

FIBI462-R1r Tillman Brook

Brook Road

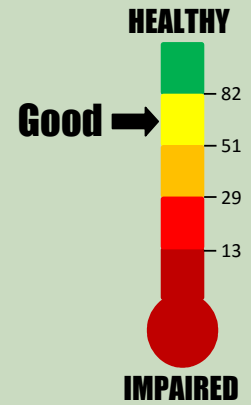
Municipality: Walpack

County: Sussex

Drainage Area (sq miles): 1.58

Sample Date: 8 /17/2017

Site Type: Sentinel



Metric 1 - Number of intolerant vertebrate species	66.67
Metric 2 - Proportion of vertebrate species as top carnivores	32.89
Metric 3 -Percent tolerant fish	95.31
Metric 4 -Proportion of total richness as native	100.00
Metric 5 -Percent native crayfish	100.00
Metric 6 -Brook trout density	28.05

Air Temperature (°C)	18.9
Water Temperature (°C)	16.84
Dissolved Oxygen (mg/L)	9.26
% Saturation	95.9
pH	6.8
Conductivity (uS/cm)	38.4
Nitrate/Nitrite (mg/L):	0.119
Total Kjeldahl (mg/L):	0.0991
Total Phosphorus (mg/L):	0.0255

Headwaters IBI Score (0-100): ***70.49***

IBI Rating: ***Good***

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

Habitat Rating: ***Suboptimal***

Summary:

FIBI462 is a sentinel site which is sampled every 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 and 2017. This site contains a healthy population of sensitive fish, crayfish and salamanders. Tillman Brook is located in a highly forested area and protected within the Stokes State Forest.

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Tillman Brook

Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	208
Green Frog	<i>Lithobates clamitans</i>	30
Brook Trout	<i>Salvelinus fontinalis</i>	17
American Eel	<i>Anguilla rostrata</i>	11
Creek Chub	<i>Semotilus atromaculatus</i>	6
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	3
Northern Dusky Salamander	<i>Desmognathus fuscus</i>	2
Longnose Dace	<i>Rhinichthys cataractae</i>	2
Common Crayfish	<i>Cambarus bartonii bartonii</i>	1