



Upper Schroon River Watershed (0202000105)

Water Index Number

H-391 (portion 3)/P374
H-391 (portion 4)
H-391 (portion 5)
H-391-P374- 5-P402
H-391-P374- 7-P403
H-391-P374- 8-3-P404
H-391-P374- 8-P405
H-391-P374- 8-P406
H-391-P374-11
H-391-P374-11..P411
H-391-P374-11..P412
H-391-P374-P377 thru P410 (sel)
H-391..37
H-391..37-4-P419
H-391..37-P418 thru P430 (sel)
H-391..37-P420,P421
H-391..37-P421-1-P424

Waterbody Segment

Schroon Lake (1104-0002)
Schroon River, Upper, and tribs (1104-0190)
Schroon River, Upper, and tribs (1104-0191)
Thurman Pond (1104-0218)
Horseshoe Pond (1104-0219)
Bullet Pond (1104-0220)
North Pond (1104-0221)
Big Pond (1104-0222)
Mill Brook and tribs (1104-0223)
Whortleberry Pond (1104-0224)
Pharaoh Lake (1104-0225)
Minor Lake Tribs to Schroon Lake (1104-0020)
Alder Creek and tribs (1104-0226)
Goose Pond (1104-0227)
Minor Lake Tribs to Alder Cr Watershed (1104-0228)
Alder, Crane Ponds (1104-0229)
Rock Pond (1104-0230)

Category

Impaired Seg
NoKnownImpct
UnAssessed
UnAssessed
UnAssessed
UnAssessed
UnAssessed
UnAssessed
NoKnownImpct
UnAssessed
UnAssessed
Need Verific
UnAssessed
UnAssessed
UnAssessed
Impaired Seg
UnAssessed

Water Index Number	Waterbody Segment	Category
H-391..39	Paradox Creek (1104-0231)	NoKnownImpct
H-391..39-P432	Paradox Lake (1104-0232)	NoKnownImpct
H-391..39-P432-2-P434	Johnson Pond (1104-0233)	UnAssessed
H-391..39-P432..P437	Pyramid Lake (1104-0234)	UnAssessed
H-391..39-P432..P438	Eagle Lake (1104-0235)	Need Verific
H-391..39-P432..P442	Gooseneck Pond (1104-0236)	UnAssessed
H-391..39-P433 thru P452	Minor Lake Tribs to Paradox Cr Watershed (1104-0237)	UnAssessed
H-391..47	The Branch (1104-0045)	NoKnownImpct
H-391..47-14-P458	Clear Pond (1104-0238)	UnAssessed
H-391..47-P457	Sand Pond (1104-0239)	UnAssessed
H-391..47-P460	Elk Lake (1104-0240)	UnAssessed
H-391..53-3-2-P467	Moose Mt Pond (1104-0241)	UnAssessed
H-391..53-P468	Hammond Pond (1104-0242)	UnAssessed
H-391..53-P468-1-2-P470	Pine Pond (1104-0243)	UnAssessed
H-391..P453 thru P507	Minor Lake Tribs to Upper Schroon Wshed (1104-0244)	UnAssessed
H-391..P494	Deadwater Pond (1104-0245)	UnAssessed
H-391..P494-1-1-4-P498,P499	Moss Ponds (1104-0246)	UnAssessed
H-391..P494-1-1-P500	Makomis Pond (1104-0247)	UnAssessed
H-391..P494-1-1-P501	New Pond (1104-0248)	UnAssessed
H-391..P494-1..P506	Hatching Pond (1104-0249)	UnAssessed

Schroon Lake (1104-0002)

Impaired Seg

Waterbody Location Information

Revised: 12/11/2006

Water Index No:	H-391 (portion 3)/P374	Drain Basin:	Upper Hudson River
Hydro Unit Code:	02020001/090	Str Class:	A
Waterbody Type:	Lake	Reg/County:	5/Warren Co. (57)
Waterbody Size:	4128.1 Acres	Quad Map:	SCHROON LAKE (F-25-0)
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), PRIORITY ORGANICS (PCBs)
Suspected: ---
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: TOX/CONTAM. SEDIMENT
Possible: UNKNOWN SOURCE

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 Schroon Lake is impaired due to a NYS DOH health advisory that recommends eating no more than one meal per month of larger lake trout (over 27 inches), larger yellow perch (over 13 inches) and smallmouth bass; the advisories are the result of elevated PCB and mercury levels. The most recent laboratory results from lake trout and yellow perch collected in 1989 (DFW) suggest that PCB and other organochlorine concentrations in fish have declined, but mercury concentrations in lake trout were still relatively high. 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 related to PCBs was issued prior to 1998-99; the mercury advisory was added in 2000-01. (2006-07 NYS DOH Health Advisories and DEC/FWMR, Habitat, December 2006).

