



Indian/Otter Creek Watershed (0415030303)

Water Index Number

SL-25- 7/P1- 3 (portion 2)
 SL-25- 7/P1- 3-23
 SL-25- 7/P1- 3-25
 SL-25- 7/P1- 3-25- 1
 SL-25- 7/P1- 3-26-P14

Waterbody

Indian River, Middle, and minor tribs (0906-0005)
 Otter Creek and tribs (0906-0041)
 Pleasant Creek and minor tribs (0906-0042)
 West Creek, Upper, and tribs (0906-0043)
 Saint James Lake (0906-0044)

Category

MinorImpacts
 Need Verific
 UnAssessed
 MinorImpacts
 UnAssessed

Indian River, Middle, and minor tribs (0906-0005)

MinorImpacts

Waterbody Location Information

Revised: 01/05/2009

Water Index No: SL-25- 7/P1- 3 (portion 2) **Drain Basin:** Saint Lawrence River
Hydro Unit Code: 04150303/040 **Str Class:** C Indian River
Waterbody Type: River **Reg/County:** 6/Jefferson Co. (23)
Waterbody Size: 129.1 Miles **Quad Map:** PHILADELPHIA (E-18-1)
Seg Description: stream and select tribs, from Rivergate to Antwerp

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

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

Type of Pollutant(s)

Known: NUTRIENTS (phosphorus)
Suspected: Silt/Sediment
Possible: - - -

Source(s) of Pollutant(s)

Known: Construction
Suspected: AGRICULTURE, URBAN/STORM RUNOFF (Fort Drum Military Reserv), 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/SWCD **Resolution Potential:** Medium
TMDL/303d Status: n/a

Further Details

Overview

Aquatic life support in this reach of Indian River are known to experience minor impacts due to excessive nutrient loading thought to be from agricultural and other nonpoint sources. Silt and sediment loads may also contribute to impacts. Activities at nearby Fort Drum Military Reservation may be have impacts on the stream.

Water Quality Sampling

A biological (macroinvertebrate) assessment of the Indian River at Hall Corners (at Elm Ridge Road) was conducted in 2004 during the RIBS Biological Screening effort in the basin. Sampling results indicated slightly impacted water quality conditions. The macroinvertebrate community was dominated by filter feeding caddisflies including *Hydropsyche sparna*, *H. bronta*, *Macrostemum carolina*, and *Chimarra obscurra*. The nutrient biotic index suggested eutrophic conditions due to phosphorus. Impact source determination and nutrient biotic index indicated non-point source nutrient enrichment at the site. In spite of these minor impacts, aquatic life is considered to be fully supported in the stream. (DEC/DOW, BWAM/SBU, December 2008)

Segment Description

This segment includes the portion of the stream and selected/smaller tribs from Otter Creek (-23) in Rivergate to Old Route 26 bridge in Antwerp. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including Trout

Creek (-26) and Hunter Creek (-32), are also Class C,C(T) and D. Otter Creek (-23), Pleasant Creek (-25) and Black Creek (-30) are listed separately.

Otter Creek and tribs (0906-0041)

Need Verific

Waterbody Location Information

Revised: 01/16/2009

Water Index No:	SL-25- 7/P1- 3-23	Drain Basin:	Saint Lawrence River
Hydro Unit Code:	04150303/050	Str Class:	C
Waterbody Type:	River	Reg/County:	6/Jefferson Co. (23)
Waterbody Size:	82.1 Miles	Quad Map:	THERESA (E-17-2)
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	Possible

Type of Pollutant(s)

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

Source(s) of Pollutant(s)

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

Resolution/Management Information

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

Further Details

Overview

Aquatic life support in Otter Creek may experience impacts. Sampling is inconclusive and possible sources of impact have not been identified.

Water Quality Sampling

A biological (macroinvertebrate) assessment of Otter Creek at Theresa (at Elm Ridge Rd.) was conducted in 2004 during the RIBS Biological Screening effort in the basin. The sample was collected using a net jab due to soft bottom sediments and absence of riffle habitat. Sampling results indicated slightly impacted water quality conditions. The slight impact at this station is likely the result of poor habitat as indicated on the field sheet. Several invertebrate taxa indicative of slow moving surface waters were present including dragonflies and damselflies. However, due to the less than suitable sampling habitat, additional sampling to verify conditions are recommended. (DEC/DOW, BWAM/SBU, December 2008)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C. Tribs to this reach/segment are also Class C.

West Creek, Upper, and tribs (0906-0043)

MinorImpacts

Waterbody Location Information

Revised: 03/18/2009

Water Index No: SL-25- 7/P1- 3-25- 1
Hydro Unit Code: 04150303/040 **Str Class:** A(T)
Waterbody Type: River
Waterbody Size: 14.2 Miles
Seg Description: stream and tribs, above Evans Mills

Drain Basin: Saint Lawrence River
Indian River
Reg/County: 6/Jefferson Co. (23)
Quad Map: BLACK RIVER (E-17-3)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

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

Type of Pollutant(s)

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

Source(s) of Pollutant(s)

Known: ---
Suspected: AGRICULTURE, Construction (Fort Dumm expansion)
Possible: ---

Resolution/Management Information

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

Resolution Potential: Medium

Further Details

Overview

Aquatic life support in West Creek is thought to experience minor impacts due to nutrient loadings from agricultural and other nonpoint sources. Other sources of threat to water quality include construction and other extensive development of the watershed in support of the Fort Drum military base expansion.

Water Quality Sampling

A biological (macroinvertebrate) assessment of West Creek at Evans Mills (at Noble Road) was conducted in 2004 during the RIBS Biological Screening effort in the basin. Sampling results indicated slightly impacted water quality conditions. The macroinvertebrate fauna was dominated by both facultative and tolerant organisms including scuds of the genus *Gammarus sp.*. In spite of these minor impacts, aquatic life is considered to be fully supported in the stream. (DEC/DOW, BWAM/SBU, December 2008)

Source Assessment

The nearby Fort Drum military base has undergone considerable expansion over the past number of years. Residential and other development to support the increasing number of military families at the base is occurring in the watershed, and along the route 11 corridor. This corridor lies along this stream and the impact of construction and other development activities are likely to impact water quality in the creek. (DEC/DOW, Region 6, March 2009)

Segment Description

This segment includes the portion of the stream and all tribs above the Route 11 bridge above Evans Mills. The waters of the stream are Class A(T). Tribs to this reach/segment are also Class C.