



Genesee/Van Campen Creek Watershed (0413000205)

Water Index Number	Waterbody Segment	Category
Ont 117 (portion 9)	Genesee River, Upper, Main Stem (0403-0022)	No Known Impacts
Ont 117-156 thru 183	Minor Tributaries to Genesee River (0403-0031)	Needs Verification
Ont 117-164	Van Campen Creek and minor tribs (0403-0025)	Minor Impacts
Ont 117-164-10	South Branch Van Campen Creek and tribs (0403-0068)	No Known Impacts
Ont 117-167	Phillips Creek and tribs (0403-0069)	No Known Impacts
Ont 117-169-P159a,P159b	Amity Lake, Saunders Pond (0403-0054)	Impaired
Ont 117-175	Knight Creek and tribs (0403-0035)	No Known Impacts
Ont 117-176	Vandermark Creek and tribs (0403-0011)	No Known Impacts
Ont 117-176-10-P161b	Foster Lake (0403-0055)	Impaired
Ont 117-180	Brimmer Brook and tribs (0403-0070)	Minor Impacts

Genesee River, Upper, Main Stem (0403-0022)

No Known Impacts

Waterbody Location Information

Revised: 10/8/2015

Water Index No:	Ont 117 (portion 9)	Water Class:	C
Hydro Unit Code:	Van Campen Creek-Genesee River (0413000205)	Drainage Basin:	Genesee River
Water Type/Size:	River/Stream 19.4 Miles	Reg/County:	9/Allegany (2)
Description:	from Angelica to Wellsville		

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Fully Supported	Suspected
Aquatic Life	Fully Supported	Known
Fish Consumption	Fully Supported	Unconfirmed

Conditions Evaluated	Severity
Habitat/Hydrology	Unassessed
Aesthetics	Unassessed

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known: - - -
Suspected: - - -
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Unconfirmed: - - -

Management Information

Management Status: No Action Needed
Lead Agency/Office: ext/WQCC
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

This portion of the Genesee River is assessed as having no known impacts; all evaluated uses are considered to be fully supported.

Use Assessment

This waterbody segment is a Class C waterbody, suitable for general recreation use and support of aquatic life, but not as water supply or for public bathing.

Aquatic life is considered to be fully supported based on biological sampling that shows non-impacted conditions. This sampling can also be used to infer that there are no significant impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. Additional bacteriological sampling is also needed to more fully evaluate other recreational and swimming use. (DEC/DOW, BWAM/SBU, December 2014)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH

Health Advisories and DEC/DOW, BWAM, January 2014)

Water Quality Information

A biological (macroinvertebrate) assessment of the Genesee River in Scio (at Knight Creek Road) was conducted as part of the RIBS biological screening effort in 2014 and 2009, and in Belmont (below Belmont STP) in 2009. Sampling results indicated non-impacted conditions in Scio and slight but nearly non-impacted conditions in Belmont. Taken together these results reflect very good water quality. Such samples are dominated by clean-water species and are most similar to a natural community with minimal human impacts. Aquatic life community is fully supported. (DEC/DOW, BWAM/SBU, January 2015)

Previous sampling as part of NYSDEC Rotating Intensive Basin Studies (RIBS) monitoring of the Genesee River at an Intensive Network site located in Scio (at Knight Creek Road) was sampled in 2000. The habitat was good, and the macroinvertebrate community was assessed as slightly impacted, indicative of good, though not pristine, water quality. No fish advisories exist, and the fish community was judged to be abundant and diverse. While lead and iron were elevated in the water column, and arsenic was considered to be a parameter of concern in the bottom sediments, no contaminants were found to be elevated over background levels in invertebrate tissues. Overall water quality at this site is good and considered to be fully supporting of designated uses. (DEC/DOW, BWAR/SWAS, January 2003)

Source Assessment

There are no apparent sources of pollutants to the waterbody. However there is considerable agricultural activity in the watershed and efforts to protect water quality are appropriate. Significant streambank erosion and resulting high sediment loading and turbidity have been noted in this reach of the Genesee River in the past. However much of the sediment loading is considered to be natural, as the river flows through an alluvial plain with highly erodible soils.

