

FIBI503-R1

Diamond Brook

Harristown Road

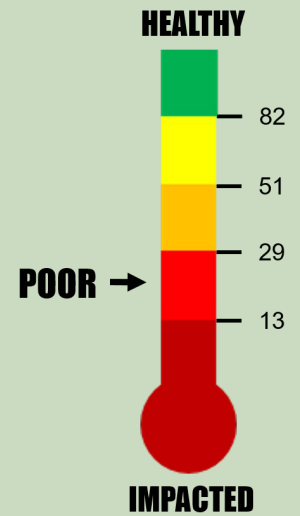
Municipality: Fair Lawn

County: Bergen

Drainage Area (sq miles): 2.7

Sample Date: 9/15/2013

Site Type: Validation



| | |
|---|-------|
| Metric 1 - Number of intolerant vertebrate species | 0.00 |
| Metric 2 - Proportion of vertebrate species as top carnivores | 23.92 |
| Metric 3 -Percent tolerant fish | 70.82 |
| Metric 4 -Proportion of total richness as native | 58.33 |
| Metric 5 -Percent native crayfish | 0.00 |
| Metric 6 -Brook trout density | 0.00 |

| | |
|-------------------------|-------|
| Air Temperature (°C) | 31.8 |
| Water Temperature (°C) | 18.15 |
| Dissolved Oxygen (mg/L) | 8.72 |
| % Saturation | 92.6 |
| pH | 7.62 |
| Conductivity (uS/cm) | 686.4 |

Headwaters IBI Score (0-100): ***25.51***

IBI Rating: ***Poor***

High Gradient Habitat Score (0-200): ***73***

Habitat Rating: ***Marginal***

Summary: This site on Diamond Brook received a "poor" rating in 2013. This site was dominated by generalist fishes. The riparian of this stream was lined with Japanese knotweed, a rapidly spreading invasive plant that thrives in disturbed habitats, and can out compete native stream vegetation. This site also had poor habitat for aquatic fauna and contained highly embedded substrate.

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| Common Name | Scientific Name | Abundance |
|-------------------------------|--------------------------------|------------------|
| Blacknose Dace | <i>Rhinichthys atratulus</i> | 291 |
| White Sucker | <i>Catostomus commersoni</i> | 83 |
| Mummichog | <i>Fundulus heteroclitus</i> | 21 |
| Creek Chub | <i>Semotilus atromaculatus</i> | 17 |
| Green Sunfish | <i>Lepomis cyanellus</i> | 11 |
| Northern Two-lined Salamander | <i>Eurycea bislineata</i> | 5 |
| Banded Killifish | <i>Fundulus diaphanus</i> | 3 |
| Largemouth Bass | <i>Micropterus salmoides</i> | 3 |
| Pumpkinseed | <i>Lepomis gibbosus</i> | 2 |
| Western Mosquitofish | <i>Gambusia affinis</i> | 2 |
| Bluegill | <i>Lepomis macrochirus</i> | 2 |
| Virile Crayfish | <i>Orconectes virilis</i> | 1 |