



Claverack Creek (0202000605)

Water Index Number

H-204-3
H-204-3
H-204- 3
H-204- 3- 1
H-204- 3- 1-P12
H-204- 3- 8
H-204- 3- 8
H-204- 3- 8
H-204- 3- 8- 4- 7-P100
H-204- 3- 8- 8-P98c
H-204- 3- 8-22-P105
H-204- 3- 8-31-P107
H-204- 3- 8-32-P108a
H-204- 3-16
H-204- 3-22-P129
H-204- 3-P116
H-204- 3-P126

Watebody Name

Claverack Creek, Lower, and minor tribs(1310-0047)
Claverack Creek, Upper, and minor tribs (1310-0048)
Claverack/Agawamuck Creek and tribs (1310-0060)
Fitting Creek and tribs (1310-0049)
Merwin Lake (1310-0050)
Taghkanic Creek, Lower, and tribs (1310-0015)
Taghkanic Creek, Middle, and tribs (1310-0051)
Taghkanic Creek, Upper, and tribs (1310-0052)
Bell Pond (1310-0053)
Churchtown Reservoir (1310-0054)
Chrysler Pond (1310-0055)
Forest Pond (1310-0056)
Copake Lake (1310-0014)
North Creek and tribs (1310-0061)
Philmont Reservoir (1310-0057)
Red Mills Pond (1310-0058)
Philmont Pond (1310-0059)

Category

NoKnownImpct
NoKnownImpct
NoKnownImpct
UnAssessed
UnAssessed
Threatened
NoKnownImpct
UnAssessed
UnAssessed
UnAssessed
UnAssessed
UnAssessed
UnAssessed
Impaired Seg
NoKnownImpct
UnAssessed
UnAssessed
UnAssessed

(-8) near Claverack. The waters of this portion of the stream are Class C. Tribs to this reach/segment, including Mud Creek (-5), are Class C,C(T). Fitting Creek (-1) and Upper Claverack Creek are listed separately.

Taghkanic Creek, Lower, and tribs (1310-0015)

Threatened

Waterbody Location Information

Revised: 11/06/2007

Water Index No: H-204- 3- 8
Hydro Unit Code: 02020006/110 **Str Class:** C(T)
Waterbody Type: River
Waterbody Size: 123.1 Miles
Seg Description: stream and tribs, from mouth to New Forge

Drain Basin: Lower Hudson River
Middle Hudson River
Reg/County: 4/Columbia Co. (11)
Quad Map: CLAVERRACK (M-26-1)

Water Quality Problem/Issue Information (CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Habitat/Hydrology	Threatened	Known

Type of Pollutant(s)

Known: ---
Suspected: WATER LEVEL/FLOW, THERMAL CHANGES
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: HYDRO MODIFICATION
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

Hydrologic/habitat uses in Taghkanic Creek are thought to be impacted by drinking water withdrawals upstream by the City of Hudson. These withdrawals reduce flow in the creek and result in thermal stresses on the fishery during the summer. Under adequate flow conditions Fisheries staff indicates that this is a productive trout stream and should be protected. (DEC\FWMR, Region 4, 1996)

Water Quality Sampling

A biological (macroinvertebrate) assessment of Taghkanic Creek in Linlithgo (at Water Road) was conducted in 2002. Sampling results indicated non-impacted water quality conditions. The fauna was diverse and all screening criteria for waters having no known impacts were met. (DEC/DOW, BWAM/SBU, June 2005)

Segment Description

This segment includes the portion of the stream and all tribs from the mouth near Claverack to/including Suydam Creek (-21) in New Forge. The waters of this portion of the stream are Class C(T). Tribs to this reach/segment, including Loomis Creek (-2), Mud Creek (-4) and Suydam Creek (-21) are Class C,C(T),C(TS). Middle/Upper Taghkanic Creek are listed separately.

Copake Lake (1310-0014)

Impaired Seg

Waterbody Location Information

Revised: 04/30/2008

Water Index No: H-204- 3- 8-32-P108a
Hydro Unit Code: 02020006/110 **Str Class:** B
Waterbody Type: Lake
Waterbody Size: 420.2 Acres
Seg Description: entire lake

Drain Basin: Lower Hudson River
Middle Hudson River
Reg/County: 4/Columbia Co. (11)
Quad Map: HILLSDALE (M-26-2)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
Aquatic Life	Stressed	Possible
RECREATION	Impaired	Known
Aesthetics	Stressed	Known

Type of Pollutant(s)

