



Saint Regis River Watershed (0415030604)

Water Index Number

SL(C)-32 (portion 1)
 SL(C)-32 (portion 2)
 SL(C)-32 (portion 3)
 SL(C)-32 (portion 4)
 SL(C)-32-28
 SL(C)-32-28-P162
 SL(C)-32-40
 SL(C)-32-40- 6-P154
 SL(C)-32-40-20-P164a
 SL(C)-32-40-P165
 SL(C)-32-50a-P168,P170a,P172
 SL(C)-32-51-P173
 SL(C)-32-51-P175
 SL(C)-32 (portion 5)
 SL(C)-32-57-P210,-60-P214

Waterbody

St.Regis River, Lower, and tribs (0902-0093)
 St.Regis River, Lower, and minor tribs (0902-0094)
 St.Regis River, Middle, and minor tribs (0902-0042)
 St.Regis River, Middle, and minor tribs (0902-0095)
 Hopkinton Brook and tribs (0902-0135)
 Slough Pond (0902-0136)
 Lake Ozonia Outlet and tribs (0902-0137)
 Dexter Lake/Ochre Pond (0902-0138)
 East Pond (0902-0139)
 Lake Ozonia (0902-0140)
 Mud Pond, Long Pond, Little Clear Pond (0902-0005)
 Deer Pond (0902-0141)
 Black Pond, more (0902-0142)
 St.Regis River, Upper, and minor tribs (0902-0096)
 Lower Goose Pond, Wackers Pond (0902-0151)

Category

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

Water Index Number

SL(C)-32-61-P217,-67-P221
SL(C)-32-69
SL(C)-32-69-P225,P227
SL(C)-32-76-P230,78-P233
SL(C)-32-81-P238,P244,P245
SL(C)-32-87-P253,P254
SL(C)-32-88-P256,P257
SL(C)-32-P257a
SL(C)-32-P257a- 3-P262
SL(C)-32-P257a- 5-P264,P265
SL(C)-32-P257a..P266 thru P273

Waterbody

[Duck Pond, Benz Pond \(0902-0021\)](#)
Quebec Creek and tribs (0902-0152)
Madawaska Pond, Quebec Pond, more (0902-0153)
Mud Pond, Black Pond (0902-0154)
[Follensby Jr Pond, Toad Pond, Slush Pond \(0902-0008\)](#)
[Spectacle Ponds \(0902-0155\)](#)
Black Pond, Long Pond, more (0902-0156)
[Lower Saint Regis Lake \(0902-0157\)](#)
Barnum Pond (0902-0158)
[Spitfire Lake, Upper Saint Regis Lake \(0902-0159\)](#)
[Rolley, Little Long, Bear, Bickford Pds \(0902-0007\)](#)

Category

Impaired Seg
UnAssessed
UnAssessed
UnAssessed
Threatened
NoKnownImpct
UnAssessed
MinorImpacts
UnAssessed
NoKnownImpct
Impaired Seg

St.Regis River, Lower, and tribs (0902-0093)

MinorImpacts

Waterbody Location Information

Revised: 06/30/2009

Water Index No: SL(C)-32 (portion 1) **Drain Basin:** Saint Lawrence River
Hydro Unit Code: 04150306/050 **Str Class:** C Saint Regis River
Waterbody Type: River **Reg/County:** 5/Franklin Co. (17)
Waterbody Size: 58.4 Miles **Quad Map:** HOGANSBURG (B-22-1)
Seg Description: stream and tribs, from border to above Hogsburg

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Fish Consumption	Stressed	Known
Recreation	Stressed	Suspected

Type of Pollutant(s)

Known: PRIORITY ORGANICS (PCBs, dioxin), PESTICIDES (mirex)
Suspected: Pathogens
Possible: - - -

Source(s) of Pollutant(s)

Known: TOX/CONTAM. SEDIMENT
Suspected: Agriculture, Landfill/Land Disp.
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 2 (Problem Verified, Cause Unknown)
Lead Agency/Office: DEC/DOW
TMDL/303d Status: n/a

Resolution Potential: Medium

Further Details

Overview

Recreational uses in this portion of the Saint Regis River are thought to experience impacts due to elevated pathogens. Limited sampling conducted by the Saint Regis Mohawk Tribe found elevated levels of E.coli in some samples. Specific sources have not been identified, but impacts from agricultural activities are a concern. The lower portion of the river also falls within the Saint Lawrence/Massena Great Lakes Area of Concern and experiences impacts from associated past legacy discharges and waste disposal. These impacts include fish consumption restrictions, a result of a health advisory for the Saint Lawrence River that extends to tribs up to the first impassable barrier.

