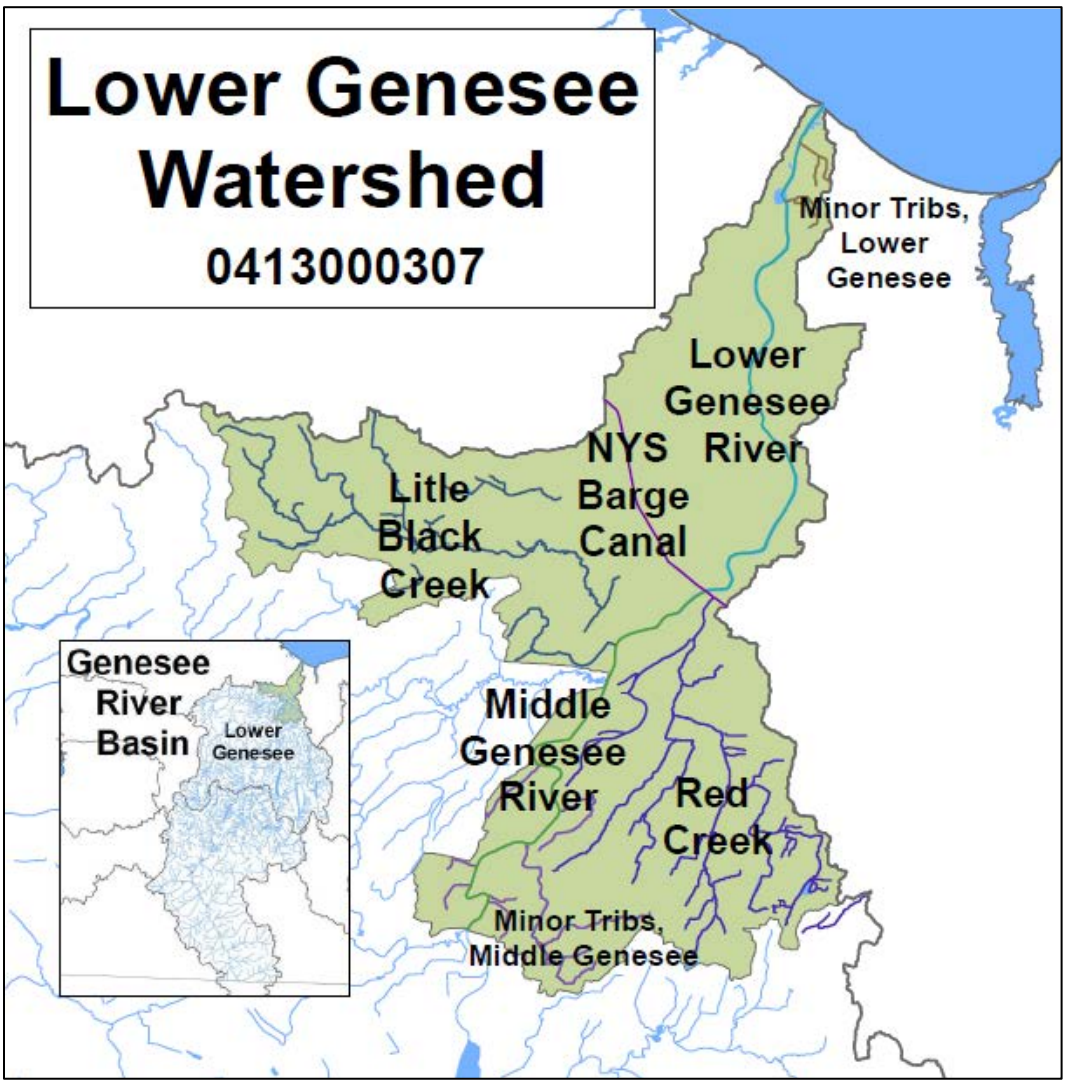

Lower Genesee Watershed
(0413000307)

