



Middle Branch Oswegatchie Watershed (0415030203)

Water Index Number

SL-25- 73-26
 SL-25- 73-26- 2-P148
 SL-25- 73-26- 6- 2-P152
 SL-25- 73-26- 6- 3-P153,P154
 SL-25- 73-26- 6- 4-P157,P158
 SL-25- 73-26- 6-P161,P162
 SL-25- 73-26- 9-P164
 SL-25- 73-26-11-P166,-13-P167
 SL-25- 73-26-16-P171,P173
 SL-25- 73-26-24-P171a
 SL-25- 73-26-38-P179 thru P186
 SL-25- 73-26-40-P188,P190,P192
 SL-25- 73-26-40-P189
 SL-25- 73-26-40-P191

Waterbody

Middle Br Oswegatchie and tribs (0905-0153)
 Norman Pond (0905-0154)
 Elijah Lake (0905-0155)
 Silver Dawn Lake, L. Silver Dawn Lake (0905-0156)
 Lower Scuttle Hole, Scuttle Hole (0905-0157)
 Round Lake, Long Lake (0905-0158)
 Lanes Pond (0905-0159)
 Mouldy Pond, Little Mouldy Pond (0905-0160)
 Wolf Pond, Massawepie Pond (0905-0161)
 Maple Hill Pond (0905-0162)
 Gregg Lake, Green, Twin, Loon Hollow Pds (0905-0035)
 Grass Pond, Emerald Lake, Sitz Pond (0905-0008)
 Rock Lake (0905-0015)
 Sand Lake (0905-0016)

Category

Threatened
 UnAssessed
 UnAssessed
 UnAssessed
 UnAssessed
 UnAssessed
 UnAssessed
 UnAssessed
 UnAssessed
 UnAssessed
 Impaired Seg
 Impaired Seg
 Impaired Seg
 Impaired Seg

Water Index Number

SL-25- 73-26-42-2-P195

SL-25- 73-26-42-P196,P197

SL-25- 73-26-43-P198,P199,P200

SL-25- 73-26-49-P210

SL-25- 73-26-P214

Waterbody[Muskrat Pond, more \(0905-0061\)](#)[Bear Pond, Diana Pond \(0905-0062\)](#)[Lower, Middle Upper South Ponds \(0905-0012\)](#)[Willys \(Horseshoe\) Lake, more \(0905-0026\)](#)[Walker Lake, more \(0905-0024\)](#)**Category**

Impaired Seg

Impaired Seg

Impaired Seg

Impaired Seg

Impaired Seg

Middle Br Oswegatchie and tribs (0905-0153)

Threatened

Waterbody Location Information

Revised: 01/15/2009

Water Index No:	SL-25- 73-26	Drain Basin:	Saint Lawrence River
Hydro Unit Code:	04150302/030	Str Class:	C(T)
Waterbody Type:	River	Reg/County:	6/Lewis Co. (25)
Waterbody Size:	264.5 Miles	Quad Map:	POPE MILLS (D-18-2)
Seg Description:	entire stream and tribs		

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Threatened	Known

Type of Pollutant(s)

Known: ---
Suspected: ACID/BASE (PH)
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ATMOSPH. DEPOSITION
Possible: ---

Resolution/Management Information

Issue Resolvability:	1 (Needs Verification/Study (see STATUS))	
Verification Status:	4 (Source Identified, Strategy Needed)	
Lead Agency/Office:	ext/EPA	Resolution Potential: Medium
TMDL/303d Status:	n/a	

Further Details

Overview

Aquatic life support in this portion of the Middle Branch Oswegatchie River is considered to be threatened due to low pH a result of atmospheric deposition (acid rain).

Water Quality Sampling

Historical acid rain lake surveys indicate that low pH due to acid deposition is limiting the fishery in the headwaters of the Middle Branch Oswegatchie River. Monitoring by ALSC (1980, 82) revealed pH of <5.0 during spring runoff. Surveys of some of the lakes in this segment also indicate that low pH due to acid deposition is limiting the fishery. Monitoring by ALSC (1984-87) revealed a pH below 5.0 and no presence of fish in a number of smaller ponds throughout the upper portion of the Middle Branch Oswegatchie River Watershed. Outflow from these lakes, which are included in other lake waterbody segments in this watershed, affects pH of the river and tribs of this segment.