Management Actions

No specific management actions have been identified for the waterbody.

Section 303(d) Listing

This portion of the Genesee River is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There are no impacts/impairments that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment extends from Angelica Creek (-155) near Angelica to Dyke Creek (-184) in Wellsville. The river is Class C from Angelica to the dam in Belmont, and Class C(T) from there to Wellsville.

Minor Tributaries to Genesee River (0403-0031)

Needs Verification

Waterbody Location Information

Revised: 08/01/2016

Water Index No: Ont 117-156 thru 183
Hydro Unit Code: Van Campen Creek-Genesee River (0413000205)
Water Type/Size: River/Stream 108 Miles
Description: total length of selected/smaller tribs to Genesee River

Water Class: C
Drainage Basin: Genesee River
Reg/County: 9/Allegany (2)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Fully Supported	Suspected
Aquatic Life	Stressed	Unconfirmed
Fish Consumption	Fully Supported	Unconfirmed

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Unknown

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known: - - -
Suspected: Unknown Pollutants (biological impacts)
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: Unknown Sources,
Unconfirmed: Agriculture

Management Information

Management Status: Assessment/Reassessment Scheduled
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

These tribs of the Genesee River are assessed as needing verification of minor impacts due to aquatic life that may be impacted. This assessment is based on sampling conducted at one trib where sampling from two separate years found different results. Additionally the trib is thought to be representative of the larger waterbody segment but water quality conditions have not been verified in all tribs within the segment.

Use Assessment

This waterbody segment is a Class C waterbody, suitable for general recreation use and support of aquatic life, but not as water supply or for public bathing.

Aquatic life is evaluated as stressed but unconfirmed based on biological sampling in two different years that shows slightly to non-impacted conditions. This sampling can also be used to infer that there are no significant impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. Additional bacteriological sampling is also needed to more fully evaluate other recreational and swimming use. (DEC/DOW, BWAM/SBU, December 2015)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health Advisories and DEC/DOW, BWAM, January 2014)

Water Quality Information

A biological (macroinvertebrate) assessment of Plumb Bottom Creek in Amity (at Saunders Hill Road) was conducted as part of the RIBS biological screening effort in 2014 and 2009. Sampling results indicated clearly non-impacted conditions and very good water quality in 2009, but the 2014 sample revealed slightly impacted conditions. These most recent results reflect fair to good water quality, with the macroinvertebrate community altered from what is expected under natural conditions and indications of nonpoint sources. Some expected sensitive species are not present and overall macroinvertebrate species richness is lower than expected. Some changes in community composition have occurred due to replacement of sensitive ubiquitous taxa by more tolerant taxa, but overall there is still balanced distribution of all expected taxa. In spite of these minor impacts and conflicting results, aquatic life is considered to be supported. Aquatic life community is fully supported. (DEC/DOW, BWAM/SBU, January 2016)

Source Assessment

Specific sources of pollutants to the waterbody have not been identified. However there is considerable agricultural activity in the watershed and represent a possible source.

Management Actions

No specific management actions have been identified for the waterbody. Additional follow-up monitoring as well as monitoring on other tribs in this segment are recommended.

Section 303(d) Listing

This tribs segment of the Genesee River is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There are no impacts/impairments that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the total length of selected/smaller tribs to the Genesee River from Angelica Creek (-155) to Dyke Creek (-184), including Plumb Bottom Brook (-169), Long Gore Creek (-171), Gordon Brook (-173), Dry Creek (-174), Crowner Brook (-182) are primarily Class C; some waters are Class C(T). Phillips Creek (-167), Knight Creek (-175), Vandermark Creek (-176) and Brimmer Brook (-180) are listed separately.

