

# NJS11-263-R3

## Budd Run

Woodfield Crossing

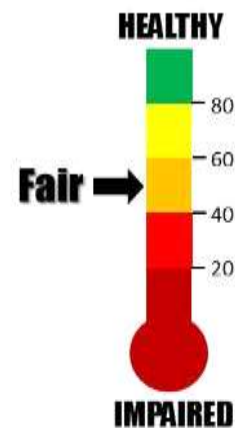
Municipality: Pemberton

County: Burlington

Drainage Area (sq miles): 5.9

Sample Date: 08/13/2015

Site Type: Probabilistic



### IBI Metrics

Metric 1 - Native Sp.	68.60
Metric 2 - Benthic Sp	68.98
Metric 3 - Intolerant Sp.	53.96
Metric 4 - %Tolerant Sp.	77.38
Metric 5-%Insectivore Sp.	50.28
Metric 6 -%Piscivorous Sp.	6.05
Metric 7 - Abundance-tolerance	41.14
Metric 8-% DELTs	100.00

### Field Chemistry

Air Temp (°C)	22.8
Water Temperature (°C)	19.67
Dissolved Oxygen (mg/L)	7.45
% Saturation	81
pH	7.23
Conductivity (µS/cm)	252.4

***Southern Fish IBI Score (0-100): 58.30***

***IBI Rating: Fair***

***Low Gradient Habitat Score (0-200): 133***

***Habitat Rating: Suboptimal***

**Summary:** The fish community consisted of all NJ native fish species, which is a rare occurrence in the Inner Coastal Plain due to years of stocking and naturalization of several nonnatives. Observed habitat impacts are likely related to hydromodification, as numerous point and channels sediment bars are present throughout the stretch and the stream lacks sinuosity.

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<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Tessellated Darter	<i>Etheostoma olmstedii</i>	72
Fallfish	<i>Semotilus corporalis</i>	27
American Eel	<i>Anguilla rostrata</i>	26
Pumpkinseed	<i>Lepomis gibbosus</i>	9
White Sucker	<i>Catostomus commersoni</i>	7
Eastern Mudminnow	<i>Umbra pygmaea</i>	5
Chain Pickerel	<i>Esox niger</i>	3
Mud Sunfish	<i>Acantharchus pomotis</i>	3
Tadpole Madtom	<i>Noturus gyrinus</i>	3
Redbreast Sunfish	<i>Lepomis auritus</i>	1