Water Quality Management/TMDL

In 2006, NYSDEC established and USEPA approved a TMDL to address acid rain impairment to 143 Adirondack lakes that are located in NYS Forest Preserve lands, including many of the smaller ponds tributary to, but separate from, this segment. Recognizing that the available pH data for many of these lakes is 20-30 years old, the TMDL outlines a phased/adaptive management approach, that initially relies heavily on monitoring and assessment to determine current

conditions, modeling refinements to estimate future conditions, and the implementation of statewide, regional and national efforts to reduce atmospheric loadings causing the impairment. (Impaired Water Restoration Plan/TMDL for Acid Rain Lakes in NYS Forest Preserve, DEC/DOW, BWAM, August 2006)

Efforts are underway on a national level to address problems caused by acid rain by reducing pollutant emissions, as required by the Clean Air Act. New York State (and other northeastern states) have taken legal action against USEPA to accelerate implementation of controls. Monitoring of these waters will continue, in order to assess changes in water quality resulting from implementation of the Clean Air Act. However, these changes are expected to occur only slowly over time.

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 Browns Creek (-2), Fish Creek (-6), Panther Creek (-7), Palmer Creek (-9), Mullins Marsh Creek (-14), Wolf Creek (-16) and Bassetts Creek (-23), are Class C,C(T),C(TS). This segment also includes ♥ Mullins Flow (P168).

Gregg Lake, Green, Twin, Loon Hollow Pds (0905-0035) Impaired Seg

Waterbody Location Information

Revised: 09/05/2008

Water Index No: SL-25- 73-26-38-P179 thru P186
Hydro Unit Code: 04150302/030 **Str Class:** C
Waterbody Type: Lake
Waterbody Size: 34.7 Acres
Seg Description: total area of all four lakes

Drain Basin: Saint Lawrence River
Oswegatchie River
Reg/County: 6/Herkimer Co. (22)
Quad Map: OSWEGATCHIE SE (E-20-3)

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

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Precluded	Known

Type of Pollutant(s)

Known: ACID/BASE (PH)
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ATMOSPH. DEPOSITION
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability: ()
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: ext/EPA **Resolution Potential:** n/a
TMDL/303d Status: 2a (Multiple Segment/Categorical Water, Atmosph Dep)

Further Details

Overview

Aquatic life support in this segment is considered to be impaired by low pH, a result of atmospheric deposition (acid rain).

Water Quality Sampling

Historical surveys of some of the ponds in this segment indicate that low pH due to acid deposition is limiting the fishery. Monitoring by ALSC and NYSDEC DOW (1984-86) revealed pH less than 5.0 and no fish in these waters. Aquatic life in these ponds is considered to be impaired. (DEC/DOW, BWAM, 2008)

Water Quality Management/TMDL

In 2006, NYSDEC established and USEPA approved a TMDL to address acid rain impairment to 143 Adirondack lakes that are located in NYS Forest Preserve lands, including the Twin Pond. Recognizing that the available pH data for many of these lakes is 20-30 years old, the TMDL outlines a phased/adaptive management approach, that initially relies heavily on monitoring and assessment to determine current conditions, modeling refinements to estimate future conditions, and the implementation of statewide, regional and national efforts to reduce atmospheric loadings causing the impairment. (Impaired Water Restoration Plan/TMDL for Acid Rain Lakes in NYS Forest Preserve, DEC/DOW, BWAM, August 2006)

Efforts are underway on a national level to address problems caused by acid rain by reducing pollutant emissions, as required by the Clean Air Act. New York State (and other northeastern states) have taken legal action against USEPA to accelerate implementation of controls. Monitoring of these waters will continue, in order to assess changes in water quality resulting from implementation of the Clean Air Act. However, these changes are expected to occur only slowly over time.

Section 303(d) Listing

Green Pond (P184), Kelly Pond (P179), Loon Hollow Pond (P186) and unnamed pond (P180) are included on the NYS 2008 Section 303(d) List of Impaired Waters. Green and Loon Hollow Ponds are included on Part 2a of the List as Atmospheric Deposition (Acid Rain) Waters; Kelly and unnamed pond (P180) are included on the NYS 2008 Section 303(d) List of Impaired Waters in Appendix A as a Smaller Lake Impaired by Acid Rain. Twin Pond (P185) was included on previous Section 303(d) Lists, but was delisted in 2006 due to the completion of an Acid Rain TMDL. (DEC/DOW, BWAM, 2008)

Segment Description

This segment includes the total area of Kelly Pond (P179), Gregg Pond (P181), Green Pond (P184), Twin Pond (P185) and Loon Hollow Pond (P186), as well as smaller unnamed ponds (P180, P182, P183).

