

FIBI518-R1r

Criss Brook

Flatbrook Road

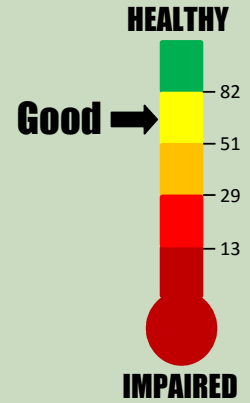
Municipality: Sandyston

County: Sussex

Drainage Area (sq miles): 1.02

Sample Date: 9 /7 /2017

Site Type: Fixed



| | |
|---|--------|
| Metric 1 - Number of intolerant vertebrate species | 100.00 |
| Metric 2 - Proportion of vertebrate species as top carnivores | 29.24 |
| Metric 3 -Percent tolerant fish | 93.23 |
| Metric 4 -Proportion of total richness as native | 100.00 |
| Metric 5 -Percent native crayfish | 100.00 |
| Metric 6 -Brook trout density | 19.80 |

| | |
|--------------------------|--------|
| Air Temperature (°C) | 16.1 |
| Water Temperature (°C) | 14.64 |
| Dissolved Oxygen (mg/L) | 9.54 |
| % Saturation | 95.7 |
| pH | 6.76 |
| Conductivity (uS/cm) | 69.4 |
| Nitrate/Nitrite (mg/L): | 0.0754 |
| Total Kjeldahl (mg/L): | 0.189 |
| Total Phosphorus (mg/L): | 0.0294 |

Headwaters IBI Score (0-100): ***73.71***

IBI Rating: ***Good***

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

Habitat Rating: ***Optimal***

Summary:

FIBI518 was rated "excellent" in 2013 and "good" in 2017. The number of brook trout captured decreased from 48 in 2013 to only 9 in 2017. Criss Brook is located in a highly forested watershed which is mostly protected within Stokes State Forest.

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| Common Name | Scientific Name | Abundance |
|-------------------------------|-----------------------------------|------------------|
| Blacknose Dace | <i>Rhinichthys atratulus</i> | 109 |
| Slimy Sculpin | <i>Cottus cognatus</i> | 22 |
| Common Crayfish | <i>Cambarus bartonii bartonii</i> | 17 |
| Creek Chub | <i>Semotilus atromaculatus</i> | 15 |
| American Eel | <i>Anguilla rostrata</i> | 11 |
| Northern Two-lined Salamander | <i>Eurycea bislineata</i> | 10 |
| Brook Trout | <i>Salvelinus fontinalis</i> | 9 |
| Green Frog | <i>Lithobates clamitans</i> | 5 |
| Sea Lamprey | <i>Petromyzon marinus</i> | 3 |
| Northern Dusky Salamander | <i>Desmognathus fuscus</i> | 2 |