Saint Regis Mohawk Tribe

The lower few miles of this reach lie within the boundary of the Saint Regis Mohawk Tribe. SRMT is a federally recognized tribe with Treatment-as-State (TAS) status under the Clean Water Act. The Tribe's Environmental Division includes a Water Resource Program (WRP) that is charged with the protection, preservation and enhancement of water resources for future enjoyment and use by tribal members. In 2007 USEPA approved the Tribe's water quality standards and the Tribe has the sovereign responsibility to make water quality determinations under Section 401 of the Clean Water Act. Primary funding for WRP comes from the Clean Water Act sections 104, 106 and 319. Other projects are funded by competitive grants. Sampling conducted by the SRMT in 2008 found occasional elevated levels of E.coli in the river. The origin of these indicator

bacteria was not identified, but upstream agricultural operations which allow cattle unrestricted access to the river were noted as a concern. Additional monitoring to determine the frequency and magnitude of the occurrence of elevated results is recommended. (SRMT, Environmental Division/WRP, June 2009)

Saint Lawrence/Massena Remedial Action Plan

The St. Lawrence River at Massena Remedial Action Plan (RAP) Area of Concern (AoC) begins above the power dam facilities and seaway locks at the Massena Village drinking water intake and follows the river downstream for about fifteen miles to the international border. For New York State, the AoC includes portions of the Grass, Raquette and St. Regis Rivers. There are three governmental agency groupings that share jurisdictional responsibilities for the AoC. These are the United States, Canada, and the St. Regis Mohawk Tribe at Akwesasne.

Pollution from past local area industrial production and waste disposal practices created contaminated sediments and hazardous waste sites that to a large degree are being or have been remediated. The sources and causes include PCBs, mercury, DDE, Mirex, nutrients, metals and physical disturbance. Large area remedial projects at Alcoa and General Motors sites have contributed significantly to the restoration and protection of beneficial uses in the AoC. After the Grass River and limited land-based remedial measures are completed, a reassessment of the status of the beneficial use indicators is to be conducted. When including the installation of water and air pollution discharge equipment, the total costs of the Massena area cleanup will likely exceed one billion dollars.

Fish Consumption

Fish consumption advisories for the Saint Lawrence River (and all tribs to the first barrier) also apply to this tributary waters. A NYSDOH health advisory recommends eating no American eel, channel catfish, carp, larger lake trout (over 25 inches) or larger brown trout (over 20 inches). The advisory also recommends that consumption of chinook salmon, white perch, white sucker, rainbow trout, smaller lake and brown trout, and coho salmon (over 25") be limited to no more than one meal per month. The fish consumption advisories, which apply to the entire length of the St. Lawrence (including tribs up to the first impassible barrier) are a result of PCB, mirex and dioxin contamination. An additional advisory prohibits consumption of any fish species from the bay at the St. Lawrence-Franklin County line due to PCB contamination. Advisories for the Saint Lawrence River were first issued prior to 1998-99. (2008-09 NYSDOH Health Advisories and DEC/DFWMR, Habitat, December 2008)

Segment Description

This segment includes the portion of the stream and all tribs from the Canadian border to the St. Lawrence-Franklin County line to/including unnamed trib (-4) below Hogansburg. The waters of this portion of the stream are designated Class C by NYS, but the reach is considered Class B, suitable for primary contact recreation, by the Saint Regis Mohawk Tribe. Tribs to this reach/segment are also Class C. Other portions of St. Regis River are listed separately. This reach lies within the jurisdiction of the Saint Regis Mohawk Tribe.

