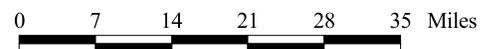
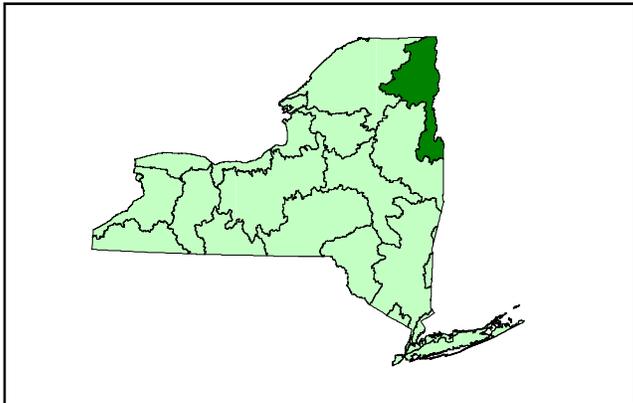
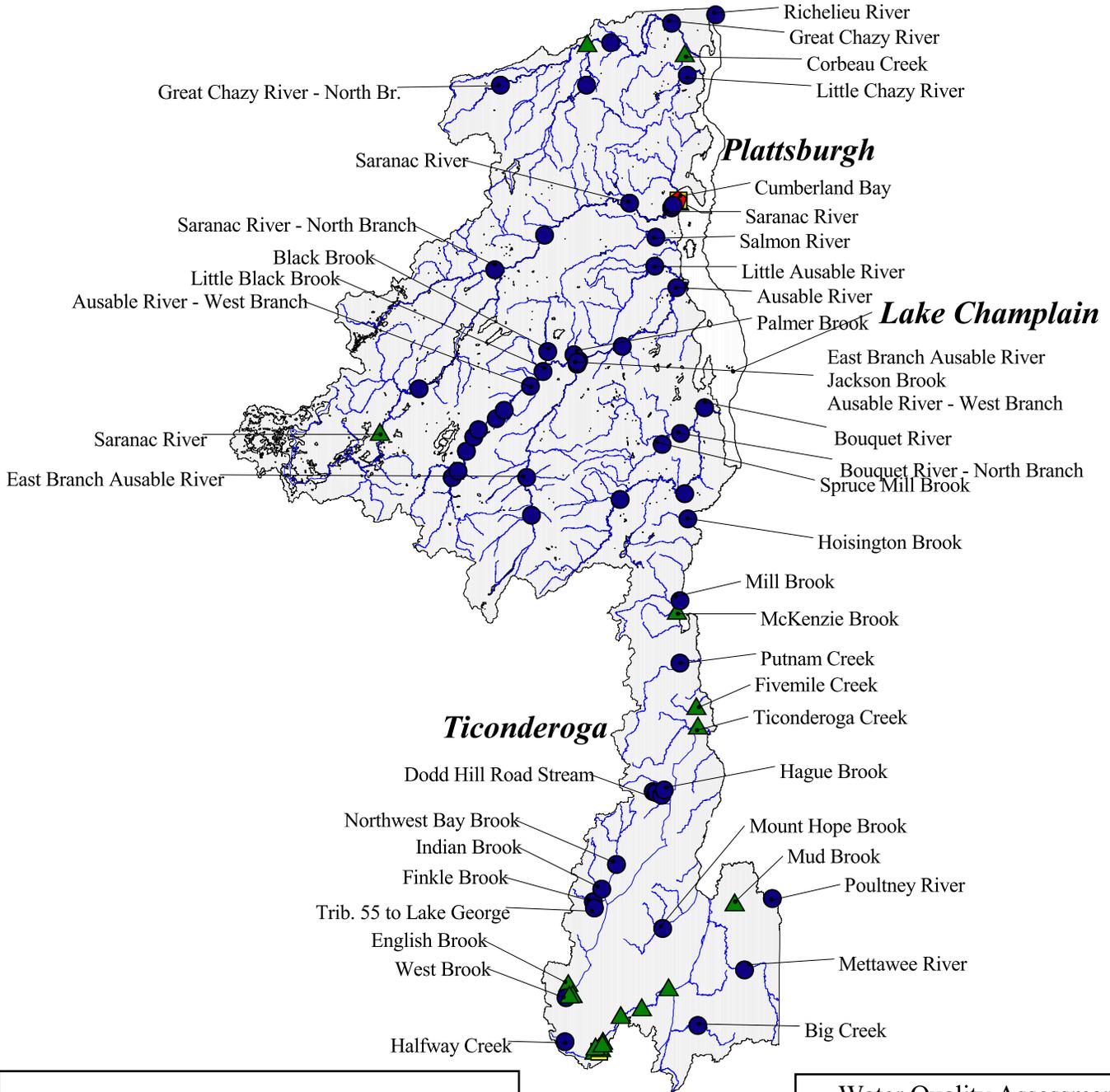


