

# NJS11-153-R3

## Passaic River

off Oxford Court

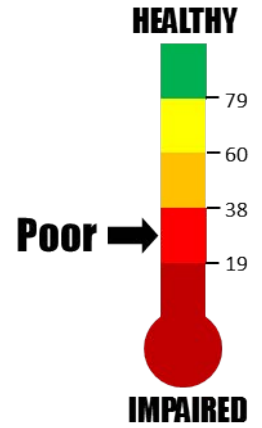
Municipality: Chatham Twp

County: Morris

Drainage Area (sq miles): 98

Sample Date: 08/26/2014

Site Type: Probabilistic



### IBI Metrics

Metric 1-%Rheophilic Richness	19.35
Metric 2-%Cold Non-tolerant Coolwater	67.15
Metric 3-%Generalist Richness	28.95
Metric 4-Tolerance Index	77.85
Metric 5-%Lithophilic Richness	0.00
Metric 6-%Cyprinidae	22.91
Metric 7-%Dominant 3 Taxa	17.68
Metric 8-%Benthic Insectivore Richness	24.08

### Field Chemistry

Air Temp (°C)	29
Water Temperature (°C)	21.67
Dissolved Oxygen (mg/L)	6.12
% Saturation	69.5
pH	7.14
Conductivity (µS/cm)	534.4

***Northern Fish IBI Score (0-100): 32.25***

***IBI Rating: Poor***

***High Gradient Habitat Score (0-200): 108***

***Habitat Rating: Marginal***

**Summary:** NJS11-153 on the Passaic River lacked riffle habitat which impacts those fish species preferring flowing water (rheophilic sp.) and the substrate was comprised of a high percentage of fine sediments which impairs spawning for those fish requiring clean substrate (lithophilic sp.).

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Common Name	Scientific Name	Abundance
Tessellated Darter	<i>Etheostoma olmstedii</i>	134
Redbreast Sunfish	<i>Lepomis auritus</i>	103
Chain Pickerel	<i>Esox niger</i>	13
Pumpkinseed	<i>Lepomis gibbosus</i>	13
White Sucker	<i>Catostomus commersoni</i>	12
Yellow Bullhead	<i>Ameiurus natalis</i>	10
Green Sunfish	<i>Lepomis cyanellus</i>	9
Redfin Pickerel	<i>Esox americanus americanus</i>	8
Bluegill	<i>Lepomis macrochirus</i>	3
Largemouth Bass	<i>Micropterus salmoides</i>	2
Golden Shiner	<i>Notemigonus crysoleucas</i>	1