

FIBI074-R4

Whippany River

Whitehead Road

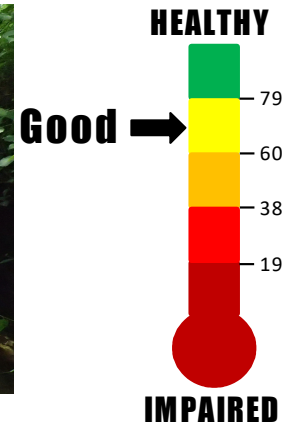
Municipality: Morris Twp

County: Morris

Drainage Area (sq miles): 8

Sample Date: 7 /16/2018

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	63.44
Metric 2-%Cold Non-tolerant Coolwater	79.91
Metric 3-%Generalist Richness	85.22
Metric 4-Tolerance Index	100.00
Metric 5-%Lithophilic Richness	62.09
Metric 6-%Cyprinidae	22.46
Metric 7-%Dominant 3 Taxa	54.28
Metric 8-%Benthic Insectivore Richness	18.92

Field Chemistry

Air Temp (°C)	29.2
Water Temperature (°C)	21.35
Dissolved Oxygen (mg/L)	8.1
% Saturation	92.1
pH	7.4
Conductivity (µS/cm)	402.3
Total Kjeldahl (mg/L)	0.20
Total Phosphorus (mg/L)	0.02
Nitrate/Nitrite (mg/L)	0.98

Northern Fish IBI Score (0-100): 60.79

IBI Rating: Good

High Gradient Habitat Score (0-200): 152

Habitat Rating: Suboptimal

Summary: The 2018 IBI score represents the highest score for FIBI074 in the four rounds of monitoring when scores are compared using the new IBI metrics. This was the first time wild brook trout have been collected at this site. The conductivity measurement in 2018 is the highest level measured at this site over the four rounds of monitoring.

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Common Name	Scientific Name	Abundance
Tessellated Darter	<i>Etheostoma olmstedii</i>	70
American Brook Lamprey	<i>Lethenteron appendix</i>	37
Blacknose Dace	<i>Rhinichthys atratulus</i>	21
Common Shiner	<i>Luxilus cornutus</i>	17
Creek Chub	<i>Semotilus atromaculatus</i>	16
White Sucker	<i>Catostomus commersonii</i>	12
Spottail Shiner	<i>Notropis hudsonius</i>	11
Brown Trout	<i>Salmo trutta</i>	7
Redfin Pickerel	<i>Esox americanus americanus</i>	7
Chain Pickerel	<i>Esox niger</i>	7
Eastern Mudminnow	<i>Umbra pygmaea</i>	4
Brook Trout	<i>Salvelinus fontinalis</i>	2
Largemouth Bass	<i>Micropterus salmoides</i>	2
Bluegill	<i>Lepomis macrochirus</i>	1