Water Index Number	Waterbody Segment	Category
Ont 117 (portion 1)	Genesee River, Lower, Main Stem (0401-0001)	Impaired
Ont 117 (portion 2)	Genesee River, Middle, Main Stem (0401-0003)	Minor Impacts
Ont 117- 1 thru 7	Minor Tribs to Lower Genesee River (0401-0013)	Unassessed
NYS Barge Canal (portion 3)	NYS Barge Canal (portion 3) (0401-0012)	Unassessed
Ont 117- 8 thru 24 (selected)	Minor Tribs to Middle Genesee River (0403-0028)	Unassessed
Ont 117- 14	Red Creek and tribs (0402-0024)	Minor Impacts
Ont 117- 18	Little Black Creek, Lower, and tribs (0402-0047)	Impaired

Genesee River, Lower, Main Stem (0401-0001) Impaired

Waterbody Location Information

Revised: 11/30/2016

Water Index No: Ont 117 (portion 1)
Hydro Unit Code: Genesee River (0413000307)
Water Type/Size: River/Stream 11.7 Miles
Description: from mouth to NYS Barge Canal

Water Class: B
Drainage Basin: Genesee River
Reg/County: 8/Monroe (28)

Water Quality Problem/Issue Information

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

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

Known: PRIORITY ORGANICS (PCBs), PRIORITY ORGANICS (dioxin), PESTICIDES (mirex) , Nutrients (phosphorus), Silt/Sediment
Suspected: PATHOGENS
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: Urban/Storm Runoff
Suspected: TOXIC/CONTAMINATED SEDIMENT, Municipal Discharges, Other Non-Permitted Sanitary Disch, Industrial Discharges
Unconfirmed: - - -

Management Information

Management Status: Restoration/Protection Strategy Needed
Lead Agency/Office: DOW/Reg8
IR/305(b) Code: Impaired Water Requiring a TMDL (IR Category 5)

Further Details

Overview

This portion of the Genesee River is assessed as an impaired waterbody due to fish consumption that is known to be impaired by priority organics (PCBs, dioxin) and pesticides (mirex) in contaminated sediment, the result of past/historic discharges. Recreational uses are also thought to be impaired by pathogen, however additional monitoring in necessary to verify this impairment. Public bathing and other recreational uses, as well as aquatic life are considered to experience minor impacts due to various pollutants from urban/storm runoff and other point and nonpoint sources in the highly-urbanized metropolitan Rochester area. Water quality at the mouth of the Genesee River is also impacted by elevated nutrient and silt/sediment loads the originate from agricultural and other nonpoint sources throughout the large rural watershed.

Use Assessment

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

Fish consumption in the Lower Genesee River is impaired due to a NYS DOH health advisory that recommends eating no carp or channel catfish, and no more than one meal per month ofWhite sucker, white perch, larger lake trout (greater than 25 inches) or larger brown trout (greater than 20 inches) because of elevated PCBs, dioxin and mirex levels. The source of this contamination is considered to be contaminated sediment, the result of past industrial activity/discharges and pesticide use. The advisory for this waterbody was first issued prior to 1998-99. (NYS DOH Health Advisories and DEC/FWMR, Habitat, January 2014)

Aquatic life is evaluated as supported but stressed based on biological sampling that shows slight impacts and sampling data showing other water quality concerns. This sampling can also be used to infer that there may be other minor impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. Additional (bacteriological) sampling is needed to more fully evaluate public bathing and other recreational uses. (DEC, DOW, BWAM, July 2014)

Water Quality Information

Biological (macroinvertebrate) assessments of the Lower Genesee in the Rochester Area were most recently conducted at various sites (below the Barge Canal, at Route 104, at Boxart Street) as part of the RIBS monitoring effort in 2014 and 2009. Sampling results reflect fair (near the mouth) to good (upstream near the canal) water quality, with the macroinvertebrate community altered from what is expected under natural conditions. 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. (DEC/DOW, BWAM/SBU, January 2015)