Lake Champlain Drainage Basin



LAKE CHAMPLAIN DRAINAGE BASIN SAMPLING SITES, 1972-2002

<u>STATION</u>	<u>LOCATION</u>	<u>YEAR SAMPLED</u>
AUSABLE RIVER (SABL)		
12	Clintonville, above bridge off Lower Rd.	98
13	Ausable Chasm, Route 9 bridge	93 94 98
AUSABLE RIVER, EAST BRANCH (ESAB)		
04	Keene Valley, above Barclay Rd. bridge	98
05	Keene, above Rte 73 bridge	98
11	Au Sable Forks, below Co. Rt. 9R bridge	93 94 98
AUSABLE RIVER, WEST BRANCH (SABL)		
01	Lake Placid, below Route 73, near ski jump	89 94 97 98 99
02	Below Lake Placid, Riverside Drive	89
03	Route 86 at Riverside Drive	89
04	Owen Pond trailhead, Route 86	89
05	Above Wilmington Notch, opp. Winch Pond Trailhead	89
06	Whiteface Mt. ski area	89
07	Above Wilmington, Rt. 86 at Flume Fall	89
08	Below Wilmington, above Haselton bridge	89 98
11A	Au Sable Forks, Route 9N bridge	93 94 98
BIG CREEK (BIGC)		
01	Hartford, Rt. 149 bridge	98
BLACK BROOK (BLBR)		
01	Black Brook, below Co. Rt. 17 bridge	98
BOUQUET RIVER (BOQT)		
04	Elizabethtown, above Rte 8 bridge	93 98
05	below Wadhams, below Morrison Rd. bridge	98
07	Willsboro, above Route 22 bridge	87 88 93 98 99
BOUQUET RIVER, NORTH BRANCH (NBQT)		
01	Reber, below Co. Rt. 68 (West Rd.) bridge	98
CHUBB RIVER (CHUB)		
03	Lake Placid, above confluence with West Br. Ausable River	97 98
CORBEAU CREEK (CORB)		
01	Coopersville, below Stetson Rd. bridge	98
ENGLISH BROOK (ENBR)		
01	Lake George, below Rt. 9 bridge	98
FINKLE BROOK (FINK)		
01	Bolton Landing, below Horicon Ave. bridge	98

LAKE CHAMPLAIN DRAINAGE BASIN SAMPLING SITES, 1972-2002

<u>STATION</u>	<u>LOCATION</u>	<u>YEAR SAMPLED</u>	
FIVEMILE CREEK (FMIL)			
01	Crown Point, above Rt. 49 bridge		98
GREAT CHAZY RIVER (GCHZ)			
01	Altona, above Route 191 bridge	93 94	98
02A	Mooers, off Mill St.		98
03	Champlain, above Rte 9 bridge	93 94	98
GREAT CHAZY RIVER, NORTH BRANCH (GCHZ)			
00	Ellenburg, above Rt. 54 bridge		98
02	Mooers Forks, below Rte 11 bridge	93	98
HAGUE BROOK (HAGE)			
01	Hague, above Rt. 9N bridge; off Rt. 8		98
HALFWAY CREEK (HALF)			
01	above Glens Falls, above Thunderbird Rd bridge		99
02	Glens Falls, above Rte 9 bridge		99 01
02B	Glens Falls, Bay Road at Lowes		01
02B1	Glens Falls, above confluence with Halfway Bk.		01
02C	Glens Falls, Cronin Road @ swimmers dam		01
02C2	Glens Falls, below Webster Ave. bridge		01
02C3	Glens Falls, Homer Rd, just below culvert		01
03	Glens Falls, above Meadowbrook Rd bridge		99 01
04	Pattens Mills, above Patten Mills Rd bridge		99
05	Tripoli, above Farley Rd bridge		99
06	Fort Ann, below Co. Rt. 16 bridge		98 99
HOISINGTON BROOK (HOIS)			
01	Westport, below Rt. 22-9N culvert		98
INDIAN BROOK (INBR)			
01	North Bolton, above Rt. 9N bridge		98 99
JACKSON BROOK (JACK)			
01	Au Sable Forks, below Golf Course Rd. bridge		98
LITTLE AUSABLE RIVER (LSAB)			
01	Laphams Mills, above Fuller Rd bridge	93	98 99
LITTLE BLACK BROOK (LBBR)			
01	Haselton, above Co. Rte. 12 bridge		98
LITTLE CHAZY RIVER (LCHZ)			
01	Chazy, below Stetson Road bridge	93 94	98
MCKENZIE BROOK (MCKN)			
01	Port Henry, above Rt. 22 bridge		98

