

# FIBI053-R4r2

## Mulhockaway Creek

Rt 635

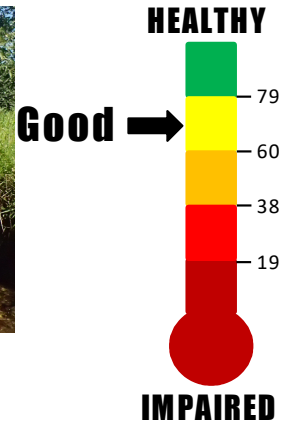
Municipality: Union Twp

County: Hunterdon

Drainage Area (sq miles): 9

Sample Date: 8 /29/2019

Site Type: Sentinel



### IBI Metrics

Metric 1-%Rheophilic Richness	99.27
Metric 2-%Cold Non-tolerant Coolwater	84.46
Metric 3-%Generalist Richness	79.68
Metric 4-Tolerance Index	99.19
Metric 5-%Lithophilic Richness	66.87
Metric 6-%Cyprinidae	13.92
Metric 7-%Dominant 3 Taxa	53.33
Metric 8-%Benthic Insectivore Richness	61.13

### Field Chemistry

Air Temp (°C)	18.7
Water Temperature (°C)	17.08
Dissolved Oxygen (mg/L)	9.2
% Saturation	95.4
pH	6.91
Conductivity (µS/cm)	316.4
Total Kjeldahl (mg/L)	0.08
Total Phosphorus (mg/L)	0.02
Nitrate/Nitrite (mg/L)	1.08

***Northern Fish IBI Score (0-100): 69.73***

***IBI Rating: Good***

***High Gradient Habitat Score (0-200): 156***

***Habitat Rating: Suboptimal***

***Summary:*** Despite the "Good" rating, 2019 is the first time young-of-the-year trout were not collected at this sentinel trout production site.

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## **Mulhockaway Creek**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Tessellated Darter	<i>Etheostoma olmstedi</i>	168
Slimy Sculpin	<i>Cottus cognatus</i>	59
Blacknose Dace	<i>Rhinichthys atratulus</i>	55
Longnose Dace	<i>Rhinichthys cataractae</i>	47
White Sucker	<i>Catostomus commersonii</i>	46
Brown Trout	<i>Salmo trutta</i>	39
Bluegill	<i>Lepomis macrochirus</i>	13
Largemouth Bass	<i>Micropterus salmoides</i>	12
American Eel	<i>Anguilla rostrata</i>	9
Smallmouth Bass	<i>Micropterus dolomieu</i>	8
Brook Trout	<i>Salvelinus fontinalis</i>	5
Creek Chub	<i>Semotilus atromaculatus</i>	4
Green Sunfish	<i>Lepomis cyanellus</i>	3