



## Chemung River/Lower Chemung Watershed

(0205010506)

Water Index Number	Waterbody Segment	Category
Pa 3 (portion 1)	Chemung River, Lower, Main Stem (0501-0014)	Threatened
Pa 3- 1 thru 5	Minor Tribs to Lower Chemung River (0501-0018)	UnAssessed
Pa 3- 6	Wynkoop Creek, Lower, and tribs (0501-0019)	NoKnownImpct
Pa 3- 6	Wynkoop Creek, Upper, and tribs (0501-0020)	NoKnownImpct
Pa 3- 7 thru 12	Minor Tribs to Chemung River (0501-0021)	UnAssessed
Pa 3-14	Baldwin Creek, Lower, and tribs (0501-0022)	NoKnownImpct
Pa 3-14	Baldwin Creek, Upper, and tribs (0501-0023)	NoKnownImpct
Pa 3-14- 2	Goldsmith Creek and tribs (0501-0024)	UnAssessed
Pa 3-14-21-P16b	Beaver Pond (0501-0025)	UnAssessed
Pa 3-16	Bentley Creek and tribs (0501-0026)	NoKnownImpct

# Chemung River, Lower, Main Stem (0501-0014)

**Threatened**

## Waterbody Location Information

Revised: 05/09/2007

<b>Water Index No:</b>	Pa 3 (portion 1)	<b>Drain Basin:</b>	Chemung River
<b>Hydro Unit Code:</b>	02050105/270	<b>Str Class:</b>	A
<b>Waterbody Type:</b>	River	<b>Reg/County:</b>	8/Chemung Co. ( 8)
<b>Waterbody Size:</b>	10.0 Miles	<b>Quad Map:</b>	WELLSBURG (M-14-4)
<b>Seg Description:</b>	from Waverly to Wellsburg		

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

Use(s) Impacted	Severity	Problem Documentation
Water Supply	Threatened	Known

### Type of Pollutant(s)

Known: ---  
Suspected: ---  
Possible: PATHOGENS, Pesticides

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

Known: ---  
Suspected: ---  
Possible: AGRICULTURE, Municipal

## Resolution/Management Information

**Issue Resolvability:** 3 (Strategy Being Implemented)  
**Verification Status:** 5 (Management Strategy has been Developed)  
**Lead Agency/Office:** ext/muni  
**TMDL/303d Status:** n/a

**Resolution Potential:** High

## Further Details

Drinking water use of this portion of the Chemung River Reservoir is considered to be threatened due to the susceptibility of the water supply to possible contamination from activities and sources in the watershed. Class A surface waters of the state that serve as the source of potable water for significant populations are typically categorized as threatened.

The New York State Health Department Source Water Assessment for the water supply of the Elmira Water Board (including the Chemung River) found an elevated susceptibility to contamination for this source of drinking water. The amount of agricultural lands in the assessment area results in elevated potential for protozoa and pesticides contamination. While there are some facilities present, permitted discharges do not likely represent an important threat to source water quality based on their density in the assessment area. However, it is appears that the total amount of wastewater discharged to surface water in this assessment area is high enough to further raise the potential for contamination (particularly for protozoa). There are no noteworthy contamination threats associated with other discrete contaminant sources. Finally, it should be noted that relatively high flow velocities make river drinking water supplies highly sensitive to existing and new sources of microbial contamination. (NYSDOH, SWAP, 2006)

The Chemung River provides about 69% of the raw water distributed to 65,000 residents of Elmira, Horseheads and surrounding communities by the Elmira Water Board. The daily average of water used is 6.1 million gallons per day.

(Elmira Water Board, 2006 Drinking Water Report, March 2007)

NYSDEC Rotating Intensive Basin Studies (RIBS) Routine Network monitoring of the Chemung River in Chemung, Chemung County, is conducted annually at the Route 427 bridge. In addition, when RIBS Intensive Network monitoring is conducted in a targeted basin every five years, additional sampling methods are employed to gain an overall assessment of water quality. The most recent assessment was conducted in 2003. In addition to water column chemistry, this Intensive Network sampling includes sediment assessment, macroinvertebrate tissue analysis and toxicity testing, as well as macroinvertebrate community analysis. Biological (macroinvertebrate) sampling indicated non-impacted water quality conditions. The fauna showed some indications of nutrient enrichment by nonpoint agricultural sources, but the sample contained many mayflies, stoneflies and caddisflies. Water column sampling revealed total phenols and iron to be parameters of concern that exceed assessment criteria in about 15% of samples collected between 1998 and 2003. In the case of iron, this substance is considered to be naturally occurring and not a source of water quality impact. In the case of Total Phenols, analytical detection limitations may influence the frequency of results over the criterion. Testing of the water revealed no aquatic toxicity. Sediment analyses found nickel to be elevated and some indications of slight toxicity, but not such that would result in chronic impacts to aquatic life. (DEC/DOW, BWAM/RIBS, June 2005)