St.Regis River, Lower, and minor tribs (0902-0094)

NoKnownImpct

Waterbody Location Information

Revised: 02/13/2009

Water Index No: SL(C)-32 (portion 2) **Drain Basin:** Saint Lawrence River
Hydro Unit Code: 04150306/050 **Str Class:** B Saint Regis River
Waterbody Type: River **Reg/County:** 6/St.Lawrence Co. (45)
Waterbody Size: 105.9 Miles **Quad Map:** HOGANSBURG (B-22-1)
Seg Description: stream and select tribs, abv Hogansburg to Winthrop

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

Water Quality Sampling

NYSDEC Rotating Intensive Basin Studies (RIBS) Intensive Network monitoring of the Saint Regis River in Helena, Saint Lawrence County, (at Route 37C) was conducted in 2005. 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. Species diversity was very high and the fauna was balanced. Water column sampling revealed lead to be a parameter of concern. Sediment screening for acute toxicity indicated moderate toxicity could be present, but sediments were not found to contain any contaminants at levels of concern and, 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 PAHs, PCBs, and organochlorine pesticides show the PAH, pyrene, to be present in concentrations above the established guidance value. 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, BWAM/RIBS, December 2008).

A biological (macroinvertebrate) assessment of the St. Regis River just above this reach at Fort Jackson (at County Route 49)

was also conducted in 2004 during the RIBS Biological Screening effort in the basin. Sampling results indicated non-impacted water quality conditions. The site was host to a diversity of macroinvertebrate fauna. The nutrient biotic index suggested oligotrophic conditions. Impact source determination identified the community as natural. Though this sampling point is just above the described segment, it is considered representative of water quality in the lower reach. (DEC/DOW, BWAM/SBU, November 2008)

Segment Description

This segment includes the portion of the stream and selected/smaller tribs from the St. Lawrence-Franklin County line above unnamed trib (-4) near Hogansburg to the West Branch Saint Regis River in Winthrop. The waters of this portion of the stream are Class B. Tribs to this reach/segment, including Bell Brook (-17), are Class C. Deer River (-6), West Branch St. Regis River (-20) and other portions of St. Regis River are listed separately.

St.Regis River, Middle, and minor tribs (0902-0042)

NoKnownImpct

Waterbody Location Information

Revised: 12/12/2008

Water Index No: SL(C)-32 (portion 3) **Drain Basin:** Saint Lawrence River
Hydro Unit Code: 04150306/050 **Str Class:** B/C(T) Saint Regis River
Waterbody Type: River **Reg/County:** 6/St.Lawrence Co. (45)
Waterbody Size: 18.7 Miles **Quad Map:** NICHOLVILLE (C-22-1)
Seg Description: stream and select tribs, Winthrop to St.Regis Falls

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 the St. Regis River at Fort Jackson (at County Route 49) was conducted in 2004 during the RIBS Biological Screening effort in the basin. Sampling results indicated non-impacted water quality conditions. The site was host to a diversity of macroinvertebrate fauna. The nutrient biotic index suggested oligotrophic conditions. Impact source determination identified the community as natural. (DEC/DOW, BWAM/SBU, November 2008)

A biological (macroinvertebrate) assessment of Big Hollow Brook at Fort Jackson (at Converse Street) was also conducted in 2004 during the RIBS Biological Screening effort in the basin. Sampling results indicated slightly impacted water quality conditions. The nutrient biotic index indicated mesotrophic conditions. Impact source determination suggested a natural community. (DEC/DOW, BWAM/SBU, November 2008)

Previous Assessment

Previously agricultural activities and farming practices in the area and resulting impacts on water quality in Big Hollow Brook were noted in citizen complaints. However DEC investigations have not been able to verify the problems. Local DOH monitoring has documented elevated coliform levels in the stream. However, impairment of bathing/swimming use is not listed due to the Class C(T) stream classification. (DEC/DOW, Region 6, February 1999)

Segment Description

This segment includes the portion of the stream and selected/smaller tribs from the West Branch Saint Regis River (in Winthrop) to the dam at St. Regis Falls. The waters of this portion of the stream are Class B from Winthrop to the Stockholm-Hopkinton Town line below Fort Jackson, and Class C(T) for the remainder of the reach. Tribs to this reach/segment, including Beechertown Creek (-22), Big Hollow Brook (-27), Miller Brook (-34), Benham Brook (-36) and Wood Brook (-41), are Class C,C(T),C(TS). West Branch Saint Regis River (-20), Hopkinton Brook (-28), Lake Ozonia Outlet (-40) and other portions of St. Regis River are listed separately.

