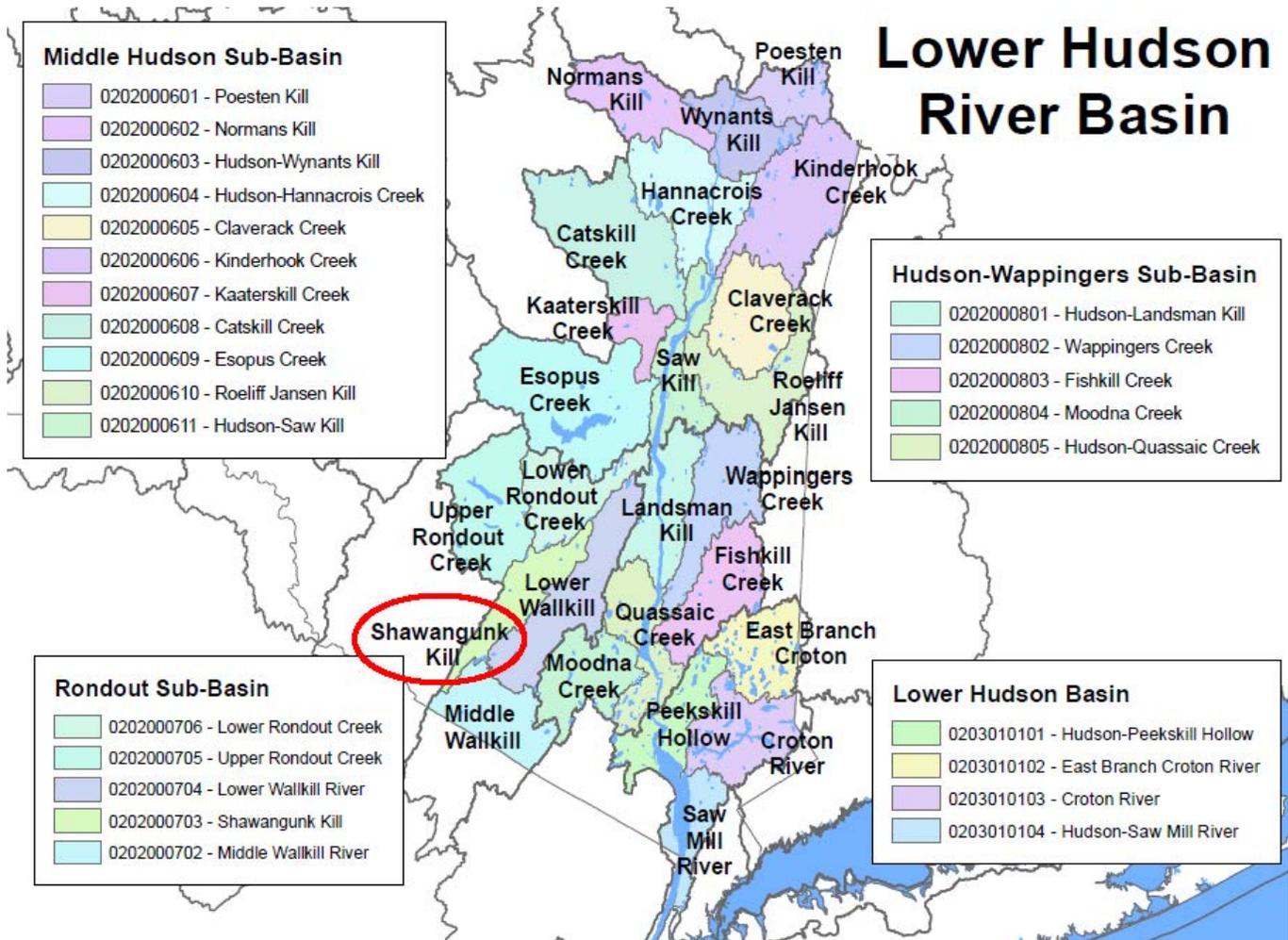


Lower Hudson River Basin



Shawanagunk Kill (0202000703)

