

# NJS11-165-R4

## Pequest River

Brighton Rd

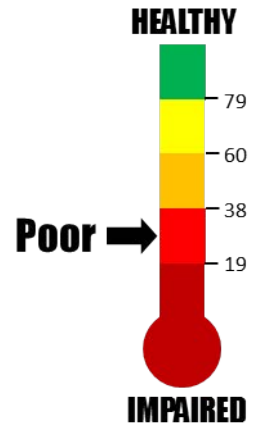
Municipality: Green Twp

County: Sussex

Drainage Area (sq miles): 13

Sample Date: 06/11/2015

Site Type: Probabilistic



### IBI Metrics

Metric 1-%Rheophilic Richness	14.09
Metric 2-%Cold Non-tolerant Coolwater	28.82
Metric 3-%Generalist Richness	69.02
Metric 4-Tolerance Index	59.21
Metric 5-%Lithophilic Richness	18.11
Metric 6-%Cyprinidae	0.00
Metric 7-%Dominant 3 Taxa	38.23
Metric 8-%Benthic Insectivore Richness	33.11

### Field Chemistry

Air Temp (°C)	32.5
Water Temperature (°C)	21.65
Dissolved Oxygen (mg/L)	9.22
% Saturation	107
pH	8.01
Conductivity (µS/cm)	483.5

***Northern Fish IBI Score (0-100): 32.57***

***IBI Rating: Poor***

***High Gradient Habitat Score (0-200): 125***

***Habitat Rating: Suboptimal***

**Summary:** This stretch of the Pequest River had no riffles and was mostly run habitat with uniform depth, which is the likely reason only one minnow (Cyprinidae) and one rheophilic species were collected. The majority of the fish species and total fish abundance consisted of warmwater taxa. Although the water temperature was relatively low during this sampling event in early June, the lack of overhead cover (69% open canopy) could easily result in much warmer stream temperatures later in summer.

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Common Name	Scientific Name	Abundance
Tessellated Darter	<i>Etheostoma olmstedii</i>	71
American Eel	<i>Anguilla rostrata</i>	60
Redbreast Sunfish	<i>Lepomis auritus</i>	40
Eastern Mudminnow	<i>Umbra pygmaea</i>	26
Redfin Pickerel	<i>Esox americanus americanus</i>	22
White Sucker	<i>Catostomus commersoni</i>	16
Margined Madtom	<i>Noturus insignis</i>	4
Chain Pickerel	<i>Esox niger</i>	2
Pumpkinseed	<i>Lepomis gibbosus</i>	2
Brown Bullhead	<i>Ameiurus nebulosus</i>	2
Bluegill	<i>Lepomis macrochirus</i>	1
Yellow Perch	<i>Perca flavescens</i>	1
Bluespotted Sunfish	<i>Enneacanthus gloriosus</i>	1
Rainbow Trout	<i>Oncorhynchus mykiss</i>	1
Creek Chub	<i>Semotilus atromaculatus</i>	1
Largemouth Bass	<i>Micropterus salmoides</i>	1