

NJS11-119-R3

Saddle River

Paramus Road

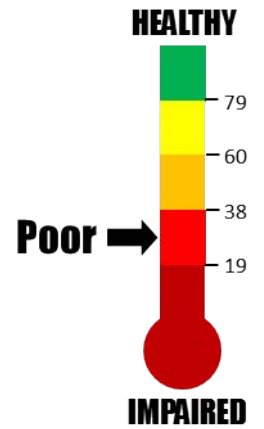
Municipality: Paramus Boro

County: Bergen

Drainage Area (sq miles): 45

Sample Date: 08/23/2012

Site Type: Probabilistic



IBI Metrics

| | |
|--|-------|
| Metric 1-%Rheophilic Richness | 8.41 |
| Metric 2-%Cold Non-tolerant Coolwater | 11.68 |
| Metric 3-%Generalist Richness | 43.83 |
| Metric 4-Tolerance Index | 1.15 |
| Metric 5-%Lithophilic Richness | 9.06 |
| Metric 6-%Cyprinidae | 13.61 |
| Metric 7-%Dominant 3 Taxa | 29.21 |
| Metric 8-%Benthic Insectivore Richness | 33.11 |

Field Chemistry

| | |
|-------------------------|-------|
| Air Temp (°C) | 23 |
| Water Temperature (°C) | 20.61 |
| Dissolved Oxygen (mg/L) | 7.5 |
| % Saturation | 83.1 |
| pH | 6.89 |
| Conductivity (µS/cm) | 833 |

Northern Fish IBI Score (0-100): 18.76

IBI Rating: Poor

High Gradient Habitat Score (0-200): 95

Habitat Rating: Marginal

Summary: The "marginal" habitat, high specific conductance, and urban development within the surrounding watershed have all likely attributed to the "poor" overall IBI score. The large number of green sunfish and the high abundance of tolerant species are indicative of an impaired stream.

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| Common Name | Scientific Name | Abundance |
|----------------------|-----------------------------------|-----------|
| Green Sunfish | <i>Lepomis cyanellus</i> | 395 |
| White Sucker | <i>Catostomus commersoni</i> | 86 |
| American Eel | <i>Anguilla rostrata</i> | 81 |
| Pumpkinseed | <i>Lepomis gibbosus</i> | 74 |
| Bluegill | <i>Lepomis macrochirus</i> | 40 |
| Tessellated Darter | <i>Etheostoma olmstedii</i> | 29 |
| Golden Shiner | <i>Notemigonus crysoleucas</i> | 20 |
| Banded Killifish | <i>Fundulus diaphanus</i> | 10 |
| Largemouth Bass | <i>Micropterus salmoides</i> | 10 |
| Oriental Weatherfish | <i>Misgurnus anguillicaudatus</i> | 6 |
| Redbreast Sunfish | <i>Lepomis auritus</i> | 3 |
| Common Carp | <i>Cyprinus carpio</i> | 2 |
| Black Crappie | <i>Pomoxis nigromaculatus</i> | 2 |
| Smallmouth Bass | <i>Micropterus dolomieu</i> | 1 |
| Western Mosquitofish | <i>Gambusia affinis</i> | 1 |
| Brown Bullhead | <i>Ameiurus nebulosus</i> | 1 |