



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
CHATTANOOGA ENVIRONMENTAL FIELD OFFICE
1301 RIVERFRONT PARKWAY, SUITE 206
CHATTANOOGA, TENNESSEE 37402
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December 1, 2017

Mr. Dan Gilbert
1549 Clairmont Road, Suite 201
Decatur, Georgia 30033

Re: **Sanitary Survey Non-Community Water System**
Whitewater Express Water System
P.W.S.I.D. No. 0004953
Polk County, Tennessee

Dear Mr. Gilbert:

On November 15, 2017, Amy Francis and Mohammed Faleh from the Division of Water Resources (DWR) visited the Whitewater Express Water System 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. The survey covered the time period from October 2016, to November 2017. The Division would like to thank your staff for their courtesy, willingness to work with the Division, and timely responses to Division requests. In accordance with the Sanitary Survey Manual, the Whitewater Express Water System earned 487 points out of a possible 488 points for a numerical score of ninety-nine percent (**99%**). This rating retains the Whitewater Express Water System in the State's "**Approved**" category.

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

Section 6: Finished Water Storage

- Inspection and Maintenance of Reservoirs, Tanks and Clearwell

The system's water storage tank is extremely rusted and in need of repair. All tanks used for the production and distribution of drinking water must be properly maintained in accordance with Rule 0400-45-01-.17(17). This deficiency has been mentioned in every survey conducted for your water system since 2005, and it will remain a deficiency until the tank has been repaired.

General Observations, Comments, and Other Recommendations

1. During the survey, the chlorine residual was measured at 1.63 mg/L in the men's restroom. This value is within the state approved range of 0.2 mg/L and 4.0 mg/L.
2. All of the needed paperwork was available during our file review.

3. A copy of the cross connection statement that was signed during the inspection has been enclosed for your records.
4. A nitrate sample was collected during our inspection. A sample must be analyzed by a state certified laboratory during each calendar year.

Again, I would like to thank the Whitewater Express Water System personnel for their assistance and courtesy. If you have any questions or need any additional information, please feel free to contact Amy Francis at (423) 634-5720 or me at (423) 634-5736.

Sincerely,



Gary K. Burriss
Chattanooga Environmental Field Office
Division of Water Resources

cc: Freda Crutchfield, Division of Water Resources, Nashville Central Office
Robert Patty, Certified Operator, 405 Veterans Memorial Drive, Tellico Plains, TN 37385
Amy Francis, Division of Water Resources
Mohammed Faleh, Division of Water Resources

Sanitary Survey Rating

PWSID:	TN0004953	Water System Name:	Whitewater Express Water System
Survey Date:	Nov 15, 2017	System Category (Points):	488

421 - Consecutive Systems/Distribution Only
 488 - Treatment Systems/Wholesalers
 599 - Both Treatment and Distribution

1. System Management and Operation (94)

Requirement	Points Range	Deduction	Comments
A. Record Keeping 0400-45-01-.20	(0)	Narrative	All records were available during the inspection.
B. Construction Projects 0400-45-01-.05, 0400-45-01-.17	(1-5)	0	
C. Submission of Monthly Operations Reports 0400-45-01-.17	(0)	Narrative	
D. Reporting Requirements 0400-45-01-.18	(4-30)	0	
E. Public Notification 0400-45-01-.19	(3-10)	0	
F. Facility Maintenance Fee	(0)	Narrative	
G. Enforcement – TCA §68-221-701 et seq.	(4-10)	0	
H. Emergency Operations Plan 0400-45-01-.17	(3)	0	
	Deficiency Subtotal	0	

2. Operator Compliance (23)

Requirement	Points Range	Deduction	Comments
A. Certified Operator – Plant and Distribution System 0400-45-01-.17(1) and 0400-49-01-.04	(3-15)	0	Robert Patty
	Deficiency Subtotal	0	

3. Source (25)

Requirement	Points Range	Deduction	Comments
A. Source Adequacy 0400-45-01-.02, .05, .16, .17(13) and .34(3)	(3-5)	0	
B. Intake 0400-45-01-.05, .17	(2)	0	
C. Wellhead/Springbox Construction 0400-45-01-.05(12), .16 and .17(3) and (16)	(2)	0	
D. Source Protection Plans 0400-45-01-.34	(1-2)	0	
	Deficiency Subtotal	0	

