



North Branch - Saranac River (0415040603)

C-15-22	North Branch Saranac, Lower, minor tribs(1003-0038)	NoKnownImpct
C-15-22	North Branch Saranac, Upper, and tribs (1003-0041)	UnAssessed
C-15-22- 2-P42	Mud Pond (1003-0115)	NoKnownImpct
C-15-22- 3	Cold Brook and tribs (1003-0056)	UnAssessed
C-15-22-24-P48	Loon Lake (1003-0060)	Need Verific
C-15-22..P52	Mud Lake (1003-0061)	NoKnownImpct
C-15-22..P55	Lake Kushaqua (1003-0062)	NoKnownImpct
C-15-22..P57, P58	Mountain Lake, Little Hope Lake (1003-0064)	UnAssessed
C-15-22..P61	Buck Pond (1003-0063)	NoKnownImpct
C-15-22..P64	Oregon Pond (1003-0120)	UnAssessed
C-15-22..P65, P66, P70	RainbowLake and Inlet, Clear Pond (1003-0065)	UnAssessed
C-4	Little Chazy River, Lower, and tribs (1002-0003)	MinorImpacts
C-4	Little Chazy River, Upper, and tribs (1002-0008)	NoKnownImpct
C-4- 4-P22	Lake Alice (1002-0022)	UnAssessed
C-5 thru 13	Riley Brook and tribs (1001-0018)	UnAssessed
C-14	Dead Creek and minor tribs (1001-0019)	UnAssessed

North Branch Saranac, Lower, minor tribs (1003-0038) NoKnownImpct

Waterbody Location Information

Revised: 04/21/2009

Water Index No: C- 15-22
Hydro Unit Code: 02010006/020 **Str Class:** C(T)
Waterbody Type: River (Med. Flow) **Reg/County:** 5/Franklin Co. (17)
Waterbody Size: 61.1 Miles **Quad Map:** ALDER BROOK (C-25-4) ...
Seg Description: stream and selected tribs from mouth to Mud Lake

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Habitat/Hydrology	Threatened	Possible

Type of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: SILT/SEDIMENT

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: STREAMBANK EROSION

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 North Branch Saranac River in Clayburg (off Amell Road) was conducted as part of the RIBS biological screening effort in 2003. Sampling results indicated non-impacted conditions. The sample was dominated by clean-water species and was most similar to a natural community with minimal human impacts. Some additional species, including sensitive non-native species, and additional biomass may be present; the sample revealed no, or only incidental, anomalies. Aquatic life community is fully supported. Biological (macroinvertebrate) sampling of the North Branch in Riverview in 1998 also indicated non-impacted water quality. The sample passed the field screening criteria, and was not retained. This site was previously assessed as non-impacted in 1993 with a highly diverse community of intolerant macroinvertebrates. (DEC/DOW, BWAM/SBU, January 2009)

A biological assessment of Alder Brook, a trib to the North Branch, in Two Brooks (at Route 3) was also conducted as part of the RIBS biological screening effort in 2003. Sampling results indicated non-impacted conditions. The sample was dominated by clean-water species and was most similar to a natural community with minimal human impacts. Some additional species, including sensitive non-native species, and additional biomass may be present; the sample revealed no, or only incidental, anomalies. Aquatic life community is fully supported. (DEC/DOW, BWAM/SBU, January 2009)

Habitat Assessment:

Fishery habitat in this reach may experience some impact due to sand and sediment deposition from streambank erosion.

Roadway runoff may also be a contributing source. High gradient streams erode streambanks and wash sand and silt into and along streams. The sand and sediment fills in gravel spawning beds, decreasing salmonid spawning success, limiting macroinvertebrate production and increasing winter mortality of fish and invertebrates due to loss of escape cover from the effects of anchor ice. Impacts on natural reproduction of trout and other cold water species have been documented in other reaches in the basin. No such impacts have been documented in this reach, but these impacts are considered a possible threat to fishery habitat. (DEC/DFWMR, Region 5, June 2009)

Segment Description

This segment includes the portion of the stream and selected/smaller tribs from the mouth to Lake Kushaqua. The waters of this portion of the stream are Class C(T). Tribs to this reach/segment, including Mud Pond Brook (-2), Alder Brook (-5), East Branch (-8), West Branch (-9), Lost Channel (-15) and Oregon Brook (-23) are also Class C(T). Cold Brook (-3) is listed separately.

