

NJS2016-063-R1

Bushkill Brook

Junction Road

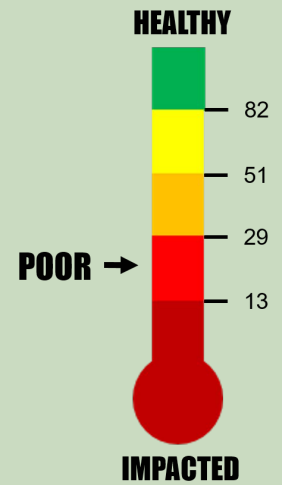
Municipality: Raritan

County: Hunterdon

Drainage Area (sq miles): 2.0

Sample Date: 8 /22/2016

Site Type: Probabilistic



Metric 1 - Number of intolerant vertebrate species	33.33
Metric 2 - Proportion of vertebrate species as top carnivores	0.00
Metric 3 -Percent tolerant fish	48.58
Metric 4 -Proportion of total richness as native	75.00
Metric 5 -Percent native crayfish	0.00
Metric 6 -Brook trout density	0.00

Air Temperature (°C)	24.2
Water Temperature (°C)	21.66
Dissolved Oxygen (mg/L)	7.76
% Saturation	87.6
pH	7.66
Conductivity (uS/cm)	686.6

Headwaters IBI Score (0-100): ***26.15***

IBI Rating: ***Poor***

High Gradient Habitat Score (0-200): ***123***

Habitat Rating: ***Suboptimal***

Summary: Bushkill Brook was rated "poor" in 2016. This site lacked both native crayfish and top carnivores and also had several tolerant fish. Water conductivity was also high at this location.

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Common Name	Scientific Name	Abundance
Banded Killifish	<i>Fundulus diaphanus</i>	233
Creek Chub	<i>Semotilus atromaculatus</i>	137
Virile Crayfish	<i>Orconectes virilis</i>	137
Blacknose Dace	<i>Rhinichthys atratulus</i>	132
Western Mosquitofish	<i>Gambusia affinis</i>	65
Tessellated Darter	<i>Etheostoma olmstedi</i>	37
White Sucker	<i>Catostomus commersoni</i>	28
Redbreast Sunfish	<i>Lepomis auritus</i>	23
Green Sunfish	<i>Lepomis cyanellus</i>	12
Spottail Shiner	<i>Notropis hudsonius</i>	10
Margined Madtom	<i>Noturus insignis</i>	8
American Eel	<i>Anguilla rostrata</i>	1