

FIBI438-R2

Primrose Brook

Jockey Hollow Road

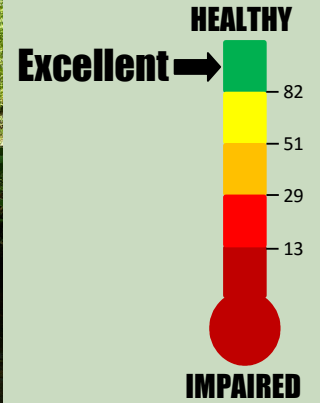
Municipality: Harding

County: Morris

Drainage Area (sq miles):1.13

Average Width (m): 3.78

Sample Date: 5 /9 /2018



Site Type: Sentinel

Metric 1 - Number of intolerant vertebrate species	100.00
Metric 2 - Proportion of vertebrate species as top carnivores	58.48
Metric 3 -Percent tolerant fish	100.00
Metric 4 -Proportion of total richness as native	100.00
Metric 5 -Percent native crayfish	100.00
Metric 6 -Brook trout density	54.46

Air Temperature (°C)	21.3
Water Temperature (°C)	12.59
Dissolved Oxygen (mg/L)	10.57
% Saturation	99.3
pH	7.03
Conductivity (uS/cm)	103.7
Nitrate/Nitrite (mg/L):	0.302
Total Kjeldahl (mg/L):	0.0921
Total Phosphorus (mg/L):	0.0176

Headwaters IBI Score (0-100): 85.49

IBI Rating: Excellent

High Gradient Habitat Score (0-200): 159

Habitat Rating: Suboptimal

Summary:

Primrose Brook is a site within the United States Environmental Protection Agency's Regional Monitoring Network(RMN) to evaluate changes in air and water temperature as well as changes in the stream's biota at least disturbed sites. Primrose Brook is also a sentinel HIBI site which is sampled every two years for Headwaters IBI monitoring. This site contains a high density of slimy sculpin, brook trout and other sensitive crayfish and salamanders. This site was rated "Excellent" when sampled in 2015 and remains in "Excellent" condition in 2018. Primrose Brook is located in a forested area and protected within the Morristown National Historical Park.

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Common Name	Scientific Name	Abundance
Slimy Sculpin	<i>Cottus cognatus</i>	183
Blacknose Dace	<i>Rhinichthys atratulus</i>	72
Brook Trout	<i>Salvelinus fontinalis</i>	33
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	24
Pickerel Frog	<i>Lithobates palustris</i>	19
Creek Chub	<i>Semotilus atromaculatus</i>	18
Common Crayfish	<i>Cambarus bartonii bartonii</i>	12
Northern Dusky Salamander	<i>Desmognathus fuscus</i>	8
Northern Red Salamander	<i>Pseudotriton ruber ruber</i>	3
Green Frog	<i>Lithobates clamitans</i>	2