Mud Pond (1003-0115)

NoKnownImpct

Waterbody Location Information

Revised: 10/05/2000

Water Index No: C- 15-22- 2-P42
Hydro Unit Code: 02010006/020 **Str Class:** C(T)
Waterbody Type: Lake
Waterbody Size: 110.3 Acres
Seg Description: total area of both lakes

Drain Basin: Lake Champlain
Great Chazy/Saranac
Reg/County: 5/Clinton Co. (10)
Quad Map: ALDER BROOK (C-25-4)

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 Mud 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 use 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)

Loon Lake (1003-0060)

Need Verific

Waterbody Location Information

Revised: 02/06/2009

Water Index No:	C-15-22-24-P48	Drain Basin:	Lake Champlain
Hydro Unit Code:	02010006/020	Str Class:	B(T)
Waterbody Type:	Lake (Unknown Trophic)	Reg/County:	5/Franklin Co. (17)
Waterbody Size:	355.4 Acres	Quad Map:	LOON LAKE (C-24-3)
Seg Description:	entire lake		

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Suspected
Recreation	Stressed	Possible

Type of Pollutant(s)

Known: - - -
Suspected: ALGAL/WEED GROWTH (algal blooms), Acid/Base (pH)
Possible: Nutrients

Source(s) of Pollutant(s)

Known: - - -
Suspected: Atmosph. Deposition
Possible: UNKNOWN SOURCE

Resolution/Management Information

Issue Resolvability:	1 (Needs Verification/Study (see STATUS))	
Verification Status:	1 (Waterbody Nominated, Problem Not Verified)	
Lead Agency/Office:	DOW/BWM	Resolution Potential: Medium
TMDL/303d Status:	n/a	

Further Details

Overview

Recreational uses in Loon Lake may experience minor impacts due to nutrient loading and algal blooms due to nonpoint sources. Prolonged algae blooms have been noted in the lake and tributary ponds (Drew/Inman Ponds) during the summer months. Aquatic life support in this segment may also be limited due to low pH, a result of atmospheric deposition (acid rain). However available data indicating such impacts is limited to a small pond within this segment and is more than 20 years old. Until more recent data on the larger waterbodies is available, this segment will be categorized as needing verification of impacts.

Water Quality Sampling

Clear Pond was included in the 1991 USEPA Environmental Monitoring and Assessment Program (EMAP) effort; results of this study found no evidence of water quality impairment. (DEC/DOW, BWM/Lake Services, December 2000)

Monitoring of Loon Lake and many smaller ponds within this segment 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 use in Loon Lake at the time. These historical surveys of small ponds within this segment indicate that low pH due to acid deposition is limiting the fishery. Monitoring by ALSC

(1985) revealed very low pH in Mountain Pond (P46) and Line Pond (P46a). (DEC, DOW, BWAM/WQAS, January 2009 and ALSC, 1984-86)

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

Mountain Pond (P46), Line Pond (P46a) and Bass Lake (P51) are included on the NYS 2008 Section 303(d) List of Impaired Waters in Appendix A as a Smaller Lakes Impaired by Acid Rain. (DEC/DOW, BWAM, 2008)

Segment Description

This segment includes the total area of Loon Lake (P48), as well as the smaller Mountain Pond (P46), Line Pond (P46a), Drew/Inman Ponds (P49, P50) and Bass Lake (P51). Loon Lake is Class B(T), while these smaller lakes/ponds are Class C(T).

Mud Lake (1003-0061)

NoKnownImpct

Waterbody Location Information

Revised: 09/26/2000

Water Index No: C- 15-22..P52
Hydro Unit Code: 02010006/020 **Str Class:** C(T)
Waterbody Type: Lake (Unknown Trophic) **Reg/County:** 5/Franklin Co. (17)
Waterbody Size: 14.9 Acres **Quad Map:** LOON LAKE (C-24-3)
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 **Resolution Potential:** n/a
TMDL/303d Status: n/a

Further Details

Water Quality Sampling

Monitoring of Mud 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 use 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)

Segment Description

This segment includes the total area of Mud Lake (P52), as well as the smaller unnamed ponds (P53, P54). All the waters of this segment are Class C(T).

Lake Kushaqua (1003-0062)

NoKnownImpct

Waterbody Location Information

Revised: 01/09/2001

Water Index No: C- 15-22..P55
Hydro Unit Code: 02010006/020 **Str Class:** C(T)
Waterbody Type: Lake (Mesotrophic)
Waterbody Size: 379.5 Acres
Seg Description: entire lake

Drain Basin: Lake Champlain
Great Chazy/Saranac
Reg/County: 5/Franklin Co. (17)
Quad Map: LOON LAKE (C-24-3)

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

Lake Kushaqua was included in the 1991 USEPA Environmental Monitoring and Assessment Program (EMAP) effort; results of this study found no evidence of water quality impairment. (DEC/DOW, BWM/Lake Services, December 2000)

Monitoring of Lake Kushaqua and the smaller Chubb 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 use 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)

Segment Description

This segment includes the total area of Lake Kushaqua (P55), as well as the smaller Chub Pond (P56). All the waters of this segment are Class C(T).

Buck Pond (1003-0063)

NoKnownImpct

Waterbody Location Information

Revised: 02/06/2009

Water Index No: C- 15-22..P61
Hydro Unit Code: 02010006/020 **Str Class:** C(T)
Waterbody Type: Lake (Unknown Trophic)
Waterbody Size: 129.4 Acres
Seg Description: entire lake

Drain Basin: Lake Champlain
Great Chazy/Saranac
Reg/County: 5/Franklin Co. (17)
Quad Map: LOON LAKE (C-24-3)

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 Buck 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 use 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)

Segment Description

This segment includes the total area of Buck Pond (P61). Buck Lake is Class C(T).

