



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Total Maximum Daily Load Information Sheet

Horseshoe Creek Water Body ID: 3413

Water Body Segment at a Glance:

Counties: Lafayette and Jackson
Nearby Cities: Oak Grove
Length: 5.8 miles
Pollutants: Low Dissolved Oxygen
Source: Unknown



State map showing location of watershed

Schedule for TMDL development:

TMDL development schedules are subject to change.

The most current schedule for TMDL development is available on the department's website at dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm

Other TMDLs:

The U.S. Environmental Protection Agency approved a permit in lieu of a TMDL in April 2006. This permit addresses biochemical oxygen demand and ammonia impairments and is available online at the department's website at dnr.mo.gov/env/wpp/tmdl/3413-horseshoe-ck-record.htm.

Description of the Problem

A water body is considered impaired when it fails to meet applicable water quality standards. Water quality standards consist of designated uses, water quality criteria, an antidegradation policy and implementation procedures. Horseshoe Creek is impaired due to exceedances of state water quality criteria that protect aquatic life designated uses.

Designated uses of Horseshoe Creek*

- Warm Water Habitat (WWH)
- Whole Body Contact Recreation Category B (WBC-B)
- Secondary Contact Recreation (SCR)
- Human Health Protection (HHP)
- Irrigation (IRR)
- Livestock and Wildlife Protection (LWP)

*In addition to these specific uses, all waters of the state are protected by the general water quality criteria that are specified in the state's Water Quality Standards at 10 CSR 20-7.031(4).

Designated uses that are impaired

- Warm Water Habitat (WWH)
- General Criteria

Criteria that apply

- The Missouri Water Quality Standards at 10 CSR 20-7.031(5)(J) and Table A, state that dissolved oxygen shall not be lower than 5.0 mg/L.

Water quality data

A water body is determined to be impaired due to low dissolved oxygen if more than 10 percent of the available measurements fall below the 5.0 mg/L water quality criterion. For Horseshoe Creek, eight of eight dissolved oxygen measurements collected in 2011 failed to meet the minimum criterion for dissolved oxygen (Figure 1).