LAKE CHAMPLAIN DRAINAGE BASIN SAMPLING SITES, 1972-2002

<u>STATION</u>	<u>LOCATION</u>	<u>YEAR SAMPLED</u>
METTAWEE RIVER (METT)		
01	North Granville, above Whitehall Turnpike bridge	93 98
MILL BROOK (MILC)		
01	Port Henry, below Dock St. bridge	98
MOUNT HOPE BROOK (HOPE)		
01	South Bay, below Co. Rt. 16 bridge	98
MUD BROOK (MDBR)		
01	Whitehall, below Beckwith Rd. bridge	98
NORTHWEST BAY BROOK (NBAY)		
01	North Bolton, at Rt. 9N bridge	98
PALMER BROOK (PALM)		
01	Ausable Forks, below Palmer Hill Rd. bridge	98
POULTNEY RIVER (PTNY)		
01	Hampton Flats, above Rte 22A bridge	93 98
PUTNAM CREEK (PUTM)		
01	Above Factoryville, below Rt. 2 bridge	98 99
RICHELIEU RIVER (RICH)		
01	Rouses Point, south of Rte 2 bridge 87	93 94 98 99
SALMON RIVER (SAMN)		
01	South Plattsburgh, above Salmon River Rd. bridge	93 98 99
SARANAC RIVER (SARA)		
01	Saranac Lake, Pine St bridge	93
02	Bloomingtondale, below Moose Pond Rd.	93 98 99
04	Saranac, below Hardscrabble Rd bridge	93 94 98
05	Morrisonville, off Banker Rd	93
06	Plattsburgh, S. Catherine St bridge 86	93
06A	Plattsburgh, above Saranac St bridge 87 88	98 99
SARANAC RIVER, NORTH BRANCH (SARA)		
03	Riverview, above Rt. 3 bridge; off Amell Rd.	93 98
SPRUCE MILL BROOK (SPRU)		
01	Reber, below Co. Rt. 12 culvert	98
TICONDEROGA CREEK (TCON)		
01	Ticonderoga, above Elk Drive 87 88	93 94 98

LAKE CHAMPLAIN DRAINAGE BASIN SAMPLING SITES, 1972-2002

<u>STATION</u>	<u>LOCATION</u>	<u>YEAR SAMPLED</u>
WEST BROOK (WSBR)		
01	Lake George, below culvert off Prospect Hwy	98 99
02	Lake George, above culvert @Gage Rd.	99
03	Lake George, below foot bridge; opposite Action Park	99
UNNAMED DODD HILL ROAD TRIBUTARY (DODD)		
01	Hague, below culvert under Dodd Hill Rd.	96
02	Hague, Dodd Hill Rd.; path just past "chalet" house	96
03	Hague, above Rt. 9N bridge	96
UNNAMED LAKE GEORGE TRIB. 55 (LG55)		
01	Bolton Landing, above Goodman Ave. bridge	98

ASSESSMENTS OF WATER QUALITY OF STREAMS IN THE LAKE CHAMPLAIN DRAINAGE BASIN, BASED ON MACROINVERTEBRATE COMMUNITIES

<u>Site/Reach</u>	<u>Water Quality Assessment</u>	<u>Change from 1992</u>
Ausable River, Clintonville	non-impacted	no prior data
Ausable River, below Ausable Chasm	non-impacted	no prior data
Ausable River, East Branch, Keene Valley	non-impacted	no prior data
Ausable River, East Branch, Keene	non-impacted	no prior data
Ausable River, East Branch, Au Sable Forks	non-impacted	no prior data
Ausable River, West Branch, Lake Placid	non-impacted	no change
Ausable River, West Branch, below Wilmington	non-impacted	no change
Ausable River, West Branch, Au Sable Forks	non-impacted	no prior data
Big Creek, Hartford	non-impacted	no prior data
Black Brook, Black Brook	non-impacted	no prior data
Bouquet River, Elizabethtown	non-impacted	no prior data
Bouquet River, below Wadhams	non-impacted	no prior data
Bouquet River, Willsboro	non-impacted	no change
Bouquet River, North Branch, Reber	non-impacted	no prior data
Chubb River, Lake Placid	slightly impacted	no prior data
Corbeau Creek, Coopersville	slightly impacted	no prior data
English Brook, Lake George	slightly impacted	no prior data
Finkle Brook, Bolton Landing	non-impacted	no prior data
Fivemile Creek, Crown Point	slightly impacted	no prior data
Great Chazy River, Altona	non-impacted	no prior data
Great Chazy River, Mooers	non-impacted	no prior data
Great Chazy River, Champlain	non-impacted	no prior data
Great Chazy River, North Branch, Ellenburg	non-impacted	no prior data
Great Chazy R., N. Br., Mooers Forks	slightly impacted	no prior data
Hague Brook, Hague	non-impacted	no prior data
Halfway Creek, above Glens Falls	non-impacted	no prior data
Halfway Creek, Glens Falls, Rte 9	slightly impacted	no prior data
Halfway Creek, Glens Falls, Bay Road	slightly impacted	no prior data
Halfway Creek, Glens Falls, just above confluence	slightly impacted	no prior data