Grass Pond, Emerald Lake, Sitz Pond (0905-0008)

Impaired Seg

Waterbody Location Information

Revised: 09/05/2008

Water Index No: SL-25- 73-26-40-P188,P190,P192
Hydro Unit Code: 04150302/030 **Str Class:** C
Waterbody Type: Lake
Waterbody Size: 33.8 Acres
Seg Description: total area of all three lakes

Drain Basin: Saint Lawrence River
Oswegatchie River
Reg/County: 6/Herkimer Co. (22)
Quad Map: OSWEGATCHIE SE (E-20-3)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Precluded	Known

Type of Pollutant(s)

Known: ACID/BASE (PH)
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ATMOSPH. DEPOSITION
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability: ()
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: ext/EPA **Resolution Potential:** n/a
TMDL/303d Status: 4a (TMDL Complete, Being Implemented, Not Listed)

Further Details

Overview

Aquatic life support in this segment is considered to be impaired by low pH, a result of atmospheric deposition (acid rain).

Water Quality Sampling

Historical surveys of these lakes indicate that low pH due to acid deposition is limiting the fishery. Monitoring by NYSDEC DFWMR and DOW (1979, 82, 84) revealed a pH below 5.0 and no presence of fish Emerald Lake or Sitz Pond. Aquatic life in these ponds is considered to be impaired. (DEC/DOW, BWAM, 2008)

Water Quality Management/TMDL

In 2006, NYSDEC established and USEPA approved a TMDL to address acid rain impairment to 143 Adirondack lakes that are located in NYS Forest Preserve lands, including Emerald Lake and Sitz Pond . Recognizing that the available pH data for many of these lakes is 20-30 years old, the TMDL outlines a phased/adaptive management approach, that initially relies heavily on monitoring and assessment to determine current conditions, modeling refinements to estimate future conditions, and the implementation of statewide, regional and national efforts to reduce atmospheric loadings causing the impairment. (Impaired Water Restoration Plan/TMDL for Acid Rain Lakes in NYS Forest Preserve, DEC/DOW, BWAM, August 2006)

Efforts are underway on a national level to address problems caused by acid rain by reducing pollutant emissions, as required by the Clean Air Act. New York State (and other northeastern states) have taken legal action against USEPA to accelerate implementation of controls. Monitoring of these waters will continue, in order to assess changes in water quality resulting from implementation of the Clean Air Act. However, these changes are expected to occur only slowly over time.

Section 303(d) Listing

Emerald Lake and Sitz Pond were included on previous Section 303(d) Lists, but were delisted in 2006 due to the completion of an Acid Rain TMDL. (DEC/DOW, BWAM, 2008)

Segment Description

This segment includes the total area of Grass Pond (P188), Emerald Lake (P190) and Sitz Pond (P192).

Rock Lake (0905-0015)

Impaired Seg

Waterbody Location Information

Revised: 09/05/2008

Water Index No:	SL-25- 73-26-40-P189	Drain Basin:	Saint Lawrence River
Hydro Unit Code:	04150302/030	Str Class:	FP
Waterbody Type:	Lake	Reg/County:	6/Herkimer Co. (22)
Waterbody Size:	55.4 Acres	Quad Map:	OSWEGATCHIE SE (E-20-3)
Seg Description:	entire lake		

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

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Precluded	Known

Type of Pollutant(s)

Known: ACID/BASE (PH)
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ATMOSPH. DEPOSITION
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability:	()	
Verification Status:	(Not Applicable for Selected RESOLVABILITY)	
Lead Agency/Office:	ext/EPA	Resolution Potential: n/a
TMDL/303d Status:	4a (TMDL Complete, Being Implemented, Not Listed)	

Further Details

Overview

Aquatic life support in this segment is considered to be impaired by low pH, a result of atmospheric deposition (acid rain).

