

# FIBI542-R2

## Mossmans Brook

Clinton Road

Municipality: West Milford

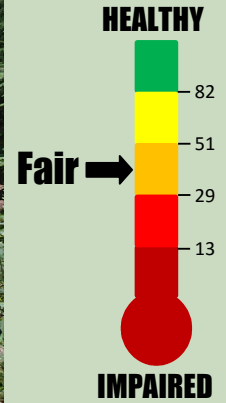
County: Passaic

Drainage Area (sq miles): 3.77

Average Width (m): 9.03

Sample Date: 8/31/2018

Site Type: Sentinel



Metric 1 - Number of intolerant vertebrate species	33.33
Metric 2 - Proportion of vertebrate species as top carnivores	82.24
Metric 3 -Percent tolerant fish	85.13
Metric 4 -Proportion of total richness as native	82.35
Metric 5 -Percent native crayfish	0.00
Metric 6 -Brook trout density	0.00

Air Temperature (°C)	20.6
Water Temperature (°C)	20.56
Dissolved Oxygen (mg/L)	7.52
% Saturation	84.8
pH	6.27
Conductivity (uS/cm)	85
Nitrate/Nitrite (mg/L):	0.13
Total Kjeldahl (mg/L):	0.316
Total Phosphorus (mg/L):	0.0281

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***Headwaters IBI Score (0-100):*** ***47.18***

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***IBI Rating:*** ***Fair***

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***High Gradient Habitat Score (0-200):*** ***164***

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***Habitat Rating:*** ***Optimal***

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**Summary:**

Mossmans Brook is a site within the United States Environmental Protection Agency's Regional Monitoring Network to evaluate changes in air and water temperature as well as changes in the stream's biota at least disturbed sites. The site was rated "fair" in 2015 and 2018.

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<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Blacknose Dace	<i>Rhinichthys atratulus</i>	29
Green Frog	<i>Lithobates clamitans</i>	26
Virile Crayfish	<i>Orconectes virilis</i>	23
Redbreast Sunfish	<i>Lepomis auritus</i>	19
Creek Chub	<i>Semotilus atromaculatus</i>	19
Tessellated Darter	<i>Etheostoma olmstedi</i>	17
White Sucker	<i>Catostomus commersonii</i>	17
Northern Red Salamander	<i>Pseudotriton ruber ruber</i>	7
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	6
Chain Pickerel	<i>Esox niger</i>	6
Eastern Mudminnow	<i>Umbra pygmaea</i>	4
Fallfish	<i>Semotilus corporalis</i>	4
Bullfrog	<i>Lithobates catesbeianus</i>	2
Largemouth Bass	<i>Micropterus salmoides</i>	2
Pickerel Frog	<i>Lithobates palustris</i>	1
Smallmouth Bass	<i>Micropterus dolomieu</i>	1
Yellow Bullhead	<i>Ameiurus natalis</i>	1