Water Index Number

H-139-13-19
H-139-13-19
H-139-13-19
H-139-13-19
H-139-13-19- 1-P463a
H-139-13-19- 5
H-139-13-19- 5-P464a
H-139-13-19- 7
H-139-13-19- 9
H-139-13-19-10
H-139-13-19-10- 5-P471
H-139-13-19-13-P471a
H-139-13-19-15
H-139-13-19-17-P473
H-139-13-19-28
H-139-13-19-28-P491,P492

Waterbody Name

Shawangunk Kill, Lower, and minor tribs (1306-0045)
Shawangunk Kill, Middle, and minor tribs(1306-0046)
Shawangunk Kill, Middle, and tribs (1306-0047)
Shawangunk Kill, Upper, and tribs (1306-0048)
Heddens Lake (1306-0049)
Palmaghatt Kill, Upper, and tribs (1306-0050)
Tillson Lake (1306-0051)
Dwaar Kill and tribs (1306-0052)
Pakanasink Creek, Upper, and tribs (1306-0053)
Verkeerder Kill Creek and tribs (1306-0054)
Lake Maratanza (1306-0055)
Pinebush Lake (1306-0056)
Platte Kill/Halliday Brook and tribs (1306-0057)
Echo Lake (1306-0058)
Little Shawangunk Kill and tribs (1306-0059)
Shawangunk Lake/Highland Lake (1306-0060)

Category

NoKnownImpct
NoKnownImpct
NoKnownImpct
UnAssessed
UnAssessed
UnAssessed
UnAssessed
MinorImpacts
UnAssessed
NoKnownImpct
UnAssessed
UnAssessed
UnAssessed
UnAssessed
NoKnownImpct
Threat(Poss)

Shawangunk Kill, Lower, and minor tribs (1306-0045) NoKnownImpct

Waterbody Location Information

Revised: 06/03/2008

Water Index No: H-139-13-19 **Drain Basin:** Lower Hudson River
Hydro Unit Code: **Str Class:** B
Waterbody Type: River **Reg/County:** 3/Ulster Co. (56)
Waterbody Size: 39.5 Miles **Quad Map:** GARDINER (O-24-1)
Seg Description: stream and select tribs, from mouth to Pinebush

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

NYSDEC Rotating Intensive Basin Studies (RIBS) Intensive Network monitoring of Shawangunk Kill in Ganahgote, Orange County, (at Route 9) was conducted in 2003. Intensive Network sampling typically includes macroinvertebrate community analysis, water column chemistry, sediment and invertebrate tissues analysis and toxicity evaluation. During this sampling the biological (macroinvertebrate) sampling results indicated non-impacted water quality conditions. The fauna was diverse and well-balanced. Water column sampling revealed only iron to be a parameter of concern. However, this substance is considered to be naturally occurring and not a source of water quality impacts. Bottom sediment sampling results revealed no contaminants to be exceeding the Threshold Effects level - levels at which adverse impacts occasionally occur. Toxicity testing of the water column showed no significant mortality or reproductive impacts. Based on the consensus of these established assessment methods, overall water quality at this site (has minor impacts, but is -or- is fully) s supportive of the water's aquatic life support and recreational use. (DEC/DOW, BWAM/RIBS, January 2005)

Biological (macroinvertebrate) assessments of Shawangunk Kill were conducted at three sites including Ganahgote (at Route 9) and Pine Bush (at Hardenburg Road) in 2002. Sampling results at these sites indicated non-impacted water quality conditions. The fauna was diverse and all screening criteria for waters having no known impacts were met. The sample was sorted in the lab to family level and results were found to support the field assessment. (DEC/DOW, BWAM/SBU, December 2004)

Segment Description

This segment includes the portion of the stream and selected/smaller tribs from the mouth to near Pakanasink Creek (-9) near Pinebush. The waters of this portion of the stream are Class B. Tribs to this reach/segment, including Mara Kill (-1), are Class B,B(T),BT(S),C. Palmaghatt Kill (-5), Dwaar Kill (-7), Pakanasink Creek and Middle/Upper Shawangunk Creek are listed separately.

