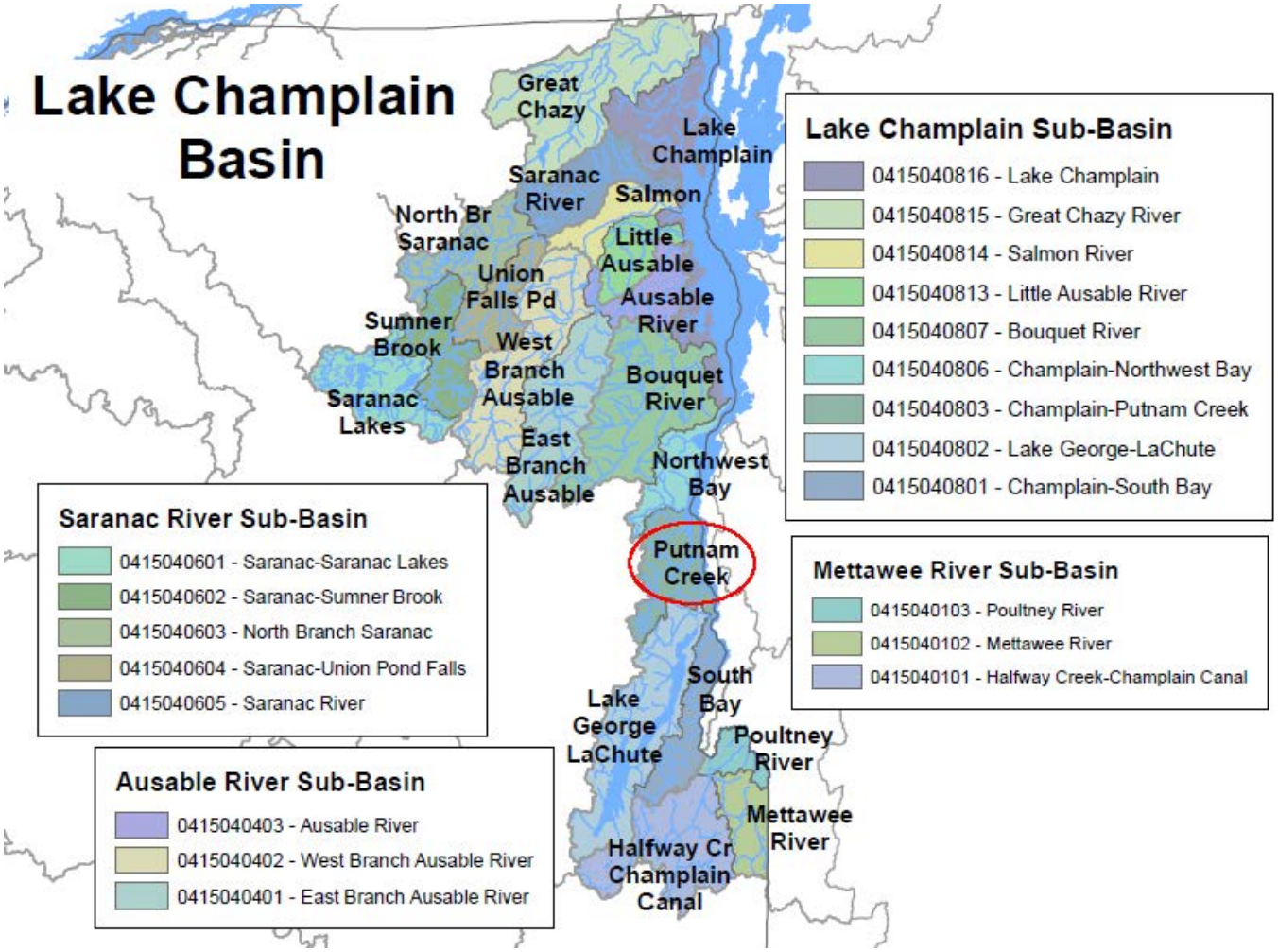

Putnam Creek – Lake Champlain

(0415040803)

