Chenango Bridge in 1998 also indicated the stream to be non-impacted. The fauna appeared diverse, well-balanced and satisfied screening criteria. (DEC/DOW, BWAR/SBU, January 1999)

Previous Assessment Concerns were raised during a previous assessment effort in 1998 regarding impacts from roadbank and streambank erosion in high gradient streams and during "flashy" runoff events. While more recent monitoring reveals no water quality impacts in the stream, habitat conditions should continue to be monitored. (DEC/DOW, BWAM/WQAS, August 2009)

Segment Description
This segment includes the portion of the stream and all tribs from the mouth to/including unnamed trib (-8) in Page Brook. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including Dry Brook (-2), are also Class C. Upper Page Brook is listed separately.
Bear/Padget Brook and tribs (0602-0143)  

NoKnownImpct

Waterbody Location Information

<table>
<thead>
<tr>
<th>Water Index No:</th>
<th>SR- 44-38</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydro Unit Code:</td>
<td>02050102/050</td>
</tr>
<tr>
<td>Waterbody Type:</td>
<td>River</td>
</tr>
<tr>
<td>Waterbody Size:</td>
<td>53.3 Miles</td>
</tr>
<tr>
<td>Seg Description:</td>
<td>entire stream and tribs</td>
</tr>
</tbody>
</table>

Drain Basin: Susquehanna River  
Str Class: C(T)  
Reg/County: 7/Chenango Co. (9)

Water Quality Problem/Issue Information

Use(s) Impacted: NO USE IMPAIRMENT

Severity

Problem Documentation

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
TMDL/303d Status: n/a
Resolution Potential: n/a

Further Details

Water Quality Sampling
A biological (macroinvertebrate) assessment of Bear Brook in South Oxford (at Route 32) 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 Eddy Brook (-1) and Cheshire Creek (-5), are also Class C,C(T).
Lake Gerry (0602-0098)  NoKnownImpct

Waterbody Location Information

| Water Index No: | SR-44-38-1-P95-1-P97 | Drain Basin: | Susquehanna River |
| Hydro Unit Code: | 02050102/050 | Str Class: | C |
| Waterbody Type: | Lake | Reg/County: | 7/Chenango Co. (9) |
| Waterbody Size: | 33.1 Acres | Quad Map: | OXFORD (L-18-2) |
| Seg Description: | entire lake |

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

<table>
<thead>
<tr>
<th>Use(s) Impacted</th>
<th>Severity</th>
<th>Problem Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO USE IMPAIRMNT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 |
| TMDL/303d Status: | n/a |

Further Details

Water Quality Sampling
Lake Gerry has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) in 2004 and 2005. An Interpretive Summary report of the findings of this sampling was published in 2006. 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. Corresponding transparency measurements routinely exceed the recommended minimum for swimming beaches. Measurements of pH typically fall within the state water quality range of 6.5 to 8.5. The lake water is moderately to highly colored, and color may be sufficiently high to limit lake clarity at times. (DEC/DOW, BWAM/CSLAP, February 2006)

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 very favorable. The recreational suitability of the lake is described most frequently as "could not be nicer" to "excellent." The lake itself is most often described as "crystal clear" to "not quite crystal clear," an assessment that is somewhat more favorable than expected given measured water quality characteristics. Assessments have noted that aquatic plants typically grow to the lake surface, but are not frequently cited as impacting recreational uses. (DEC/DOW, BWAM/CSLAP, February 2006)
Lake Uses
This lake waterbody is designated class C, suitable for use as for general recreation use and aquatic life support, but not for drinking water supply or as a 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 entire lake.
Bowman Creek and tribs (0602-0144)

**Waterbody Location Information**

- **Water Index No:** SR- 44-39
- **Hydro Unit Code:** 02050102/050
- **Str Class:** C
- **Waterbody Type:** River
- **Waterbody Size:** 52.7 Miles
- **Seg Description:** entire stream and tribs
- **Drain Basin:** Susquehanna River
- **Str Class:** Chenango River
- **Reg/County:** 7/Chenango Co. (9)
- **Quad Map:** ()

**Water Quality Problem/Issue Information**

<table>
<thead>
<tr>
<th>Use(s) Impacted</th>
<th>Severity</th>
<th>Problem Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO USE IMPAIRMENT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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
- **TMDL/303d Status:** n/a
- **Resolution Potential:** n/a

**Further Details**

Water Quality Sampling
A biological (macroinvertebrate) assessment of Bowman Brook in Tyner (at Livingston 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 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 Ludlow Creek (-5), are also Class C,C(T).