ASSESSMENTS OF WATER QUALITY OF STREAMS IN THE LAKE CHAMPLAIN DRAINAGE BASIN,
 BASED ON MACROINVERTEBRATE COMMUNITIES

<u>Site/Reach</u>	<u>Water Quality Assessment</u>	<u>Change from 1992</u>
Halfway Creek, Glens Falls, Cronin Rd.	slightly impacted	no prior data
Halfway Creek, Glens Falls, Webster Ave.	moderately impacted	no prior data
Halfway Cr. trib., Glens Falls, Homer Rd	slightly impacted	no prior data
Halfway Creek, Glens Falls, Meadowbrook Rd	slightly impacted	no prior data
Halfway Creek, Pattens Mills	slightly impacted	no prior data
Halfway Creek, Tripoli	slightly impacted	no prior data
Halfway Creek, Fort Ann	slightly impacted	no prior data
Hoisington Brook, Westport	non-impacted	no prior data
Indian Brook, North Bolton	non-impacted	no prior data
Jackson Brook, Au Sable Forks	non-impacted	no prior data
Little Ausable River, Laphams Mills	non-impacted	no prior data
Little Black Brook, Haselton	non-impacted	no prior data
Little Chazy River, Chazy	non-impacted	no prior data
McKenzie Brook, Port Henry	slightly impacted	no prior data
Mettawee River, North Granville	non-impacted	no prior data
Mill Brook, Port Henry	non-impacted	no prior data
Mount Hope Brook, South Bay	non-impacted	no prior data
Mud Brook, Whitehall	slightly impacted	no prior data
Northwest Bay Brook, North Bolton	non-impacted	no prior data
Palmer Brook, Ausable Forks	non-impacted	no prior data
Poultney River, Hampton Flats	non-impacted	no prior data
Putnam Creek, above Factoryville	non-impacted	no prior data
Richelieu River, Rouses Point	slightly impacted	no change
Salmon River, South Plattsburgh	non-impacted	no prior data
Saranac River, Saranac Lake	non-impacted	no prior data
Saranac River, Bloomingdale	non-impacted	no prior data
Saranac River, Saranac	non-impacted	no prior data
Saranac River, Morrisonville	non-impacted	no prior data
Saranac River, Plattsburgh, South Catherine St.	non-impacted	no change
Saranac River, Plattsburgh, Saranac St.	slightly impacted	DECLINED

ASSESSMENTS OF WATER QUALITY OF STREAMS IN THE LAKE CHAMPLAIN DRAINAGE BASIN,
 BASED ON MACROINVERTEBRATE COMMUNITIES

<u>Site/Reach</u>	<u>Water Quality Assessment</u>	<u>Change from 1992</u>
Saranac River, North Branch, Riverview	non-impacted	no prior data
Spruce Mill Brook, Reber	non-impacted	no prior data
Ticonderoga Creek, Ticonderoga	slightly impacted	no change
West Brook, Lake George, off Prospect Hwy	non-impacted	no prior data
West Brook, Lake George, Gage Rd	slightly impacted	no prior data
West Brook, Lake George, below foot bridge	slightly impacted	no prior data
Unnamed Dodd Hill Road Stream, Hague, under Dodd Hill Rd.	non-impacted	no prior data
Unnamed Dodd Hill Road Stream, Hague, past "chalet" house	non-impacted	no prior data
Unnamed Dodd Hill Road Stream, Hague, above Rt. 9N	non-impacted	no prior data
Unnamed Lake George Trib. 55, Bolton Landing	non-impacted	no prior data

REPORTS OF MACROINVERTEBRATE SURVEYS WITHIN THE LAKE CHAMPLAIN
WATERSHED

STREAM	YEAR OF SURVEY	REPORT
Ausable River, West Branch	1975	AVON
Ausable River, West Branch	1976	AVON
Ausable River, West Branch	1989	SBU,1990
Cumberland Bay	1986	SBU,1987
Cumberland Bay	1993	SBU,1994
Halfway Creek	1999	SBU,2000
Saranac River	1986	SBU,1987
Saranac River	1993	SBU,1994
West Brook	1999	SBU,2000
Watershed Streams	1987-1988	RIBS,1990
Watershed Streams	1993-1994	RIBS,1996

