

FIBI019-R3r

Rahway River

Church Street

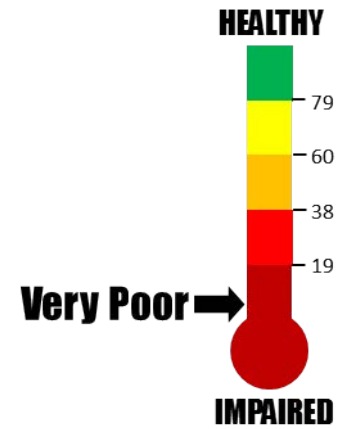
Municipality: Rahway City

County: Union

Drainage Area (sq miles): 42

Sample Date: 06/18/2014

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	7.25
Metric 2-%Cold Non-tolerant Coolwater	22.13
Metric 3-%Generalist Richness	36.28
Metric 4-Tolerance Index	19.18
Metric 5-%Lithophilic Richness	0.00
Metric 6-%Cyprinidae	11.07
Metric 7-%Dominant 3 Taxa	1.76
Metric 8-%Benthic Insectivore Richness	26.49

Field Chemistry

Air Temp (°C)	30
Water Temperature (°C)	23.41
Dissolved Oxygen (mg/L)	7.44
% Saturation	87.4
pH	7.4
Conductivity (µS/cm)	670.2

Northern Fish IBI Score (0-100): 15.52

IBI Rating: Very Poor

High Gradient Habitat Score (0-200): 100

Habitat Rating: Marginal

Summary: Numerous impairments to the fish community and habitat were noted at FIBI019 in 2014. The fish community was dominated by one species and important trophic taxa and top predators were either in very low abundance or were not present. The stream has numerous storm water outfalls, the banks are armored with concrete slabs, and the river lacks a riparian buffer and adequate bank vegetation.

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Common Name	Scientific Name	Abundance
American Eel	<i>Anguilla rostrata</i>	249
Redbreast Sunfish	<i>Lepomis auritus</i>	62
Tessellated Darter	<i>Etheostoma olmstedii</i>	55
Banded Killifish	<i>Fundulus diaphanus</i>	18
Spottail Shiner	<i>Notropis hudsonius</i>	8
Bluegill	<i>Lepomis macrochirus</i>	3
Green Sunfish	<i>Lepomis cyanellus</i>	3
Pumpkinseed	<i>Lepomis gibbosus</i>	1
Largemouth Bass	<i>Micropterus salmoides</i>	1
White Sucker	<i>Catostomus commersoni</i>	1