

FIBI071-R3

Ambrose Brook

Melrose Avenue

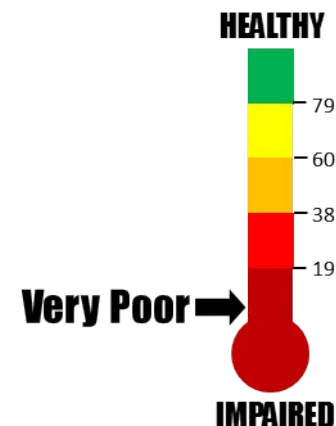
Municipality: Middlesex Boro

County: Middlesex

Drainage Area (sq miles): 14

Sample Date: 06/24/2014

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	0.00
Metric 2-%Cold Non-tolerant Coolwater	11.25
Metric 3-%Generalist Richness	16.12
Metric 4-Tolerance Index	37.32
Metric 5-%Lithophilic Richness	0.00
Metric 6-%Cyprinidae	0.00
Metric 7-%Dominant 3 Taxa	47.10
Metric 8-%Benthic Insectivore Richness	26.49

Field Chemistry

Air Temp (°C)	28.3
Water Temperature (°C)	20.7
Dissolved Oxygen (mg/L)	7.8
% Saturation	86.8
pH	7.42
Conductivity (µS/cm)	714.8

Northern Fish IBI Score (0-100): 17.29

IBI Rating: Very Poor

High Gradient Habitat Score (0-200): 101

Habitat Rating: Marginal

Summary: Numerous habitat and water quality issues were noted at FIBI071 including relatively high conductivity, "marginal" habitat, siltation, and embedded substrate. The fish community in 2008 contained a number of spottail shiner and creek chub which were not collected in the 2014 sample.

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Common Name	Scientific Name	Abundance
Redbreast Sunfish	<i>Lepomis auritus</i>	86
Green Sunfish	<i>Lepomis cyanellus</i>	82
Tessellated Darter	<i>Etheostoma olmstedi</i>	57
American Eel	<i>Anguilla rostrata</i>	43
White Sucker	<i>Catostomus commersoni</i>	23
Pumpkinseed	<i>Lepomis gibbosus</i>	23
Bluegill	<i>Lepomis macrochirus</i>	18
Yellow Bullhead	<i>Ameiurus natalis</i>	10
Hybrid Green Sunfish x Pumpkinseed	<i>Lepomis cxg</i>	10
Largemouth Bass	<i>Micropterus salmoides</i>	5
Brown Bullhead	<i>Ameiurus nebulosus</i>	3