NYSDEC Rotating Intensive Basin Studies (RIBS) Routine Network monitoring of the Genesee River in Rochester (at Genesee Docks/Boxart Street) is conducted every year. The most recent overall assessments at this site are from 1999 and 2000. Macroinvertebrate assessment showed slight impact to the invertebrate community, and fish communities are considered to be adequate. Concerns were raised at the time regarding elevated levels of metals and PAHs in biologic tissue samples and sediment samples; water column parameters of concern were limited to iron and aluminum. Toxicity testing showed significant reproductive impairment to the test organisms in one of two tests conducted. Two other locations upstream in this reach were sampled by the Stream Biomonitoring Unit in 1999; based on the resident invertebrates, water quality was determined to be slightly impacted at one location (at the Ridge Road bridge), and severely impacted at the other (immediately below the inflow of the Barge Canal). Note: The more recent assessment at the Barge Canal site reflected non-impacted conditions in 2009. (DEC/DOW, BWAR/SWAS, January 2003).

This RIBS chemical sampling as well as a number of older water quality studies that have indicated impacts to aquatic life in the river were conducted prior to the discontinuation of large industrial discharges from the Kodak Park facility and Kings Landing

Source Assessment

There are a wide range of sources that contribute pollutants to this waterbody. The highly urbanized surrounding area suggests urban/storm runoff, municipal and industrial point sources and other sanitary discharges may be contributing to impacts in the River. The Lower Genesee River is also affected by nutrient and silt/sediment loads that originate throughout the watershed.

Previously cited sources of impacts to the River that require more current reassessment include hydroelectric generating plants along the river that divert water to generate powe and may have some impact on the fishery in the river (US Fish and Wildlife Service, 2001), combined sewer overflows and inactive hazardous waste sites.

Management Actions

Efforts to reduce the wastewater contribution of nutrient loadings throughout the wasteshed have been undertaken. A CSO abatement program uses deep tunnel storage to minimize discharges of combined sewage.

Efforts to restore and protect the waters of the Lower Genesee are intertwined with similar efforts in Lake Ontario. These efforts are coordinated by the NYSDEC Great Lakes Program. Working with stakeholders throughout the basin, the Program has developed a new, fully integrated action plan that guides restoration and conservation activities in New York's Great Lakes region. This action plan, or interim Great Lakes Action Agenda, is a multi-agency, multi-program,

and cross-region strategic plan to support innovative programs and build new partnerships at multiple levels of local, state, and federal government across the state's Great Lakes basin. The plan identifies high priority actions and focuses federal and state funding opportunities to address the most critical challenges unique to this region, including contamination clean-up, restoration of fish and wildlife, waterfront and economic development, climate change resiliency strategies, and recreation and tourism development. The Rochester Embayment Area of Concern is one of a number of major focus areas. (DEC, Great Lakes Program, July 2015)

Section 303(d) Listing

The Lower Genesee River is included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. The waterbody is included on Part 2b as an impaired water (fish consumption) needing a TMDL to address PCBs, dioxin and mirex contamination, and on Part 3a as a waterbody impaired by pathogens for which TMDL Development May be Deferred pending verification of the impairment). This waterbody was first listed (for all impairments) on the 2004 List. In 2016 the waterbody was delisted for phosphorus and silt and sediment due to reassessment.

Segment Description

This segment includes the portion of the river from the mouth at Lake Ontario, to the NYS Barge Canal. The waters of this portion of the river are Class B. Tribs to this reach/segment are listed separately.

Genesee River, Middle, Main Stem (0401-0003) Minor Impacts

Waterbody Location Information

Revised: 11/30/2016

Water Index No: Ont 117 (portion 2)
Hydro Unit Code: Genesee River (0413000307)
Water Type/Size: River/Stream 10.6 Miles
Description: from NYS Barge Canal to Scottsville

Water Class: B
Drainage Basin: Genesee River
Reg/County: 8/Monroe (28)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	Unassessed	-
Recreation	Stressed	Suspected
Aquatic Life	Stressed	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: Nutrients (phosphorus)
Suspected: Silt/Sediment
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: Agriculture, Streambank Erosion
Suspected: Municipal Discharges, Urban/Storm Runoff
Unconfirmed: Hydro Alteration

Management Information

Management Status: Restoration/Protection Strategy Needed
Lead Agency/Office: DOW/Reg8
IR/305(b) Code: Impaired Water Requiring a TMDL (IR Category 5)

Further Details

Overview
This portion of the Genesee River is assessed as having minor impacts due to aquatic life that is known to be stressed by nutrient loads from agricultural activity in the watershed, other nonpoint sources, and possibly municipal discharges.

