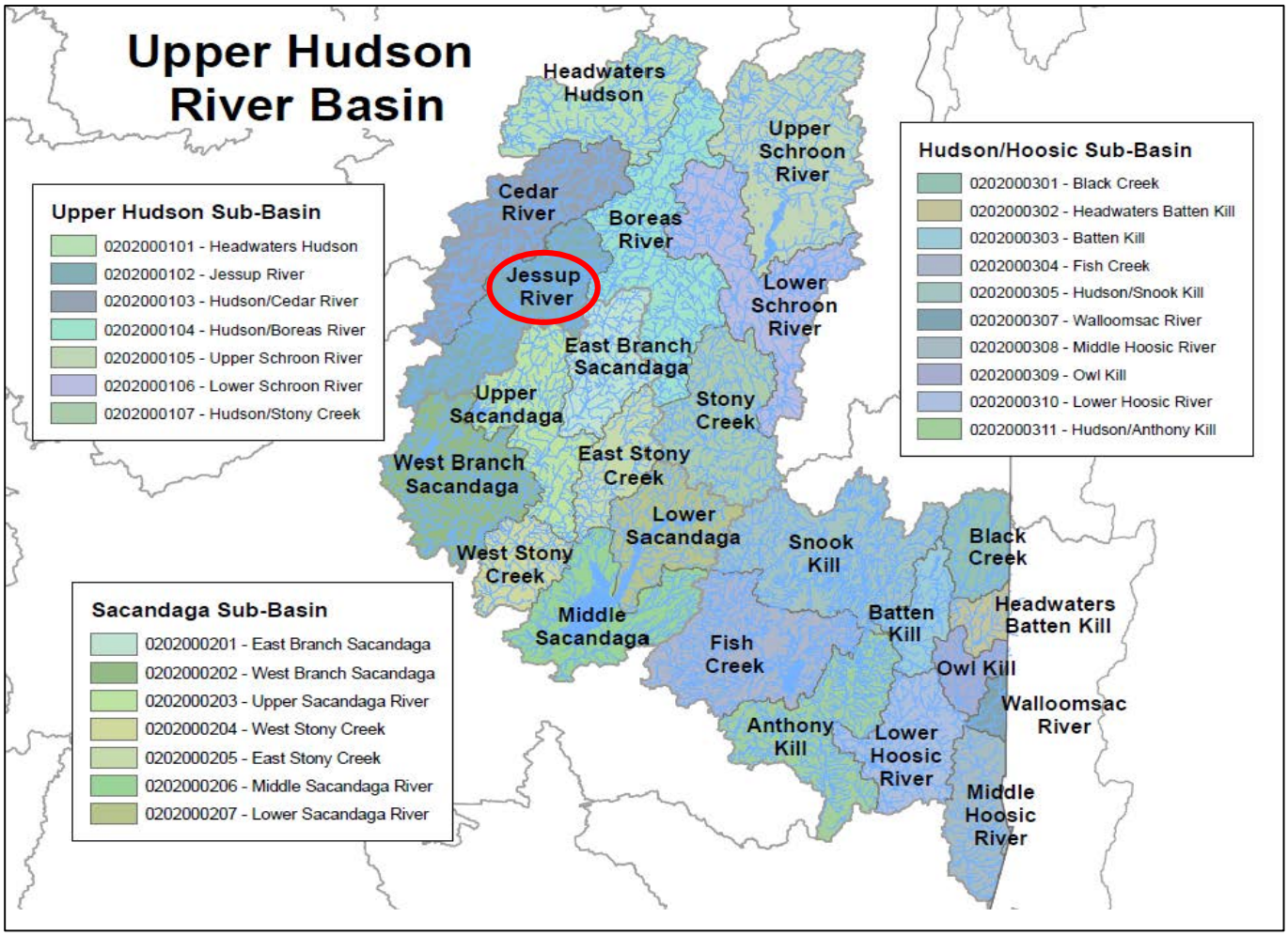

Jessup River Watershed
(0202000102)