Hopkinton Brook and tribs (0902-0135)

NoKnownImpct

Waterbody Location Information

Revised: 12/12/2008

Water Index No:	SL(C)-32-28	Drain Basin:	Saint Lawrence River
Hydro Unit Code:	04150306/050	Str Class:	C(T)
Waterbody Type:	River	Reg/County:	6/St.Lawrence Co. (45)
Waterbody Size:	52.9 Miles	Quad Map:	NICHOLVILLE (C-22-1)
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 Hopkinton Brook at Fort Jackson (at County Route 49) was conducted in 2004 during the RIBS Biological Screening effort in the basin. Sampling results indicated slightly impacted water quality conditions. The nutrient biotic index suggested oligotrophic conditions for phosphorus and mesotrophic conditions for nitrate. Impact source determination identified the site as affected by non-point source nutrient enrichment. In spite of these impacts aquatic life is considered to be fully supported. (DEC/DOW, BWAM/SBU, November 2008)

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 Cold Hill Brook (-2), Sucker Brook (-3) and Lyde Brook (-4), are also Class C,C(T).

Lake Ozonia Outlet and tribs (0902-0137)

NoKnownImpct

Waterbody Location Information

Revised: 01/15/2009

Water Index No:	SL(C)-32-40	Drain Basin:	Saint Lawrence River
Hydro Unit Code:	04150306/050	Str Class:	C(T)
Waterbody Type:	River	Reg/County:	6/St.Lawrence Co. (45)
Waterbody Size:	54.8 Miles	Quad Map:	ST. REGIS FALLS (C-22-2)
Seg Description:	entire stream and tribs		

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
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 Lake Ozonia Outlet, at Nicholville (at CR 458) was conducted in 2004 during the RIBS Biological Screening effort in the basin. The sample was collected, retained, subsampled and sorted to major groups of organisms but detailed identification was not performed. The sample was field assessed as meeting screening criteria and water quality was evaluated to be very good. The sorted sample was dominated by caddisflies and midges. (DEC/DOW, BWAM/SBU, December 2008)

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 Dexter Lake Outlet (6), are Class C,C(T) and D.

Dexter Lake/Ochre Pond (0902-0138)

NoKnownImpct

Waterbody Location Information

Revised: 01/23/2009

Water Index No:	SL(C)-32-40- 6-P154	Drain Basin:	Saint Lawrence River
Hydro Unit Code:	04150306/050	Str Class:	C
Waterbody Type:	Lake	Reg/County:	5/Franklin Co. (17)
Waterbody Size:	127.2 Acres	Quad Map:	ST. REGIS MTN. (D-23-A)
Seg Description:	entire lake		

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

Water Quality Sampling

Monitoring of Dexter Lake/Ochre Pond was included in the Adirondack Lake Survey Corporation (ALSC) lake monitoring and assessment effort conducted in the mid-1980s (1984-86). Generally these were one-time samples analyzed for variety of parameters, including total phosphorus, pH and water color. These data revealed no indication of impacts to aquatic life support or recreational at the time. Because the data is limited to single samples and collected more than 20 years ago, this assessment is considered to be evaluated, rather than monitored. (DEC, DOW, BWAM/WQAS, January 2009 and ALSC, 1984-86)

Lake Ozonia (0902-0140)

NoKnownImpct

Waterbody Location Information

Revised: 01/23/2009

Water Index No:	SL(C)-32-40-P165	Drain Basin:	Saint Lawrence River
Hydro Unit Code:	04150306/050	Str Class:	B
Waterbody Type:	Lake		Saint Regis River
Waterbody Size:	394.6 Acres	Reg/County:	6/St.Lawrence Co. (45)
Seg Description:	entire lake	Quad Map:	MOUNT MATUMBLA (D-22-3)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
NO USE IMPAIRMNT		

Type of Pollutant(s)

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

Source(s) of Pollutant(s)

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

Resolution/Management Information

Issue Resolvability:	8 (No Known Use Impairment)	
Verification Status:	(Not Applicable for Selected RESOLVABILITY)	
Lead Agency/Office:	n/a	Resolution Potential: n/a
TMDL/303d Status:	n/a	