Water Quality Sampling

Historical surveys of this lake indicate that low pH due to acid deposition is limiting the fishery. Monitoring by NYSDEC DOW (1984) revealed a pH below 5.0 in Rock Lake. Aquatic life in this lake is considered to be impaired. (DEC/DOW, BWAM, 2008)

Water Quality Management/TMDL

In 2006, NYSDEC established and USEPA approved a TMDL to address acid rain impairment to 143 Adirondack lakes that are located in NYS Forest Preserve lands, including Rock Lake. Recognizing that the available pH data for many of these lakes is 20-30 years old, the TMDL outlines a phased/adaptive management approach, that initially relies heavily on monitoring and assessment to determine current conditions, modeling refinements to estimate future conditions, and the implementation of statewide, regional and national efforts to reduce atmospheric loadings causing the impairment. (Impaired Water Restoration Plan/TMDL for Acid Rain Lakes in NYS Forest Preserve, DEC/DOW, BWAM, August 2006)

Efforts are underway on a national level to address problems caused by acid rain by reducing pollutant emissions, as required by the Clean Air Act. New York State (and other northeastern states) have taken legal action against USEPA to accelerate implementation of controls. Monitoring of these waters will continue, in order to assess changes in water quality resulting from implementation of the Clean Air Act. However, these changes are expected to occur only slowly over time.

Section 303(d) Listing

Rock Lake was included on previous Section 303(d) Lists, but was delisting in 2006 due to the completion of an Acid Rain TMDL. (DEC/DOW, BWAM, 2008)

Sand Lake (0905-0016)

Impaired Seg

Waterbody Location Information

Revised: 09/05/2008

Water Index No:	SL-25- 73-26-40-P191	Drain Basin:	Saint Lawrence River
Hydro Unit Code:	04150302/030	Str Class:	C(T)
Waterbody Type:	Lake	Reg/County:	6/Herkimer Co. (22)
Waterbody Size:	72.7 Acres	Quad Map:	OSWEGATCHIE SE (E-20-3)
Seg Description:	entire lake		

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

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Precluded	Known

Type of Pollutant(s)

Known: ACID/BASE (PH)
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ATMOSPH. DEPOSITION
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability:	()	
Verification Status:	(Not Applicable for Selected RESOLVABILITY)	
Lead Agency/Office:	ext/EPA	Resolution Potential: n/a
TMDL/303d Status:	4a (TMDL Complete, Being Implemented, Not Listed)	

Further Details

Overview

Aquatic life support in this segment is considered to be impaired by low pH, a result of atmospheric deposition (acid rain).

Water Quality Sampling

Historical surveys of this lake indicate that low pH due to acid deposition is limiting the fishery. Monitoring by NYSDEC DFWMR (1979) revealed a pH below 5.0 in Sand Lake. Aquatic life in this lake is considered to be impaired. (DEC/DOW, BWAM, 2008)

Water Quality Management/TMDL

In 2006, NYSDEC established and USEPA approved a TMDL to address acid rain impairment to 143 Adirondack lakes that are located in NYS Forest Preserve lands, including Sand Lake. Recognizing that the available pH data for many of these lakes is 20-30 years old, the TMDL outlines a phased/adaptive management approach, that initially relies heavily on monitoring and assessment to determine current conditions, modeling refinements to estimate future conditions, and the implementation of statewide, regional and national efforts to reduce atmospheric loadings causing the impairment. (Impaired Water Restoration Plan/TMDL for Acid Rain Lakes in NYS Forest Preserve, DEC/DOW, BWAM, August 2006)

Efforts are underway on a national level to address problems caused by acid rain by reducing pollutant emissions, as required by the Clean Air Act. New York State (and other northeastern states) have taken legal action against USEPA to accelerate implementation of controls. Monitoring of these waters will continue, in order to assess changes in water quality resulting from implementation of the Clean Air Act. However, these changes are expected to occur only slowly over time.

