MISSOURI DEPARTMENT OF NATURAL RESOURCES

Total Maximum Daily Load Information Sheet

Pickle Creek

Water Body ID: 1755

Water Body Segment at a Glance:


State Map Showing Location of Watershed

County: Ste. Genevieve
Nearby City: Weingarten
Length: 7.8 miles
Pollutant: pH
Source: Atmospheric deposition - acidity

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. Pickle Creek is impaired due to exceedances of water quality criteria that protect aquatic life.

Designated uses of Pickle 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 use that are impaired

- Warm Water Habitat (WWH)

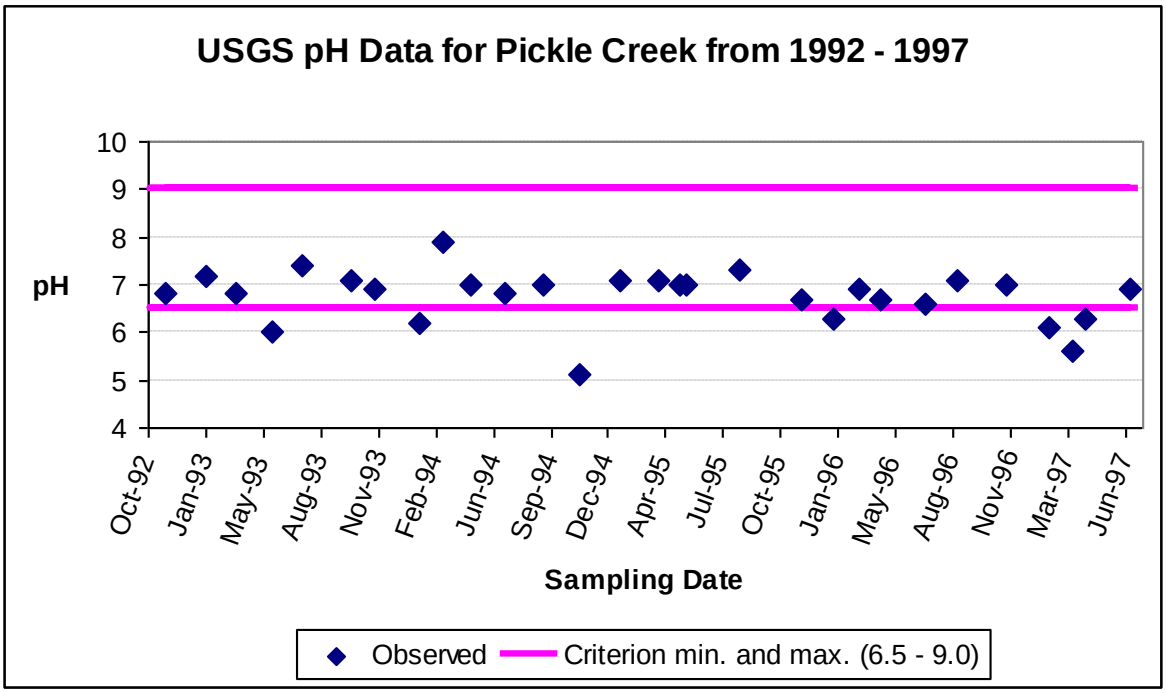
Revised: March 2015

Criteria that apply

- Missouri's Water Quality Standards at 10 CSR 20-7.031(5)(E) state that water contaminants shall not cause pH to be outside the range of 6.5 to 9.0 standard pH units.