Water column, soil and bottom sediment samples taken by the regional staff (1990) and central office (1991, DEC/DOW BMA report June 1992) showed only very low concentrations of PCBs and mercury. Macroinvertebrate sampling (1991) found no significant levels of PCBs in invertebrates, but mercury was found above levels of concern in crayfish in Schroon River above the inlet. Based on the various data gathered it was determined jointly by DFW and BMA staff that although PCB and other organochlorine contamination of Schroon Lake lake trout is no longer as serious, monitoring of the Fisheries resource should be continued, since sensitive species of fish-eating wildlife are at risk. No additional biological sampling of the Schroon River inlet or its tributaries was recommended, as DFW data

suggested mercury concentrations, though elevated, were typical of other waters affected by atmospheric deposition of mercury in this region of NYS. (DEC/DOW and FWMR, BWAM and Habitat, 2000)

Schroon Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 1987 and continuing through 2005. An Interpretive Summary report of the findings of this sampling was published in 2006. These data indicate that the lake continues to be best characterized as mesoligotropic, or moderately unproductive. Phosphorus levels in the lake are consistently below criteria that would indicate impacted recreational uses and transparency measurements satisfy what is recommended for swimming beaches. (DEC/DOW, BWAM/CSLAP, May 2006)

Public perception of the Schroon Lake and its uses are also evaluated as part of the CSLAP program. These assessment also indicate recreational suitability of the lake to be mostly favorable since the lake was first evaluated and continuing through the most recent assessment. Recreational conditions in the lake have been most often described as "could not be nicer" to "excellent" for most uses. The lake is regularly described as "not quite crystal clear." Aquatic plant are not typically visible from the lake surface. (DEC/DOW, BWAM/CSLAP, May 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.

Schroon River, Upper, and tribs (1104-0190)

NoKnownImpct

Waterbody Location Information

Revised: 07/08/2005

Water Index No: H-391 (portion 4) **Drain Basin:** Upper Hudson River
Hydro Unit Code: 02020001/090 **Str Class:** C Upper Hudson
Waterbody Type: River **Reg/County:** 5/Essex Co. (16)
Waterbody Size: 50.9 Miles **Quad Map:** SCHROON LAKE (F-25-0)
Seg Description: stream and minor tribs, from Schroon Lake to N.Hudson

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:

Further Details

A biological (macroinvertebrate) assessment of Schroon River in Schroon Falls (at Route 9) was conducted in 2001. Sampling results indicated slightly impacted water quality conditions. Although the fauna contained many clean-water mayflies, stoneflies, and caddisflies, species richness was low, possibly due to the substrate of boulders embedded in sand. Previous sampling assessed the Schroon Falls site as non-impacted in 1994. Further sampling of these sites is recommended to determine if the decline is genuine. Despite these conditions, aquatic life is considered to be fully supported in the stream, and there are no other apparent water quality impacts to designated uses. (DEC/DOW, BWAR/SBU, June 2005)

This segment includes the portion of the stream and selected/smaller tribs from Schroon Lake (P374) to The Branch (-47) near North Hudson. The waters of the stream are Class C(T). Tribs to this reach/segment, including Platt Brook (-38), are primarily Class C,C(T), with portions in the forest preserve. Alder Creek (-37) and Paradox Creek (-39) are listed separately.

Mill Brook and tribs (1104-0223)

NoKnownImpct

Waterbody Location Information

Revised: 07/08/2005

Water Index No: H-391-P374-11
Hydro Unit Code: 02020001/090 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 33.8 Miles
Seg Description: entire stream and tribs

Drain Basin: Upper Hudson River
Upper Hudson
Reg/County: 5/Essex Co. (16)
Quad Map: PHARAOH MOUNTAIN (F-26-4)

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:

Further Details

A biological (macroinvertebrate) assessment of Mill Brook in Adirondack (near Redwing Road/County Route 15) was conducted in 2001. Sampling results indicated non-impacted water quality conditions. Two metrics were within the range of slight impact, and the headwater correction factor was applied to these. The stream habitat of boulders was not conducive to a diverse fauna. (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 Desolate Brook (-5), Pharaoh Brook (-6), are also Class C(T), with portions in the forest preserve.

