

FIBI513-R1

Lightning Brook

Union Avenue

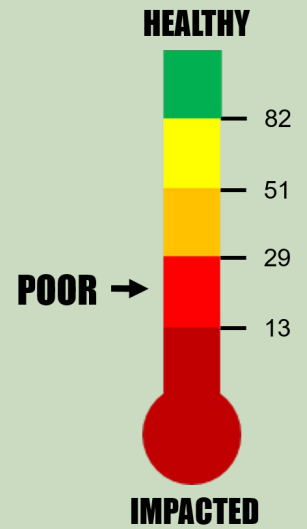
Municipality: Union

County: Union

Drainage Area (sq miles): 2.7

Sample Date: 5/3/2013

Site Type: Validation



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	80.00
Metric 5 -Percent native crayfish	0.00
Metric 6 -Brook trout density	0.00

Air Temperature (°C)	15
Water Temperature (°C)	13.62
Dissolved Oxygen (mg/L)	11.75
% Saturation	112.1
pH	6.37
Conductivity (uS/cm)	788

Headwaters IBI Score (0-100): ***13.33***

IBI Rating: ***Poor***

High Gradient Habitat Score (0-200): ***114***

Habitat Rating: ***Suboptimal***

Summary:

FIBI513 was rated "poor" in 2013. Lightning Brook was dominated by tolerant fish, 94% of which were one species the mummichog. The stream had a high conductivity and had several stormwater outfalls.

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Common Name	Scientific Name	Abundance
Mummichog	<i>Fundulus heteroclitus</i>	1697
Banded Killifish	<i>Fundulus diaphanus</i>	94
Fathead Minnow	<i>Pimephales promelas</i>	11
American Eel	<i>Anguilla rostrata</i>	1
Brown Bullhead	<i>Ameiurus nebulosus</i>	1