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

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. Additional (bacteriological) sampling is needed to more fully evaluate public bathing and other recreational uses. (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 was conducted in Rochester/Genesee Valley Park (at a site just above the NYS Barge Canal near Route 490) 2014 and 2009. Sampling results reflect generally good water quality. Conditions were in the slightly impacted range but approaching non-impacted and communities were most similar to natural conditions. The macroinvertebrate community shows some beginning signs of alteration, some expected sensitive species are not present and overall macroinvertebrate species richness is somewhat lower than expected, but overall there is still balanced distribution of all expected taxa. Aquatic life is supported and there are no other apparent water quality impacts. This evaluation is consistent with results from previous sampling at the site conducted in 2004. (DEC/DOW, BWAM/SBU, January 2015)

Sampling results from 1999 indicated severely impacted water quality conditions. Similar conditions were noted in samples collected just below the canal as well. These results were also similar to samples collected in 1995. The cause of the impact is thought to be high nutrient loads to the river which produce algal blooms and cause reduction in dissolved oxygen. These conditions may have been exacerbated by low flow conditions in both sampling years. (DEC/DOW, BWAR/SBU, December 2001)

Source Assessment
Agricultural activities and other nonpoint sources, as well as overall municipal wastewater to the watershed are thought to be the most significant sources of nutrients to the River. Previous assessments have also cited high sediment loads. However much of the sediment loading is considered to be natural, as the river flows through an alluvial plain with highly erodible soils. Streambank erosion is a particular concern at a few points where roads are close to the river and prevent widening that would naturally occur. Undercutting of the riverbanks has been noted and rip–rap has been used as a stop–gap measure. Recent studies have also documented the impact of flood control operations at the Mount Morris Dam on streambank erosion in the River (Young, SUNY Geneseo, 1997). Agricultural activtities in the area also contribute runoff and sediment loads to the river. (Monroe County Health, April 2001)

Management Actions
Efforts to restore and protect the waters of the Genesee are coordinated by the NYSDEC Great Lakes Program. Working with stakeholders throughout the basin, the Program has developed a new, fully integrated action plan that guides restoration and conservation activities in New York's Great Lakes region. This action plan, or interim Great Lakes Action Agenda, is a multi-agency, multi-program, and cross-region strategic plan to support innovative programs and build new partnerships at multiple levels of local, state, and federal government across the state's Great Lakes basin. The plan identifies high priority actions and focuses federal and state funding opportunities to address the most critical challenges unique to this region, including contamination clean-up, restoration of fish and wildlife, waterfront and economic development, climate change resiliency strategies, and recreation and tourism development. The Rochester Embayment Area of Concern is one of a number of major focus areas. (DEC, Great Lakes Program, July 2015)

Section 303(d) Listing
The waterbody is not included on the current (2016) NYS Section 303(d) List of Impaired/TMDL Waters. The Middle Genesee River was originally listed in 2004 and was delisted in 2016 due to reassessment indicating only minor impacts from identified pollutants. (DEC/DOW, BWAM/WQAS, April 2016)

Segment Description
This segment includes the portion of the river from the NYS Barge Canal to Oatka Creek (-25) in Scotsville. The waters of this portion of the river are Class B. Tribs to this reach/segment are listed separately.

