

# FIBI515-R2

## Pumpkin Patch Brook

Inman Avenue

Municipality: Woodbridge

County: Middlesex

Drainage Area (sq miles): 1.53

Average Width (m): 6.16

Sample Date: 7/30/2019

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	6.53
Metric 4 - Proportion of total richness as native	63.64
Metric 5 - Percent native crayfish	0.00
Metric 6 - Brook trout density	0.00

Air Temperature (°C)	33
Water Temperature (°C)	26.21
Dissolved Oxygen (mg/L)	9.98
% Saturation	121.2
pH	8.62
Conductivity (uS/cm)	860.1
Nitrate/Nitrite (mg/L):	1.74
Total Kjeldahl (mg/L):	0.38
Total Phosphorus (mg/L):	0.0833

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***Headwaters IBI Score (0-100):*** ***11.69***

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***IBI Rating:*** ***Very Poor***

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***High Gradient Habitat Score (0-200):*** ***112***

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***Habitat Rating:*** ***Suboptimal***

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**Summary:** FIBI515 was rated "poor" in 2013 and 2014 and declined to "very poor" in 2019. Pumpkin Patch Brook contained mostly tolerant and generalist fish and had excessive amounts of filamentous algae throughout much of the reach.

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## Pumpkin Patch Brook

<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Mummichog	<i>Fundulus heteroclitus</i>	222
Banded Killifish	<i>Fundulus diaphanus</i>	220
Tessellated Darter	<i>Etheostoma olmstedii</i>	53
White Sucker	<i>Catostomus commersonii</i>	46
Fathead Minnow	<i>Pimephales promelas</i>	21
Western Mosquitofish	<i>Gambusia affinis</i>	11
Blacknose Dace	<i>Rhinichthys atratulus</i>	5
Northern Two-lined Salamander	<i>Eurycea bislineata</i>	4
Red Swamp Crayfish	<i>Procambarus clarkii</i>	2
Pumpkinseed	<i>Lepomis gibbosus</i>	1
Bluegill	<i>Lepomis macrochirus</i>	1