Water Index Number	Waterbody Segment	Category
H-461	Indian River and minor tribs (1104-0022)	MinorImpacts
H-461- 9-P583	Lake Francis (1104-0268)	UnAssessed
H-461- 9..P585	Big Bad Luck Pond (1104-0269)	UnAssessed
H-461-15-P587a	Lake Adirondack (1104-0074)	Need Verific
H-461-17	Big Brook and tribs (1104-0270)	UnAssessed
H-461-17- 1-P588a	Kings Flow (1104-0271)	Impaired Seg
H-461-17- 1-P588a- 5-P590	Round Pond (1104-0315)	Impaired Seg
H-461-P582a	Abanakee Lake (1104-0027)	UnAssessed
H-461-P597	Indian Lake (1104-0021)	Need Verific
H-461-P597-	Minor Tribs to Indian Lake (1104-0060)	UnAssessed
H-461-P597- 6-P598	Crotched Pond (1104-0272)	UnAssessed
H-461-P597-16	Jessup River and tribs (1104-0273)	NoKnownImpct
H-461-P597-16- 3-P603	Whitaker Lake (1104-0274)	UnAssessed
H-461-P597-26- 9-P613	Mason Lake (1104-0275)	UnAssessed
H-461-P597-P597a	Lewey Lake (1104-0061)	UnAssessed
H-461..P582 thru P612	Minor Lake Tribs to Indian River/Lake (1104-0008)	Impaired Seg

Indian River and minor tribs (1104-0022) MinorImpacts

Waterbody Location Information

Revised: 12/11/2006

Water Index No: H-461
Hydro Unit Code: 02020001/010 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 14.6 Miles
Seg Description: entire stream and select tribs

Drain Basin: Upper Hudson River
Upper Hudson
Reg/County: 5/Hamilton Co. (21)
Quad Map: ()

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Known
Habitat/Hydrolgy	Stressed	Suspected

Type of Pollutant(s)

Known: - - -
Suspected: WATER LEVEL/FLOW
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: HYDRO MODIFICATION, Habitat Modification
Possible: - - -

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: DOW/Reg5 **Resolution Potential:** Medium
TMDL/303d Status: n/a ())

Further Details

Aquatic life support and hydrologic/habitat modification are known to experience minor impacts/threats. The cause of these impacts are thought to be a result of hydrologic modification to the river. Mid-summer rafting releases from Lake Abanakee, which began in 1997, are being investigated as a possible cause of the decline. Despite these conditions, aquatic life support, though impacted, is considered to be fully supported in the stream.

Biological (macroinvertebrate) assessments of Indian River in Indian Lake (at Chain Lakes Road) were conducted in 2001 and 2002. Sampling results indicated slightly impacted water quality conditions. This represents a decline in water quality compared to 1993, when it was assessed as non-impacted. Species richness and EPT richness reflect this decline. Present macroinvertebrate communities are sparse, with high numbers of fingernail clams. A more detailed assessment report of these results was issued in 2003. This report also evaluated impacts on the Hudson River downstream of its confluence with the Indian River. The report also found that two similar rivers in the area - the Boreas and Cedar Rivers - had faunas in 2001 that were assessed as similar to non-impacted conditions found in all three rivers in 1993, suggesting that the change in the change in the Indian River during this time period is likely due to factors other than natural processes. (Indian River Biological Assessment, DEC/DOW, BWAR/SBU, September 2003)

This segment includes the entire stream and select/smaller all tribs from the mouth to Indian Lake. The waters of the stream are Class C(T), with portions in the forest preserve. Tribs to this reach/segment, including Bullhead Pond Outlet (-6) and tribs to Lake Abanakee, are Class C,C(T), with portions in the forest preserve. Big Brook (-17) is listed separately.