Known: ALGAL/WEED GROWTH (aquatic vegetation)
Suspected: NUTRIENTS (phosphorus)
Possible: D.O./Oxygen Demand

Source(s) of Pollutant(s)

Known: HABITAT MODIFICATION
Suspected: ON-SITE/SEPTIC SYST, URBAN/STORM RUNOFF
Possible: Agriculture

Resolution/Management Information

Issue Resolvability: 1 (Needs Verification/Study (see STATUS))
Verification Status: 4 (Source Identified, Strategy Needed)
Lead Agency/Office: DEC/Reg4
TMDL/303d Status: n/a->4c*

Resolution Potential: Medium

Further Details

Overview

Recreational uses in Copake Lake are considered to be impaired due to aquatic weed and algal growth and low water transparency. Somewhat elevated nutrient (phosphorus) loads attributed to nonpoint sources contribute to recreational uses and aesthetic.

Water Quality Sampling

Copake Lake has been sampled as part of the NYSDEC Citizen Statewide Lake Assessment Program (CSLAP) from 1996 through 2000. An Interpretive Summary report of the findings of this sampling was published in 2001. These data indicate that the lake continues to be best characterized as eutrophic, or highly productive, based on low water transparency, and elevated nutrient (primarily phosphorus) and algae levels. Phosphorus levels in the lake consistently exceed the state phosphorus guidance value indicating impacted/stressed recreational uses. Corresponding transparency measurements occasionally fail to meet what is recommended for swimming beaches. Eutrophication indicators showed some improving in the most recent sampling years. Measurements of pH typically fall within the state water quality range of 6.5 to 8.5; occasionally high pH does not appear to impact aquatic life. The lake water color does not appear to influence transparency. (DEC/DOW, BWAM/CSLAP, June 2001)

Recreational Assessment

Public perception of the lake and its uses is also evaluated as part of the CSLAP program. This most recent assessment (2005) indicates recreational suitability of the lake to be only somewhat favorable. The recreational suitability of the lake is described most frequently as "slightly" impacted for most recreational uses. The lake itself is most often described as having "definite algae greenness," an assessment that is somewhat lower than indicated by measured water quality characteristics. Assessments have noted that aquatic plants typically grow to the lake surface, and are reported as being dense. Rooted aquatic growth appears to be driving the recreational assessment. (DEC/DOW, BWAM/CSLAP, June 2001)

Lake Uses

This lake waterbody is designated class B, suitable for use as a public bathing beach, for general recreation and aquatic life support, but not as public water supply. Water quality monitoring by NYSDEC focuses primarily on support of general recreation and aquatic life. Samples to evaluate the bacteriological condition and bathing use of the lake or to evaluate contamination from organic compounds, metals or other inorganic pollutants have not been collected as part of the CSLAP monitoring program. Monitoring to assess potable water supply and public bathing use is generally the responsibility of state and/or local health departments.

Previous Assessment

Residential development along the lake shore has increased the concern regarding lawn runoff, and inadequate on-site septic systems as potential sources. (A few homes that previously discharged raw sewage to the lake now discharge to a holding tank.) Nutrient and fertilizer runoff from a nearby golf course may also contribute to water quality problems. (Columbia County WQCC, 1996)

Section 303(d) Listing

Copake Lake is not currently included on the NYS 2008 Section 303(d) List of Impaired Waters. While this updated assessment suggests it is appropriate to consider the lake to be impaired due to aquatic weed growth, more recent sampling to verify nutrient levels in the lake is recommended before listing the waterbody for phosphorus. (DEC/DOW, BWAM/WQAS, May 2008)

North Creek and tribs (1310-0061)

NoKnownImpct

Waterbody Location Information

Revised: 11/06/2007

Water Index No: H-204- 3-16
Hydro Unit Code: **Str Class:** C(TS)
Waterbody Type: River (Low Flow) **Reg/County:** 4/Columbia Co. (11)
Waterbody Size: 49.2 Miles **Quad Map:** STOTTVILLE (L-26-4)
Seg Description:

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 North Creek Mellenville (at Route 217) was conducted in 2002. Sampling results indicated slightly impacted water quality conditions. The fauna was dominated by filter-feeding caddisflies and nonpoint nutrient enrichment was indicated. However, nutrient biotic evaluation determined these effects on the fauna to be minor. Aquatic life support is considered to be fully supported in the stream, and there are no other apparent water quality impacts to designated uses. (DEC/DOW, BWAM/SBU, June 2005)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C,C(TS). Tribs to this reach/segment are Class C,C(T).