

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Total Maximum Daily Load Information Sheet

Panther Creek

Water Body ID: 1373

Water Body Segment at a Glance:

Counties: Polk, Hickory and St.Clair
Nearby City: Humansville
Length: 9.7 miles
Pollutant: Low dissolved oxygen
Source: Unknown



State Map Showing Location of Watershed

Scheduled 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

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. Panther Creek is impaired due to exceedances of water quality criteria for the protection of aquatic life.

Designated uses of Panther Creek*

- Warm Water Habitat (WWH)
- 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 use that is impaired

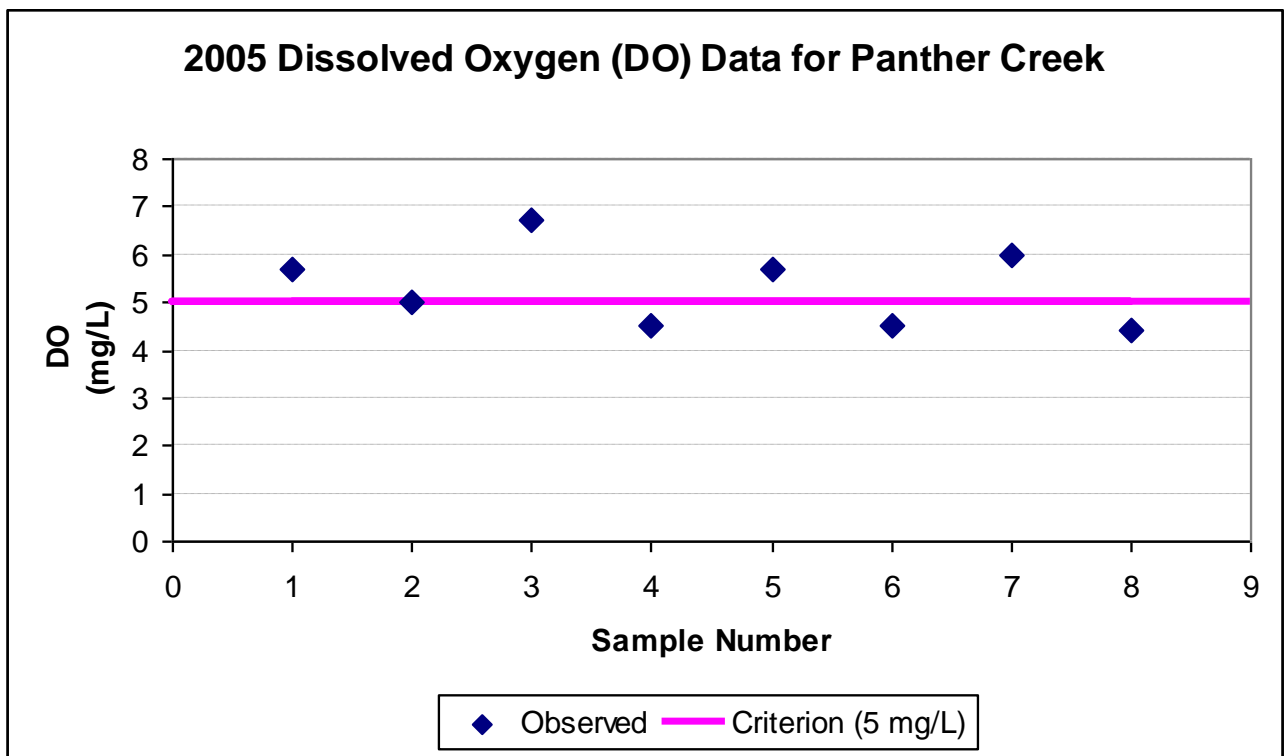
- Warm Water Habitat (WWH)

Criteria that apply

The dissolved oxygen criterion applicable to Panther Creek is found in Table A of Missouri's Water Quality Standards at 10 CSR 20.7.031. Table A states that the minimum allowable dissolved oxygen concentration for the protection of aquatic life in warm water habitats is a minimum 5 milligrams per liter (mg/L).

