

# FIBI514-R2

## Peach Orchard Brook

Hussa Street

Municipality: Linden

County: Union

Drainage Area (sq miles): 2.86

Average Width (m): 4.38

Sample Date: 7/23/2019

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	0.00
Metric 4 -Proportion of total richness as native	42.86
Metric 5 -Percent native crayfish	0.00
Metric 6 -Brook trout density	0.00

Air Temperature (°C)	23.2
Water Temperature (°C)	24.23
Dissolved Oxygen (mg/L)	6.58
% Saturation	77.9
pH	6.69
Conductivity (uS/cm)	217.7
Nitrate/Nitrite (mg/L):	0.921
Total Kjeldahl (mg/L):	0.741
Total Phosphorus (mg/L):	0.161

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***Headwaters IBI Score (0-100):*** ***7.14***

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

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***High Gradient Habitat Score (0-200):*** ***109***

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***Habitat Rating:*** ***Marginal***

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### Summary:

Peach Orchard Brook was rated "very poor" in 2013, 2014 and 2019. This site contained tolerant fish and a non native crayfish. Peach Orchard Brook is located adjacent to a park and lacked suitable habitat, had poor bank stability, and had several stormwater outfalls.

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## Peach Orchard Brook

<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Banded Killifish	<i>Fundulus diaphanus</i>	197
Mummichog	<i>Fundulus heteroclitus</i>	58
Green Sunfish	<i>Lepomis cyanellus</i>	6
Pumpkinseed	<i>Lepomis gibbosus</i>	2
Western Mosquitofish	<i>Gambusia affinis</i>	2
Red Swamp Crayfish	<i>Procambarus clarkii</i>	1
Bluegill	<i>Lepomis macrochirus</i>	1