

FIBI035a-R4

Goffle Brook

Thomas Road

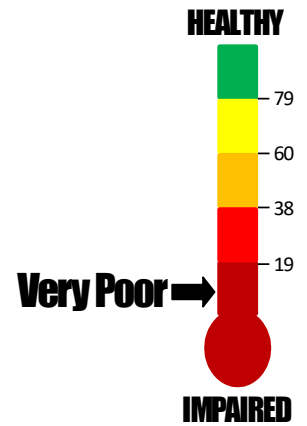
Municipality: Hawthorne Boro

County: Passaic

Drainage Area (sq miles): 9

Sample Date: 6 /21/2018

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	15.74
Metric 2-%Cold Non-tolerant Coolwater	2.30
Metric 3-%Generalist Richness	6.05
Metric 4-Tolerance Index	2.10
Metric 5-%Lithophilic Richness	36.22
Metric 6-%Cyprinidae	0.00
Metric 7-%Dominant 3 Taxa	15.51
Metric 8-%Benthic Insectivore Richness	22.08

Field Chemistry

Air Temp (°C)	22.7
Water Temperature (°C)	21.58
Dissolved Oxygen (mg/L)	
% Saturation	
pH	7.74
Conductivity (µS/cm)	891
Total Kjeldahl (mg/L)	0.63
Total Phosphorus (mg/L)	0.09
Nitrate/Nitrite (mg/L)	1.41

Northern Fish IBI Score (0-100): 12.50

IBI Rating: Very Poor

High Gradient Habitat Score (0-200): 126

Habitat Rating: Suboptimal

Summary: Scores have steadily declined at FIBI035a on Goffle Brook. In 2018, the fish community was comprised mainly of a warmwater fish community tolerant of habitat and water quality degradation. Similar to many sites in the Northeast region, specific conductance has steadily increased over the years and this latest sampling event represents the highest value since the site was first sampled.

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Common Name	Scientific Name	Abundance
Banded Killifish	<i>Fundulus diaphanus</i>	137
White Sucker	<i>Catostomus commersonii</i>	45
American Eel	<i>Anguilla rostrata</i>	45
Blacknose Dace	<i>Rhinichthys atratulus</i>	13
Tessellated Darter	<i>Etheostoma olmstedii</i>	13
Creek Chub	<i>Semotilus atromaculatus</i>	8
Redbreast Sunfish	<i>Lepomis auritus</i>	5
Green Sunfish	<i>Lepomis cyanellus</i>	3
Yellow Bullhead	<i>Ameiurus natalis</i>	2
Pumpkinseed	<i>Lepomis gibbosus</i>	2
Smallmouth Bass	<i>Micropterus dolomieu</i>	1
Brown Bullhead	<i>Ameiurus nebulosus</i>	1