Van Campen Creek and minor tribs (0403-0025)

Minor Impacts

Waterbody Location Information

Revised: 10/8/2015

Water Index No: Ont 117-164
Hydro Unit Code: Van Campen Creek-Genesee River (0413000205)
Water Type/Size: River/Stream 62.1 Miles
Description: entire stream and selected/smaller tribs

Water Class: B(T)
Drainage Basin: Genesee River
Reg/County: 9/Allegany (2)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Stressed	Suspected
Aquatic Life	Stressed	Known
Fish Consumption	Fully Supported	Unconfirmed

Conditions Evaluated

Habitat/Hydrology	Fair
Aesthetics	Unknown

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known: - - -
Suspected: Nutrients (phosphorus)
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: Agriculture
Unconfirmed: Onsite/Septic Systems

Management Information

Management Status: Restoration/Protection Strategy Needed
Lead Agency/Office: ext/WQCC
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

Van Campen Creek is assessed as having minor impacts due to aquatic life uses that are known to be stressed by nutrient from agricultural sources.

Use Assessment

This waterbody segment is a Class C waterbody, suitable for general recreation use and support of aquatic life, but not as water supply or for public bathing.

Aquatic life is evaluated as supported but stressed based on biological sampling that shows slight impacts. This sampling can also be used to infer that there may be minor impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. (DEC, DOW, BWAM, July 2014)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health Advisories and DEC/DOW, BWAM, January 2014)

Water Quality Information

A biological (macroinvertebrate) assessment of Van Campen Creek in Belvidere (at Route 19) was conducted as part of the RIBS biological screening/sampling effort in 2014 and 2010. Sampling results reflect fair water quality, with the macroinvertebrate community altered from what is expected under natural conditions and indications of nonpoint source nutrient inputs and possibly pesticides. Some expected sensitive species are not present and overall macroinvertebrate species richness is lower than expected. Some changes in community composition have occurred due to replacement of sensitive ubiquitous taxa by more tolerant taxa, but overall there is still balanced distribution of all expected taxa. In spite of these minor impacts, aquatic life is considered to be supported. This evaluation is consistent with results from previous sampling at the site conducted in 1990. (DEC/DOW, BWAM/SBU, January 2015)

Habitat at the site is somewhat altered by human activity, slightly degrading the stream and surrounding riparian buffer. However the site is still considered to have suitable habitat for most organisms. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

Based on the biologic community composition, surrounding land use and other knowledge of the waterbody, the most likely source of nutrients to the waterbody is nonpoint source agricultural activity.

Management Actions

No specific management actions have been identified for the waterbody.

Section 303(d) Listing

Van Campen Creek is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There are no impacts/impairments that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the entire stream and selected/smaller tribs. The waters of the stream and tribs of this segment, including Moss Creek (-8) and North Branch (-9) are Class C. South Branch (-10) is listed separately.

South Br Van Campen Creek and tribs (0403-0068) No Known Impacts

Waterbody Location Information

Revised: 08/01/2016

Water Index No: Ont 117-164-10
Hydro Unit Code: Van Campen Creek-Genesee River (0413000205)
Water Type/Size: River/Stream 38.1 Miles
Description: entire stream and tribs

Water Class: C
Drainage Basin: Genesee River
Reg/County: 9/Allegany (2)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Fully Supported	Suspected
Aquatic Life	Fully Supported	Suspected
Fish Consumption	Fully Supported	Unconfirmed

Conditions Evaluated

Habitat/Hydrology	Good
Aesthetics	Unknown

Type of Pollutant(s)

(CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known:	---
Suspected:	---
Unconfirmed:	---

Source(s) of Pollutant(s)

Known:	---
Suspected:	---
Unconfirmed:	---

Management Information

Management Status: Assessment/Reassessment Scheduled
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

South Branch Van Campen Creek is assessed as having no known impacts; all evaluated uses are considered to be fully supported. Although the overall assessment of the stream is non-impacted, previous biological sampling in one location found significant impacts. Additional sampling at this one location (in Nile) is recommended.

Use Assessment

South Branch Van Campen Creek is a Class C waterbody, suitable for general recreation use and support of aquatic life, but not as a water supply or for public bathing.

