

FIBI551-R1

Kurtenbachs Brook

Waterloo Rd.

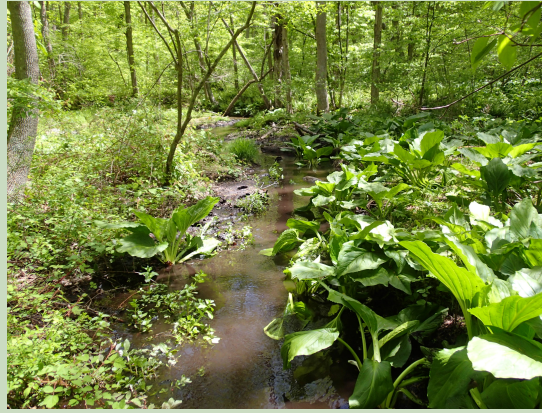
Municipality: Mount Olive

County: Morris

Drainage Area (sq miles): 0.26

Sample Date: 5 /16/2017

Site Type: Fixed



| | |
|---------------------------------------------------------------|--------|
| Metric 1 - Number of intolerant vertebrate species | 33.33 |
| Metric 2 - Proportion of vertebrate species as top carnivores | 65.79 |
| Metric 3 -Percent tolerant fish | 100.00 |
| Metric 4 -Proportion of total richness as native | 100.00 |
| Metric 5 -Percent native crayfish | 100.00 |
| Metric 6 -Brook trout density | 100.00 |

| | |
|--------------------------|-------|
| Air Temperature (°C) | 19 |
| Water Temperature (°C) | 11.53 |
| Dissolved Oxygen (mg/L) | 10.33 |
| % Saturation | 96.2 |
| pH | 7.46 |
| Conductivity (uS/cm) | 141.6 |
| Nitrate/Nitrite (mg/L): | 0.107 |
| Total Kjeldahl (mg/L): | 0.532 |
| Total Phosphorus (mg/L): | 0.036 |

Headwaters IBI Score (0-100): ***83.19***

IBI Rating: ***Excellent***

High Gradient Habitat Score (0-200): ***147***

Habitat Rating: ***Suboptimal***

Summary: Kurtenbachs Brook was rated "excellent" in 2017. This site contains a healthy population of brook trout and common crayfish.

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| Common Name | Scientific Name | Abundance |
|-------------------------------|-----------------------------------|------------------|
| Brook Trout | <i>Salvelinus fontinalis</i> | 58 |
| Green Frog | <i>Lithobates clamitans</i> | 29 |
| Common Crayfish | <i>Cambarus bartonii bartonii</i> | 14 |
| Pickerel Frog | <i>Lithobates palustris</i> | 7 |
| Northern Two-lined Salamander | <i>Eurycea bislineata</i> | 3 |