Section 303(d) Listing

Sand Lake was included on previous Section 303(d) Lists, but was delisting in 2006 due to the completion of an Acid Rain TMDL. (DEC/DOW, BWAM, 2008)

Muskrat Pond, more (0905-0061)

Impaired Seg

Waterbody Location Information

Revised: 09/05/2008

Water Index No:	SL-25- 73-26-42-2-P195	Drain Basin:	Saint Lawrence River
Hydro Unit Code:	04150302/030	Str Class:	C
Waterbody Type:	Lake	Reg/County:	6/Herkimer Co. (22)
Waterbody Size:	16.3 Acres	Quad Map:	NUMBER FOUR (F-20-0)
Seg Description:	entire lake		

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Precluded	Known

Type of Pollutant(s)

Known: ACID/BASE (PH)
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ATMOSPHERIC DEPOSITION
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability:	()	
Verification Status:	(Not Applicable for Selected RESOLVABILITY)	
Lead Agency/Office:	ext/EPA	Resolution Potential: n/a
TMDL/303d Status:	2a (Multiple Segment/Categorical Water, Atmosph Dep)	

Further Details

Overview

Aquatic life support in Muskrat Pond is known to be impaired by low pH, a result of atmospheric deposition (acid rain).

Water Quality Sampling

Historical surveys of these waters indicate that low pH due to acid deposition is limiting the fishery. Monitoring by ALSC (1984, 85) revealed a pH below 5.0 and no presence of fish in both Muskrat Pond and Unnamed pond (P194). Aquatic life in this segment is considered to be impaired. (DEC/DOW, BWAM, 2008)

Water Quality Management

Efforts are underway on a national level to address problems caused by acid rain by reducing pollutant emissions, as required by the Clean Air Act. New York State (and other northeastern states) have taken legal action against USEPA to accelerate implementation of controls. Monitoring of these waters will continue, in order to assess changes in water quality resulting from implementation of the Clean Air Act. However, these changes are expected to occur only slowly over time.

Section 303(d) Listing

The waters of this segment are included on the NYS 2008 Section 303(d) List of Impaired Waters. Both Muskrat Pond and unnamed pond (P194) are included on Part 2a of the List as Atmospheric Deposition (Acid Rain) Waters. (DEC/DOW, BWAM, 2008)

Segment Description

This segment includes the total are of Muskrat Pond (P195), as well as smaller unnamed ponds (P193, P194).

Bear Pond, Diana Pond (0905-0062)

Impaired Seg

Waterbody Location Information

Revised: 09/05/2008

Water Index No:	SL-25- 73-26-42-P196,P197	Drain Basin:	Saint Lawrence River	
Hydro Unit Code:	04150302/030	Str Class:	C	Oswegatchie River
Waterbody Type:	Lake	Reg/County:	6/Herkimer Co. (22)	
Waterbody Size:	103.6 Acres	Quad Map:	NUMBER FOUR (F-20-0)	
Seg Description:	total area of both lakes			

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Precluded	Known

Type of Pollutant(s)

Known: ACID/BASE (PH)
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ATMOSPHERIC DEPOSITION
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability:	()	
Verification Status:	(Not Applicable for Selected RESOLVABILITY)	
Lead Agency/Office:	ext/EPA	Resolution Potential: n/a
TMDL/303d Status:	2a (Multiple Segment/Categorical Water, Atmosph Dep)	

Further Details

Overview

Aquatic life support in Bear and Diana Ponds is known to be impaired by low pH, a result of atmospheric deposition (acid rain).

Water Quality Sampling

Historical surveys of these waters indicate that low pH due to acid deposition is limiting the fishery. Monitoring by ALSC (1984) revealed a pH below 5.0 and no presence of fish in both Bear Pond and Diana Pond. Aquatic life in this segment is considered to be impaired. (DEC/DOW, BWAM, 2008)

Water Quality Management

Efforts are underway on a national level to address problems caused by acid rain by reducing pollutant emissions, as required by the Clean Air Act. New York State (and other northeastern states) have taken legal action against USEPA to accelerate implementation of controls. Monitoring of these waters will continue, in order to assess changes in water quality resulting from implementation of the Clean Air Act. However, these changes are expected to occur only slowly over time.

Section 303(d) Listing

The waters of this segment are included on the NYS 2008 Section 303(d) List of Impaired Waters. Bear and Diana Ponds

are included on Part 2a of the List as an Atmospheric Deposition (Acid Rain) Water. (DEC/DOW, BWAM, 2008)

Segment Description

This segment includes the total area of both Bear Pond (P196) and Diana Pond (P197).

