

NJS2016-040-R4

South Branch Raritan River

Vemoy Rd.

Municipality: Lebanon Twp

County: Hunterdon

Drainage Area (sq miles): 56

Sample Date: 08/10/2016

Site Type: Probabilistic



IBI Metrics

Metric 1-%Rheophilic Richness	72.84
Metric 2-%Cold Non-tolerant Coolwater	57.41
Metric 3-%Generalist Richness	81.62
Metric 4-Tolerance Index	54.07
Metric 5-%Lithophilic Richness	60.37
Metric 6-%Cyprinidae	49.95
Metric 7-%Dominant 3 Taxa	42.73
Metric 8-%Benthic Insectivore Richness	33.11

Field Chemistry

Air Temp (°C)	23.1
Water Temperature (°C)	20.49
Dissolved Oxygen (mg/L)	7.07
% Saturation	78.3
pH	7.52
Conductivity (µS/cm)	394.9

Northern Fish IBI Score (0-100): 56.51

IBI Rating: Fair

High Gradient Habitat Score (0-200): 141

Habitat Rating: Suboptimal

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Common Name	Scientific Name	Abundance
White Sucker	<i>Catostomus commersonii</i>	363
Tessellated Darter	<i>Etheostoma olmstedii</i>	181
Redbreast Sunfish	<i>Lepomis auritus</i>	144
Longnose Dace	<i>Rhinichthys cataractae</i>	107
Blacknose Dace	<i>Rhinichthys atratulus</i>	82
Spottail Shiner	<i>Notropis hudsonius</i>	68
American Eel	<i>Anguilla rostrata</i>	22
Creek Chub	<i>Semotilus atromaculatus</i>	16
Margined Madtom	<i>Noturus insignis</i>	13
Swallowtail Shiner	<i>Notropis procne</i>	13
Brown Trout	<i>Salmo trutta</i>	12
Rock Bass	<i>Ambloplites rupestris</i>	9
American Brook Lamprey	<i>Lethenteron appendix</i>	5
Largemouth Bass	<i>Micropterus salmoides</i>	4
Banded Killifish	<i>Fundulus diaphanus</i>	4
Common Shiner	<i>Luxilus cornutus</i>	3
Eastern Mudminnow	<i>Umbra pygmaea</i>	1
Smallmouth Bass	<i>Micropterus dolomieu</i>	1
Redfin Pickerel	<i>Esox americanus americanus</i>	1
Rainbow Trout	<i>Oncorhynchus mykiss</i>	1
Golden Shiner	<i>Notemigonus crysoleucas</i>	1
Bluespotted Sunfish	<i>Enneacanthus gloriosus</i>	1
Yellow Bullhead	<i>Ameiurus natalis</i>	1
Green Sunfish	<i>Lepomis cyanellus</i>	1