A biological (macroinvertebrate) assessment of Chemung River in Chemung (at Route 17W) was also conducted in 2002 as part of the RIBS Biological Screening effort. Sampling results indicated non-impacted water quality conditions. The fauna showed some indications of nutrient enrichment by nonpoint agricultural sources, but the sample contained many mayflies, stoneflies and caddisflies. Previous sampling at this site in 1984, 1991 and 1998 indicated slight impacts. Continued monitoring of this site is recommended in order to confirm this apparent improvement. A site farther downstream below Chemung (at Route 17) was last sampled in 1997 and revealed non-impacted water quality at the time. The fauna was diverse and well-balanced and dominated by mayflies and caddisflies with stoneflies also present. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the main stem of the river from the NY-Pa state line near Waverly to Bentley Creek (-16) in Wellsburg. The waters of this portion of the stream are Class A.

# Minor Tribes to Lower Chemung River (0501-0018)

UnAssessed

## Waterbody Location Information

Revised: 05/26/2004

<b>Water Index No:</b>	Pa 3- 1 thru 5	<b>Drain Basin:</b>	Chemung River
<b>Hydro Unit Code:</b>	02050105/270	<b>Str Class:</b>	C
<b>Waterbody Type:</b>	River	<b>Reg/County:</b>	8/Chemung Co. ( 8)
<b>Waterbody Size:</b>	19.8 Miles	<b>Quad Map:</b>	WAVERLY (M-14-3)
<b>Seg Description:</b>	total length of all tribes, from Waverly to Chemung		

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

Use(s) Impacted	Severity	Problem Documentation
UnAssessed Water		

### Type of Pollutant(s)

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

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

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

## Resolution/Management Information

Issue **Resolvability:** ()  
**Verification Status:** (Not Applicable for Selected RESOLVABILITY)  
**Lead Agency/Office:**  
**TMDL/303d Status:** n/a

**Resolution Potential:** n/a

## Further Details

This segment includes the total length of smaller tribes to the Chemung River between the NY-Pa state line near Waverly to Wynkoop Creek (-6) in Chemung. Tribes within this segment, including Dry Brook (-4), are Class C. Wynkoop Creek is listed separately.

# Wynkoop Creek, Lower, and tribs (0501-0019)

NoKnownImpct

## Waterbody Location Information

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Revised: 01/18/2007

<b>Water Index No:</b>	Pa 3- 6	<b>Drain Basin:</b>	Chemung River
<b>Hydro Unit Code:</b>	02050105/290	<b>Str Class:</b>	C
<b>Waterbody Type:</b>	River	<b>Reg/County:</b>	8/Chemung Co. ( 8)
<b>Waterbody Size:</b>	28.4 Miles	<b>Quad Map:</b>	WAVERLY (M-14-3)
<b>Seg Description:</b>	stream and tribs, from mouth to below Beantown		

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

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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

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**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

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A biological (macroinvertebrate) assessment of Wynkoop Creek in Chemung (at Route 17) was conducted in 2002. Sampling results indicated non-impacted water quality conditions. The sample showed signs of siltation, but all metric values were within the range signifying non-impacted water quality. (DEC/DOW, BWAM/SBU, June 2005)

Sampling results from a 2006 Susquehanna River Basin Chemung River Subbasin Survey indicated slight impacts, but these may have been the result of degraded habitat conditions rather than water quality conditions. Water chemistry results did not reveal any impacts and the biological sample contained many sensitive species. (SRBC, March 2007)

This segment includes the portion of the stream and all tribs from the mouth to/including unnamed trib (-11) below Beantown. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including Mallory Creek (-7), are also Class C. Upper Wynkoop Creek is listed separately.

