## FIBI025-R3r Peters Brook

Park Avenue @ park

**Municipality: Somerville Boro** 

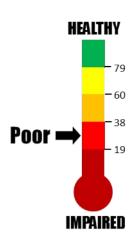
**County: Somerset** 

**Drainage Area (sq miles):** 9.6

Sample Date: 06/11/2014

Site Type: Fixed





## **IBI Metrics**

| Metric 1-%Rheophilic Richness          | 27.38 |
|--|-------|
| Metric 2-%Cold Non-tolerant Coolwater  | 20.50 |
| Metric 3-%Generalist Richness          | 45.23 |
| Metric 4-Tolerance Index               | 28.88 |
| Metric 5-%Lithophilic Richness         | 48.30 |
| Metric 6-%Cyprinidae                   | 0.00  |
| Metric 7-%Dominant 3 Taxa              | 33.44 |
| Metric 8-%Benthic Insectivore Richness | 58.87 |

## **Field Chemistry**

| Air Temp (°C)           | 18    |
|-------------------------|-------|
| Water Temperature (°C)  | 19.56 |
| Dissolved Oxygen (mg/L) | 7.05  |
| % Saturation            | 76.6  |
| рН                      | 7.37  |
| Conductivity (µS/cm)    | 869   |

Northern Fish IBI Score (0-100): 32.82

IBI Rating: Poor

High Gradient Habitat Score (0-200): 106

Habitat Rating: Marginal

**Summary:** The specific conductance measured at Peters Brook was one of the highest measured in the Fish IBI network and has been increasing since 2001. Despite collecting 7 different minnow species, only 35 individuals were collected which resulted in a score of zero for the %Cyprinidae metric. Also, over 40% of the fish community was comprised of green sunfish, an invasive sunfish species which outcompetes native sunfish.

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| <b>Common Name</b>   | Scientific Name            | Abundance |
|----------------------|----------------------------|-----------|
| Green Sunfish        | Lepomis cyanellus          | 170       |
| Tessellated Darter   | Etheostoma olmstedi        | 67        |
| Redbreast Sunfish    | Lepomis auritus            | 37        |
| American Eel         | Anguilla rostrata          | 24        |
| White Sucker         | Catostomus commersoni      | 15        |
| Banded Killifish     | Fundulus diaphanus         | 15        |
| Blacknose Dace       | Rhinichthys atratulus      | 14        |
| Margined Madtom      | Noturus insignis           | 9         |
| Longnose Dace        | Rhinichthys cataractae     | 9         |
| Pumpkinseed          | Lepomis gibbosus           | 9         |
| Creek Chub           | Semotilus atromaculatus    | 5         |
| Swallowtail Shiner   | Notropis procne            | 4         |
| Oriental Weatherfish | Misgurnus anguillicaudatus | 2         |
| Fathead Minnow       | Pimephales promelas        | 1         |
| Common Shiner        | Luxilus cornutus           | 1         |
| Comely Shiner        | Notropis amoenus           | 1         |
| Bluegill             | Lepomis macrochirus        | 1         |
| Yellow Bullhead      | Ameiurus natalis           | 1         |