

# FIBI048-R4

## Buckhorn Creek

Reeder Road

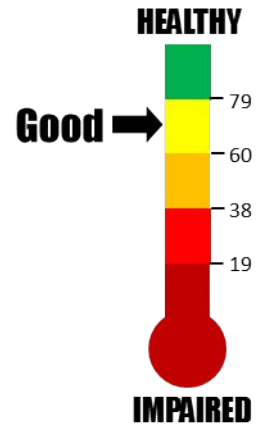
Municipality: Harmony Twp

County: Warren

Drainage Area (sq miles): 7.8

Sample Date: 07/27/2015

Site Type: Sentinel



### IBI Metrics

Metric 1-%Rheophilic Richness	48.50
Metric 2-%Cold Non-tolerant Coolwater	84.27
Metric 3-%Generalist Richness	97.92
Metric 4-Tolerance Index	80.11
Metric 5-%Lithophilic Richness	68.18
Metric 6-%Cyprinidae	72.66
Metric 7-%Dominant 3 Taxa	100.00
Metric 8-%Benthic Insectivore Richness	62.33

### Field Chemistry

Air Temp (°C)	24
Water Temperature (°C)	19.46
Dissolved Oxygen (mg/L)	9.38
% Saturation	102.4
pH	7.8
Conductivity (µS/cm)	189.1

***Northern Fish IBI Score (0-100): 76.75***

***IBI Rating: Good***

***High Gradient Habitat Score (0-200): 153***

***Habitat Rating: Suboptimal***

**Summary:** FIBI048 is a sentinel site sampled on a frequent basis to assess environmental change and natural variability in the fish community. Despite small changes in the overall IBI score over time, the fish community does appear to be changing. 2013 was the last time wild rainbow trout were collected and young-of-the-year brown trout have not been collected from this FW2-TPC1 stream since 2007, an indication that natural brown trout reproduction may no longer occur in this section. Temperature loggers placed in the stream in 2011 documented several large temperature spikes not related to storm events. In late July 2011, water temperatures exceeded 28 degrees Celsius and on another occasion in late August water temperatures spiked from 16 to almost 25 degrees Celsius in a 48-hour period.

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<b>Common Name</b>	<b>Scientific Name</b>	<b>Abundance</b>
Blacknose Dace	<i>Rhinichthys atratulus</i>	429
Tessellated Darter	<i>Etheostoma olmstedii</i>	89
Longnose Dace	<i>Rhinichthys cataractae</i>	53
American Eel	<i>Anguilla rostrata</i>	53
Creek Chub	<i>Semotilus atromaculatus</i>	44
Green Sunfish	<i>Lepomis cyanellus</i>	27
White Sucker	<i>Catostomus commersoni</i>	25
Fallfish	<i>Semotilus corporalis</i>	22
Northern Hogsucker	<i>Hypentelium nigricans</i>	16
Margined Madtom	<i>Noturus insignis</i>	14
Sea Lamprey	<i>Petromyzon marinus</i>	10
Largemouth Bass	<i>Micropterus salmoides</i>	5
Smallmouth Bass	<i>Micropterus dolomieu</i>	5
Brown Trout	<i>Salmo trutta</i>	4
Common Shiner	<i>Luxilus cornutus</i>	3
Satinfin Shiner	<i>Cyprinella analostana</i>	2
Golden Shiner	<i>Notemigonus crysoleucas</i>	1