FIBI046-R4 Clove Brook

State Route 23

Municipality: Montague Twp

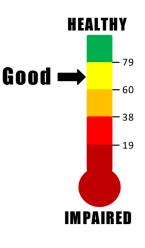
County: Sussex

Drainage Area (sq miles): 10

Sample Date: 8/1/2017

Site Type: Fixed





IBI Metrics

Metric 1-%Rheophilic Richness	61.30
Metric 2-%Cold Non-tolerant Coolwater	77.80
Metric 3-%Generalist Richness	76.58
Metric 4-Tolerance Index	79.83
Metric 5-%Lithophilic Richness	43.47
Metric 6-%Cyprinidae	78.76
Metric 7-%Dominant 3 Taxa	100.00
Metric 8-%Benthic Insectivore Richness	52.98

Field Chemistry

Air Temp (°C)	29
Water Temperature (°C)	20.06
Dissolved Oxygen (mg/L)	8.1
% Saturation	89.5
pН	7.43
Conductivity (µS/cm)	291.2
Total Kjeldahl (mg/L)	0.30
Total Phosphorus (mg/L)	0.06
Nitrate/Nitrite (mg/L)	0.07

Northern Fish IBI Score (0-100): 71.34

IBI Rating: Good

High Gradient Habitat Score (0-200): 127

Habitat Rating: Suboptimal

Summary: Despite receiving a "Good" rating, the number of wild brown trout collected at FIBI046 has significantly declined from prior sampling events (see Table below). Unlike 2007 and 2012, we did not collect any young-of-theyear trout in 2017 which would indicate a decline in natural trout reproduction. The 2007 and 2012 sampling events resulted in the capture of 32 and 50 wild brown trout respectively, compared to just seven in 2017. Also, of those trout collected in 2007 and 2012, 24% and 60% respectively, were young-of-theyear compared to zero in 2017. This FW2-TP stream should be re-evaluated to determine the trout production status.

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Common Name	Scientific Name	Abundance	
Blacknose Dace	Rhinichthys atratulus	347	
Redbreast Sunfish	Lepomis auritus	45	
White Sucker	Catostomus commersoni	35	
Bluegill	Lepomis macrochirus	24	
Tessellated Darter	Etheostoma olmstedi	20	
American Eel	Anguilla rostrata	18	
Brown Trout	Salmo trutta	7	
Longnose Dace	Rhinichthys cataractae	6	
Chain Pickerel	Esox niger	1	
Largemouth Bass	Micropterus salmoides	1	

	Species			
Year	Wild Brown Trout	Wild Rainbow Trout	Native Brook Trout	
2007	32*	0	0	
2012	50*	0	0	
2017	7	0	0	
Denotes young-of-the-year trout present				