Further Details

Water Quality Sampling

Monitoring of Lake Ozonia was included in the Adirondack Lake Survey Corporation (ALSC) lake monitoring and assessment effort conducted in the mid-1980s (1984-86). Generally these were one-time samples analyzed for variety of parameters, including total phosphorus, pH and water color. These data revealed no indication of impacts to aquatic life support or recreational at the time. Because the data is limited to single samples and collected more than 20 years ago, this assessment is considered to be evaluated, rather than monitored. (DEC, DOW, BWAM/WQAS, January 2009 and ALSC, 1984-86)

Mud Pond, Long Pond, Little Clear Pond (0902-0005)

Impaired Seg

Waterbody Location Information

Revised: 09/05/2008

Water Index No: SL(C)-32-50a-P168,P170a,P172
Hydro Unit Code: 04150306/050 **Str Class:** N
Waterbody Type: Lake
Waterbody Size: 14.3 Acres
Seg Description: total area of all three lakes

Drain Basin: Saint Lawrence River
Saint Regis River
Reg/County: 5/Franklin Co. (17)
Quad Map: ST. REGIS FALLS (C-22-2)

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 Long and Grass 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 NYSDEC DFWMR (1980) revealed a pH <5.0. Aquatic life in this segment 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 Long and Grass 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

Long and Grass Ponds were included on previous Section 303(d) Lists, but were delisting in 2006 due to the completion of an Acid Rain TMDL. Unnamed pond (P170) is included on the NYS 2008 Section 303(d) List of Impaired Waters in Appendix A as a Smaller Lake Impaired by Acid Rain. (DEC/DOW, BWAM, 2008)

Segment Description

This segment includes the total area of Mud Pond (P168), Long Pond (P170a), and Little Clear Pond (P172), as well as the smaller unnamed pond (P170) and Grass Pond (P171).

Deer Pond (0902-0141)

NoKnownImpct

Waterbody Location Information

Revised: 01/23/2009

Water Index No:	SL(C)-32-51-P173	Drain Basin:	Saint Lawrence River
Hydro Unit Code:	04150306/050	Str Class:	C
Waterbody Type:	Lake		Saint Regis River
Waterbody Size:	5.8 Acres	Reg/County:	5/Franklin Co. (17)
Seg Description:	entire lake	Quad Map:	SANTA CLARA (C-23-1)

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

Monitoring of Deer Pond was included in the Adirondack Lake Survey Corporation (ALSC) lake monitoring and assessment effort conducted in the mid-1980s (1984-86). Generally these were one-time samples analyzed for variety of parameters, including total phosphorus, pH and water color. These data revealed no indication of impacts to aquatic life support or recreational at the time. Because the data is limited to single samples and collected more than 20 years ago, this assessment is considered to be evaluated, rather than monitored. (DEC, DOW, BWAM/WQAS, January 2009 and ALSC, 1984-86)

Lower Goose Pond, Wackers Pond (0902-0151)

NoKnownImpct

Waterbody Location Information

Revised: 01/23/2009

Water Index No: SL(C)-32-57-P210,-60-P214
Hydro Unit Code: 04150306/010 **Str Class:** C
Waterbody Type: Lake
Waterbody Size: 1.5 Acres
Seg Description: total area of both lakes

Drain Basin: Saint Lawrence River
Saint Regis River
Reg/County: 5/Franklin Co. (17)
Quad Map: MENO (C-23-4)

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

Water Quality Sampling

Monitoring of Wackers Pond was included in the Adirondack Lake Survey Corporation (ALSC) lake monitoring and assessment effort conducted in the mid-1980s (1984-86). Generally these were one-time samples analyzed for variety of parameters, including total phosphorus, pH and water color. These data revealed no indication of impacts to aquatic life support or recreational at the time. Because the data is limited to single samples and collected more than 20 years ago, this assessment is considered to be evaluated, rather than monitored. (DEC, DOW, BWAM/WQAS, January 2009 and ALSC, 1984-86)

Duck Pond, Benz Pond (0902-0021)

Impaired Seg

Waterbody Location Information

Revised: 09/05/2008

Water Index No: SL(C)-32-61-P217,-67-P221
Hydro Unit Code: 04150306/010 **Str Class:** C
Waterbody Type: Lake
Waterbody Size: 13.8 Acres
Seg Description: total area of both lakes

Drain Basin: Saint Lawrence River
Saint Regis River
Reg/County: 5/Franklin Co. (17)
Quad Map: MENO (C-23-4)

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
TMDL/303d Status: 2a (Multiple Segment/Categorical Water, Atmosphere Dep)

Resolution Potential: n/a

Further Details

Overview

Aquatic life support in Benz 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 (1986) revealed a pH <5.0 and no fish in the lake. 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. Benz Pond is 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 Duck Pond (P117) and Benz Pond (P221).

