

NJS11-252-R2

Burnt Mill Branch

off Mill Road

Municipality: Vineland City

County: Cumberland

Drainage Area (sq miles): 7.1

Sample Date: 09/11/2014

Site Type: Probabilistic



IBI Metrics

Metric 1 - Native Sp.	73.79
Metric 2 - Benthic Sp	100.00
Metric 3 - Intolerant Sp.	100.00
Metric 4 - %Tolerant Sp.	99.07
Metric 5-%Insectivore Sp.	100.00
Metric 6 -%Piscivorous Sp.	20.42
Metric 7 - Abundance-tolerance	76.59
Metric 8-% DELTs	74.54

Field Chemistry

Air Temp (°C)	26.1
Water Temperature (°C)	17.79
Dissolved Oxygen (mg/L)	6.88
% Saturation	72.3
pH	6.25
Conductivity (µS/cm)	168.1

Southern Fish IBI Score (0-100): 80.55

IBI Rating: Excellent

Low Gradient Habitat Score (0-200): 156

Habitat Rating: Suboptimal

Summary: This stretch of Burnt Mill Branch exemplified a least impaired Inner Coastal Plain stream with ample large woody debris, roots wads, aquatic macrophytes, and good substrate and flow. As such, the resident fish community was comprised of a healthy mix of mostly native species, with just 1 nonnative species collected.

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Common Name	Scientific Name	Abundance
Pirate Perch	<i>Aphredoderus sayanus</i>	103
Eastern Mudminnow	<i>Umbra pygmaea</i>	53
Tessellated Darter	<i>Etheostoma olmstedi</i>	29
Chain Pickerel	<i>Esox niger</i>	15
Mud Sunfish	<i>Acantharchus pomotis</i>	12
Creek Chubsucker	<i>Erimyzon oblongus</i>	8
Tadpole Madtom	<i>Noturus gyrinus</i>	3
Yellow Bullhead	<i>Ameiurus natalis</i>	3
Pumpkinseed	<i>Lepomis gibbosus</i>	2
American Eel	<i>Anguilla rostrata</i>	1
Swamp Darter	<i>Etheostoma fusiforme</i>	1
Bluegill	<i>Lepomis macrochirus</i>	1