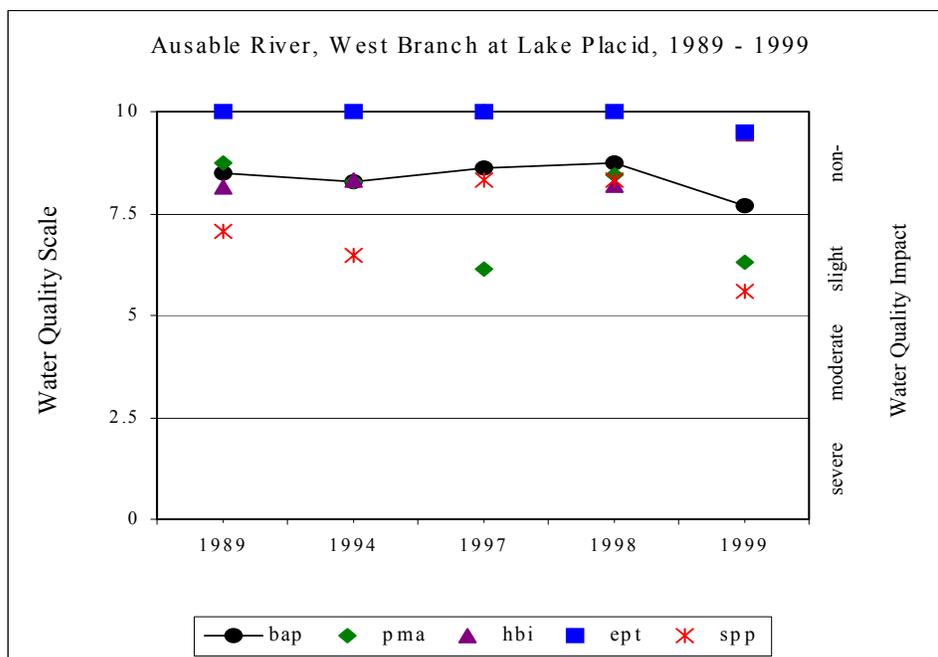
AVON Avon Pollution Investigations Unit, Div. of Fish & Wildlife, NYS DEC
 DOH New York State Department of Health
 RIBS Rotating Intensive Basin System, Statewide Waters Assessment Section, NYS DEC
 SBU Stream Biomonitoring Unit, Division of Water, NYS DEC

Ausable River

Water quality was assessed as non-impacted for the Ausable River reach from Clintonville to Ausable Chasm, based on sampling in 1993, 1994, and 1998. Mayflies, stoneflies, and caddisflies were well-represented in the samples.

On the East Branch Ausable River, the reach from Keene Valley to Ausable Forks was sampled for macroinvertebrates in 1993, 1994, and 1998, and was assessed as non-impacted. Mayflies, stoneflies, caddisflies, and hellgrammites were well-represented. Water quality was exemplary.

Water quality in the West Branch Ausable River also remains non-impacted (Figure 10-1). Recent sampling includes macroinvertebrate sampling at Haselton and Au Sable Forks in 1998 and at Lake Placid in 1999. Water quality was clearly non-impacted, with mayflies, stoneflies, and caddisflies well-represented in both samplings. No



water quality problems were indicated.

Figure 10-1. Water quality in the West Branch Ausable River at Lake Placid, 1989-1999. SPP= species richness, HBI= Hilsenhoff biotic index, EPT= richness of mayflies, stoneflies, and caddisflies, PMA- Percent Model Affinity, BAP= Biological Assessment Profile value

Big Creek

Water quality was assessed as non-impacted, based on macroinvertebrate sampling at Hartford in 1998. The habitat was considered poor, with the stream bottom consisting primarily of bedrock. Pockets of rubble that were sampled contained a diverse fauna of mayflies, stoneflies, and caddisflies. No water quality problems were indicated.

Black Brook

Black Brook is a tributary of the West Branch Ausable River. Based on macroinvertebrate sampling in 1998, water quality was assessed as non-impacted. The fauna was dominated by intolerant caddisflies and mayflies. No prior data were available for the stream.

Bouquet River

Water quality remains non-impacted in the Bouquet River at all sites sampled. Three sites were sampled from Elizabethtown to Willsboro in 1998. Based on macroinvertebrate indices, water

quality was assessed as non-impacted. The faunas were diverse, well-balanced, and composed of clean-water species. The Willsboro site was sampled again in 1999 and was assessed as non-impacted, although Impact Source Determination indicated siltation as a factor influencing the macroinvertebrate community. The sites at Elizabethtown and Willsboro were field-assessed as non-impacted in 1993.

