

FIBI007-R4

Saddle River

Upper Cross Road

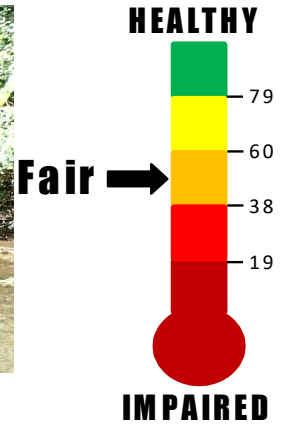
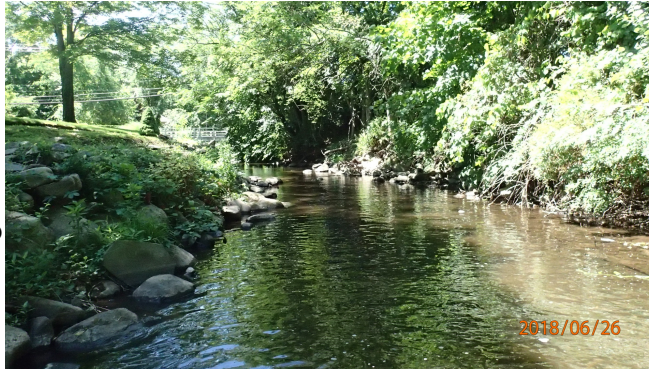
Municipality: Upper Saddle River Boro

County: Bergen

Drainage Area (sq miles): 14

Sample Date: 6 /26/2018

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	52.84
Metric 2-%Cold Non-tolerant Coolwater	88.40
Metric 3-%Generalist Richness	39.63
Metric 4-Tolerance Index	74.21
Metric 5-%Lithophilic Richness	48.30
Metric 6-%Cyprinidae	64.36
Metric 7-%Dominant 3 Taxa	53.10
Metric 8-%Benthic Insectivore Richness	44.15

Field Chemistry

Air Temp (°C)	26.2
Water Temperature (°C)	16.16
Dissolved Oxygen (mg/L)	8.5
% Saturation	85.2
pH	7.23
Conductivity (µS/cm)	804.4
Total Kjeldahl (mg/L)	0.22
Total Phosphorus (mg/L)	0.04
Nitrate/Nitrite (mg/L)	2.28

Northern Fish IBI Score (0-100): 58.12

IBI Rating: Fair

High Gradient Habitat Score (0-200): 120

Habitat Rating: Suboptimal

Summary: FIBI007 has not been sampled since 2010 and despite relatively consistent scores over the years, the number of wild brown trout collected has dropped considerably. Specific conductance has steadily increased each round of sampling from 493 µS/cm in 2000 to 804 µS/cm in 2018. The overall habitat score declined in 2018 with a higher amount of embeddedness to natural substrate compared to previous surveys.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	192
Longnose Dace	<i>Rhinichthys cataractae</i>	164
Tessellated Darter	<i>Etheostoma olmstedi</i>	153
White Sucker	<i>Catostomus commersonii</i>	78
Brown Trout	<i>Salmo trutta</i>	21
Creek Chub	<i>Semotilus atromaculatus</i>	20
American Eel	<i>Anguilla rostrata</i>	17
Pumpkinseed	<i>Lepomis gibbosus</i>	12
Green Sunfish	<i>Lepomis cyanellus</i>	12
Largemouth Bass	<i>Micropterus salmoides</i>	2
Yellow Bullhead	<i>Ameiurus natalis</i>	1
Bluegill	<i>Lepomis macrochirus</i>	1