# Wynkoop Creek, Upper, and tribs (0501-0020)

NoKnownImpct

## Waterbody Location Information

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Revised: 01/23/2007

<b>Water Index No:</b>	Pa 3-6	<b>Drain Basin:</b>	Chemung River
<b>Hydro Unit Code:</b>	02050105/290	<b>Str Class:</b>	C(T)
<b>Waterbody Type:</b>	River	<b>Reg/County:</b>	8/Chemung Co. ( 8)
<b>Waterbody Size:</b>	37.8 Miles	<b>Quad Map:</b>	WELLSBURG (M-14-4)
<b>Seg Description:</b>	stream and tribs, above Beantown		

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

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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

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**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

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A biological (macroinvertebrate) assessment of Wynkoop Creek in Beantown (at Wynkoop Creek Road) was conducted in 2002. Sampling results indicated slightly impacted water quality conditions. While the headwater nature of the stream likely contributed to some low metric values, some minor nonpoint source nutrient enrichment was indicated and diatoms were abundant on the stream substrate. However, nutrient biotic evaluation determined these effects on the fauna to be minor. Aquatic life 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 2005)

This segment includes the portion of the stream and all tribs above unnamed trib (-11) below Beantown. The waters of this portion of the stream are Class C,C(T),C(TS). Tribs to this reach/segment are Class C,C(TS). Lower Wynkoop Creek is listed separately.

# Minor Tribs to Chemung River (0501-0021)

**UnAssessed**

## Waterbody Location Information

Revised: 05/26/2004

<b>Water Index No:</b>	Pa 3- 7 thru 12	<b>Drain Basin:</b>	Chemung River
<b>Hydro Unit Code:</b>	02050105/270	<b>Str Class:</b>	C
<b>Waterbody Type:</b>	River	<b>Reg/County:</b>	8/Chemung Co. ( 8)
<b>Waterbody Size:</b>	23.3 Miles	<b>Quad Map:</b>	WELLSBURG (M-14-4)
<b>Seg Description:</b>	total length of all tribs, from Chemung to Wellburg		

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

<b>Use(s) Impacted</b>	<b>Severity</b>	<b>Problem Documentation</b>
UnAssessed Water		

### **Type of Pollutant(s)**

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

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

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

## Resolution/Management Information

**Issue Resolvability:** ()  
**Verification Status:** (Not Applicable for Selected RESOLVABILITY)  
**Lead Agency/Office:**  
**TMDL/303d Status:** n/a

**Resolution Potential:** n/a

## Further Details

This segment includes the total length of smaller tribs to the Chemung River from Wynkoop Creek (-6) in Chemung to Baldwin Creek (-14) near Lowman. Tribs within this segment, including Henyon Hollow Brook (-10) and Roberts Hollow Brook (-11), are Class C. Wynkoop Creek and Baldwin Creek are listed separately.

# Baldwin Creek, Lower, and tribs (0501-0022)

NoKnownImpct

## Waterbody Location Information

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Revised: 01/19/2007

<b>Water Index No:</b>	Pa 3-14	<b>Drain Basin:</b>	Chemung River
<b>Hydro Unit Code:</b>	02050105/250	<b>Str Class:</b>	C*
<b>Waterbody Type:</b>	River	<b>Reg/County:</b>	8/Chemung Co. ( 8)
<b>Waterbody Size:</b>	12.6 Miles	<b>Quad Map:</b>	WELLSBURG (M-14-4)
<b>Seg Description:</b>	stream and tribs, from mouth to East Elmira		

## Water Quality Problem/Issue Information

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(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

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**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

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A biological (macroinvertebrate) assessment of Baldwin Creek in East Elmira (at Lowman Road/Route 2) was conducted in 2002. Sampling results indicated non-impacted water quality conditions. The sample was characterized by diverse a community dominated by mayflies and caddisflies. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the portion of the stream and all tribs from the mouth to Goldsmith Creek (-3) in East Elmira. The waters of this portion of the stream are Class C from the mouth to the Ashland-Elmira Town line, Class B from the Ashland-Elmira Town line to unnamed trib (-2), and Class C for the remainder of the reach. Tribs to this reach/segment, including Hoffman Hollow Brook (-1), are Class C. Goldsmith Creek and Upper Baldwin Creek are listed separately.

