

FIBI084-R3

Robinsons Branch

Central Avenue

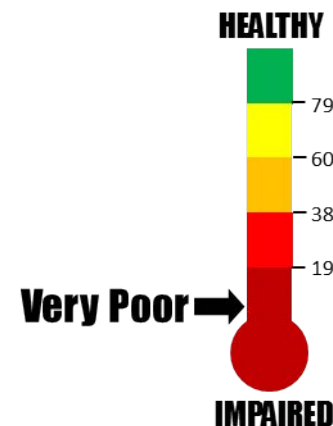
Municipality: Rahway City

County: Union

Drainage Area (sq miles): 22

Sample Date: 07/10/2014

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	0.00
Metric 2-%Cold Non-tolerant Coolwater	3.81
Metric 3-%Generalist Richness	39.63
Metric 4-Tolerance Index	32.80
Metric 5-%Lithophilic Richness	0.00
Metric 6-%Cyprinidae	0.00
Metric 7-%Dominant 3 Taxa	29.10
Metric 8-%Benthic Insectivore Richness	22.08

Field Chemistry

Air Temp (°C)	24.8
Water Temperature (°C)	24.5
Dissolved Oxygen (mg/L)	6.57
% Saturation	78.5
pH	7.04
Conductivity (µS/cm)	208.7

Northern Fish IBI Score (0-100): 15.93

IBI Rating: Very Poor

High Gradient Habitat Score (0-200): 115

Habitat Rating: Suboptimal

Summary: The impacts to FIBI084 are unclear. The low scoring metrics are indicative of impacts to stream flow, substrate, and habitat diversity. These impacts however were not observed in the habitat assessment, as the substrate consisted of relatively clean gravel. In addition, there was an equal distribution of riffle, run, and pool habitats, and the overall discharge (7.18 ft/s) is comparable to other streams this size. The only impacts noted were an abundance of duckweed and debris/broken glass in the stream. Several specimens collected were in poor condition with skin lesions which may indicate a water quality issue not captured with basic in-situ field measurements.

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Common Name	Scientific Name	Abundance
American Eel	<i>Anguilla rostrata</i>	195
Redbreast Sunfish	<i>Lepomis auritus</i>	102
Black Crappie	<i>Pomoxis nigromaculatus</i>	29
Banded Killifish	<i>Fundulus diaphanus</i>	24
Bluegill	<i>Lepomis macrochirus</i>	23
Tessellated Darter	<i>Etheostoma olmstedii</i>	21
White Sucker	<i>Catostomus commersoni</i>	18
Largemouth Bass	<i>Micropterus salmoides</i>	18
Brown Bullhead	<i>Ameiurus nebulosus</i>	6
Pumpkinseed	<i>Lepomis gibbosus</i>	2
Green Sunfish	<i>Lepomis cyanellus</i>	2
Spottail Shiner	<i>Notropis hudsonius</i>	1