

FIBI571-R1

Molly Ann Brook

Squaw Brook Rd

Municipality: North Haledon Boro

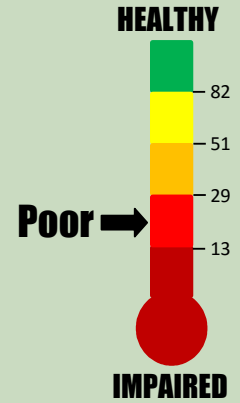
County: Passaic

Drainage Area (sq miles): 3.77

Average Width (m): 7.23

Sample Date: 5 /21/2018

Site Type: Fixed



Metric 1 - Number of intolerant vertebrate species	0.00
Metric 2 - Proportion of vertebrate species as top carnivores	0.00
Metric 3 -Percent tolerant fish	87.56
Metric 4 -Proportion of total richness as native	66.67
Metric 5 -Percent native crayfish	0.00
Metric 6 -Brook trout density	0.00

Air Temperature (°C)	22.9
Water Temperature (°C)	16.45
Dissolved Oxygen (mg/L)	9.47
% Saturation	96.1
pH	7.53
Conductivity (uS/cm)	648.2
Nitrate/Nitrite (mg/L):	1.25
Total Kjeldahl (mg/L):	0.329
Total Phosphorus (mg/L):	0.0312

Headwaters IBI Score (0-100): ***25.71***

IBI Rating: ***Poor***

High Gradient Habitat Score (0-200): ***124***

Habitat Rating: ***Suboptimal***

Summary:

Molly Ann Brook had elevated specific conductivity, eroded stream banks and habitat characteristic of a "flashy" urban stream. The aquatic assemblage was composed of many tolerant taxa.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	210
Tessellated Darter	<i>Etheostoma olmstedii</i>	150
Green Sunfish	<i>Lepomis cyanellus</i>	26
Virile Crayfish	<i>Orconectes virilis</i>	17
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	16
White Sucker	<i>Catostomus commersonii</i>	15
Pumpkinseed	<i>Lepomis gibbosus</i>	7
Golden Shiner	<i>Notemigonus crysoleucas</i>	1
Fathead Minnow	<i>Pimephales promelas</i>	1