

FIBI462-R2

Tillman Brook

Brook Road

Municipality: Walpack

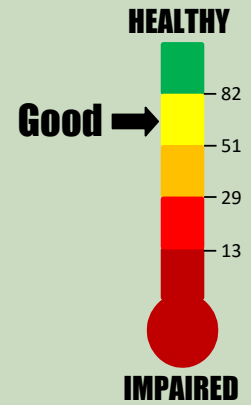
County: Sussex

Drainage Area (sq miles): 1.58

Average Width (m): 2.85

Sample Date: 8/27/2019

Site Type: Sentinel



Metric 1 - Number of intolerant vertebrate species	100.00
Metric 2 - Proportion of vertebrate species as top carnivores	26.32
Metric 3 -Percent tolerant fish	92.53
Metric 4 -Proportion of total richness as native	100.00
Metric 5 -Percent native crayfish	0.00
Metric 6 -Brook trout density	70.41

Air Temperature (°C)	19.4
Water Temperature (°C)	15.83
Dissolved Oxygen (mg/L)	9.70
% Saturation	98
pH	6.93
Conductivity (uS/cm)	48.8
Nitrate/Nitrite (mg/L):	0.16
Total Kjeldahl (mg/L):	0.0866
Total Phosphorus (mg/L):	0.0204

Headwaters IBI Score (0-100): ***64.87***

IBI Rating: ***Good***

High Gradient Habitat Score (0-200): ***162***

Habitat Rating: ***Optimal***

Summary:

Tillman Brook is a sentinel site which is sampled every two to three years for Headwaters IBI monitoring to evaluate assemblage changes through time and to better understand natural variability. Tillman Brook was in "Good" condition in 2014, 2017, and 2019. This site contains a healthy population of sensitive fish, crayfish and salamanders. Tillman Brook is located in a highly forested area and protected within Stokes State Forest.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	126
Green Frog	<i>Lithobates clamitans</i>	43
Brook Trout	<i>Salvelinus fontinalis</i>	32
American Eel	<i>Anguilla rostrata</i>	13
Creek Chub	<i>Semotilus atromaculatus</i>	8
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	6
Northern Dusky Salamander	<i>Desmognathus fuscus</i>	4
Longnose Dace	<i>Rhinichthys cataractae</i>	2
Longtail Salamander	<i>Eurycea longicauda longicauda</i>	1
Pickerel Frog	<i>Lithobates palustris</i>	1