Follensby Jr Pond, Toad Pond, Slush Pond (0902-0008)

Threatened

Waterbody Location Information

Revised: 09/05/2008

Water Index No:	SL(C)-32-81-P238,P244,P245	Drain Basin:	Saint Lawrence River
Hydro Unit Code:	04150306/010	Str Class:	C/N
Waterbody Type:	Lake	Reg/County:	5/Franklin Co. (17)
Waterbody Size:	222.6 Acres	Quad Map:	ST. REGIS MTN. (D-23-A)
Seg Description:	total area of all three lakes		

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: ATMOSPHERIC DEPOSITION
Possible: ---

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: DEC/BWAM
TMDL/303d Status: n/a

Resolution Potential: Medium

Further Details

Overview

Aquatic life support in Toad Pond is considered to be impaired by low pH, a result of atmospheric deposition (acid rain). However available data indicating such impacts is more than 20 years old and limited to one of the smaller ponds within this segment. Until data on the larger waterbody is available, this segment will be considered to be Threatened.

Water Quality Sampling

Historical surveys of Toad Pond indicate that low pH due to acid deposition is limiting the fishery. Monitoring by ALSC (1984) revealed a pH <5.0 and no fish in the lake. Aquatic life in this pond 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 Toad Pond (P244). 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

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

Segment Description

This segment includes Follensby Jr Pond (P238), Toad Pond (P244) and Slush Pond (P245), as well as smaller unnamed ponds (P241, P243).

Spectacle Ponds (0902-0155)

NoKnownImpct

Waterbody Location Information

Revised: 01/23/2009

Water Index No:	SL(C)-32-87-P253,P254	Drain Basin:	Saint Lawrence River
Hydro Unit Code:	04150306/010	Str Class:	C
Waterbody Type:	Lake	Reg/County:	5/Franklin Co. (17)
Waterbody Size:	84.3 Acres	Quad Map:	ST. REGIS MTN. (D-23-A)
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
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

Monitoring of Spectacle Ponds was included in the Adirondack Lake Survey Corporation (ALSC) lake monitoring and assessment effort conducted in the mid-1980s (1984-86). Generally these were one-time samples analyzed for variety of parameters, including total phosphorus, pH and water color. These data revealed no indication of impacts to aquatic life support or recreational at the time. Because the data is limited to single samples and collected more than 20 years ago, this assessment is considered to be evaluated, rather than monitored. (DEC, DOW, BWAM/WQAS, January 2009 and ALSC, 1984-86)

Lower Saint Regis Lake (0902-0157)

Threatened

Waterbody Location Information

Revised: 05/18/2016

Water Index No: SL(C)-32-P257a
Hydro Unit Code: Saint Regis River (0415030604)
Water Type/Size: Lake/Reservoir 454.7 Acres
Description: entire lake

Water Class: B
Drainage Basin: Saint Lawrence River
Reg/County: 5/Franklin (17)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	Stressed	Threatened
Recreation	Stressed	Threatened
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
Conditions Evaluated		
Habitat/Hydrology	Unknown	
Aesthetics	Unknown	

Type of Pollutant(s)

Known: - - -
Suspected: ALGAL/PLANT GROWTH, Nutrients (phosphorus)
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: OTHER SOURCE (internal load)
Unconfirmed: - - -

Management Information

Management Status: Funding for Strategy Implementation Needed
Lead Agency/Office: ext/WQCC
IR/305(b) Code: Water Attaining Some Standards (IR Category 2)

Further Details

Overview

Lower Saint Regis Lake is assessed as threatened due to public bathing and other recreational uses that are thought to be threatened by algal growth. Although uses are currently fully supported, somewhat elevated levels of phosphorus s) raise concerns and condition should continue to be monitored. Trophic indicators (chlorophyll, phosphorus) are generally indicative of a less productive lake, but phosphorus levels are high in this lake that in surrounding lakes.

