

FIBI213-R3r

Ivanhoe Brook

Millers Mill Road

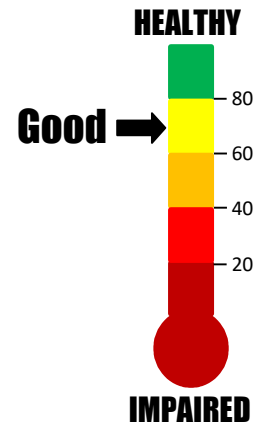
Municipality: Upper Freehold Twp

County: Monmouth

Drainage Area (sq miles): 4

Sample Date: 9 /18/2017

Site Type: Sentinel



IBI Metrics

Metric 1 - Native Sp.	85.92
Metric 2 - Benthic Sp	73.48
Metric 3 - Intolerant Sp.	62.26
Metric 4 - %Tolerant Sp.	77.24
Metric 5-%Insectivore Sp.	88.07
Metric 6 -%Piscivorous Sp.	13.38
Metric 7 - Abundance-tolerance	37.12
Metric 8-% DELTs	100.00

Field Chemistry

Air Temp (°C)	20.4
Water Temperature (°C)	19.690
Dissolved Oxygen (mg/L)	7.54
% Saturation	80.4
pH	6.28
Conductivity (µS/cm)	170.3
Total Kjeldahl (mg/L)	0.07
Nitrate/Nitrite (mg/L)	0.03
Total Phosphorus (mg/L)	0.06

Southern Fish IBI Score (0-100): 67.19

IBI Rating: Good

Low Gradient Habitat Score (0-200): 137

Habitat Rating: Suboptimal

Summary: Results have been relatively consistent at FIBI213 since this site was first sampled in 2008. Two juvenile northern snakehead *Channa argus* were collected at the site in 2015, but none were collected in this latest sampling event. There was a slight drop in the overall score and the number of piscivorous fish collected from 2015 to 2017, but it is unclear if these results are related to natural variability or can be attributed to the presence of the northern snakehead.

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Common Name	Scientific Name	Abundance
Fallfish	<i>Semotilus corporalis</i>	61
Bluegill	<i>Lepomis macrochirus</i>	18
Tessellated Darter	<i>Etheostoma olmstedii</i>	13
Pumpkinseed	<i>Lepomis gibbosus</i>	11
American Brook Lamprey	<i>Lampetra appendix</i>	8
White Sucker	<i>Catostomus commersoni</i>	8
Common Shiner	<i>Luxilus cornutus</i>	5
American Eel	<i>Anguilla rostrata</i>	4
Largemouth Bass	<i>Micropterus salmoides</i>	4
Pirate Perch	<i>Aphredoderus sayanus</i>	3
Chain Pickerel	<i>Esox niger</i>	2
Brown Bullhead	<i>Ameiurus nebulosus</i>	2
Golden Shiner	<i>Notemigonus crysoleucas</i>	1
Eastern Mudminnow	<i>Umbra pygmaea</i>	1