Minor Tribs to Lower Genesee River (0401-0013) Unassessed

Waterbody Location Information

Revised: 10/19/2015

Water Index No:	Ont 117- 1 thru 7	**Water Class:**	C
Hydro Unit Code:	Genesee River (0413000307)	**Drainage Basin:**	Genesee River
Water Type/Size:	River/Stream 3.6 Miles	**Reg/County:**	8/Monroe (28)
Description:	total length of selected/smaller tribs to Genesee River		

Water Quality Problem/Issue Information

Uses Evaluated	**Severity**	**Confidence**
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Unassessed	-
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
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:	Unassessed
Lead Agency/Office:	DOW/BWAM
IR/305(b) Code:	Water with Insufficient Data (IR Category 3)

Further Details

Overview
Currently there is inadequate data/information to evaluate uses and determine a water quality assessment for this waterbody.

Use Assessment
This waterbody segment 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.

Water Quality Information
There is currently no water quality information available upon which to base an assessment.

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. Baseline sampling to evaluate conditions in this

waterbody segment is needed.

Section 303(d) Listing
This trib waterbody is not included on the current (2014) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM, January 2015)

Segment Description
This segment includes the total length of all tribs to the Genesee River (from its mouth to the NYS Barge Canal). Tribs within this segment are Class C; a few small impoundments are Class B.

NYS Barge Canal (portion 3) (0401-0012) Unassessed

Waterbody Location Information

Revised: 10/19/2015

Water Index No: NYS Barge Canal (portion 3)
Hydro Unit Code: Genesee River (0413000307)
Water Type/Size: River/Stream 25 Miles
Description: from Rochester to Henrietta

Water Class: B
Drainage Basin: Genesee River
Reg/County: 8/Monroe (28)

Water Quality Problem/Issue Information

Uses Evaluated	Severity	Confidence
Water Supply	N/A	-
Public Bathing	Unassessed	-
Recreation	Unassessed	-
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
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: Unassessed
Lead Agency/Office: DOW/BWAM
IR/305(b) Code: Water with Insufficient Data (IR Category 3)

Further Details

Overview
Currently there is inadequate data/information to evaluate uses and determine a water quality assessment for this waterbody. A previous assessment of more than 10 years ago indicated possible impacts that needed to be verified.

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

Water Quality Information
There is currently no water quality information available upon which to base an assessment.

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. Baseline sampling to evaluate conditions in this

waterbody segment is needed.

Section 303(d) Listing
This trib waterbody is not included on the current (2014) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM/WQAS, January 2015)

Segment Description
This segment includes the portion of the canal within the Genesee River Basin, from from 0.3 mile west of East Henrietta Road Bridge in Henrietta to 0.2 mile west of Lee Road Bridge in Gates.

Minor Tribs to Middle Genesee River (0402-0086) Unassessed

Waterbody Location Information

Revised: 10/19/2015

Water Index No:	Ont 117- 8 thru 24 (selected)	**Water Class:**	C
Hydro Unit Code:	Genesee River (0413000307)	**Drainage Basin:**	Genesee River
Water Type/Size:	River/Stream 15.7 Miles	**Reg/County:**	8/Monroe (28)
Description:	total length of selected/smaller tribs to Genesee River		

Water Quality Problem/Issue Information

Uses Evaluated	**Severity**	**Confidence**
Water Supply	N/A	-
Public Bathing	N/A	-
Recreation	Unassessed	-
Aquatic Life	Unassessed	-
Fish Consumption	Unassessed	-
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:	Unassessed
Lead Agency/Office:	DOW/BWAM
IR/305(b) Code:	Water with Insufficient Data (IR Category 3)

Further Details

Overview
Currently there is inadequate data/information to evaluate uses and determine a water quality assessment for this waterbody.

Use Assessment
This waterbody segment 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.

Water Quality Information
There is currently no water quality information available upon which to base an assessment.

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. Baseline sampling to evaluate conditions in this

waterbody segment is needed.

Section 303(d) Listing
This trib waterbody is not included on the current (2014) NYS Section 303(d) List of Impaired/TMDL Waters. There is insufficient information to make a listing decision. (DEC/DOW, BWAM, January 2015)

Segment Description
This segment includes the total length of selected/smaller tribs to the Genesee River (from the NYS Barge Canal to Oatka Creek). Tribs within this segment are Class C. Red Creek (-14), Little Black Creek (-18) and Black Creek (-19) are listed as separate segments.

