

FIBI008b-R4

Capoolong Creek

Lower Landsdown Road

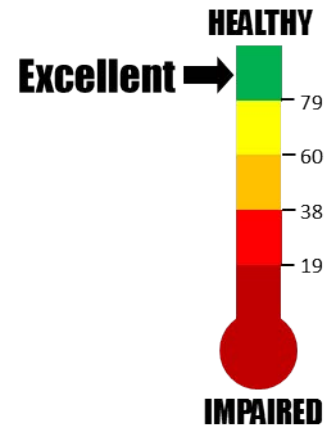
Municipality: Franklin Twp

County: Hunterdon

Drainage Area (sq miles): 14

Sample Date: 06/05/2015

Site Type: Sentinel



IBI Metrics

Metric 1-%Rheophilic Richness	65.08
Metric 2-%Cold Non-tolerant Coolwater	100.00
Metric 3-%Generalist Richness	56.43
Metric 4-Tolerance Index	85.12
Metric 5-%Lithophilic Richness	57.95
Metric 6-%Cyprinidae	92.19
Metric 7-%Dominant 3 Taxa	64.58
Metric 8-%Benthic Insectivore Richness	79.47

Field Chemistry

Air Temp (°C)	15.3
Water Temperature (°C)	14.39
Dissolved Oxygen (mg/L)	10.15
% Saturation	99.1
pH	7.55
Conductivity (µS/cm)	238.5

Northern Fish IBI Score (0-100): 75.10

IBI Rating: Good

High Gradient Habitat Score (0-200): 158

Habitat Rating: Suboptimal

Summary: FIBI008b is a sentinel site sampled on a frequent basis to assess environmental change and natural variability in the fish community. The score and rating declined slightly from 2013 to 2015, mainly a result of a decline in species richness. The absence of common shiner and smallmouth bass in 2015 resulted in declining scores for several percent richness metrics. There were no noticeable changes in the habitat or water chemistry to account for the slight decline and this change is likely a natural fluctuation.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	376
Longnose Dace	<i>Rhinichthys cataractae</i>	320
Tessellated Darter	<i>Etheostoma olmstedii</i>	119
American Eel	<i>Anguilla rostrata</i>	36
White Sucker	<i>Catostomus commersoni</i>	26
Margined Madtom	<i>Noturus insignis</i>	20
Creek Chub	<i>Semotilus atromaculatus</i>	14
Brown Trout	<i>Salmo trutta</i>	8
Green Sunfish	<i>Lepomis cyanellus</i>	3
Bluegill	<i>Lepomis macrochirus</i>	2