

FIBI073-R3

Rockaway River SB

Windy Acres Road

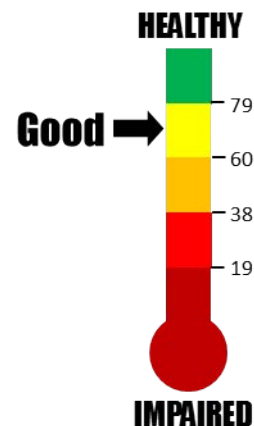
Municipality: Clinton Twp

County: Hunterdon

Drainage Area (sq miles): 5.7

Sample Date: 07/15/2014

Site Type: Fixed



IBI Metrics

Metric 1-%Rheophilic Richness	52.75
Metric 2-%Cold Non-tolerant Coolwater	95.75
Metric 3-%Generalist Richness	36.28
Metric 4-Tolerance Index	87.94
Metric 5-%Lithophilic Richness	72.44
Metric 6-%Cyprinidae	94.13
Metric 7-%Dominant 3 Taxa	82.56
Metric 8-%Benthic Insectivore Richness	52.98

Field Chemistry

Air Temp (°C)	24.8
Water Temperature (°C)	20.1
Dissolved Oxygen (mg/L)	8.71
% Saturation	97.2
pH	7.65
Conductivity (µS/cm)	420.5

Northern Fish IBI Score (0-100): 71.85

IBI Rating: Good

High Gradient Habitat Score (0-200): 149

Habitat Rating: Suboptimal

Summary: The South Branch Rockaway Creek is a manipulated system due to occasional releases from Round Valley Reservoir. Discharge during IBI sampling is typically around 6-8-cfs compared to flows exceeding 100-cfs for extended periods during release episodes. These man-made flow alterations can not only affect the fish community in general, but can impact a variety of fish functions like feeding and spawning depending on the the timing of the release. The Bureau has collected an additional 2 species during each sampling event since 2002, with green sunfish being the most concerning.

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Common Name	Scientific Name	Abundance
Blacknose Dace	<i>Rhinichthys atratulus</i>	309
Longnose Dace	<i>Rhinichthys cataractae</i>	170
Tessellated Darter	<i>Etheostoma olmstedii</i>	37
White Sucker	<i>Catostomus commersoni</i>	13
Brown Trout	<i>Salmo trutta</i>	8
Creek Chub	<i>Semotilus atromaculatus</i>	7
Common Shiner	<i>Luxilus cornutus</i>	2
Golden Shiner	<i>Notemigonus crysoleucas</i>	2
Green Sunfish	<i>Lepomis cyanellus</i>	1
Pumpkinseed	<i>Lepomis gibbosus</i>	1