Little Chazy River, Lower, and tribs (1002-0003)

MinorImpacts

Waterbody Location Information

Revised: 04/21/2009

Water Index No: C- 4
Hydro Unit Code: 02010006/070 **Str Class:** C
Waterbody Type: River (Low Flow) **Reg/County:** 5/Clinton Co. (10)
Waterbody Size: 55.3 Miles **Quad Map:** CHAMPLAIN (B-27-1)
Seg Description: stream and tribs from mouth to West Chazy

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Known

Type of Pollutant(s)

Known: NUTRIENTS (phosphorus)
Suspected: Silt/Sediment
Possible: Pathogens, Thermal Changes

Source(s) of Pollutant(s)

Known: AGRICULTURE
Suspected: Streambank Erosion
Possible: On-Site/Septic Syst

Resolution/Management Information

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

Resolution Potential: Medium

Further Details

Overview

Aquatic life support in this portion of Little Chazy River are known to experience minor impacts/threats due to nutrient enrichment from agricultural and other nonpoint sources. Silt/sediment loads may also contribute to impacts in the stream. Streambank erosion is also a concern. There is considerable agricultural activity in the watershed.

Water Quality Sampling

A biological (macroinvertebrate) assessment of Little Chazy River in Chazy (at Stetson Road) was conducted as part of the RIBS biological screening effort in 2003. Sampling results indicated slightly impacted conditions. Some replacement of sensitive ubiquitous species by more tolerant species was noted although the sample included a balanced distribution of all expected species. Aquatic life is considered to be fully supported in the stream, however the community composition and nutrient biotic evaluation suggest conditions and levels of enrichment are sufficient to cause some stress to aquatic life. Impact source determination found fauna that is most similar to nonpoint source influenced communities. Similar results were found during sampling in 1998. (DEC/DOW, BWAM/SBU, January 2009)

Previous Sampling

The stream was sampled at Stetson Road in the hamlet of Chazy during 1993-1994 RIBS program in Lake Champlain Basin. Water quality at that time was revealed to be better than is indicated by the more recent sampling. (DEC/DOW, BWAR/RIBS, April 1996)

Segment Description

Segment includes the portion of the river (which is Class C) and tribs to this portion of the river, including Tracey Brook (-4). All tribs are Class D (December 2000). This segment includes the portion of the stream and all tribs from the mouth to/including unnamed trib (-6) near West Chazy. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including Tracey Brook (-4), are Class D. Upper Little Chazy River is listed separately.

Little Chazy River, Upper, and tribs (1002-0008)

NoKnownImpct

Waterbody Location Information

Revised: 06/10/2009

Water Index No: C- 4
Hydro Unit Code: 02010006/070 **Str Class:** C(T)
Waterbody Type: River (Low Flow)
Waterbody Size: 63.2 Miles
Seg Description: stream and tribs above West Chazy

Drain Basin: Lake Champlain
Great Chazy/Saranac
Reg/County: 5/Clinton Co. (10)
Quad Map: WEST CHAZY (B-26-3)

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
TMDL/303d Status: n/a

Resolution Potential: n/a

Further Details

Water Quality Sampling

NYSDEC Rotating Integrated Basin Studies (RIBS) Intensive Network monitoring of Little Chazy River in Chazy, Clinton County, (at West Church Street) was conducted in 2003 and 2004. Intensive Network sampling typically includes macroinvertebrate community analysis, water column chemistry, sediment and invertebrate tissues analysis and toxicity evaluation. Biological (macroinvertebrate) sampling results revealed slightly to non-impacted conditions, indicating good water quality. Water column sampling found no parameters of concern. Macroinvertebrates collected at this site and chemically analyzed for selected metals and PAHs found chromium and titanium to be present at a concentration above the established guidance value. Sediment screening for acute toxicity indicated possible toxicity, and analysis of sediments found elevated concentrations of several PAHs. Based on sediment quality guidelines developed for freshwater ecosystems, overall sediment quality is not likely to result in toxicity to sediment-dwelling organisms. Chronic toxicity testing using water from this location showed some reproductive effects on the test organism, but not reaching the level of biological significance. 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, May 2009).

A biological (macroinvertebrate) assessment of Farrell Brook, a trib of the Little Chazy River, in West Chazy (at O'Neil Road) was conducted as part of the RIBS biological screening effort in 2003. Sampling results indicated slightly impacted

conditions. The community is altered from natural conditions. Some sensitive species have been lost and the overall abundance of macroinvertebrates is lower. However, the effects on the fauna were determined to be relatively insignificant and water quality is considered to be good. The nutrient biotic index and impact source determination indicates low enrichment in the stream and fauna that is most similar to natural communities, but with some indication of nonpoint sources as well. Aquatic life support is considered to be fully supported in the stream, and there are no other apparent water quality impacts to designated uses. (DEC/DOW, BWAM/SBU, January 2009)

Segment Description

This segment includes the portion of the stream and all tribs above unnamed trib (-6) near West Chazy. The waters of this portion of the stream are Class C(T). Tribs to this reach/segment, including Farrell Brook (-7), Robinson Brook (-13) and Cold Brook (-14), are Class D. Lower Little Chazy River is listed separately.