Aquatic life is considered to be fully supported based on citizen conducted biological sampling through the NYSDEC Water Assessment by Volunteer Monitors (WAVE) Program that confirms previous NYSDEC sampling showing non-impacted conditions. This sampling can also be used to infer that there are no significant impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. Sampling at an upstream location found some impacts that deserve follow-up, but the non-impacted downstream site is considered to be more representative of conditions in the segment. (DEC/DOW, BWAM/SBU, December 2014)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health Advisories and DEC/DOW, BWAM, January 2014)

Water Quality Information

A biological (macroinvertebrate) assessment of South Branch Van Campen Creek in Friendship was conducted in 2015 as part of NYSDEC's citizen science stream monitoring program, WAVE. The macroinvertebrate community was found to be non-impacted and the waterbody was evaluated as fully supporting of aquatic life. These results were consistent with earlier NYSDEC sampling in Friendship (at Route 275) conducted in 1999 that indicated non-impacted conditions and very good water quality. Such samples are dominated by clean-water species and are most similar to a natural community with minimal human impacts. Sampling in 2009 at a site in Nile (at Time Square) found moderately impacted (poor) water quality. Though the Friendship site is considered to be more representative of the overall segment, additional sampling to further investigate conditions at the Nile site is recommended. (DEC/DOW, BWAM/SBU and BWAM/WAVE, July 2016)

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody. Additional sampling to evaluate conditions at an upstream site is recommended. (DEC/DOW, BWAM, December 2014)

Section 303(d) Listing

South Branch Van Campen Creek is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There appear to be insufficient information to justify a listing at this time. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C from the mouth to unnamed trib (-8), and Class C(T) for the remainder of the reach. Tribs to this reach/segment are primarily Class C.

Phillips Creek and tribs (0403-0069)

No Known Impacts

Waterbody Location Information

Revised: 10/8/2015

Water Index No: Ont 117-167
Hydro Unit Code: Van Campen Creek-Genesee River (0413000205)
Water Type/Size: River/Stream 59.3 Miles
Description: entire stream and tribs

Water Class: C
Drainage Basin: Genesee River
Reg/County: 9/Allegany (2)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Fully Supported	Suspected
Aquatic Life	Fully Supported	Known
Fish Consumption	Fully Supported	Unconfirmed

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Unknown

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known: - - -
Suspected: - - -
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Unconfirmed: - - -

Management Information

Management Status: No Action Needed
Lead Agency/Office: ext/WQCC
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

Phillips Creek is assessed as having no known impacts; all evaluated uses are considered to be fully supported.

Use Assessment

This waterbody segment is a Class C waterbody, suitable for general recreation use and support of aquatic life, but not as water supply or for public bathing.

Aquatic life is considered to be fully supported based on biological sampling that shows non-impacted conditions. This sampling can also be used to infer that there are no significant impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. Additional bacteriological sampling is also needed to more fully evaluate other recreational and swimming use. (DEC/DOW, BWAM/SBU, December 2014)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health Advisories and DEC/DOW, BWAM, January 2014)

Water Quality Information

A biological (macroinvertebrate) assessment of Phillips Creek in Belmont (at Greenwich Street) was conducted as part of the RIBS monitoring effort in 2009 and 2010. Sampling results indicated non-impacted conditions and reflect very good water quality. Such samples are dominated by clean-water species and are most similar to a natural community with minimal human impacts. Aquatic life community is fully supported. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

There are no apparent sources of pollutants to the waterbody. However there is considerable agricultural activity in the watershed and efforts to protect water quality are appropriate.

Management Actions

No specific management actions have been identified for the waterbody.

Section 303(d) Listing

Phillips Creek is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There are no impacts/impairments that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream and its tribs are Class C.

