



**Basher Kill Watershed
(0204010402)**

Water Index Number

- D- 1-12
- D- 1-12
- D- 1-12- 8
- D- 1-12- 8-P21
- D- 1-12- 9-P19a
- D- 1-12-23
- D- 1-12-23-P23
- D- 1-12-25

Waterbody Segment

- Basher Kill, Lower, and tribs (1402-0032)
- Basher Kill, Upper and minor tribs(1402-0033)
- Pine Kill and tribs (1402-0034)
- Yankee Reservoir (1402-0035)
- Otisville Reservoir (1402-0036)
- Willsey Brook and tribs (1402-0037)
- Mastens Lake (1402-0038)
- Gumaer Brook and tribs (1402-0039)

Category

- MinorImpacts
- MinorImpacts
- NoKnownImpct
- UnAssessed
- UnAssessed
- UnAssessed
- UnAssessed
- NoKnownImpct

Basher Kill, Lower, and tribs (1402-0032)

MinorImpacts

Waterbody Location Information

Revised: 09/17/02

Water Index No: D- 1-12
Hydro Unit Code: 02040104/070 **Str Class:** C
Waterbody Type: River
Waterbody Size: 22.6 Miles (Low Flow)
Seg Description: stream and selected tribs from mouth to Westbrookville

Drain Basin: Delaware River
Reg/County: 3/Orange Co. (36)
Quad Map: OTISVILLE (P-22-2)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

| Use(s) Impacted | Severity | Problem Documentation |
|-----------------|----------|-----------------------|
| Aquatic Life | Stressed | Known |
| Recreation | Stressed | Suspected |

Type of Pollutant(s)

Known: NUTRIENTS (phosphorus)
Suspected: - - -
Possible: Pathogens

Source(s) of Pollutant(s)

Known: - - -
Suspected: AGRICULTURE
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: (TMDL Not Required (No Impairment))

Resolution Potential: Medium

Further Details

Recreational uses and aquatic life support in the lower Basher Kill are thought to be stressed by nonpoint runoff and nutrient enrichment. Agricultural pastures and area horse farms are the suspected sources. There have also been some concerns regarding the impact of pathogens from these same sources.

A biological (macroinvertebrate) assessment of Basher Kill in Cuddebackville was conducted in 1999. Sampling results indicated slightly impacted water quality conditions. Nonpoint source nutrient enrichment was strongly indicated to be the primary source of impact. (DEC/DOW, BWAR/SBU, June 2002)

Water quality sampling conducted by the Basha Kill Area Association - a local watershed organization - identified elevated coliform levels in the stream in 1999. In response NYSDEC included some targeted coliform monitoring on the stream in its 2000 RIBS monitoring effort. This sampling consisted of total and fecal coliform samples collected from April through November at McDonald Road. The resulting geometric means for total (306) and fecal (36) coliforms were well below the standards for Class C waters (2,400 and 200, respectively).

This segment includes the portion of the stream and all tribs from the mouth to Pine Kill near Westbrookville. The waters of this portion of the stream are Class C. Tribs to this reach are primarily Class C, C(T) and C(TS); with some waters designated Class B. Pine Kill (-8) is listed separately. (December 2000)

Basher Kill, Upper and minor tribs (1402-0033)

MinorImpacts

Waterbody Location Information

Revised: 09/17/02

Water Index No: D- 1-12
Hydro Unit Code: 02040104/060 **Str Class:** C
Waterbody Type: River
Waterbody Size: 70.0 Miles (Low Flow)
Seg Description: stream and selected tribs above Westbrookville

Drain Basin: Delaware River
Reg/County: Mid Delaware-Mongaup
Quad Map: 3/Sullivan Co. (53)
WURTSBORO (O-23-4)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

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

Type of Pollutant(s)

Known: ---
Suspected: NUTRIENTS
Possible: Pathogens

Source(s) of Pollutant(s)

Known: ---
Suspected: AGRICULTURE
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: (TMDL Not Required (No Impairment))

Resolution Potential: Medium

Further Details

Recreational uses and aquatic life support in the upper Basher Kill are thought to be stressed by nonpoint runoff and nutrient enrichment. Agricultural pastures and area horse farms are the suspected sources. There have also been some concerns regarding the impact of pathogens from these same sources.