Lower, Middle, Upper South Ponds (0905-0012)

Impaired Seg

Waterbody Location Information

Revised: 09/05/2008

Water Index No: SL-25- 73-26-43-P198,P199,P200
Hydro Unit Code: 04150302/030 **Str Class:** FP
Waterbody Type: Lake
Waterbody Size: 102.1 Acres
Seg Description: total area of all three lakes

Drain Basin: Saint Lawrence River
Oswegatchie River
Reg/County: 6/Herkimer Co. (22)
Quad Map: NUMBER FOUR (F-20-0)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Precluded	Known

Type of Pollutant(s)

Known: ACID/BASE (PH)
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ATMOSPHERIC DEPOSITION
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability: ()
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: ext/EPA **Resolution Potential:** n/a
TMDL/303d Status: 2a (Multiple Segment/Categorical Water, Atmosph Dep)

Further Details

Overview

Aquatic life support in this segment is considered to be impaired by low pH, a result of atmospheric deposition (acid rain).

Water Quality Sampling

Historical surveys of the ponds in this segment indicate that low pH due to acid deposition is limiting the fishery. Monitoring by NYSDEC DFWMR (1980, 82) and ALSC (1984) revealed pH less than 5.0 and no fish in these waters. Aquatic life in these ponds is considered to be impaired. (DEC/DOW, BWAM, 2008)

Water Quality Management/TMDL

In 2006, NYSDEC established and USEPA approved a TMDL to address acid rain impairment to 143 Adirondack lakes that are located in NYS Forest Preserve lands, including the Lower and Middle South Ponds. Recognizing that the available pH data for many of these lakes is 20-30 years old, the TMDL outlines a phased/adaptive management approach, that initially relies heavily on monitoring and assessment to determine current conditions, modeling refinements to estimate future conditions, and the implementation of statewide, regional and national efforts to reduce atmospheric loadings causing the impairment. (Impaired Water Restoration Plan/TMDL for Acid Rain Lakes in NYS Forest Preserve, DEC/DOW, BWAM, August 2006)

Efforts are underway on a national level to address problems caused by acid rain by reducing pollutant emissions, as required by the Clean Air Act. New York State (and other northeastern states) have taken legal action against USEPA to accelerate implementation of controls. Monitoring of these waters will continue, in order to assess changes in water quality resulting from implementation of the Clean Air Act. However, these changes are expected to occur only slowly over time.

Section 303(d) Listing

Upper South Pond is included on the NYS 2008 Section 303(d) List of Impaired Waters. This pond is included on Part 2a of the List as Atmospheric Deposition (Acid Rain) Waters. Lower and Middle South Ponds were included as separate listings on previous Section 303(d) Lists, but were delisted in 2006 due to the completion of an Acid Rain TMDL. It is expected that the consolidation of all three ponds into a single waterbody segment will result in a Section 303(d) Listing for the this segment in 2010. (DEC/DOW, BWAM, 2008)

Segment Description

This segment includes the total area of Lower, Middle and Upper South Ponds (P198, P199, P200).

Willys (Horseshoe) Lake, more (0905-0026)

Impaired Seg

Waterbody Location Information

Revised: 09/05/2008

Water Index No:	SL-25- 73-26-49-P210	Drain Basin:	Saint Lawrence River
Hydro Unit Code:	04150302/030	Str Class:	FP
Waterbody Type:	Lake	Reg/County:	6/Herkimer Co. (22)
Waterbody Size:	57.4 Acres	Quad Map:	BIG MOOSE (F-21-0)
Seg Description:	entire lake		

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

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Precluded	Known

Type of Pollutant(s)

Known: ACID/BASE (PH)
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ATMOSPHERIC DEPOSITION
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability:	()	
Verification Status:	(Not Applicable for Selected RESOLVABILITY)	
Lead Agency/Office:	ext/EPA	Resolution Potential: n/a
TMDL/303d Status:	4a (TMDL Complete, Being Implemented, Not Listed)	

Further Details

Overview

Aquatic life support in this segment is considered to be impaired by low pH, a result of atmospheric deposition (acid rain).