Red Creek and tribs (0402-0024) Minor Impacts

Waterbody Location Information

Revised: 11/30/2016

Water Index No: Ont 117- 14
Hydro Unit Code: Genesee River (0413000307)
Water Type/Size: River/Stream 45.9 Miles
Description: entire stream and tribs

Water Class: C
Drainage Basin: Genesee River
Reg/County: 8/Monroe (28)

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), Nutrients (phosphorus), Water Level/Flow
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: Urban/Storm Runoff, Hydro Alteration
Suspected: Private/Commercial/Institutional Discharges, Other/Non-Permitted Sanitary Discharge
Unconfirmed: Agriculture

Management Information

Management Status: Verification of Sources Needed
Lead Agency/Office: DEC/Reg8
IR/305(b) Code: Water Attaining All Standards (IR Category 1)

Further Details

Overview
Red Creek is assessed as having minor impacts due to aquatic life impacts are considered to be stressed. No specific pollutants or sources have been identified, but sampling results and land use suggests impacts may be a result of elevated nutrient loadings thought to be the result of urban runoff, possible sanitary discharges and agricultural activity in the upstream watershed. Hydrologic impacts related to NYS Barge Canal operations also have an impact on the creek.

Use Assessment
Red 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 evaluated as stressed based on biological sampling that shows slight/minor impacts. 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, 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 Red Creek in Rochester (at East River Road in Genesee Valley Park) was conducted as part of the RIBS biological screening effort in 2014. Sampling results reflect fair water quality, with the macroinvertebrate community altered from what is expected under natural conditions and indications of residential wastewater as well as impoundment effects. 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. Results from a previous samilg of the creek (at East Valley Road in Genesee Valley Park) reflected moderately impacted (poor) water quality with indications of elevated nutrient enrichment. However the sample results show the effects of the swampy habitat at the site of the sample as well as upstream. The sample was collected in slack water using the "net jab" protocol, though after applying a correction factor due to slack water the site was still assessed as moderately impacted, though heavily skewed towards impoundment effects. The level of impairment was deemed appropriate to add the water to the Section 303(d) List, but additional follow-up sampling suggests the listing be removed. (DEC/DOW, BWAM/SBU, November 2016)

Source Assessment

More general nonpoint sources are thought to affect water quality in this residential, commercial area. These include parking lot and other urban runoff, illegal floor drains from area businesses (car dealerships) and a couple of industrial inactive hazardous waste sites. Agricultural activity in the watershed is also thought to contribute some loading, however much of the sediment loading is considered to be natural, as the river flows through an alluvial plain with highly erodible soils. A Streambank Erosion Assessment Project is being conducted by the Monroe County SWCD. Sites along Red Creek that were investigated in 2000 include Crittenden Road (new bridge constricting flow), Castle Road (erosion of unprotected banks) and Rush–Henrietta bus garage (parking lot runoff). (DEC/DOW, Region 8, May 2001)

Roehlen Engraving and Stuart-Oliver-Holtz (metal finishing) are two inactive hazardous waste sites. Soil and groundwater contamination (organics, metals) has been documented at both sites. At Roehlen, soil contamination (chromium and TCE) was generally limited to the site itself. Groundwater contamination was also determined to be largely limited, but long-term groundwater treatment and monitoring is ongoing. Investigation of the Stuart-Oliver-Holtz site found leaking drums and migration of contaminated groundwater. Remediation actions were completed in 2006. A supplemental investigation, completed in 2009, further delineated the soil source and groundwater contamination and found a majority of the groundwater plume was contained within the site boundaries. (DEC/DER, Environmental Site Remediation Database, November 2009)

Stream flow in the creek is also significantly affected by the water levels of the Genesee River and NYS Barge Canal. If not for the artificial elevation control of the Genesee River and canal, the stream would be dry much of the year. However because of the impact of the river, flooding in the spring and during heavy rains is common. Some roads in the area become impassable for as long as days because runoff flow to the river is restricted. The situation also affects residences in the Mapledale Subdivision, resulting in flooded basements and occasional overflowing of the stream bank and surcharging of the sanitary sewers. (Monroe County Health Department, May 2001)

Management Actions

No specific management actions have been identified for the waterbody. Previous assessment of the site noted some source trackdown efforts. Red Creek is included on the Section 303(d) List but requiring verification of conditions. More recent sampling indicates it would be appropriate to remove the listing.