# Baldwin Creek, Upper, and tribs (0501-0023)

NoKnownImpct

## Waterbody Location Information

Revised: 01/19/2007

<b>Water Index No:</b>	Pa 3-14	<b>Drain Basin:</b>	Chemung River
<b>Hydro Unit Code:</b>	02050105/250	<b>Str Class:</b>	C
<b>Waterbody Type:</b>	River	<b>Reg/County:</b>	8/Chemung Co. ( 8)
<b>Waterbody Size:</b>	41.7 Miles	<b>Quad Map:</b>	WELLSBURG (M-14-4)
<b>Seg Description:</b>	stream and tribs, above East Elmira		

## 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  
**TMDL/303d Status:** n/a

**Resolution Potential:** n/a

## Further Details

A biological (macroinvertebrate) assessment of Baldwin Creek in Lowman (at Route 60) was conducted in 2002. Field sampling results indicated non-impacted water quality conditions. The sample satisfied field screening criteria and was returned to the stream. A laboratory-processed sample taken farther downstream in East Elmira was also determined to be non-impacted. Both samples revealed diverse communities dominated by mayflies and caddisflies. (DEC/DOW, BWAM/SBU, June 2005)

This segment includes the portion of the stream and all tribs above Goldsmith Creek (-3) in East Elmira. The waters of this portion of the stream are Class C,C(T). Tribs to this reach/segment, including Elston Hollow Brook (-7), are Class C. Goldsmith Creek and Lower Baldwin Creek are listed separately.

# Goldsmith Creek and tribs (0501-0024)

UnAssessed

## Waterbody Location Information

Revised: 05/26/2004

<b>Water Index No:</b>	Pa 3-14- 2	<b>Drain Basin:</b>	Chemung River
<b>Hydro Unit Code:</b>	02050105/250	<b>Str Class:</b>	C
<b>Waterbody Type:</b>	River	<b>Reg/County:</b>	8/Chemung Co. ( 8)
<b>Waterbody Size:</b>	20.5 Miles	<b>Quad Map:</b>	WELLSBURG (M-14-4)
<b>Seg Description:</b>	entire stream and tribs		

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

Use(s) Impacted	Severity	Problem Documentation
UnAssessed Water		

### Type of Pollutant(s)

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

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

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

## Resolution/Management Information

**Issue Resolvability:** ()  
**Verification Status:** (Not Applicable for Selected RESOLVABILITY)  
**Lead Agency/Office:**  
**TMDL/303d Status:** n/a

**Resolution Potential:** n/a

## Further Details

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

# Beaver Pond (0501-0025)

**UnAssessed**

## Waterbody Location Information

Revised: 05/26/2004

<b>Water Index No:</b>	Pa 3-14-21-P16b	<b>Drain Basin:</b>	Chemung River
<b>Hydro Unit Code:</b>	02050105/250	<b>Str Class:</b>	C
<b>Waterbody Type:</b>	Lake	<b>Reg/County:</b>	8/Chemung Co. ( 8)
<b>Waterbody Size:</b>	8.1 Acres	<b>Quad Map:</b>	ERIN (M-14-1)
<b>Seg Description:</b>	entire lake		

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

Use(s) Impacted	Severity	Problem Documentation
UnAssessed Water		

### Type of Pollutant(s)

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

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

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

## Resolution/Management Information

**Issue Resolvability:** ()  
**Verification Status:** (Not Applicable for Selected RESOLVABILITY)  
**Lead Agency/Office:**  
**TMDL/303d Status:** n/a

**Resolution Potential:** n/a

## Further Details

# Bentley Creek and tribs (0501-0026)

NoKnownImpct

## Waterbody Location Information

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Revised: 01/19/2007

<b>Water Index No:</b> Pa 3-16	<b>Drain Basin:</b> Chemung River
<b>Hydro Unit Code:</b> 02050105/240	<b>Str Class:</b> C
<b>Waterbody Type:</b> River	<b>Reg/County:</b> 8/Chemung Co. ( 8)
<b>Waterbody Size:</b> 10.9 Miles	<b>Quad Map:</b> WELLSBURG (M-14-4)
<b>Seg Description:</b> entire stream and tribs	

## Water Quality Problem/Issue Information

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(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

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**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

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A biological (macroinvertebrate) assessment of Bentley Creek in Wellsburg (at Route 427) was conducted in 2002. Sampling results indicated non-impacted water quality conditions. The fauna reflected some influences of nutrient enrichment and siltation, but most metrics were within the range of non-impacted water quality. In spite of some minor effects on the fauna, aquatic life support is considered to be fully supported in the river, and there are no other apparent water quality impacts. (DEC/DOW, BWAM/SBU, June 2005)

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