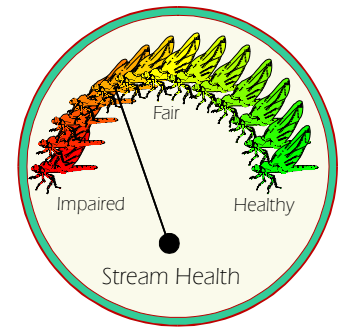


EcoSummary

BioRecon Report



Lake Monkey Business Creek @ Deerlake Drive East, Sta. 180 30 January 1998

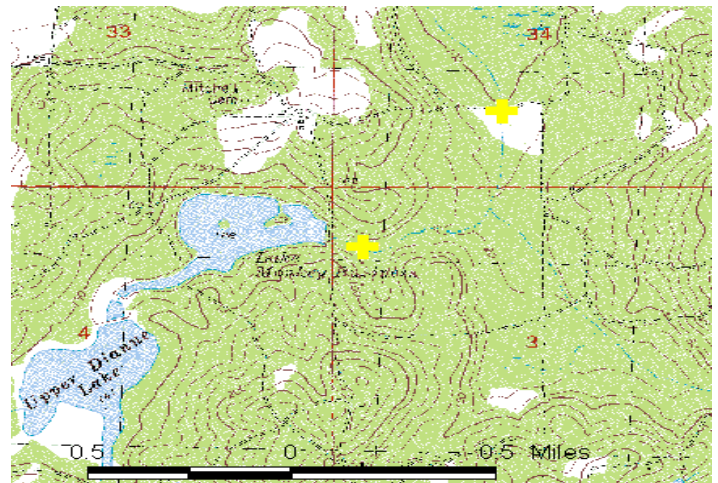
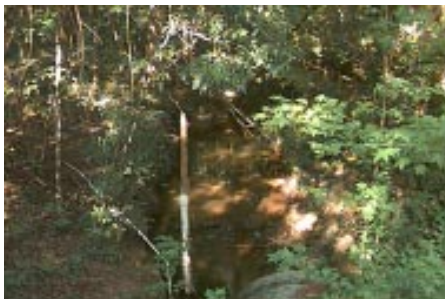
BioReconnaissance (BioRecon): A rapid, cost effective screening mechanism for identification of biological impairment.

Purpose

As part of the ongoing Lake Iamonia watershed study, biorecons were conducted on several small intermittent and permanently flowing streams entering the lake. Lake Monkey Business Creek was sampled to check its water quality and ecosystem health.

Basin Characteristics

The upland drainage basin consists of residential housing and a golf course. Lake Monkey Business drains into the creek at the upper end. The stream exhibits signs of erosion and bank instability due to heavy overflow during storm events.



Suggestions

Encourage good land management practices in the basin. Maintain a monitoring program to detect pollution impacts from changes in local land use, such as holding ponds and DOT highway improvement projects.

Results

This site is impaired since it did not meet any of the 3 metrics for a healthy flowing stream. There were 11 different taxa (minimum threshold = 24) with a Florida Index score of 6 (minimum threshold = 19). The EPT score was 2 (minimum threshold = 9) with 1 species of caddisfly and 1 species of mayfly.

Conductivity (51.1 umhos/cm), pH (7.09), and dissolved oxygen (9.88 mg/l) values were higher than other streams in the watershed, reflecting the eutrophic characteristics of Lake Monkey Business. The velocity was 0.19 m/s.

Significance

Land in the immediate drainage area is densely developed. However, the potential for additional impacts to the stream from future residential and commercial development still exists.

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