Section 303(d) Listing

Red Creek 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 requiring verification of the pollutant/cause and sources of the aquatic life impacts. However this updated assessment suggests that the suspected impacts to water quality and uses are not sufficient to warrant continued listing. This waterbody should be [considered for] delisting [for pollutant] during the next update of the List. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description
This segment includes the entire stream and all tribs. The waters of the stream are primarily Class C, with a short Class B reach from the mouth to Crittenden Road. Tribs to this reach are Class C.

Little Black Creek, Lower, and tribs (0402-0047) Impaired

Waterbody Location Information

Revised: 11/30/2016

Water Index No: Ont 117- 18
Hydro Unit Code: Genesee River (0413000307)
Water Type/Size: River/Stream 33.8 Miles
Description: stream and tribs from mouth to Coldwater

Water Class: C
Drainage Basin: Genesee River
Reg/County: 8/Monroe (28)

Water Quality Problem/Issue Information

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

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

Known: Water Level/Flow
Suspected: UNKNOWN POLLUTANTS (biological impacts), Nutrients (phosphorus)
Unconfirmed: - - -

Source(s) of Pollutant(s)

Known: Urban/Storm Runoff
Suspected: UNKNOWN SOURCE, Agriculture
Unconfirmed: - - -

Management Information

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

Further Details

Overview
Little Black Creek is assessed as an impaired waterbody due to aquatic life that is known to be impaired. No specific pollutants of sources have been identified, but urban/stormwater runoff is a likely contributing source. Flooding issues in the watershed are also a concern.

Use Assessment
Little Black 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 evaluated as impaired based on biological sampling that shows significant impacts. This sampling can also be used to infer that there may be significant impacts to recreational (fishing) uses, although more specific sampling is necessary to confirm this is the case. (DEC, DOW, BWAM, July 2014)

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

A biological (macroinvertebrate) assessment of Little Black Creek near Chili (at Beahan Road)was conducted in 2009. Sampling results reflect moderately impacted (poor) water quality, with sensitive taxa reduced, and the distribution of major taxonomic groups significantly different from what is naturally expected. Aquatic life is considered to be impaired. This evaluation is consistent with results from previous sampling at the site conducted in 2005, 2004 and 1999. (DEC/DOW, BWAM/SBU, January 2015)

Source Assessment

Specific sources of pollutants to the waterbody have not been identified. Increasing urbanization is assumed to contribute stormwater runoff and various other nonpoint source pollutants to the stream. Significant agricultural activity in the western half of the watershed includes dairy operations and manure spreading. (Monroe County Health Department, April 2001)

Flooding and other hydrologic issues are also of concern. The stream drains very flat terrain with several NYS Designated wetlands in an area that is undergoing increased development. Flooding has been a long-standing problem, but downed trees and a resident beaver population have exacerbated this problem. (Monroe County Health Department, April 2001)

Management Actions

Specific management actions for the waterbody have been limited. Little Black Creek is included on the Section 303(d) List for eventual development of a TMDL or other restoration strategy (see below). In the past, the Town of Ogden has obtained a permit to remove downed trees to open up the waterway and allow the stream to flow more freely. (DEC/DOW, BWAM, January 2008)

Section 303(d) Listing

Little Black Creek 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 requiring verification of the pollutant/cause and sources of the aquatic life impacts. This waterbody was first listed on the 2004 List. (DEC/DOW, BWAM/WQAS, January 2016)

Segment Description

This segment includes the stream and all tribs from the mouth to Route 251 in Coldwater. The waters of the stream and tribs are primarily Class C; a small portion of the stream from above Chili Avenue to Pixley Road and unnamed trib (-a) are Class B.