



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES

Nashville Environmental Field Office

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October 4, 2023

Honorable Mr. Wallace B. Frazier, Mayor
City of Waverly
eCopy: bfrazier@waverlytn.org
P.O. Box 70
Waverly, TN 37185

RE: **Sanitary Survey – Community Water System**
Waverly Water Department
PWSID #TN0000733
Montgomery County

Dear Mayor Frazier:

On September 20 and 21, 2023, I visited the Waverly Water Department (WWD) and performed a Sanitary Survey. The Sanitary Survey consisted of a records review to document the operational performance of the system and an on-site inspection of the water treatment plants and the distribution system. The Sanitary Survey covered the time period from June 2021 to September 2023. The Division of Water Resources (Division) would like to thank Mr. Jon Williams and others at WWD for their courtesy, willingness to work with the Division, and timely responses to Division requests. In accordance with the Sanitary Survey Manual, WWD earned 598 points out of a possible 599 points for a numerical score of one hundred percent (**99%**). This rating retains WWD in the State's "**Approved**" category.

The following comments, and/or recommendations as outlined in the Sanitary Survey Rating Form were identified during the survey and should be addressed as applicable.

1. Section 1: System Management and Operations

• **Subsection H. Emergency Operations Plan**

During the review of the Drought Management Plan (DMP), Division staff noted that the plan was dated, June of 2016. The DMP must be submitted and approved by the Division once every three years. WWD must submit an updated DMP to the Division no later than November 11, 2023. A total of one (1) point was deducted from the overall Sanitary Survey score. You can email the plan directly to me at my email address below.

General Observations, Comments, and Other Recommendations

1. Division staff observed Mr. Jon Williams collect a chlorine residual measurement in the distribution system; a chlorine residual of 2.16 mg/L was obtained. The result was within acceptable limits established by State and Federal Requirements. Therefore, state approval for daily analysis of free chlorine is hereby granted to WWD. This approval is effective until the next sanitary survey or until Mr. Williams is no longer employed by the water system and is contingent on proper maintenance of equipment and calibration standards.
2. Division staff observed Mr. Jon Williams perform the following analyses on finished water samples: Turbidity, Chlorine Residual, Alkalinity, Hardness, pH, Iron, Manganese, Fluoride, Temperature, and Orthophosphate. All results were within acceptable limits by State and Federal Requirements. Therefore, state approval for daily analysis of the aforementioned analyses is hereby granted to WWD. This approval is effective until the next sanitary survey or until Mr. Williams is no longer employed by the water system and is contingent on proper maintenance of equipment and calibration standards.
3. Division staff observed Mr. Jon Williams perform calibration of the benchtop and in-line turbidimeters. Therefore, state approval for turbidimeter calibration is hereby granted to WWD. This approval is effective until the next sanitary survey or until Mr. Williams is no longer employed by the water system and is contingent upon the use of approved methodologies and proper operation and calibration of the benchtop turbidimeter.
4. The updated Drinking Water Monitoring Program for the system in accordance with Rule 0400-45-01-0.17(3) is enclosed.
5. The Waverly Water Treatment Plant has a total of 3,198 connections. This value multiplied by the 2020 County Census factor (2.66) gives an estimated total population of 8,507 customers. This decrease is not significant enough to decrease the number of required bacteriological samples collected. The number of bacteriological samples taken from the distribution system remains at **ten (10) per month**.

Again, I would like to thank the Waverly Water Department personnel for their assistance and courtesy. If you have any questions or need additional information, please contact me at (615) 517-0128 or by email at Emily.Rachael.Smith@tn.gov.



Sincerely,
Emily R. Smith
Environmental Scientist
Division of Water Resources

cc: Jonathan Williams, Certified Operator, jwilliams@waverlytn.org
Donnie Curtis, Distribution Operator, curtis.donnie@waverlytn.org
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