Use Assessment

Lower Saint Regis Lake is a Class B waterbody, suitable for public bathing, general recreation use and support of aquatic life, but not as a water supply.

Recreation use and public bathing are considered to be fully supported but threatened due to somewhat elevated levels of phosphorus and concerns regarding algal growth. Currently trophic indicators (chlorophyll, phosphorus) suggest low productivity and good water quality. (DEC/DOW, BWAM/LMAS, May 2016)

Water Quality Information

Lower Saint Regis Lake has most recently been sampled as part of the Adirondack Lake Assessment Program.

Sampling of the lake has been conducted by ALAP since 2002. The 2014 ALAP report on these lakes indicate that the lakes are best characterized as mesotrophic, or moderately unproductive. Chlorophyll/algal levels are typically well below criteria corresponding to impaired/impacted recreational uses, while phosphorus concentrations are somewhat elevated. Lake clarity measurements indicate water transparency is somewhat reduced, but this is not uncommon for lakes that are phosphorus limited and have a high amount of dissolved organic material in the water. Readings of pH typically fall at the lower end of the range established in state water quality standards for protection of aquatic life. (ALAP, 2014)

The ALAP results are consistent with NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) sampling of the lakes. Lower Saint Regis Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) in 2000 and 2001. 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 somewhat unfavorable. The recreational suitability of the lake is described most frequently as "slightly" or "substantially" impacted. The lake itself is most often described as "having a definite algal greenness." This assessment is less favorable than expected given the measured water quality characteristics. Assessments have noted that aquatic plants are not visible from the lake surface. Aquatic plant surveys have not been conducted on the lake. (DEC/DOW, BWAM/CSLAP, October 2002)

Source Assessment

Specific sources of phosphorus include internal lake recycling and lake inflow. Residential onsite septic system input is thought to be negligible. (Saint Regis Property Owners Association, August 2015).

Management Actions

The Saint Region Property Owners Association prepared a Lake Management Plan for the lake. The focus of the plan is on identifying and reducing sources of nutrient loading in order to control algal growth in the lake. (Saint Regis Property Owners Association, August 2015).

Section 303(d) Listing

Lower Saint Regis Lake is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There appear to be no impairments that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the total area of the entire lake.

Spitfire Lake, Upper Saint Regis Lake (0902-0159)

Threatened

Waterbody Location Information

Revised: 05/24/2016

Water Index No: SL(C)-32-P257a- 5-P264,P265
Hydro Unit Code: Saint Regis River (0415030604)
Water Type/Size: Lake/Reservoir 978.2 Acres
Description: total area of both lakes

Water Class: AA
Drainage Basin: Saint Lawrence River
Reg/County: 5/Franklin (17)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Pollutants/Sources)

Uses Evaluated	Severity	Confidence
Water Supply	Unassessed	-
Public Bathing	Threatened	Suspected
Recreation	Threatened	Suspected
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-

Conditions Evaluated

Habitat/Hydrology	Unassessed
Aesthetics	Unassessed

Type of Pollutant(s)

Known:	- - -
Suspected:	HARMFUL ALGAL BLOOMS, Nutrients (phosphorus)
Unconfirmed:	- - -

Source(s) of Pollutant(s)

Known:	- - -
Suspected:	UNKNOWN SOURCE, Other Source (internal load), Onsite/Septic Systems
Unconfirmed:	- - -

Management Information

Management Status: Funding for Strategy Implementation Needed
Lead Agency/Office: ext/WQCC
IR/305(b) Code: Water Attaining Some Standards (IR Category 2)

Further Details

Overview

This lake waterbody is assessed as threatened due to public bathing and other recreational uses that are thought to be threatened by harmful algal blooms. To date the blooms have been limited in scope and duration. The cause of the blooms is unknown since phosphorus and other trophic indicators indicate good water quality. Although uses are currently fully supported, somewhat elevated levels of this/these pollutant(s) raise concerns and condition should continue to be monitored.

Use Assessment

Spitfire Lake, Upper Saint Regis Lake is a Class AA waterbody, suitable for public bathing, general recreation use and support of aquatic life, but not as a water supply.

