

Caney River near Ramona

Station AT175500 (121400010010-001AT) is a permanent ambient trend monitoring station located on the Caney River in Oklahoma. Situated in the southeastern portion of Washington County, the site was established southeast of the town of Ramona off US Highway 75 on county road 390. The station is positioned between the midpoint and the terminal end of stream segment 121400010010 and is classified within the Caney River 8 digit HUC watershed (11070106). Water enters the stream system from Sand Creek, Keeler Creek, and Rabb Creek, among others.

This station on the Caney River has been active for all water quality variables since November of 1998. The following assessment of beneficial uses is based on data collected from May of 2002 through April of 2007. For purposes of reporting, this station is representative of the Caney River from the confluence of Sand Creek (95.9684, 36.7167) downstream to confluence of the Caney River with Rabb Creek (95.8101, 36.4338). As per Appendix A, Table 6 of OAC 785:45, this water quality management segment is assigned the following designated beneficial uses: 1) Public and Private Water Supply (PPWS), 2) Warm Water Aquatic Community—Fish and Wildlife Propagation (WWAC), 3) Agriculture—Class I Irrigation (AG), and 4) Primary Body Contact—Recreation (PBCR).

The PPWS beneficial use is supported. The WWAC beneficial use is not supported. Of the twenty-nine (29) turbidity samples, thirteen (13) samples (or 45%) exceeded the numerical criteria of 50. Of the ten (10) toxicant samples collected, three (3) of the lead concentrations (or 30%) exceeded the prescribed hardness-dependant chronic criteria of 5.29 ug/L. Dissolved oxygen and pH samples met the criteria prescribed in the WWAC beneficial use. The AG beneficial use is supported for total dissolved solids, chlorides, and sulfates. Although several sulfate concentrations exceeded the sample standard, all values are below the prescribed minimum standard of 250 mg/L. The PBCR beneficial use is not supported. Of the 29 enterococci concentrations, four (4) samples exceeded the prescribed screening level of 406 cfu/100mL, and the geometric mean (68.2 cfu/100mL) exceeded the prescribed mean standard of 33 cfu/100mL. This segment of the Caney River is nutrient-threatened. The mean sestonic chlorophyll-a concentration (31.7 mg/M³) produced a TSI of 64, which is above the threshold TSI of 62. The total phosphorus and nitrate/nitrite median values were below the threshold medians of 0.36 mg/L and 5.0 mg/L, respectively.