C (portion 4)	Lake Champlain, South Lake (1000-0004)	**Impaired Seg**
C- 93-P348	Bullpout Pond (1001-0031)	**NoKnownImpct**
C- 96	Putnam Creek, Lower, and tribs (1005-0011)	**NoKnownImpct**
C- 96	Putnam Creek, Upper, and tribs (1005-0015)	UnAssessed
C- 96- 8-P352	Mud Pond (1005-0060)	**NoKnownImpct**
C- 96-P351a	Penfield Pond (1005-0017)	**NoKnownImpct**
C- 96-P355/P360	Putnam/North Ponds (1005-0018)	**Need Verific**
C- 96..P351 (P351b,P351c)	Sherman Lake (Goosepuddle/Burris Pond) (1005-0016)	**NoKnownImpct**
C- 96..P353 thru P361	Minor Lakes in Upper Putnam Creek Wshed(1005-0019)	**NoKnownImpct**
(selected) C-100	Fivemile Run and tribs (1005-0021)	**MinorImpacts**
C-100-P364,P365	Buck Mountain, Worcester Ponds (1005-0022)	**NoKnownImpct**

Lake Champlain, South Lake (1000-0004) Impaired Seg

Waterbody Location Information

Revised: 04/24/2009

Water Index No:	C (portion 4)			**Drain Basin:**	Lake Champlain
Hydro Unit Code:	02010001/280	**Str Class:**	B		Champlain-Lk.George
Waterbody Type:	Lake			**Reg/County:**	5/Essex Co. (16) ...
Waterbody Size:	5754.0 Acres			**Quad Map:**	CROWN POINT (F-27-1) ...
Seg Description:	portion of lake, from Crown Point Br to Champlain Canal				

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Public Bathing	Stressed	Known
FISH CONSUMPTION	Impaired	Known
RECREATION	Impaired	Known
Aesthetics	Stressed	Known

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH, METALS (mercury), NUTRIENTS (phosphorus), PRIORITY ORGANICS (PCBs), PROBLEM SPECIES (water chestnut, other)
Suspected: - - -
Possible: Pathogens

Source(s) of Pollutant(s)

Known: AGRICULTURE, ATMOSPH. DEPOSITION, HABITAT MODIFICATION, TOX/CONTAM. SEDIMENT
Suspected: Municipal, Urban/Storm Runoff
Possible: - - -

Resolution/Management Information

Issue Resolvability: 3 (Strategy Being Implemented)
Verification Status: 5 (Management Strategy has been Developed)
Lead Agency/Office: DEC/LCBP **Resolution Potential:** High
TMDL/303d Status: 2b,4a,4c? (Multiple Segment/Categorical Water, Fish Consumption, more)

Further Details

Overview

Fish consumption in Lake Champlain is known to be impaired due to health advisories that recommend restricting the consumption of fish from the lake because of elevated PCB and mercury levels. Recreational use (swimming, fishing, boating) in the Southern end of the lake is also known to be impaired due to nutrient loadings and aquatic invasive week growth. The PCB source is thought to be lake sediments contaminated by past industrial and other discharges. Atmospheric deposition is the source of the mercury contamination. Elevated levels of phosphorus are known to occur in the bay. Extensive water chestnut growth has also been documented.