Minor Lake Tribs to Schroon Lake (1104-0020)

Need Verific

Waterbody Location Information

Revised: 12/08/2006

Water Index No: H-391-P374-P377 thru P410 (select.) **Drain Basin:** Upper Hudson River
Hydro Unit Code: 02020001/090 **Str Class:** C Upper Hudson
Waterbody Type: Lake **Reg/County:** 5/Essex Co. (16)
Waterbody Size: 196.9 Acres **Quad Map:** SCHROON LAKE (F-25-0)
Seg Description: total area of all selected lakes

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Threatened	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: 1 (Waterbody Nominated, Problem Not Verified)
Lead Agency/Office: ext/EPA
TMDL/303d Status: n/a ()

Resolution Potential:

Further Details

Aquatic life support in some lakes of this watershed could be considered threatened by low pH, a result of atmospheric deposition (acid rain).

Historical surveys indicate that a small lake (Marion Pond, P398) in this watershed experienced low pH due to acid deposition is limiting the fishery. Monitoring by DFW (1978) revealed pH to be <5.0. Because the data is more than 25 year old and this specific lake represents only about 3% of the total lake area for the segment, aquatic life use is assessed as suspected of being Threatened. However, Marion Pond is included on the 2006 Section 303(d) List of Impaired Waters, as a Small Lake Impaired by Acid Rain (Appendix A). (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.

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 Marion 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 (NYS Forest Preserve, DEC/DOW, BWAM, August 2006)

This segment includes Elk Pond (P377), Pat Pond (P378), Moxham Pond (P381), Calahan Pond (P382), Big Sherman Pond (P383), Little Sherman Pond (P383a), Barnes Pond (P386), Duck Pond (P387), Big Marsh (P396), Warrens Pond (P396a), Bailey Pond (P397), Marion Pond (P398), Marsh Pond (P399), Harrison Marsh Pond (P407), Spectacle Pond (P408) and Crab Pond (P410). Most of these waters are Class C, C(T), C(TS), with a few located in the forest preserve.

Alder, Crane Ponds (1104-0229)

Impaired Seg

Waterbody Location Information

Revised: 12/11/2006

Water Index No: H-391..37-P420,P421
Hydro Unit Code: 02020001/090 **Str Class:** N
Waterbody Type: Lake
Waterbody Size: 211.1 Acres
Seg Description: total area of both lakes

Drain Basin: Upper Hudson River
Upper Hudson
Reg/County: 5/Essex Co. (16)
Quad Map: PHARAOH MOUNTAIN (F-26-4)

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
TMDL/303d Status: 2b (Multiple Segment/Categorical Water, Fish Consumption))

Resolution Potential: Low

Further Details

Fish consumption in Crane Pond 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.

Paradox Creek (1104-0231)

NoKnownImpct

Waterbody Location Information

Revised: 07/08/2005

Water Index No: H-391..39
Hydro Unit Code: 02020001/090 **Str Class:**
Waterbody Type: River
Waterbody Size: 51.1 Miles
Seg Description: entire stream and tribs

Drain Basin: Upper Hudson River
Reg/County: 5/Essex Co. (16)
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
TMDL/303d Status: n/a ()

Resolution Potential:

Further Details

A biological (macroinvertebrate) assessment of Paradox Creek in Paradox (at Letsonville Road) was conducted in 2001. Sampling results initially indicated slightly impacted water quality conditions, although this likely reflected headwater condition and less-than-ideal habitat. The stream was very shallow, with large rocks. Overall water quality is corrected to non-impacted. (DEC/DOW, BWAR/SBU, June 2005)

This segment includes the entire stream and all tribs. The waters of the stream are Class C,C(T),C(TS). Tribs to this reach/segment, including Johnson Pond Brook (P432-2), Paragon Brook (-1), Burnt Mill Brook (-3) and Knob Brook (-9) are also Class C,C(T),C(TS), with portions in the forest preserve.

