



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

Nashville Environmental Field Office

711 R.S. Gass Blvd.

Nashville, TN 37216

Phone 615-687-7000 Statewide 1-888-891-8332 Fax 615-687-7078

October 31, 2024

Honorable Mary Esther Reed, Mayor
Town of Smyrna
ecopy: Me.reed@townofsmyrna.org
315 South Lowry Street
Smyrna, TN 37167

RE: **Sanitary Survey (Community Water System)**
Smyrna Water System
PWSID #0000639
Rutherford County

Dear Mayor, Reed:

On October 21 and 23, 2024, I visited the Smyrna Water System (SWS) and performed a Sanitary Survey. The survey consisted of a records review to document the operational performance of the system and an on-site inspection of the water treatment plant and distribution system. The survey covered the time period from December 2022, through October 2024. The Division of Water Resources (Division) would like to thank SWS personnel for their courtesy and willingness to work with the Division. In accordance with the Sanitary Survey Manual the SWS earned 599 points out of a possible 599 points for a numerical score of **one hundred percent (100%)**. This rating retains the SWS in the State's "**Approved**" category.

General Observations, Comments, and Recommendations

1. Since the last Sanitary Survey, the population served by SWS has increased to 60,876 individuals (21,977 connections). This increase is significant enough to increase the number of bacteriological samples collected each month. Therefore, the SWS is required to collect and analyze **seventy (70)** bacteriological samples each month beginning in **November 2024**. Because of this increase SWS must update its Bacteriological Site Sampling plan to reflect the new number of required samples. Please submit the updated plan for review and approval to me at my email address below. The updated plan must be submitted no later than **November 30, 2024**.
2. During the survey, Division staff observed Mr. Allen Hahn correctly perform analysis for the following parameters: turbidity, free chlorine residual, temperature, pH, alkalinity, iron, hardness, fluoride, manganese and orthophosphate. Therefore, state approval for daily analysis of the above listed parameters is hereby granted to SWS. This approval is effective until the next sanitary survey as long as Mr. Hahn is employed by the water system and is contingent on proper maintenance of equipment and calibration standards.

3. Division staff observed Mr. Jeff Knowles correctly calibrate the TU 5300 SC in-line turbidimeter and TU 5200 bench-top turbidimeter. Therefore, state approval is hereby granted to SWS for calibration of these instruments. This approval is effective until the next sanitary survey as long as Mr. Knowles is employed by the water system and is contingent on proper maintenance of equipment and calibration standards.
4. During the survey, water system staff collected a chlorine residual measurement in the distribution system; a chlorine residual of 0.88 mg/L was obtained from the Hill Top area. The result was within acceptable limits established by State and Federal Requirements.
5. The updated drinking water monitoring program for the system in accordance with Rule 0400-45-01-0.17(3) is enclosed.

I would like to thank the SWS personnel for their assistance and courtesy. If you have any questions or need additional information, please contact me at (615) 210-0848 or by email at mehdi.sadri@tn.gov

Sincerely,



Mehdi Sadri
Environmental Protection Specialist
Division of Water Resources

Enclosures

e-copy:Mr. Michael Strange Utility Director, michael.strange@townofsmyrna.org

Mr. Kevin Relford, Plan Manager, kevin.relford@townofsmyrna.org

Mr. Michael Murphy, TDEC-DWR, Michaelp.murphy@tn.gov

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