Fish Consumption Advisories

Fish consumption in this portion of Lake Champlain is impaired by health advisories for the entire lake due to PCB and mercury contamination. The advisory recommends eating no more than one meal per month of larger lake trout (over 25 inches) or walleye (over 19 inches). The Lake Champlain Basin Program and its partners have been working to identify sources of PCBs in the Lake and remedy them. The mercury contamination is widely thought to be a result of atmospheric

deposition. The advisories for the lake were first issued prior to 1998-99. (2008-2009 NYS DOH Health Advisories)

Recreational Impacts

Impacts on other recreational uses (swimming, fishing, boating) in this portion of Lake Champlain are also of concern. The most notable issue is elevated phosphorus concentrations in excess of in-lake total phosphorus criteria established in a 1993 Water Quality Agreement between New York State, Vermont and Quebec. New York State and Vermont completed a study to measure point and nonpoint source phosphorus loads to the lake, develop a whole-lake phosphorus budget, and develop a load reduction strategy to attain the in-lake criteria. This study, the Lake Champlain Diagnostic-Feasibility Study, found phosphorus to be at or, in portions of the Lake, above the criteria (which ranges from 10-25 ug/l throughout the lake and is set at 25 ug/l in this portion of Lake Champlain) and, therefore, contributing to excessive algal and vegetative growth in the lake. In 1996, the states agreed to a phosphorus reduction strategy that included specific loading targets for various lake watershed. A joint New York-Vermont TMDL to address phosphorus loadings to the Lake was also established in 2002. Resulting phosphorus reductions are to be met using an appropriate mix on point and nonpoint source actions to be implemented in the watersheds. (DEC/DOW, Region 5 and Lake Champlain Basin Program, January 2009)

Invasive Species

Exotic and invasive plant and animal species are also an increasing threat to the lake. Water chestnut, in particular, is an issue in this portion of the lake. Water chestnut is a plant that forms dense surface mats, crowding out other plant species, disrupting habitat, and severely limiting recreational enjoyment and commercial use of the Lake in some areas. Its spread throughout the southern end of the Lake includes this entire segment. Eurasian milfoil limit also impacts uses in some Lake bays. Zebra mussels are widespread and have impacted water supplies and crowded out native mussels in many areas. Sea lamprey predation appears to be increasing after some decline following a lake-wide control program. Without further controls the Atlantic salmon and lake trout populations are likely to be significantly affected. Additionally, the presence of alewives in neighboring Lake Saint Catherine pose a threat to larger cold water species. The ability to control many of these exotics is limited, and expensive and long-term impact is relatively uncertain. (Lake Champlain Basin Program, Opportunities for Action, 2003)

Lake Champlain Basin Program

The Lake Champlain Basin Program (LCBP) is a federal, state and local initiative to restore and protect Lake Champlain and its surrounding watershed. The states of New York and Vermont, the Province of Quebec, the U.S. Environmental Protection Agency, other federal and local government agencies, and many local groups, both public and private, are partners of the LCBP. Created by the Lake Champlain Special Designation Act of 1990, the LCBP's goal is to work cooperatively to protect and enhance the environmental integrity and the social and economic benefits of the Lake Champlain Basin. The actions of the LCBP are guided by a pollution prevention, control, and restoration plan entitled "Opportunities for Action - An Evolving Plan for the Future of the Lake Champlain Basin." The Plan was first endorsed in October of 1996 by the governors of New York and Vermont and by the USEPA; it was most recently updated in 2003. The main goals of the Plan include 1) improving water quality throughout the Lake Champlain Basin, 2) protecting the Basin's living natural resources, and 3) preserving and enhancing the region's rich cultural and recreation resources. Considerable information on water quality, natural resources, protection and restoration efforts and other issues in Lake Champlain can be found at the LCBP website (http://www.lcbp.org).

Water Quality Sampling

The Long-Term Water Quality and Biological Monitoring Project for Lake Champlain has been in operation since 1992. The project is conducted by the Vermont Department of Environmental Conservation (DEC) and the New York State Department of Environmental Conservation with funding provided by the Lake Champlain Basin Program and the two states. Chemical and biological data from this effort are available for a number of lake as well as tributary site. Water quality results in this portion of the lake reveal eutrophic conditions and phosphorus levels that are typically above the in-lake criterion of 25 ug/l for this portion of the lake. (DEC/DOW, Region 5 and Lake Champlain Basin Program, January 2009)

Water Quality Management/TMDL

As noted above a joint New York-Vermont TMDL to address phosphorus loadings to the Lake was established in 2002. The TMDL outlines a strategy of both point and nonpoint source reductions in the tributary watersheds of the Lake.