Water Quality Sampling

Historical surveys of the lakes in this segment indicate that low pH due to acid deposition is limiting the fishery. Monitoring by ALSC (1984) revealed a pH below 5.0 and no presence of fish in these lakes. Aquatic life in these ponds is considered to be impaired. (DEC/DOW, BWAM, 2008)

Water Quality Management/TMDL

In 2006, NYSDEC established and USEPA approved a TMDL to address acid rain impairment to 143 Adirondack lakes that are located in NYS Forest Preserve lands, including Willys Lake and numerous unnamed ponds. Recognizing that the available pH data for many of these lakes is 20-30 years old, the TMDL outlines a phased/adaptive management approach, that initially relies heavily on monitoring and assessment to determine current conditions, modeling refinements to estimate future conditions, and the implementation of statewide, regional and national efforts to reduce atmospheric loadings causing the impairment. (Impaired Water Restoration Plan/TMDL for Acid Rain Lakes in NYS Forest Preserve, DEC/DOW, BWAM, August 2006)

Efforts are underway on a national level to address problems caused by acid rain by reducing pollutant emissions, as required by the Clean Air Act. New York State (and other northeastern states) have taken legal action against USEPA to accelerate implementation of controls. Monitoring of these waters will continue, in order to assess changes in water quality resulting from implementation of the Clean Air Act. However, these changes are expected to occur only slowly over time.

Section 303(d) Listing

Willy Lake and numerous unnamed ponds were included on previous Section 303(d) Lists, but were delisted in 2006 due to the completion of an Acid Rain TMDL. (DEC/DOW, BWAM, 2008)

Segment Description

This segment includes the total area of Willys Lake (P210), as well as smaller unnamed ponds (P201, P202, P203, P204, P205, P206, P207, P208, P209).

Walker Lake, more (0905-0024)

Impaired Seg

Waterbody Location Information

Revised: 09/05/2008

Water Index No:	SL-25- 73-26-P214	Drain Basin:	Saint Lawrence River
Hydro Unit Code:	04150302/030	Str Class:	C(T)
Waterbody Type:	Lake	Reg/County:	6/Herkimer Co. (22)
Waterbody Size:	41.2 Acres	Quad Map:	BIG MOOSE (F-21-0)
Seg Description:	entire lake		

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Precluded	Known

Type of Pollutant(s)

Known: ACID/BASE (PH)
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ATMOSPHERIC DEPOSITION
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability:	()	
Verification Status:	(Not Applicable for Selected RESOLVABILITY)	
Lead Agency/Office:	ext/EPA	Resolution Potential: n/a
TMDL/303d Status:	4a (TMDL Complete, Being Implemented, Not Listed)	

Further Details

Overview

Aquatic life support in this segment is considered to be impaired by low pH, a result of atmospheric deposition (acid rain).

Water Quality Sampling

Historical surveys of the lakes in this segment indicate that low pH due to acid deposition is limiting the fishery. Monitoring by ALSC (1985) and NYSDEC DFWMR (1979) revealed a pH below 5.0 and no presence of fish in these lakes. Aquatic life in these ponds is considered to be impaired. (DEC/DOW, BWAM, 2008)

Water Quality Management/TMDL

In 2006, NYSDEC established and USEPA approved a TMDL to address acid rain impairment to 143 Adirondack lakes that are located in NYS Forest Preserve lands, including Walker Lake and numerous unnamed ponds. Recognizing that the available pH data for many of these lakes is 20-30 years old, the TMDL outlines a phased/adaptive management approach, that initially relies heavily on monitoring and assessment to determine current conditions, modeling refinements to estimate future conditions, and the implementation of statewide, regional and national efforts to reduce atmospheric loadings causing the impairment. (Impaired Water Restoration Plan/TMDL for Acid Rain Lakes in NYS Forest Preserve, DEC/DOW, BWAM, August 2006)

Efforts are underway on a national level to address problems caused by acid rain by reducing pollutant emissions, as required by the Clean Air Act. New York State (and other northeastern states) have taken legal action against USEPA to accelerate implementation of controls. Monitoring of these waters will continue, in order to assess changes in water quality resulting from implementation of the Clean Air Act. However, these changes are expected to occur only slowly over time.

Section 303(d) Listing

Walker Lake and numerous unnamed ponds were included on previous Section 303(d) Lists, but were delisted in 2006 due to the completion of an Acid Rain TMDL. (DEC/DOW, BWAM, 2008)

Segment Description

This segment includes the total area of Walker Lake (P214), as well as smaller unnamed ponds (P211, P212, P213).