Assessment and water quality data

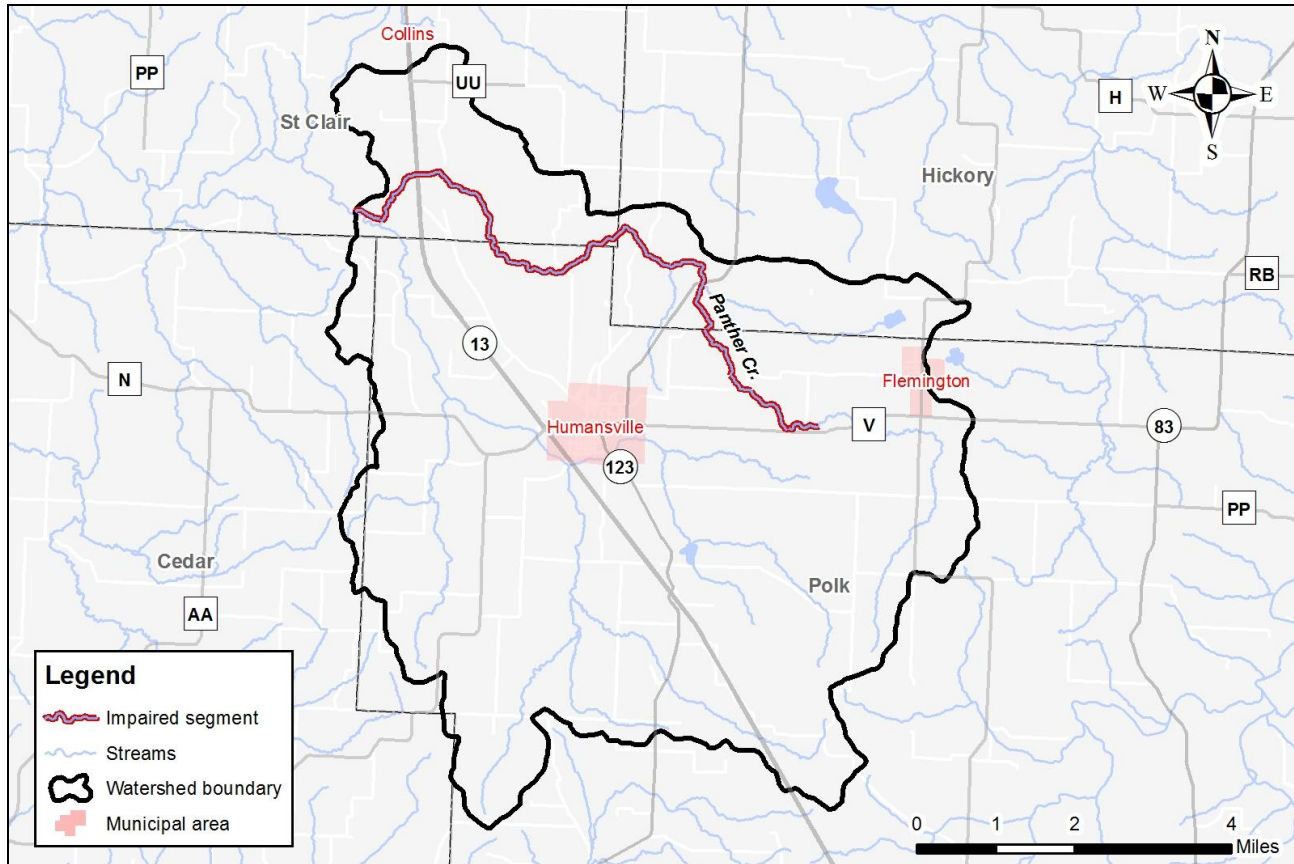
Dissolved oxygen is important as many aquatic organisms require high levels of oxygen to survive. A water is judged to be impaired due to low dissolved oxygen if more than 10 percent of measurements in a water body fail to meet the water quality criterion. In the case of Panther Creek, three of eight samples, or 37.5 percent, did not meet the water quality criterion.



TMDL for Panther Creek

The Panther 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 Panther 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 Panther Creek watershed



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