Paradox Lake (1104-0232)

NoKnownImpct

Waterbody Location Information

Revised: 12/11/2006

Water Index No:	H-391..39-P432	Drain Basin:	Upper Hudson River
Hydro Unit Code:	02020001/090	Str Class:	AA(T) Upper Hudson
Waterbody Type:	Lake	Reg/County:	5/Essex Co. (16)
Waterbody Size:	844.8 Acres	Quad Map:	PARADOX LAKE (F-26-1)
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:

Further Details

Paradox Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 2003 and continuing through 2005. An Interpretive Summary report of the findings of this sampling was published in 2006. These data indicate that the lake continues to be best characterized as mesoligotrophic, or moderately unproductive. Phosphorus levels in the lake are consistently below criteria that would indicate impacted recreational uses and transparency measurements consistently satisfy what is recommended for swimming beaches. (DEC/DOW, BWAM/CSLAP, May 2006)

Public perception of the lake and its uses is also evaluated as part of the CSLAP program. These assessment also indicate recreational suitability of the lake to be fully supported, with recreational conditions in the lake being most often described as "could not be nicer" for most uses. The lake is regularly described as "crystal clear." Native aquatic plants are present in the lake, but none of the major exotic plants often found in other New York lakes were present. (DEC/DOW, BWAM/CSLAP, May 2006)

Eagle Lake (1104-0235)

Need Verific

Waterbody Location Information

Revised: 02/09/2007

Water Index No:	H-391..39-P432..P438	Drain Basin:	Upper Hudson River
Hydro Unit Code:	02020001/090	Str Class:	B
Waterbody Type:	Lake	Reg/County:	5/Essex Co. (16)
Waterbody Size:	422.3 Acres	Quad Map:	GRAPHITE (F-26-3)
Seg Description:	entire lake		

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: ALGAL/WEED GROWTH, PROBLEM SPECIES (Eurasian milfoil)
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: HABITAT MODIFICATION
Possible: ---

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

Recreational uses in Eagle Lake may be threatened by non-native invasive aquatic plant growth. Other water chemistry indicators suggest good water quality.

Eagle Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) beginning in 2000 and continuing through 2005. An Interpretive Summary report of the findings of this sampling was published in 2006. These data indicate that the lake continues to be best characterized as oligotrophic, or highly unproductive. Phosphorus levels in the lake are well below criteria that would indicate impacted recreational uses and transparency measurements easily satisfy what is recommended for swimming beaches. (DEC/DOW, BWAM/CSLAP, May 2006)

Public perception of the lake and its uses is also evaluated as part of the CSLAP program. These assessment indicate recreational suitability of the lake to be somewhat impacted, primarily due to aquatic weed growth. Recreational conditions in the lake have been most often described as "slightly impacted" for most uses. The lake is regularly described as "not quite crystal clear." Such an assessment is atypical of lakes with similar water chemistry, but indicative of lakes with plant densities that grow to the lake surface. No aquatic plant surveys have been conducted through the CSLAP program, but Eurasian milfoil has been identified by other sources. (DEC/DOW,

BWAM/CSLAP, May 2006)

The Branch (1104-0045)

NoKnownImpct

Waterbody Location Information

Revised: 07/08/2005

Water Index No: H-391..47
Hydro Unit Code: 02020001/080 **Str Class:**
Waterbody Type: River
Waterbody Size: 116.8 Miles
Seg Description: entire stream and tribs

Drain Basin: Upper Hudson River
Reg/County: 5/Essex Co. (16)
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
TMDL/303d Status: n/a ()

Resolution Potential:

Further Details

A biological (macroinvertebrate) assessment of The Branch in North Hudson (at Blue Ridge Road) was conducted in 2001. Sampling results indicated non-impacted water quality conditions, with all metrics within the range of the non-impacted category. Clean-water mayflies, stoneflies, and caddisflies dominated the fauna. (DEC/DOW, BWAR/SBU, June 2005)

This segment includes the entire stream and all tribs. The waters of the stream are Class C(T). Tribs to this reach/segment, including Niagara Brook (-4), Aber Brook (-5), Sand Pond Brook (-10), Nellie Brook (-18) and East/West Inlets to Elk Lake, are Class C,C(T),CT(S), with portions in the forest preserve.