The North Branch Bouquet River was sampled at Reber in 1998, and water quality was assessed as non-impacted. The fauna was diverse and well-balanced, with many clean-water species.

Chubb River

Slightly impacted water quality is assessed for the Chubb River near its mouth, based on macroinvertebrate sampling in 1997 and 1998. The fauna reflected minor impact from the Lake Placid (V) Sewage Treatment Plant discharge.

Corbeau Creek

Based on 1998 sampling at Coopersville, water quality was assessed as slightly impacted. The fauna was dominated by filter-feeding caddisflies, and nutrient enrichment was indicated. Possible contributors to the impact include an upstream wetland, and numerous farms in the watershed.

English Brook

This stream was sampled in 1998 below the Route 9 bridge in Lake George. Based on macroinvertebrate indices, water quality was assessed as slightly impacted. Impact Source Determination indicated nonpoint source nutrient enrichment. Mayflies, stoneflies, and caddisflies were numerous at this site, and the enrichment was considered minor.

Finkle Brook

Based on macroinvertebrate sampling in 1998 at Bolton Landing, water quality was assessed as non-impacted. Productivity appeared low, but the fauna was dominated by clean-water species of mayflies, stoneflies, and caddisflies.

Five Mile Creek

Water quality was assessed as slightly impacted, based on 1998 macroinvertebrate sampling at Crown Point. Impact Source Determination indicated effects of nonpoint source nutrient enrichment. Filamentous algae and filter-feeding caddisflies were abundant in the stream. Dairy farms are numerous in this watershed.

Great Chazy River

Non-impacted water quality was assessed for the reach from Altona to Champlain, based on macroinvertebrate sampling in 1993, 1994, and 1998. Most sites were dominated by bedrock, with small areas of rubble. The rubble sampled contained diverse populations of mayflies, stoneflies, and caddisflies.

The North Branch Great Chazy River was sampled from Ellenburg to Mooers Forks. Non-impacted water quality was assessed for the Ellenburg site, and slightly impacted water quality was assessed for the Mooers Forks site, based on 1998 macroinvertebrate sampling. The fauna was

heavily dominated by *Brachycentrus* caddisflies, and ISD denoted nonpoint source nutrient enrichment as the primary stressor.

Hague Brook

The macroinvertebrate sample taken in 1998 was above the Route 9N bridge in Hague. Although productivity seemed low, all indices were within the range of non-impacted water quality. Mayflies, stoneflies, and caddisflies were well-represented. This site was previously sampled in 1996 and was assessed as slightly impacted, although this impact may have been a remnant of severe flooding in January, 1996.

Halfway Creek

Water quality in Halfway Creek ranges from non-impacted to slightly impacted, based on sampling at several sites from Glens Falls to Fort Ann in 1999 and 2001. Non-impacted water quality was documented at the upstream site above Glens Falls. A decline in water quality in the reach downstream of the city of

