

Missouri Department of Natural Resources

Total Maximum Daily Load Information Sheet

Line Creek

Water Body Segment at a Glance:

County: Platte
Nearby City: Kansas City
Water Body ID: 3575
Segment Length: 7 miles
Watershed Size: 22.3 square miles
Pollutant: Bacteria
Source: Urban runoff/Storm sewers



Statewide Map Showing Location of Watershed

Scheduled for TMDL development: 2018

Description of the Problem

Designated beneficial uses of Line Creek

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life
- Protection of Human Health (Fish Consumption)
- Whole Body Contact Recreation – Category B

Uses that are impaired

- Whole Body Contact Recreation – Category B

Standards that apply

- Missouri's Water Quality Standards at 10 CSR 20-7.031(4)(C) states that for waters designated for whole body contact recreation category B, the *E. coli* bacteria count, measured as a geometric mean, shall not exceed 206 colonies per 100 milliliters of water during the recreational season. The recreational season is defined as being from April 1 to October 31.

Background information and water quality data

Line Creek is an urban stream that flows through Kansas City and into the Missouri River. Line Creek is designated for category B whole body contact recreation use and was first listed as impaired by bacteria on the state's 2012 303(d) List of impaired waters, which was approved in whole by the U.S. Environmental Protection Agency on Nov. 13, 2012.

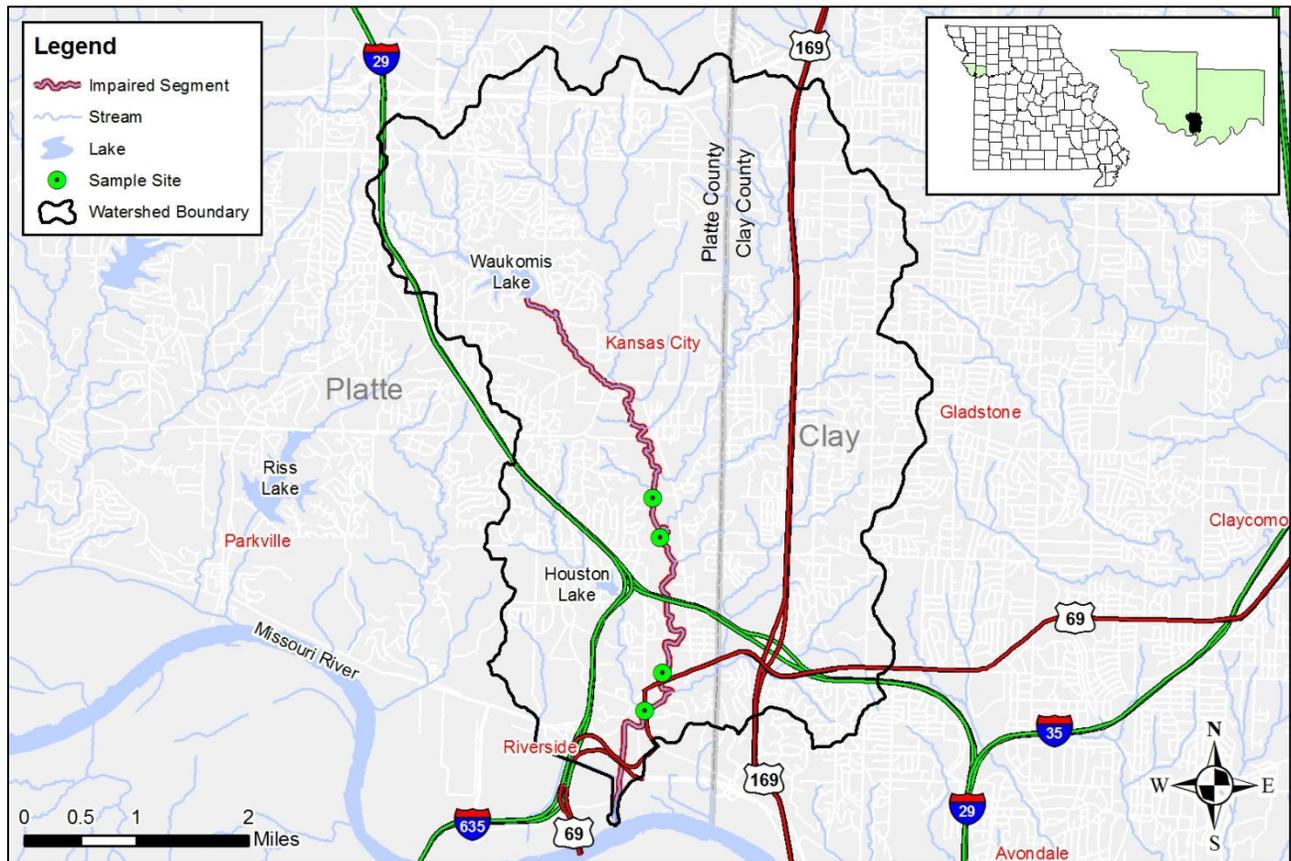
The department judges a stream to be impaired by bacteria if the water quality criterion for *E. coli* is exceeded in any of the last three years for which there is adequate data (minimum of five samples taken during the recreational season). High counts of *E. coli* are an indication of fecal contamination and an increased risk of pathogen-induced illness to humans. *E. coli* are bacteria found in the intestines of warm-blooded animals and are used as indicators of the risk of waterborne disease from pathogenic (disease causing) bacteria or viruses. Missouri's whole body contact bacteria criteria are based on specific levels of risk of acute gastrointestinal illness. The level of risk correlating to the category B criterion is no more than 10 illnesses per 1,000 swimmers in fresh water (1 percent).

Sufficient recreational season *E. coli* data to assess Line Creek was collected by the U.S. Environmental Protection Agency in 2010. The geometric mean of this data exceeded the whole body contact category B criterion. For this reason, Line Creek has been assessed as impaired by *E. coli*.

Bacteria Data for Line Creek

<i>Sample Site</i>	<i>Year</i>	<i>Month</i>	<i>Day</i>	<i>E. coli (count/100mL)</i>
Line Cr. At Riverside, Mo	2010	5	18	250
Line Cr. At Riverside, Mo	2010	5	26	137
Line Cr. At Riverside, Mo	2010	6	2	>2420
Line Cr. At Riverside, Mo	2010	6	3	1414
Line Cr. At Riverside, Mo	2010	6	9	4106
Line Cr. At Riverside, Mo	2010	6	17	4611
Line Cr. At Riverside, Mo	2010	6	22	>2420
Line Cr. At Riverside, Mo	2010	6	24	963
Line Cr. At Riverside, Mo	2010	7	6	5370
Line Cr. 190 yds US of Hwy 69	2010	7	13	482
Line Cr. Nr Line Cr Park off Waukomis Dr.	2010	7	13	455
Line Cr. 1.2 mi US of I-29	2010	7	13	433
Line Cr. At Riverside, Mo	2010	8	3	43
Line Cr. At Riverside, Mo	2010	8	17	345
Line Cr. At Riverside, Mo	2010	8	24	365
Line Cr. At Riverside, Mo	2010	9	8	242
Line Cr. At Riverside, Mo	2010	9	14	5172
Geometric Mean :				747

Map Showing the Line Creek Watershed



NOTE:

The final Line Creek TMDL will use the most recent and available data and information.

For more information call or write:

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Water Protection Program

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