Amity Lake, Saunders Pond (0403-0054)

Impaired

Waterbody Location Information

Revised: 10/28/2015

Water Index No: Ont 117-169-P159a,P159b
Hydro Unit Code: Van Campen Creek-Genesee River (0413000205)
Water Type/Size: Lake/Reservoir 33 Acres
Description: total area of both lakes

Water Class: C
Drainage Basin: Genesee River
Reg/County: 9/Allegany (2)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Impaired	Known
Aquatic Life	Fully Supported	Suspected
Fish Consumption	Fully Supported	Unconfirmed

Conditions Evaluated

Habitat/Hydrology	Good
Aesthetics	Good

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known: NUTRIENTS (phosphorus)
Suspected: Low D.O./Oxygen Demand
Unconfirmed:

Source(s) of Pollutant(s)

Known:
Suspected: UNKNOWN SOURCE
Unconfirmed: On-Site/Septic Syst

Management Information

Management Status: Verification of Source Needed
Lead Agency/Office: DOW/Reg9
IR/305(b) Code: Impaired Water Requiring a TMDL (IR Category 5)

Further Details

Overview

Amity Lake, Saunders Pond is assessed as an impaired waterbody due to general recreation uses that are known to be impaired by nutrients that contribute to eutrophic conditions. No specific sources of pollutants have been identified.

Use Assessment

Both Amity Lake and Saunders Pond are both Class C waterbodies, suitable for general recreation use and support of aquatic life, but not as a water supply or for a public bathing beach.

Recreation use is considered to be impaired due to elevated levels of phosphorus, resulting in excessive algal growth. Water quality indicators suggest a eutrophic or highly productive lake, although the lake clarity is somewhat better than expected and overall recreation assessment of the lake was typically cited as either "excellent" or only "slightly" impacted for most uses. There are no known impact to the warmwater fishery in this lake, although depressed deep water oxygen levels were noted.

Fish Consumption use is considered to be unassessed. There are no health advisories limiting the consumption of fish from this waterbody (beyond the general advice for all waters). However due to the presence of impacts/contaminants in the stream and the uncertainty as to whether the lack of a waterbody-specific health advisory is based on actual sampling, fish consumption use is noted as unassessed, rather than fully supported but unconfirmed. (NYS DOH Health Advisories and DEC/DOW, BWAM, December 2014)

Water Quality Information

Water quality sampling of Amity Lake has been conducted through the NYSDEC Lake Classification and Inventory (LCI) in 2009-10. Results of this sampling indicate the lake is best characterized as eutrophic, or highly productive. Chlorophyll/algal levels typically exceed criteria corresponding to impaired/impacted recreational uses, while phosphorus concentrations routinely exceed assessment criteria typical of eutrophic lakes. Lake clarity measurements indicate water transparency consistently meets the recommended minimum criteria for swimming beaches. Readings of pH typically fall within the range established in state water quality standards for protection of aquatic life. Assessments have indicated that aquatic plants may impact recreational uses. Aquatic plants are dominated by native species; one exotic (curly-leaf pondweed) was also noted. A resident indicated that grass carp had been stocked in the lake to address excessive plant growth. (DEC/DOW, BWAM/LCI, May 2015)

Source Assessment

Specific sources of pollutants to the waterbody have not been identified. The lake watershed is almost entirely forested, with wooded trails and several campsites surrounding the lake. (DEC/DOW, BWAM/LCI, May 2015)

Management Actions

No specific management actions have been identified for the waterbody. Foster Lake is a man-made lake resulting from an earthen dam constructed in the 1960s. Saunders Pond lies just upstream on Amity Lake. The watershed is largely forested with some agricultural use. Residential properties are located along the lakeshore. (DEC/DOW, BWAM/LCI, May 2015)

Section 303(d) Listing

The Amity Lake, Saunders Pond segment is included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. The waterbody is included on Part 1 of the List as an impaired waterbody requiring development of a TMDL for phosphorus. This waterbody was first included on the 2014 List. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the total area of both Amity Lake (P159a) and Saunders Pond (P159b).

