

NJS11-154-R3

Flat Brook

Lower Mountain Road

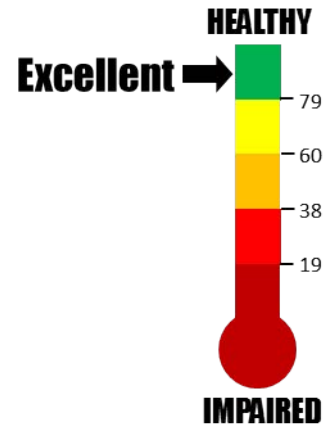
Municipality: Walpack Twp

County: Sussex

Drainage Area (sq miles): 65

Sample Date: 08/29/2013

Site Type: Probabilistic



IBI Metrics

Metric 1-%Rheophilic Richness	82.47
Metric 2-%Cold Non-tolerant Coolwater	80.10
Metric 3-%Generalist Richness	100.00
Metric 4-Tolerance Index	80.58
Metric 5-%Lithophilic Richness	99.61
Metric 6-%Cyprinidae	84.18
Metric 7-%Dominant 3 Taxa	66.80
Metric 8-%Benthic Insectivore Richness	99.34

Field Chemistry

Air Temp (°C)	22.1
Water Temperature (°C)	19.03
Dissolved Oxygen (mg/L)	9.11
% Saturation	99.3
pH	7.98
Conductivity (µS/cm)	229.2

Northern Fish IBI Score (0-100): 86.64

IBI Rating: Excellent

High Gradient Habitat Score (0-200): 176

Habitat Rating: Optimal

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Common Name	Scientific Name	Abundance
American Eel	<i>Anguilla rostrata</i>	143
Blacknose Dace	<i>Rhinichthys atratulus</i>	136
Longnose Dace	<i>Rhinichthys cataractae</i>	69
Cutlips Minnow	<i>Exoglossum maxillingua</i>	44
Shield Darter	<i>Percina peltata</i>	37
Tessellated Darter	<i>Etheostoma olmstedii</i>	27
Northern Hogsucker	<i>Hypentelium nigricans</i>	19
Rock Bass	<i>Ambloplites rupestris</i>	7
Fallfish	<i>Semotilus corporalis</i>	6
White Sucker	<i>Catostomus commersoni</i>	5
Creek Chub	<i>Semotilus atromaculatus</i>	5
Margined Madtom	<i>Noturus insignis</i>	4
Common Shiner	<i>Luxilus cornutus</i>	4
Sea Lamprey	<i>Petromyzon marinus</i>	3
Smallmouth Bass	<i>Micropterus dolomieu</i>	2
Brown Trout	<i>Salmo trutta</i>	1