A biological (macroinvertebrate) assessment of Basher Kill below this segment in Cuddebackville was conducted in 1999. Sampling results indicated slightly impacted water quality conditions. Nonpoint source nutrient enrichment was strongly indicated to be the primary source of impact. (DEC/DOW, BWAR/SBU, June 2002)

Water quality sampling conducted by the Basha Kill Area Association - a local watershed organization - identified elevated coliform levels in the stream in 1999. In response NYSDEC included some targeted coliform monitoring on the stream in its 2000 RIBS monitoring effort. This sampling consisted of total and fecal coliform samples collected from April through November at McDonald Road. The resulting geometric means for total (306) and fecal (36) coliforms were well below the standards for Class C waters (2,400 and 200, respectively).

This segment includes the portion of the stream and selected/smaller tribs above Pine Kill near Westbrookville. The waters of this portion of the stream are Class C from Pine Kill to Trib -20 and Class C(T) for the remainder of the reach. Tribs to this reach are primarily Class C and C(TS); with some waters designated Class D. Pine Kill (-8) is Willsey

Brook (-23) and Gumaer Brook (-25) are listed separately. (December 2000)

Pine Kill and tribs (1402-0034)

NoKnownImpct

Waterbody Location Information

Revised: 07/03/02

| | | | |
|-------------------------|-------------------------|---------------------|----------------------|
| Water Index No: | D- 1-12- 8 | Drain Basin: | Delaware River |
| Hydro Unit Code: | 02040104/070 | Str Class: | C |
| Waterbody Type: | River | Reg/County: | Mid Delaware-Mongaup |
| Waterbody Size: | 32.1 Miles (Low Flow) | Quad Map: | 3/Sullivan Co. (53) |
| Seg Description: | entire stream and tribs | | YANKEE LAKE (O-22-3) |

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

| Use(s) Impacted | Severity | Problem Documentation |
|-------------------|----------|-----------------------|
| NO USE IMPAIRMENT | | |

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:

Further Details

A biological (macroinvertebrate) assessment of Pine Kill in Westbrookville was conducted in 1999. Field sampling results indicated non-impacted water quality conditions. The sample satisfied field screening criteria and was returned to the stream. (DEC/DOW, BWAR/SBU, June 2002)

This segment includes the entire creek and all tribs. The waters of the segment include Fall Brook (-3) and are primarily Class C, C(T) and C(TS). (December 2000)

Gumaer Brook and tribs (1402-0039)

NoKnownImpct

Waterbody Location Information

Revised: 07/03/02

| | | | |
|-------------------------|-------------------------|---------------------|----------------------|
| Water Index No: | D- 1-12-25 | Drain Basin: | Delaware River |
| Hydro Unit Code: | 02040104/060 | Str Class: | C(T) |
| Waterbody Type: | River | Reg/County: | Mid Delaware-Mongaup |
| Waterbody Size: | 16.8 Miles (Low Flow) | Quad Map: | 3/Sullivan Co. (53) |
| Seg Description: | entire stream and tribs | | WURTSBORO (O-23-4) |

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted
NO USE IMPAIRMENT

Severity

Problem Documentation

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:

Further Details

A biological (macroinvertebrate) assessment of Gumaer Brook in Wurtsboro was conducted in 1999. Field sampling results indicated non-impacted water quality conditions. The sample satisfied field screening criteria and was returned to the stream. (DEC/DOW, BWAR/SBU, June 2002)

This segment includes the entire stream and all tribs. Tribs to this reach, including Primrose Brook (-1) and South Brook (-2). The waters of the segment are primarily Class C(T) with some waters designated Class C. (December 2000)