Knight Creek and tribs (0403-0035)

No Known Impacts

Waterbody Location Information

Revised: 08/01/2016

Water Index No: Ont 117-175
Hydro Unit Code: Van Campen Creek-Genesee River (0413000205)
Water Type/Size: River/Stream 33.4 Miles
Description: entire stream and tribs

Water Class: C
Drainage Basin: Genesee River
Reg/County: 9/Allegany (2)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Fully Supported	Suspected
Aquatic Life	Fully Supported	Known
Fish Consumption	Fully Supported	Unconfirmed

Conditions Evaluated

Habitat/Hydrology	Unknown
Aesthetics	Unknown

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known: - - -
Suspected: - - -
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: - - -
Unconfirmed: - - -

Management Information

Management Status: No Action Needed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

Knight Creek is assessed as having no known impacts. The creek was previously assessed as needing verification of possible impacts/impairments, but subsequent sampling found water quality to be fully supporting of all evaluated uses.

Use Assessment

Knight Creek is a Class C waterbody, suitable for general recreation use and support of aquatic life, but not as a water supply or for public bathing.

Aquatic life is considered to be fully supported based on most recent biological sampling that shows non-impacted conditions. This sampling can also be used to infer that there are no significant impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. (DEC/DOW, BWAM/SBU, December 2015)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH

Health Advisories and DEC/DOW, BWAM, January 2014)

Water Quality Information

A biological (macroinvertebrate) assessment of Knight Creek in Scio (at Knight Creek/Black River Road) was conducted as part of the RIBS monitoring effort in 2014 and 2009-10. The most recent sampling results (2014) indicated non-impacted conditions, while 2010 results were just outside the non-impacted range. Both samples reflect very good water quality and are dominated by clean-water species and are most similar to a natural community with minimal human impacts. Aquatic life community is fully supported. Sampling at this same site found moderate impacts in 2009, but these do not appear to be reflective of current conditions. Sampling results at an additional site below Allentown in 2009 found slightly impacted conditions. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified or deemed necessary for the waterbody. Additional sampling to verify the level of impact in this waterbody segment is recommended. (DEC/DOW, BWAM, December 2014)

Section 303(d) Listing

Knight Creek is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. However this determination should be reviewed, pending the results of additional sampling to verify any impact or impairment. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream and its tribs, including Snowball Hollow Creek (-1) are Class C.

Vandermark Creek and tribs (0403-0011)

No Known Impacts

Waterbody Location Information

Revised: 10/8/2015

Water Index No: Ont 117-176
Hydro Unit Code: Van Campen Creek-Genesee River (0413000205)
Water Type/Size: River/Stream 46 Miles
Description: entire stream and tribs

Water Class: C(TS)
Drainage Basin: Genesee River
Reg/County: 9/Allegany (2)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Fully Supported	Suspected
Aquatic Life	Fully Supported	Known
Fish Consumption	Fully Supported	Unconfirmed

Conditions Evaluated

Habitat/Hydrology	Good
Aesthetics	Unknown

Type of Pollutant(s)

(CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known:	---
Suspected:	---
Unconfirmed:	---

Source(s) of Pollutant(s)

Known:	---
Suspected:	---
Unconfirmed:	---

Management Information

Management Status: No Action Needed
Lead Agency/Office: ext/WQCC
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

Vandermark Creek is assessed as having no known impacts; all evaluated uses are considered to be fully supported.

Use Assessment

This waterbody segment is a Class C waterbody, suitable for general recreation use and support of aquatic life, but not as water supply or for public bathing.