Shawangunk Kill, Middle, and tribs (1306-0047)

NoKnownImpct

Waterbody Location Information

Revised: 12/20/2007

Water Index No: H-139-13-19 **Drain Basin:** Lower Hudson River
Hydro Unit Code: **Str Class:** B
Waterbody Type: River **Reg/County:** 3/Orange Co. (36)
Waterbody Size: 18.5 Miles **Quad Map:** OTISVILLE (P-22-2)
Seg Description: stream and tribs, from New Vernon to New Hope

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

Biological (macroinvertebrate) assessments of Shawangunk Kill were conducted at three sites including one site in just below the reach in Maple Glen (at Meyer Road) in 2002. Sampling results at these sites indicated non-impacted water quality conditions. The fauna was diverse and all screening criteria for waters having no known impacts were met. The sample was sorted in the lab to family level and results were found to support the field assessment. Although this site is not in the reach, it is considered to be representative of the upstream reach. (DEC/DOW, BWAM/SBU, December 2004)

Segment Description: This segment includes the portion of the stream and all tribs from unnamed trib (-30) near New Vernon to Mill Pond (P517) near Mount Hope. The waters of this portion of the stream are Class B. Tribs to this reach/segment are Class B,C,C(T). Lower/Upper Shawangunk Kill are listed separately.

Verkeerder Kill Creek and tribs (1306-0054)

NoKnownImpct

Waterbody Location Information

Revised: 12/20/2007

Water Index No: H-139-13-19-10
Hydro Unit Code: **Str Class:** A(T)
Waterbody Type: River
Waterbody Size: 23.3 Miles
Seg Description: entire stream and tribs
Drain Basin: Lower Hudson River
Reg/County: 3/Ulster Co. (56)
Quad Map: PINE BUSH (O-23-3)

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
TMDL/303d Status: n/a
Resolution Potential: n/a

Further Details

Water Quality Sampling

A biological (macroinvertebrate) assessment of Verkeerder Kill in Ulsterville (at Ulsterville 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. The sample was sorted in the lab to family level and results were found to support the field assessment. (DEC/DOW, BWAM/SBU, December 2004)

Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class A(T),A(TS). Tribs to this reach/segment, including Berger Brook (-2), are Class A(TS).

recreational suitability of the lake to be very favorable since the lake was first evaluated and continuing through the most recent assessment. The recreational suitability of Shawangunk Lake is described most frequently as "excellent" with the lake itself is most often described as "not quite crystal clear," an assessment that is slightly less favorable than suggested by measured water quality characteristics. The recreational suitability of Highland Lake is described most frequently as "excellent" to "slightly" impacted with the lake itself is most often described as between "not quite crystal clear" and "having "definite algal greenness," an assessment that is slightly more favorable than suggested by measured water quality characteristics. Assessments have noted that aquatic plants occasionally grow to the lake surface but do not appear to impact recreation. (DEC/DOW, BWAM/CSLAP, February 2006)

Lake Uses

These lake waterbodies are designated class AA, suitable for use as a water supply, public bathing beach, general recreation and aquatic life support. 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.

Source (Drinking) Water Assessment

Shawangunk Reservoir was assessed through the NYSDOH Source Waters Assessment Program (SWAP) which compiles, organizes, and evaluates information regarding possible and actual threats to the quality of public water supply (PWS) sources. The information contained in SWAP assessment reports assists in the oversight and protection of public water systems. It is important to note that SWAP reports estimate the potential for untreated drinking water sources to be impacted by contamination and do not address the quality of treated finished potable tap water. This assessment found no noteworthy risks to source water quality. Although there are no specific water quality impacts, the segment is considered a highly valued water resource due to its drinking water supply classification as a AA(T) water. The inclusion of this waterbody on the DEC/DOW Priority Waterbodies List as a Threatened water is a reflection of the particular resource value reflected in this designation and the need to provide additional protection, rather than any specifically identified threats. This water supply reservoir provides water to the City of Middletown. (NYSDOH, Source Water Assessment Program, 2005)