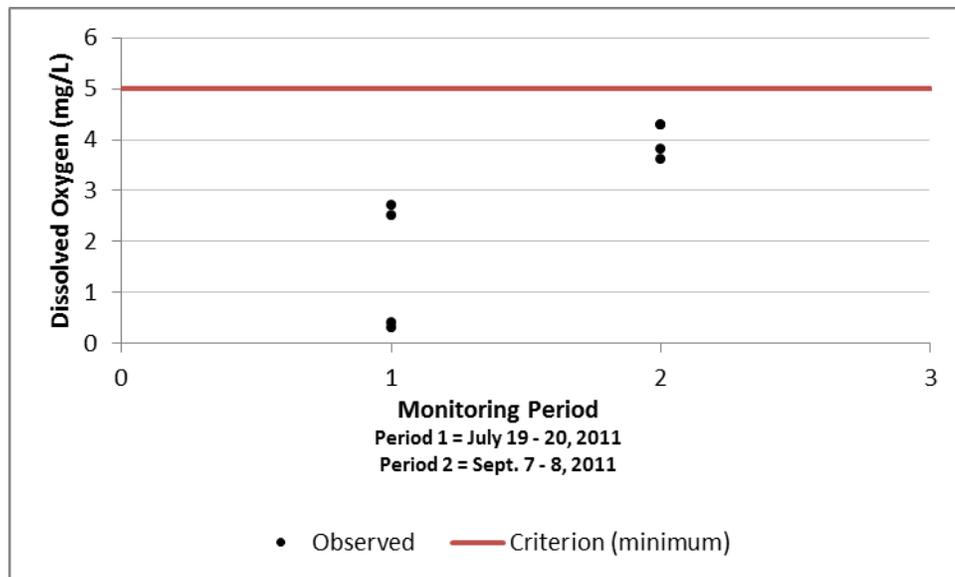
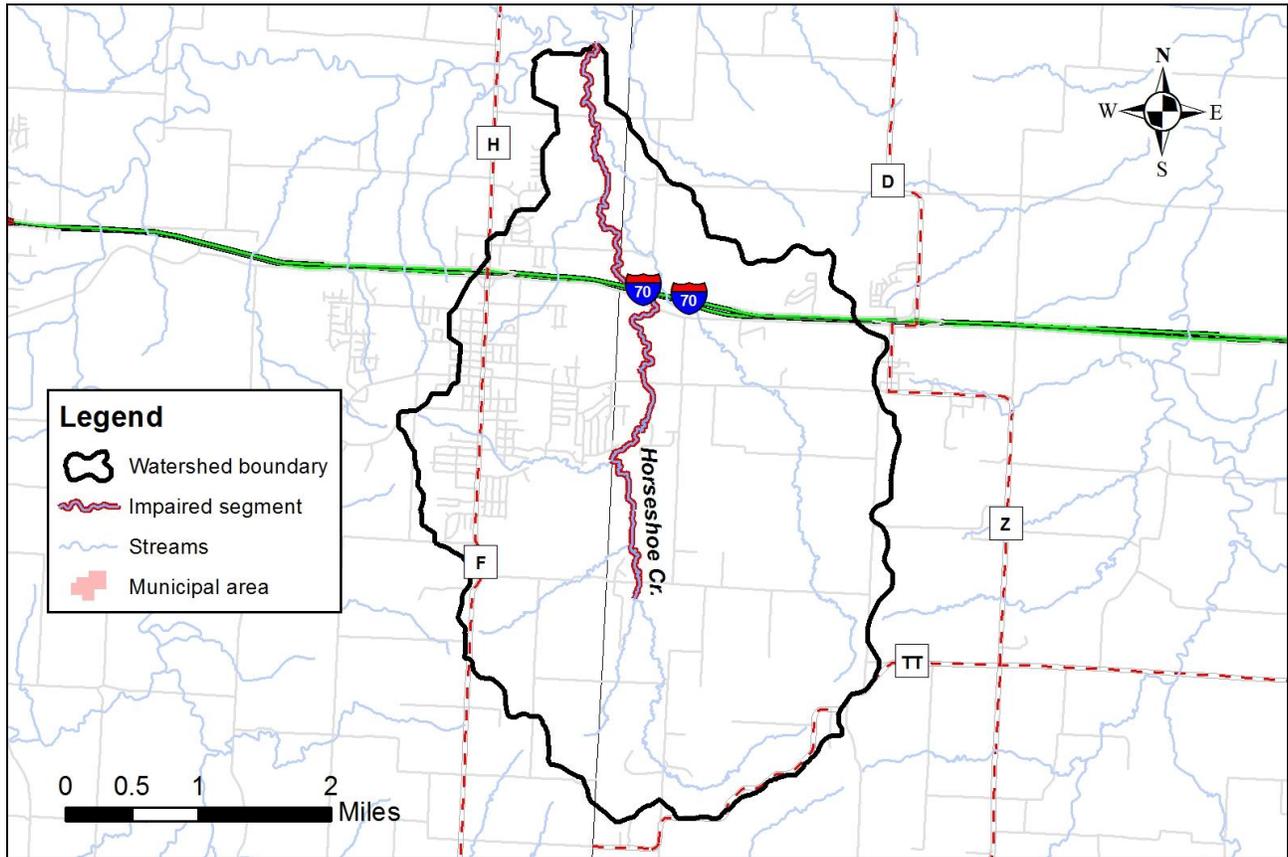


Figure 1. Dissolved oxygen data for Horseshoe Creek

TMDL for Horseshoe Creek

The Horseshoe Creek TMDL will calculate the maximum amount of each listed pollutant that the stream can receive and still meet water quality standards. The TMDL will also identify all potential or suspected pollutant sources in the watershed and distribute the allowable pollutant loads among those various sources. When developed, the Horseshoe Creek TMDL will use the most current and available data. For this reason, the final TMDL may present information that differs from that contained in this information sheet.

Map of the Horseshoe Creek Watershed



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