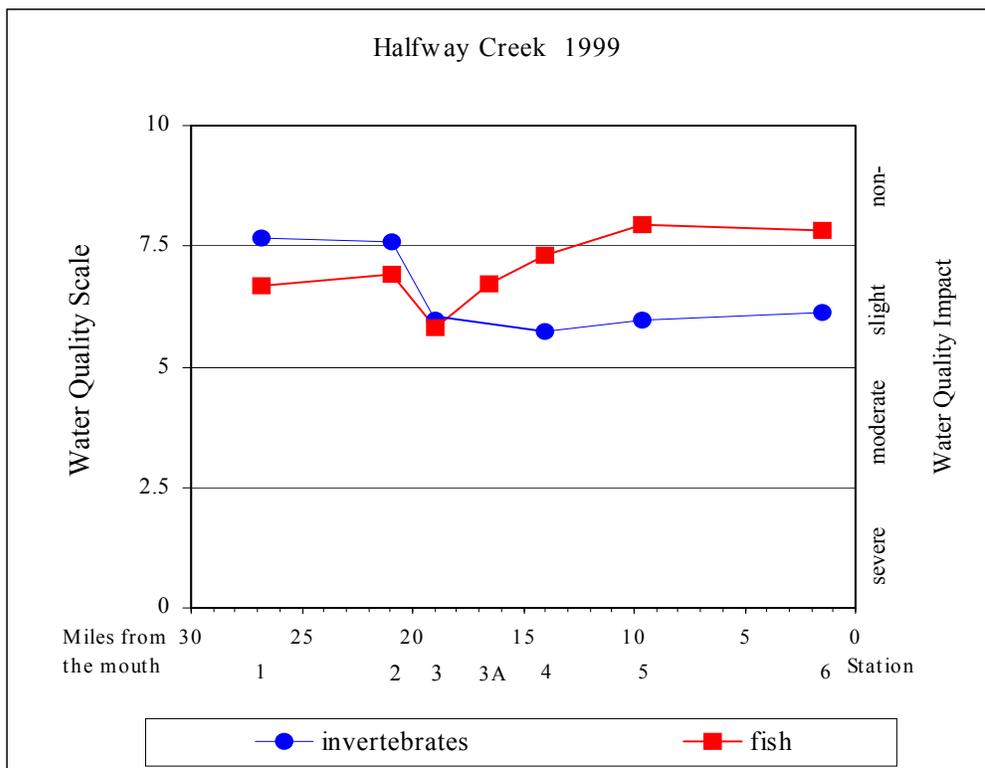


Figure 10-2. Water quality in Halfway Creek, Glens Falls to Fort Ann, 1999, as determined by macroinvertebrate sampling and fish sampling.

Glens Falls was documented in 1999 sampling. In 1999 sampling, PAHs (polycyclic aromatic hydrocarbons) in crayfish tissues were elevated at many stream locations, and were highest downstream of Glens Falls, likely due to urban runoff. Crayfish were resampled in 2001, and PAHs were not elevated at any sites. It was postulated that high levels of PAHs in 1999 may have been the result of a heavy flood one week before sampling, causing more urban runoff. Community analysis in 2001 found a tributary originating in Crandall Park to be moderately impacted, and likely contributing urban runoff to Halfway Creek. The lower portion of the creek from Glens Falls to Fort Ann appears to be affected by nonpoint source nutrient enrichment and siltation. Fish communities sampled in 1999 in Halfway Creek were dominated by coolwater species, but with few gamefish species present (Doug Carlson, DEC, pers. comm.). Water quality assessments based on fish communities correlated well with assessments based on macroinvertebrate communities for upstream sites, and showed differences at downstream sites (Figure 10-2).

Hoisington Brook

Non-impacted water quality was assessed for a site in Westport, based on 1998 macroinvertebrate sampling. The sample passed the field screening criteria, and was not retained. No prior data were available for the stream.

Indian Brook

Non-impacted water quality was assessed for the North Bolton site, based on 1998 sampling at the Route 9N bridge. The sample passed the field screening criteria, and was not retained. The site was sampled again in 1999; the retained sample confirmed non-impacted water quality, with all macroinvertebrate indices in the non-impacted range.

Jackson Brook

Water quality was assessed as non-impacted for this tributary of the Ausable River based on 1998 macroinvertebrate sampling at Au Sable Forks. Mayflies, stoneflies, and caddisflies were well-represented. No prior data were available for the stream.

Little Ausable River

Based on macroinvertebrate sampling at Lapham Mills in 1993, 1998, and 1999, non-impacted water quality was clearly indicated. The fauna was diverse and well-balanced, with all indices within the non-impacted range.

Little Black Brook

Non-impacted water quality was assessed for this tributary of the West Branch Ausable River, based on 1998 sampling at Haselton. The sample passed the field screening criteria, and was not retained. No prior data were available for the stream.

Little Chazy River

Current water quality in the Little Chazy River is assessed as slightly impacted, based on 1998 macroinvertebrate sampling at Chazy. The fauna was dominated by filter-feeding caddisflies, and nutrient enrichment was indicated. Many farms in the watershed are likely contributors to the nonpoint source enrichment. Previous sampling at this site in 1993 and 1994 documented non-impacted water quality, but close to the range of slight impact.

Mckenzie Brook

A site on Mckenzie Brook at Port Henry was sampled at the Route 22 bridge in 1998. Macroinvertebrate indices placed water quality as slightly impacted. Mayflies, stoneflies, and caddisflies were numerous at this site. Impact Source Determination showed likely influences of nonpoint source nutrient enrichment. Water quality problems are considered to be minor.

Mettawee River

Based on 1998 macroinvertebrate sampling at North Granville, water quality was assessed as non-impacted, though close to the range of slightly impacted. The fauna was dominated by mayflies, caddisflies, and riffle beetles. This site was assessed as slightly impacted in 1993 sampling. Further sampling is needed to document whether or not the improvement represents a genuine trend.

Mill Brook

Non-impacted water quality was assessed for this Lake Champlain tributary, based on 1998 sampling at Port Henry. The sample passed the field screening criteria, and was not retained. No prior data were available for the stream.

Mount Hope Brook

Non-impacted water quality was clearly assessed for the South Bay site, based on 1998 sampling. The sample passed the field screening criteria, and was not retained. The fauna was considered exemplary.