Recreation use and public bathing are considered to be fully supported but threatened due to recent occurrences of harmful algal blooms in the lake. The blooms have been generally limited in scope and duration, and other trophic indicators (chlorophyll, phosphorus) suggest low productivity and good water quality. (DEC/DOW, BWAM/LMAS, May 2016)

Water Quality Information

Spitfire Lake and Upper Saint Regis Lake have most recently been sampled as part of the Adirondack Lake Assessment Program. Sampling of both lakes has been conducted by ALAP since 2002. The 2014 ALAP report on these lakes indicate that the lakes are best characterized as mesotrophic, or moderately unproductive. Chlorophyll/algal levels are typically well below criteria corresponding to impaired/impacted recreational uses, while phosphorus concentrations are also typically low. Lake clarity measurements indicate water transparency consistently exceed the recommended minimum criteria for swimming beaches. Readings of pH typically fall at the lower end of the range established in state water quality standards for protection of aquatic life. (ALAP, 2014)

The ALAP results are consistent with NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) sampling of the lakes. CSLAP sampling of Spitfire Lake began in 1996 and continued through 2002. Sampling of Upper Saint Regis Lake began in 1997 and continued through 2001. Public perception of the lakes and their uses – also evaluated as part of the CSLAP program – indicated recreational suitability of the lakes to be very favorable since the lakes were first evaluated and continuing through the 2001, 2002 assessments. The recreational suitability of the lake has been described most frequently as "excellent." The lakes were most often described as "not quite crystal clear," an assessment that is consistent measured water quality characteristics. Assessments have noted that aquatic plants rarely grows to the lake surface. Aquatic plants are assumed to be dominated by native species, although plant surveys have not been conducted on the lake. (DEC/DOW, BWAM/CSLAP, August 2003)

Monitoring of Spitfire Lake was included in the Adirondack Lake Survey Corporation (ALSC) lake monitoring and assessment effort conducted in the mid-1980s (1984-86). Generally these were one-time samples analyzed for variety of parameters, including total phosphorus, pH and water color. These data revealed no indication of impacts to aquatic life support or recreational at the time. (DEC, DOW, BWAM/WQAS, January 2009 and ALSC, 1984-86)

Source Assessment

Pollutant levels are low in the lake, and there are no significant sources of note. Specific sources of phosphorus include internal lake recycling and lake inflow. Residential onsite septic system input has also been raised as a concern. (Saint Regis Property Owners Association, August 2015).

Management Actions

The Saint Region Property Owners Association prepared a Lake Management Plan for these lakes. The focus of the plan is on identifying and reducing sources of nutrient loading in order to control algal growth in the lake. (Saint Regis Property Owners Association, August 2015).

Section 303(d) Listing

The Spitfire, Lower Saint Regis Lakes segment is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There appear to be no impairments that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the total are of Spitfire Lake (P264) and Upper Saint Regis Lake (P265), as well as the smaller unnamed pond (P274).

Rolley, Little Long, Bear, Bickford Pds (0902-0007)

Impaired Seg

Waterbody Location Information

Revised: 09/05/2008

Water Index No: SL(C)-32-P257a..P266 thru P273 **Drain Basin:** Saint Lawrence River
Hydro Unit Code: 04150306/010 **Str Class:** C(T)/N Saint Regis River
Waterbody Type: Lake **Reg/County:** 5/Franklin Co. (17)
Waterbody Size: 72.6 Acres **Quad Map:** ST. REGIS MTN. (D-23-A)
Seg Description: total area of all four 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: 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

Further Details

Overview

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

Water Quality Sampling

Historical surveys of Bear Pond indicate that low pH due to acid deposition is limiting the fishery. Monitoring by NYSDEC DFWMR (1980) revealed a pH <5.0. ALSC monitoring (1986) in Mikes Pond also found pH < 5.0 and no presence of fish. Aquatic life in both lakes 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 Bear 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

Mikes Pond is included on the NYS 2008 Section 303(d) List of Impaired Waters in Appendix A as a Smaller Lake Impaired by Acid Rain. Bear Pond 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)

Segment Description

This segment also includes Rolley Pond (P266), Little Long Pond (P267a), Bickford Ponds (P268, P269, P273) and Bear Pond (P271), as well as smaller Mikes Pond (P268a) and unnamed pond (P270).