(DEC/DOW, BWAM, January 2009)

Section 303(d) Listing

Lake Champlain is included on the NYS 2008 Section 303(d) List of Impaired Waters. The lake is included on Part 2b of the List as a Fish Consumption Water due to PCB contamination. This waterbody was first listed on the 1998 Section 303(d) List. Lake Champlain was also included in the 2006 Section 303(d) List of Impaired Waters due to mercury contamination, but it is not included on the 2008 List. The waterbody was delisted in 2008 due to the completion of the Northeast Regional Mercury TMDL which was approved in 2007 and provides coverage for this specific waterbody. A previous listing for Lake Champlain for phosphorus was delisted in 2004 due to completion of the Lake Champlain Phosphorus TMDL. (DEC/DOW, BWAM, January 2009)

Segment Description

This segment includes the waters of the Lake (within NYS) between the Crown Point Bridge and the Champlain Canal. The waters of this portion of Lake Champlain are Class B.

Bullpout Pond (1001-0031) NoKnownImpct

Waterbody Location Information

Revised: 03/02/2009

Water Index No: C- 93-P348
Hydro Unit Code: 02010001/230 **Str Class:** C
Waterbody Type: Lake (Eutrophic)
Waterbody Size: 12.3 Acres
Seg Description: entire lake

Drain Basin: Lake Champlain
Champlain-Lk.George
Reg/County: 5/Essex Co. (16)
Quad Map: WITHERBEE (E-26-B)

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 Bullpout 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 Bullpout Pond (P348).

Putnam Creek, Lower, and tribs (1005-0011) NoKnownImpct

Waterbody Location Information

Revised: 04/21/2009

Water Index No:	C- 96	**Drain Basin:**	Lake Champlain
Hydro Unit Code:	02010001/220 **Str Class:** C(T)		Champlain-Lk.George
Waterbody Type:	River (Med. Flow)	**Reg/County:**	5/Essex Co. (16)
Waterbody Size:	64.8 Miles	**Quad Map:**	CROWN POINT (F-27-1) ...
Seg Description:	stream and tribs from mouth to Ironville/Penfield Pond		

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 Putnam Creek in Factoryville (at Route 2) 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. (DEC/DOW, BWAM/SBU, January 2009)

NYSDEC Rotating Intensive Basin Studies (RIBS) Intensive Network monitoring of Putnam Creek in Factoryville (at Creek Road) was conducted in 1998-99. Biological (macroinvertebrate) sampling of the stream in both years revealed that non-impacted water quality was clearly indicated. The fauna was diverse and well-balanced, with all indices within the non-impacted range. Other indicators (water chemistry, etc) also indicated good water quality. (DEC/DOW, BWAR/RIBS, January 2001)

Previous Assessments
Previously, concerns were raised regarding habitat impacts in Putnam Creek due to road sanding practices in the watershed. Sand applied to roads during the winter runs off into the stream during the spring snowmelt. Once in the stream the sand 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. While such practices

remain a concern, they do not appear to affect macroinvertebrate communities at these sampling sites. (DEC/DFWMR, Region 5, 1998)

Segment Description

This segment includes the portion of the stream and all tribs from the mouth to Penfield Pond (P351a). The waters of this portion of the stream are Class C(T). Tribs to this reach, including Phelps Brook (-4), are also Class C(T). Upper Putnam Creek is listed separately.

