

# FIBI523-R1

## Mill Brook Tributary

Clove Rd

Municipality: Montague

County: Sussex

Drainage Area (sq miles): 0.7

Sample Date: 7/18/2013

Site Type: Sentinel



Metric 1 - Number of intolerant vertebrate species	100.00
Metric 2 - Proportion of vertebrate species as top carnivores	100.00
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	26.40

Air Temperature (°C)	27.6
Water Temperature (°C)	21.65
Dissolved Oxygen (mg/L)	8.22
% Saturation	92
pH	6.79
Conductivity (uS/cm)	85

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***Headwaters IBI Score (0-100):*** ***87.73***

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***IBI Rating:*** ***Excellent***

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***High Gradient Habitat Score (0-200):*** ***167***

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

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**Summary:** FIBI523 is a sentinel site which is sampled every three years for Headwaters IBI monitoring to evaluate assemblage changes through time and to better understand natural variability. Mill Brook Tributary was in "excellent" condition when sampled in 2013. This site contains many intolerant species including the only northern spring salamander found to date in HIBI monitoring. This site is in a highly forested watershed and mostly protected on the New Jersey Natural Lands Trust Reinhardt Preserve.

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<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Green Frog	<i>Lithobates clamitans</i>	11
Common Crayfish	<i>Cambarus bartonii bartonii</i>	9
Brook Trout	<i>Salvelinus fontinalis</i>	8
Northern Dusky Salamander	<i>Desmognathus fuscus</i>	4
Northern Red Salamander	<i>Pseudotriton ruber ruber</i>	2
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	2
Northern Spring Salamander	<i>Gyrinophilus porphyriticus porphyriticus</i>	1