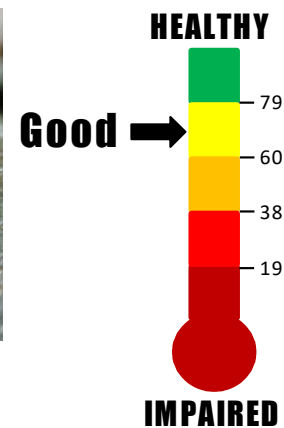


NJS2016-064-R4 Vancampens Brook

Millbrook Flatbrook Road
Municipality: Hardwick Twp
County: Warren
Drainage Area (sq miles): 5
Sample Date: 7/28/2017
Site Type: Probabilistic



IBI Metrics

| | |
|--|--------|
| Metric 1-%Rheophilic Richness | 100.00 |
| Metric 2-%Cold Non-tolerant Coolwater | 96.72 |
| Metric 3-%Generalist Richness | 36.28 |
| Metric 4-Tolerance Index | 100.00 |
| Metric 5-%Lithophilic Richness | 100.00 |
| Metric 6-%Cyprinidae | 92.01 |
| Metric 7-%Dominant 3 Taxa | 100.00 |
| Metric 8-%Benthic Insectivore Richness | 0.00 |

Field Chemistry

| | |
|-------------------------|-------|
| Air Temp (°C) | 21.7 |
| Water Temperature (°C) | 17.04 |
| Dissolved Oxygen (mg/L) | 9.3 |
| % Saturation | 98.2 |
| pH | 6.77 |
| Conductivity (µS/cm) | 56.9 |
| Total Kjeldahl (mg/L) | 0.12 |
| Total Phosphorus (mg/L) | 0.02 |
| Nitrate/Nitrite (mg/L) | 0.08 |

Northern Fish IBI Score (0-100): 78.13

IBI Rating: Good

High Gradient Habitat Score (0-200): 165

Habitat Rating: Optimal

Summary: Located approximately 2.5 miles upstream of the sentinel site FIBI039 on Vancampens Brook, NJS2016-064-R4 is a brook trout/rainbow trout dominated section compared to the downstream section which has historically been dominated by brown trout.

NJS2016-064-R4

Vancampens Brook

| Common Name | Scientific Name | Abundance |
|--------------------|--------------------------------|------------------|
| Blacknose Dace | <i>Rhinichthys atratulus</i> | 442 |
| Rainbow Trout | <i>Oncorhynchus mykiss</i> | 30 |
| Brook Trout | <i>Salvelinus fontinalis</i> | 28 |
| Creek Chub | <i>Semotilus atromaculatus</i> | 14 |
| Golden Shiner | <i>Notemigonus crysoleucas</i> | 6 |