Mud Pond (1005-0060) NoKnownImpct

Waterbody Location Information

Revised: 03/02/2009

Water Index No: C- 96- 8-P352
Hydro Unit Code: 02010001/220 **Str Class:** C(T)
Waterbody Type: Lake (Unknown Trophic)
Waterbody Size: 172.6 Acres
Seg Description: entire lake

Drain Basin: Lake Champlain
Champlain-Lk.George
Reg/County: 5/Essex Co. (16)
Quad Map: EAGLE LAKE (F-26-2)

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
Mud Pond was included in the 1992 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 Bullpout Pond was also 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 Pond (P352).

Penfield Pond (1005-0017) NoKnownImpct

Waterbody Location Information

Revised: 03/02/2009

Water Index No: C- 96-P351a
Hydro Unit Code: 02010001/220 **Str Class:** C(T)
Waterbody Type: Lake (Mesotrophic)
Waterbody Size: 5.4 Acres
Seg Description: entire lake

Drain Basin: Lake Champlain
Champlain-Lk.George
Reg/County: 5/Essex Co. (16)
Quad Map: EAGLE LAKE (F-26-2)

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
Penfield Pond was included in the 1992 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)

Segment Description
This segment includes the entire area of Penfield Pond (P351a).

Putnam/North Ponds (1005-0018) Need Verific

Waterbody Location Information

Revised: 04/28/2009

Water Index No:	C- 96-P355/P360			**Drain Basin:**	Lake Champlain
Hydro Unit Code:	02010001/220	**Str Class:**	C(T)		Champlain-Lk.George
Waterbody Type:	Lake			**Reg/County:**	5/Essex Co. (16)
Waterbody Size:	295.1 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
Aquatic Life	Threatened	Suspected

Type of Pollutant(s)

Known: - - -
Suspected: D.O./OXYGEN DEMAND
Possible: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Possible: UNKNOWN SOURCE

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 3 (Cause Identified, Source Unknown)
Lead Agency/Office: DEC/BWAM **Resolution Potential:** Medium
TMDL/303d Status: ApdxB

Further Details

Overview
Aquatic life support, particularly the fishery, in Putnam/North Ponds is thought to experience threats due to low dissolved oxygen levels. These conditions occur seasonally in deeper waters of the lake and may very well be naturally occurring.

Water Quality Sampling
Sampling of Putnam Pond during a 1999 Lake Classification and Inventory (LCI) evaluation found hypolimnetic hypoxia. While the impact of these conditions may or may not affect the fishery (in fact, they could represent natural lake conditions), they suggest at least threat to aquatic life. Putnam Pond is scheduled to be sampled in 2009 as part of the LCI program. (DEC/DOW, BWAM/RIBS, April 2009).

Monitoring of Putnam/North Ponds was also 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. Similar results were noted for a number of smaller ponds within this segment. 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)
Section 303(d) Listing
Putnam/North Ponds are included on the NYS 2008 Section 303(d) List of Impaired Waters. The lakes are included among

the waters listed in Appendix B - Waters Not Meeting Dissolved Oxygen Standards. This part of the List recognizes waterbodies where low dissolved oxygen in lake bottom waters may be the result of morphology and other natural conditions in thermally stratified lakes. However because NYS water quality standards for dissolved oxygen do not include an explicit exception for natural conditions or averaging of dissolved oxygen over lake depth, USEPA requires that the Section 303(d) List recognize such waters. (DEC/DOW, BWAM/WQAS, April 2009)

Segment Description
This segment includes the total area of Putnam/North Ponds (P355, P360).

Sherman Lake (Goosepuddle/Burris Pond) (1005-0016) NoKnownImpct

Waterbody Location Information

Revised: 03/02/2009

Water Index No:	C- 96..P351 (P351b,P351c)			**Drain Basin:**	Lake Champlain
Hydro Unit Code:	02010001/220	**Str Class:**	C(T)		Champlain-Lk.George
Waterbody Type:	Lake			**Reg/County:**	5/Essex Co. (16)
Waterbody Size:	53.1 Acres			**Quad Map:**	GRAPHITE (F-26-3)
Seg Description:	total area of three 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 Sherman 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. Similar results were noted for a number of smaller ponds within this segment. 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)

Section 303(d) Listing
Snake Pond (P350) within this segment is 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 Sherman Lake (P351), as well as smaller ponds Snake Pond (P350), Goosepuddle Pond (P351b) and Burris Pond (P351c).