Lake Adirondack (1104-0074) Need Verific

Waterbody Location Information

Revised: 02/08/2007

Water Index No: H-461-15-P587a
Hydro Unit Code: 02020001/010 **Str Class:** B
Waterbody Type: Lake
Waterbody Size: 217.7 Acres
Seg Description: entire lake

Drain Basin: Upper Hudson River
Upper Hudson
Reg/County: 5/Hamilton Co. (21)
Quad Map: BLUE MOUNTAIN (F-23-0)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Recreation	Stressed	Possible

Type of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: OTHER POLLUTANTS

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: OTHER SOURCE

Resolution/Management Information

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

Further Details

Various potential sources of impacts to this waterbody have been identified in previous assessments. However, actual impacts to uses need to be verifed/reverified. Previous assessments indicate that: Excessive growth of rooted aquatic plants impacts the aesthetics of the lake and impairs bathing, boating, and fishing uses. Lake Adirondack produces a dense growth of aquatic weeds and algae which 1) seriously impairs swimming, boating and fishing and 2) creates an ugly appearance and 3) reduces available oxygen. The algae growth results from an excess of nutrients associated with low rate of water throughput and the proliferation of private septic systems. Floating bogs are also present, creating hazards to recreational users.

Kings Flow (1104-0271) Impaired Seg

Waterbody Location Information

Revised: 12/11/2006

Water Index No: H-461-17- 1-P588a
Hydro Unit Code: 02020001/010 **Str Class:** C(T)
Waterbody Type: Lake
Waterbody Size: 185.6 Acres
Seg Description: entire lake

Drain Basin: Upper Hudson River
Upper Hudson
Reg/County: 5/Hamilton Co. (21)
Quad Map: THIRTEENTH LAKE (G-24-0)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
FISH CONSUMPTION	Impaired	Known

Type of Pollutant(s)

Known: METALS (mercury)
Suspected: - - -
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:** Low
TMDL/303d Status: 2b (Multiple Segment/Categorical Water, Fish Consumption))

Further Details

Fish consumption in Kings Flow is impaired due to a NYS DOH health advisory that recommends eating no more than one meal per month of larger smallmouth bass (over 15 inches) because of elevated mercury levels. The source of mercury is considered to be atmospheric deposition, as there are not other apparent sources in the lake watershed. The advisory for this lake was first issued in 2005-06. (2006-07 NYS DOH Health Advisories and DEC/FWMR, Habitat, December 2006).

This waterbody is included on the NYS 2006 Section 303(d) List of Impaired Waters. The lake was included on Part 2b of the List as a Fish Consumption Water.

Round Pond (1104-0315) Impaired Seg

Waterbody Location Information

Revised: 12/11/2006

Water Index No: H-461-17- 1-P588a- 5-P590
Drain Basin: Upper Hudson River
Hydro Unit Code: **Str Class:** N
Waterbody Type: Lake (Unknown Trophic)
Reg/County: 5/Hamilton Co. (21)
Waterbody Size: 19.3 Acres
Quad Map: RAQUETTE LAKE (F-22-0)
Seg Description: entire lake

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
FISH CONSUMPTION	Impaired	Known

Type of Pollutant(s)

Known: METALS (mercury)
Suspected: - - -
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:** Low
TMDL/303d Status: 2b (Multiple Segment/Categorical Water, Fish Consumption))

Further Details

Fish consumption in Round Pond is impaired due to a NYS DOH health advisory that recommends eating no more than one meal per month of yellow perch (over 12 inches) because of elevated mercury levels. The source of mercury is considered to be atmospheric deposition, as there are not other apparent sources in the lake watershed. The advisory for this lake was first issued prior to 1998-99. (2006-07 NYS DOH Health Advisories and DEC/FWMR, Habitat, December 2006).

This waterbody is included on the NYS 2006 Section 303(d) List of Impaired Waters. The lake was included on Part 2b of the List as a Fish Consumption Water.

Indian Lake (1104-0021) Need Verific

Waterbody Location Information

Revised: 02/08/2007

Water Index No: H-461-P597
Hydro Unit Code: 02020001/010 **Str Class:** AA
Waterbody Type: Lake
Waterbody Size: 4364.8 Acres
Seg Description: entire lake

Drain Basin: Upper Hudson River
Upper Hudson
Reg/County: 5/Hamilton Co. (21)
Quad Map: BLUE MOUNTAIN (F-23-0)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

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

Type of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: WATER LEVEL/FLOW, Silt/Sediment

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: HYDRO MODIFICATION, Deicing (stor/appl)

Resolution/Management Information

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

Further Details

Various potential sources of impacts to this waterbody have been identified in previous assessments. However, actual impacts to uses need to be verifed/reverified. Previous assessments indicate that: Water levels fluctuations expose fish eggs to desiccation and/or freezing, eliminate macrophytes (macrophytes provide cover for young fish and are a source of primary production), and greatly reduce forage (invertebrate) productivity in shallow areas. Anglers complain that the fluctuations make access difficult and report damage to boats and motors. Flow at the outlet dam is controlled by the Hudson River-Black River Regulatory Board which regulates water levels for the benefit of downstream users.

