

NJS11-171-R4

NB Raritan River

North Ave

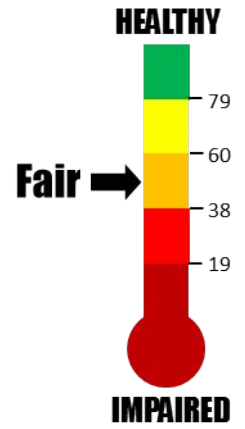
Municipality: Bridgewater Twp

County: Somerset

Drainage Area (sq miles):188

Sample Date: 09/02/2015

Site Type: Probabilistic



IBI Metrics

| | |
|----------------------------------------|--------|
| Metric 1-%Rheophilic Richness | 44.56 |
| Metric 2-%Cold Non-tolerant Coolwater | 59.37 |
| Metric 3-%Generalist Richness | 100.00 |
| Metric 4-Tolerance Index | 56.11 |
| Metric 5-%Lithophilic Richness | 31.50 |
| Metric 6-%Cyprinidae | 41.42 |
| Metric 7-%Dominant 3 Taxa | 57.78 |
| Metric 8-%Benthic Insectivore Richness | 46.07 |

Field Chemistry

| | |
|-------------------------|-------|
| Air Temp (°C) | 25.1 |
| Water Temperature (°C) | 24.01 |
| Dissolved Oxygen (mg/L) | 7.12 |
| % Saturation | 84.4 |
| pH | 7.99 |
| Conductivity (µS/cm) | 440 |

Northern Fish IBI Score (0-100): 54.60

IBI Rating: Fair

High Gradient Habitat Score (0-200): 126

Habitat Rating: Suboptimal

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| Common Name | Scientific Name | Abundance |
|------------------------|-----------------------------------|-----------|
| Redbreast Sunfish | <i>Lepomis auritus</i> | 103 |
| American Eel | <i>Anguilla rostrata</i> | 100 |
| Tessellated Darter | <i>Etheostoma olmstedi</i> | 94 |
| White Sucker | <i>Catostomus commersoni</i> | 75 |
| Banded Killifish | <i>Fundulus diaphanus</i> | 27 |
| Shield Darter | <i>Percina peltata</i> | 20 |
| Margined Madtom | <i>Noturus insignis</i> | 18 |
| Smallmouth Bass | <i>Micropterus dolomieu</i> | 18 |
| Spotfin Shiner | <i>Cyprinella spiloptera</i> | 16 |
| Swallowtail Shiner | <i>Notropis procne</i> | 12 |
| Yellow Bullhead | <i>Ameiurus natalis</i> | 11 |
| Redfin Pickerel | <i>Esox americanus americanus</i> | 9 |
| Rock Bass | <i>Ambloplites rupestris</i> | 7 |
| Green Sunfish | <i>Lepomis cyanellus</i> | 5 |
| Spottail Shiner | <i>Notropis hudsonius</i> | 4 |
| Western Mosquitofish | <i>Gambusia affinis</i> | 4 |
| Bluegill | <i>Lepomis macrochirus</i> | 3 |
| American Brook Lamprey | <i>Lethenteron appendix</i> | 2 |
| Sea Lamprey | <i>Petromyzon marinus</i> | 1 |
| Oriental Weatherfish | <i>Misgurnus anguillicaudatus</i> | 1 |
| Largemouth Bass | <i>Micropterus salmoides</i> | 1 |
| Yellow Perch | <i>Perca flavescens</i> | 1 |
| Satinfin Shiner | <i>Cyprinella analostana</i> | 1 |