Minor Lakes in Upper Putnam Creek Wshed (1005-0019) NoKnownImpct

Waterbody Location Information

Revised: 03/02/2009

Water Index No:	C- 96..P353 thru P361 (selected)	**Drain Basin:**	Lake Champlain
Hydro Unit Code:	02010001/220 **Str Class:** C(T)		Champlain-Lk.George
Waterbody Type:	Lake	**Reg/County:**	5/Essex Co. (16)
Waterbody Size:	179.8 Acres	**Quad Map:**	GRAPHITE (F-26-3)
Seg Description:	total area of selected 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 a number of 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. Data for Bear Pond (P353), Lost Pond (P354), Berrymill Pond (P356), Grizzle Ocean (P357), Clear Pond (P358) and Heart Pond (P361) revealed no indication of impacts to aquatic life support or recreational use at the time. Similar results were noted for a number of smaller ponds within this segment. 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)

Section 303(d) Listing
Mud Pond (P350) within this segment is 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 all selected/smaller lakes/ponds within the Upper Putnam Creek watershed. Lakes within this segment, including Bear Pond (P353), Cranberry Marsh Pond (P353a), Lost Pond (P354), Berrymill Pond (P356), Grizzle Ocean (P357), Clear Pond (P358) and Heart Pond (P361) as well as smaller Mud Pond (P359), are Class D.

Fivemile Run and tribs (1005-0021) MinorImpacts

Waterbody Location Information

Revised: 03/01/2009

Water Index No:	C-100			**Drain Basin:**	Lake Champlain
Hydro Unit Code:	02010001/210	**Str Class:**	C(T)*		Champlain-Lk.George
Waterbody Type:	River			**Reg/County:**	5/Essex Co. (16)
Waterbody Size:	18.1 Miles			**Quad Map:**	CROWN POINT (F-27-1)
Seg Description:	entire stream and tribs				

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

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

Type of Pollutant(s)

Known:	- - -
Suspected:	NUTRIENTS, Silt/Sediment
Possible:	Pathogens

Source(s) of Pollutant(s)

Known:	- - -
Suspected:	AGRICULTURE, STREAMBANK EROSION
Possible:	- - -

Resolution/Management Information

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

Further Details

Overview

Aquatic life support in Fivemile Run is known to experience minor impacts/threats due to nutrient enrichment and other pollutant inputs from agricultural activities and nonpoint sources in the watershed.

Water Quality Sampling

A biological (macroinvertebrate) assessment of Fivemile Run in Crown Point (at Route 49) 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 a 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 generally satisfactory. The nutrient biotic index and impact source determination indicates (elevated enrichment in the stream and fauna that is indicates nonpoint sources, as well as organic and toxic inputs. Aquatic life support is considered to be fully supported in the stream, although impacts to the communities were apparent. These results are consistent with sampling conducted in 1998. (DEC/DOW, BWAM/SBU, January 2009)

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 are primarily Class C(T) with a portion of unnamed trib (-3) designated Class AA(T).

Buck Mountain, Worcester Ponds (1005-0022) NoKnownImpct

Waterbody Location Information

Revised: 10/04/2000

Water Index No:	C-100-P364,P365			**Drain Basin:**	Lake Champlain
Hydro Unit Code:	02010001/210	**Str Class:**	C(T)		Champlain-Lk.George
Waterbody Type:	Lake			**Reg/County:**	5/Essex Co. (16)
Waterbody Size:	26.5 Acres			**Quad Map:**	CROWN POINT (F-27-1)
Seg Description:	total area of two 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 Buck Mountain and Worcester 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 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 Mountain Pond (P364) and Worcester Pond (P365).