Jessup River and tribs (1104-0273) NoKnownImpct

Waterbody Location Information

Revised: 07/08/2005

Water Index No: H-461-P597-16
Hydro Unit Code: 02020001/010 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 76.2 Miles
Seg Description: entire stream and tribs

Drain Basin: Upper Hudson River
Upper Hudson
Reg/County: 5/Hamilton Co. (21)
Quad Map: ()

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:**
TMDL/303d Status: n/a ())

Further Details

A biological (macroinvertebrate) assessment of Jessup River neat Perkins Clearing (at Route 30) was conducted in 2001. Sampling results indicated slightly impacted water quality conditions, although this may mostly represent effects of upstream wetlands. The fauna was dominated by filter-feeding caddisflies, but also contained mayflies and stoneflies. No prior data were available for the stream. (DEC/DOW, BWAR/SBU, June 2005)

This segment includes the entire stream and all tribs. The waters of the stream are Class C(T), with portions in the forest preserve. Tribs to this reach/segment, including Whitaker Lake Outlet (-3), Pole Brook (-4), Mossy Vly Brook (-8), Bradys Brook (-10) and Big Brook (-11), are primarily Class C,C(T), with portions in the forest preserve.

Minor Lake Tribs to Indian River/Lake (1104-0008) Impaired Seg

Waterbody Location Information

Revised: 12/08/2006

Water Index No: H-461..P582 thru P612
Drain Basin: Upper Hudson River
Hydro Unit Code: 02020001/010 **Str Class:** C Upper Hudson
Waterbody Type: Lake **Reg/County:** 5/Hamilton Co. (21)
Waterbody Size: 288.4 Acres **Quad Map:** ()
Seg Description: total area of selected lakes in the watershed

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Impaired	Suspected

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: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: ext/EPA **Resolution Potential:** Low
TMDL/303d Status: 2a (Multiple Segment/Categorical Water, Atmosph Dep))

Further Details

Aquatic life support in one lake in this watershed is known to be impaired by low pH, a result of atmospheric deposition (acid rain).

Historical surveys indicate that Little Moose Pond (P607) in this watershed experienced low pH due to acid deposition is limiting the fishery. Monitoring by DFW (1977) revealed pH to be 5.0. Because the data is more than 25 year old and this specific lake represents less than 10% of the total lake area for the segment, some consideration was given to assessing aquatic life use iin this segment as suspected of being Threatened. However, consistent with its inclusion on the 2006 Section 303(d) List of Impaired Waters, the entire segment is listed as being Impaired. (DEC/DOW, BWAR, 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.
This segment is included on the NYS 2006 Section 303(d) List of Impaired Waters. The segment was included on Part

2a of the List as an Atmospheric Deposition (Acid Rain) Water.

This segment includes Bullhead Pond (P582), Cranberry Pond (P584), Rock Pond (P586), Stonystep Pond (P587), Jerry Pond (P588), Puffer Pond (P589), Round Lake (P590), Center Pond (P593), Clear Pond (P594), John Pond (P596), Middle Dug Mt. Pond (P601), Upper Dug Mt. Pond (P602), Little Moose Pond (P607), Otter Lake (P608), Panther Mountain Pond (P612). These lakes are Class C,C(T), or located in the forest preserve. Abanakee Lake (P582a), Lake Francis (P583), Big Bad Luck Pond (P585), Lake Adirondack (P587a), Kings Flow (P588a), Indian Lake (P597), Lewey Lake (P597a), Crotched Pond (P598), Whitaker Lake (P603) and Mason Lake (P613) are listed separately.