Aquatic life is considered to be fully supported based on biological sampling that shows non-impacted conditions. The upper stream is a very productive fishery. The stream is stocked, but the stream also supports a wild trout population as well. This sampling can also be used to infer that there are no significant impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. Additional bacteriological sampling is also needed to more fully evaluate other recreational and swimming use. (DEC/DOW, BWAM/SBU, December 2014)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH

Health Advisories and DEC/DOW, BWAM, January 2014)

Water Quality Information

A biological (macroinvertebrate) assessment of Vandermark Creek in Scio (at County Route 10) was conducted as part of the RIBS monitoring effort in 2009 and 2010. Sampling results indicated clearly non-impacted conditions and reflect very good water quality. Such samples are dominated by clean-water species and are most similar to a natural community with minimal human impacts. Aquatic life community is fully supported. Assessment of instream and riparian habitat reflect conditions minimally influenced by human disturbance. Habitat should not be limiting to the survival of aquatic life. Sampling of an unnamed trib in Alfred reflected poorer water quality, but this sampling reflects very dry conditions and is not considered to be representative of the larger waterbody. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

There are no apparent sources of pollutants to the waterbody. However there is considerable agricultural activity in the watershed and efforts to protect water quality are appropriate.

Management Actions

No specific management actions have been identified for the waterbody.

Section 303(d) Listing

Vandermark Creek is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There are no impacts/impairments that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream and its tribs, including Wahl Brook (-1) are Class C(TS).

Foster Lake (0403-0055)

Impaired

Waterbody Location Information

Revised: 10/8/2015

Water Index No: Ont 117-176-10-P161b
Hydro Unit Code: Van Campen Creek-Genesee River (0413000205)
Water Type/Size: Lake/Reservoir 26.9 Acres
Description: entire lake

Water Class: C
Drainage Basin: Genesee River
Reg/County: 9/Allegany (2)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Impaired	Known
Aquatic Life	Fully Supported	Suspected
Fish Consumption	Fully Supported	Unconfirmed

Conditions Evaluated

Habitat/Hydrology	Good
Aesthetics	Good

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known: PATHOGENS, Nutrients (phosphorus)
Suspected: - - -
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: - - -
Suspected: UNKNOWN SOURCE
Unconfirmed: - - -

Management Information

Management Status: Verification of Source Needed
Lead Agency/Office: DOW/Reg9
IR/305(b) Code: Impaired Water Requiring a TMDL (IR Category 5)

Further Details

Overview

Foster Lake is assessed as an impaired waterbody due to general recreation uses that are known to be impaired by pathogens from unknown sources. Nutrients may also be contributing to eutrophication and limited clarity that affects recreation.

Use Assessment

Foster Lake is a Class C waterbody, suitable for general recreation use and support of aquatic life, but not as a water supply or for a public bathing beach.

Recreation use is considered to be impaired due to periodic closures of a public beach. These closures are the result of elevated pathogen indicator levels. Other water quality indicators suggest a eutrophic or highly productive lake, although the overall recreation assessment of the lake was typically cited as "excellent for most uses." There are no known impact to the warmwater fishery in this lake.

Fish Consumption use is considered to be unassessed. There are no health advisories limiting the consumption of fish from this waterbody (beyond the general advice for all waters). However due to the presence of impacts/contaminants in the stream and the uncertainty as to whether the lack of a waterbody-specific health advisory is based on actual sampling, fish consumption use is noted as unassessed, rather than fully supported but unconfirmed. (NYS DOH Health Advisories and DEC/DOW, BWAM, December 2014)

Water Quality Information

Water quality sampling of Foster Lake has been conducted through the NYSDEC Lake Classification and Inventory (LCI) in 2009-10. Results of this sampling indicate the lake is best characterized as eutrophic, or highly productive. Chlorophyll/algal levels typically exceed criteria corresponding to impaired/impacted recreational uses, while phosphorus concentrations are slightly elevated, typical of mesoeutrophic lakes. Lake clarity measurements indicate water transparency consistently meets the recommended minimum criteria for swimming beaches. Readings of pH typically fall within the range established in state water quality standards for protection of aquatic life. Assessments have indicate that aquatic plants rarely grow to the lake surface and have not been cited as impacting recreational uses. Aquatic plants are dominated by native species; one exotic (brittle naiad) was also found. (DEC/DOW, BWAM/LCI, May 2015)

Source Assessment

Specific sources of pollutants to the waterbody have not been identified. The lake watershed is almost entirely forested, with wooded trails and several campsites surrounding the lake. (DEC/DOW, BWAM/LCI, May 2015)