Mud Brook

This stream was sampled for macroinvertebrates in 1998 below the Beckwith Road bridge at Whitehall. Although the stream was very muddy, the fauna included many mayflies, stoneflies, caddisflies, riffle beetles, and hellgrammites. All indices were within the range on slight impact. Impact Source Determination showed high affinities to nutrient enrichment, siltation, and natural conditions.

Northwest Bay Brook

Non-impacted water quality was assessed for a site at North Bolton, based on 1998 sampling at the Route 9N bridge. The sample passed the field screening criteria, and was not retained. No prior data were available for the stream.

Palmer Brook

A site at Ausable Forks was sampled downstream of the Palmer Hill Road bridge. Based on 1998 macroinvertebrate sampling, water quality was assessed as non-impacted. The fauna was dominated by intolerant species of mayflies and caddisflies, with stoneflies and hellgrammites also present. No prior data were available for the stream.

Poultney River

The Hampton Flats site was sampled above the Route 22A bridge in 1998, and was assessed as non-impacted. Although the stream bottom was considered poor habitat, the fauna was diverse and well-balanced, with mayflies dominant. This site was assessed as slightly impacted in 1993 sampling. Further sampling is need to document whether or not the improvement represents a genuine trend.

Putnam Creek

Non-impacted water quality was assessed for Putnam Creek at Factoryville, based on sampling at the Route 2 bridge in 1999. The sample was field-assessed and was not retained for laboratory analysis. No prior data were available for the stream.

Richelieu River

Water quality in the Richelieu River at Rouses Point is currently assessed as slightly impacted. The 1999 Ponar sample appeared to reflect slight organic enrichment. The 1998 Ponar sample was assessed as non-impacted. The diverse fauna was dominated by crustaceans, worms, mollusks, and midges. Ponar samples taken in 1993 and 1994 were also assessed as non-impacted.

Salmon River

Non-impacted water quality was assessed for the Salmon River at South Plattsburgh, based on macroinvertebrate sampling in 1993, 1998, and 1999. The fauna was dominated by clean-water species of mayflies, stoneflies, and caddisflies.

Saranac River

The Saranac River currently is considered non-impacted, with the exception of the most downstream site in Plattsburgh. Six sites were sampled in 1993 and were assessed as non-impacted from Riverview to Plattsburgh. The Bloomingdale site was re-sampled in 1998, and was assessed as non-impacted. The site in Saranac Lake is considered to be affected by impoundment effects rather than water quality impacts. The 1999 sampling at the Plattsburgh site yielded an assessment of slightly impacted, with siltation denoted as a possible stressor. Continued monitoring of this site is recommended to determine if the decline is genuine.

Non-impacted water quality was also assessed for the North Branch Saranac River, based on 1998 macroinvertebrate sampling at Riverview. The sample passed the field screening criteria, and was not retained. This site was previously assessed as non-impacted in 1993 sampling.

Spruce Mill Creek

Water quality was assessed as non-impacted, based on 1998 macroinvertebrate sampling at Reber. Although the stream bottom was largely composed of sand, the fauna was dominated by clean-water mayflies, caddisflies, riffle beetles, and stoneflies. No prior data were available for the stream.

Ticonderoga Creek

Water quality remains slightly impacted in Ticonderoga Creek, based on 1998 macroinvertebrate sampling at Ticonderoga. The assessment for this site has been mostly the same since 1987. Sampling in 1993 pointed to non-impacted conditions, but the 1994 sample was assessed as slightly impacted. ISD indicated that the primary stressors were nonpoint source runoff and toxicity, possibly denoting urban runoff.

West Brook

Based on 1999 sampling of 3 sites at Lake George, water quality in West Brook is generally good, ranging from non-impacted upstream to slightly impacted downstream. Road runoff, groundwater contributions, and differences in habitat and land use appear to account for the faunal differences seen. A groundwater seep downstream of the Lake George (V) Wastewater Treatment Facility may contribute small amounts of nutrients to the stream. The downstream site was sampled for macroinvertebrates in 1998 and was assessed as moderately impacted, although very close to the range of slight impact.

Unnamed Dodd Hill Road tributary (Hague)

Excellent water quality was diagnosed for this unnamed Lake George tributary southwest of Hague. Three sites sampled in 1996 exhibited macroinvertebrate faunas dominated by clean-water mayflies, stoneflies, and caddisflies.

Unnamed Lake George tributary 55 (Bolton Landing)

This unnamed tributary was sampled for macroinvertebrates in 1998 above the Goodman Avenue bridge at Bolton Landing. The stream bottom rocks were covered with a red-brown flocculent that appeared to be iron bacteria. The macroinvertebrate fauna was dominated by midges, although mayflies, stoneflies, and caddisflies were also numerous. Overall water quality was assessed as non-impacted, based on the indices.