Background information and water quality data

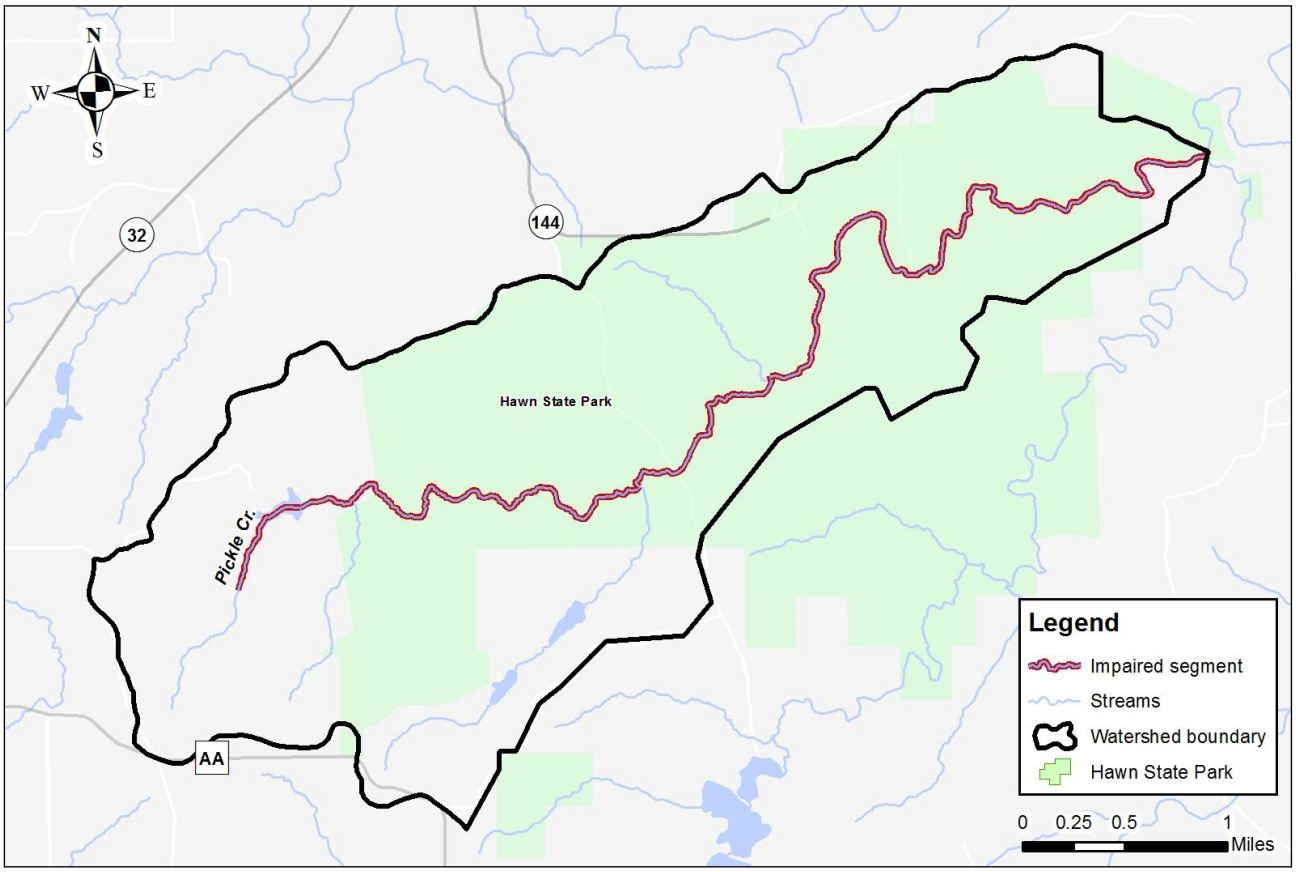
Pickle Creek is a small, rural stream that flows northeast to join River aux Vases, which is a tributary to the Mississippi River. Unlike most other areas of Missouri, natural conditions in the Pickle Creek watershed lack limestone, which is alkaline and acts as a buffer for acid rain. Instead, this watershed is primarily composed of LaMotte sandstone and is therefore poorly buffered. There are no known anthropogenic sources of acidity in the watershed. The department judges a stream to be impaired due to pH if more than 10 percent of available measurements fail to meet the criteria. For Pickle Creek, seven of 40 measurements, or 17.5 percent, were below the minimum pH criterion. All measured low pH values occurred between 1993 and 1997.



TMDL for Pickle Creek

The Pickle 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 Pick 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 Pickle Creek watershed



For more information call or write:
Department of Natural Resources
Water Protection Program – Watershed Protection Section
P.O. Box 176
Jefferson City, MO 65102-0176
Ph: 1-800-361-4827 or 573-751-1300
Fax: 573-526-6802
Email: TMDL@dnr.mo.gov
Program Home Page: dnr.mo.gov/env/wpp/index.html

Revised: March 2015