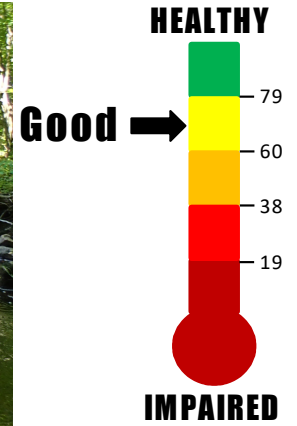


FIBI095b-R4

Passaic River

Municipality: Harding
 County: Morris
 Drainage Area (sq miles): 4
 Sample Date: 8 /23/2018
 Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	75.00
Metric 2-%Cold Non-tolerant Coolwater	79.11
Metric 3-%Generalist Richness	47.27
Metric 4-Tolerance Index	88.67
Metric 5-%Lithophilic Richness	79.03
Metric 6-%Cyprinidae	77.94
Metric 7-%Dominant 3 Taxa	86.55
Metric 8-%Benthic Insectivore Richness	24.08

Field Chemistry

Air Temp (°C)	20.1
Water Temperature (°C)	17.30
Dissolved Oxygen (mg/L)	8.4
% Saturation	93
pH	7.02
Conductivity (µS/cm)	195.6
Total Kjeldahl (mg/L)	0.31
Total Phosphorus (mg/L)	0.04
Nitrate/Nitrite (mg/L)	0.49

Northern Fish IBI Score (0-100): 69.71

IBI Rating: Good

High Gradient Habitat Score (0-200): 164

Habitat Rating: Optimal

Summary: FIBI095b is located just over one mile upstream of FIBI095a and was selected to assess the wild rainbow trout population further upstream of the Bureau's sentinel site. Sampling at the upstream location (FIBI095b) only resulted in the collection of five wild rainbow trout, but four of these specimens were young-of-the-year fish.

FIBI095b-R4

Passaic River

Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	154
Creek Chub	<i>Semotilus atromaculatus</i>	88
Common Shiner	<i>Luxilus cornutus</i>	25
Longnose Dace	<i>Rhinichthys cataractae</i>	20
White Sucker	<i>Catostomus commersonii</i>	15
Largemouth Bass	<i>Micropterus salmoides</i>	15
Redbreast Sunfish	<i>Lepomis auritus</i>	14
Brown Trout	<i>Salmo trutta</i>	13
Rainbow Trout	<i>Oncorhynchus mykiss</i>	5
Pumpkinseed	<i>Lepomis gibbosus</i>	5
Bluegill	<i>Lepomis macrochirus</i>	1