Management Actions

No specific management actions have been identified for the waterbody. Foster Lake is a man-made lake that was acquired by Alfred University in 2002; the lake and surrounding land is managed by the university. Currently, students and community members use the lake for swimming from a small beach, as well as boating and fishing. (DEC/DOW, BWAM/LCI, May 2015)

Section 303(d) Listing

Foster Lake is included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. The waterbody is included on Part 3b of the List as an impaired waterbody where TMDL development is deferred pending verification of sources. This waterbody was first included on the 2012 List in Part 1, but moved to Part 3b in 2016. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the total area of the entire lake.

Brimmer Brook and tribs (0403-0070)

Minor Impacts

Waterbody Location Information

Revised: 10/8/2015

Water Index No:	Ont 117-180	Water Class:	C
Hydro Unit Code:	Van Campen Creek-Genesee River (0413000205)	Drainage Basin:	Genesee River
Water Type/Size:	River/Stream 12 Miles	Reg/County:	9/Allegany (2)
Description:	entire stream and tribs		

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Stressed	Suspected
Aquatic Life	Stressed	Known
Fish Consumption	Fully Supported	Unconfirmed
Conditions Evaluated		
Habitat/Hydrology	Fair	
Aesthetics	Unknown	

Type of Pollutant(s) (CAPS indicate Major Pollutants/Sources that contribute to an Impaired/Precluded Uses)

Known: - - -
 Suspected: Unknown Pollutants (biological impacts)
 Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: - - -
 Suspected: Unknown Source
 Unconfirmed: - - -

Management Information

Management Status: Verification of Pollutant/Cause Needed
Lead Agency/Office: ext/WQCC
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview

Brimmer Brook is assessed as having minor impacts due to aquatic life uses that are known to be stressed. No specific pollutants or sources have been identified.

Use Assessment

This waterbody segment is a Class C waterbody, suitable for general recreation use and support of aquatic life, but not as water supply or for public bathing.

Aquatic life is evaluated as supported but stressed based on biological sampling that shows slight impacts. This sampling can also be used to infer that there may be minor impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. (DEC, DOW, BWAM, July 2014)

There are no health advisories in place limiting the consumption of fish from this waterbody (beyond the general advice for all waters). Fish consumption is considered to be fully supported based on the absence of any waterbody-specific advisory, but is noted as unconfirmed since routine monitoring of contaminants in fish is limited. (NYS DOH Health Advisories and DEC/DOW, BWAM, January 2014)

Water Quality Information

A biological (macroinvertebrate) assessment of Brimmer Brook in Wellsville (at Route 419) was conducted as part of the RIBS biological screening effort in 2009. Sampling results reflect fair water quality, with the macroinvertebrate community altered from what is expected under natural conditions and indications of nonpoint source nutrient inputs and possibly pesticides. Some expected sensitive species are not present and overall macroinvertebrate species richness is lower than expected. Some changes in community composition have occurred due to replacement of sensitive ubiquitous taxa by more tolerant taxa, but overall there is still balanced distribution of all expected taxa. In spite of these minor impacts, aquatic life is considered to be supported. This evaluation is consistent with results from previous sampling at the site conducted in 1990. (DEC/DOW, BWAM/SBU, January 2015)

Habitat at the site is somewhat altered by human activity, degrading the stream and surrounding riparian buffer. However as measured by the macroinvertebrates community, the site is fully supported indicating water quality is sufficiently high to overcome less than ideal habitat. The habitat conditions may influence the fishery. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

Specific sources of pollutants to the waterbody have not been identified.

Management Actions

No specific management actions have been identified for the waterbody.

Section 303(d) Listing

Brimmer Brook is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. There are no impacts/impairments that would justify the listing of this waterbody. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C from the mouth to just below unnamed trib (-1), Class C(T) from there to unnamed trib (-4) and Class C for the remainder of the reach. Tribs to this reach are Class C.