4. Treatment (153)

<u>Requirement</u>	<u>Points Range</u>	<u>Deduction</u>	<u>Comments</u>
A. Aerator 0400-45-01-.05, .17	(2)	0	
B. Chemicals/Chemical Feeders 0400-45-01-.05(8), and .17, .36	(2)	0	
C. Mixing 0400-45-01-.02, .05, .17	(2)	0	
D. Flocculation 0400-45-01-.02, .05, .17	(2)	0	
E. Sedimentation 0400-45-01-.02, .05, .17	(2)	0	
F. Filtration/Alternative Technology 0400-45-01-.17(12) and (27)	(2-30)	0	
G. Re-wash/Filter-to-waste 0400-45-01-.17 (35)	(2)	0	
H. Turbidimeters/Calibration 0400-45-01-.05 (11).17, .31, .39	(2-4)	0	
I. Disinfection 0400-45-01-.02, .17, .31, .36	(2-30)	0	
J. Disinfection Contact Time 0400-45-01-.02, .17, .31	(2-4)	0	
K. Master Meter 0400-45-01-.17 (2) and (3)	(1-2)	0	
L. Maintenance of Equipment, Buildings and Grounds 0400-45-01-.02, .17(3), (17) and (19)	(1)	0	
M. Laboratory Facilities 0400-45-01-.02, .14, .17(3)	(1-3)	0	
N. Safety 0400-45-01-.02	(2)	0	
O. Sludge Handling/Backwash Handling 0400-45-1-.05	(2)	0	
P. Sanitary Conditions 0400-45-01-.17 (17)	(2)	0	
Q. Fluoridation Techniques 0400-45-01-.06, .12, .17	(2)	0	
R. Design Capacity 0400-45-01-.05 (10)	(2-4)	0	
S. Filter Backwash Recycling 0400-45-01-.31 (9)	(1)	0	
	Deficiency Subtotal	0	

5. Monitoring, Data Verification and Compliance (175)

Requirement	Points Range	Deduction	Comments
A. Laboratory-Process Monitoring (excluding Turbidity and Chlorine Residual) 0400-45-01-.17(3)	(5)	0	
B. Bacteriological Monitoring	(2-6)	0	
C. Bacteriological Compliance 0400-45-01-.06	(4-7)	0	
D. Turbidity Monitoring	(2-3)	0	
E. Turbidity Compliance	(4-7)	0	
F. Chlorine Residual Monitoring 0400-45-01-.17, .31, .36	(2-3)	0	1.63 mg/L during the inspection
G. Primary Chemicals Monitoring	(2-3)	0	A nitrate sample should be analyzed by a state certified lab before 12/31/17.
H. Primary Chemicals Compliance	(4)	0	
I. Lead and Copper Monitoring 0400-45-01-.33	(2-3)	0	
J. Lead and Copper Action Level 0400-45-01-.33	(3-5)	0	
K. Disinfection/Disinfection By-Products and Precursors Monitoring 0400-45-01-.36, .37, .38	(2-3)	0	
L. Disinfection/Disinfection By-Products and Precursors Compliance 0400-45-01-.06, .36	(2-30)	0	
M. Secondary Chemicals 0400-45-01-.12	(2)	0	
N. Secondary Chemicals Compliance 0400-45-01-.12	(3)		
O. Cryptosporidium Monitoring 0400-45-01-.39	(0)	Narrative	
	Deficiency Subtotal	0	

6. Finished Water Storage (25)

Requirement	Points Range	Deduction	Comments
A. Adequate Storage 0400-45-01-.17 (14)	(2-4)	0	
B. Inspection and Maintenance of Reservoirs, Tanks and Clearwell 0400-45-01-.17 (16), (17), (33) and (34)	(1-10)	1	
	Deficiency Subtotal	1	

7. Pumps, Pump Facilities and Controls (18)

Requirement	Points Range	Deduction	Comments
A. Pump Facilities 0400-45-01-.17 (9) and (13)	(1-4)	0	
B. Maintenance of Pumping Equipment 0400-45-01-.17(13)	(1-3)	0	
	Deficiency Subtotal	0	

8. Distribution System and Cross Connection Controls (86)

Requirement	Points Range	Deduction	Comments
A. Notification, Inspection, Disinfection and Sample Collection of New or Existing Facilities 0400-45-01-.17 (8) and (19)	(3-5)	0	
B. Flushing Program/Blow Offs 0400-45-01-.17(10) and (23)	(3-4)	0	
C. Fire Hydrants 0400-45-01-.17 (18)	(0)	Narrative	
D. Adequate Pressure 0400-45-01-.17 (9)	(5)	0	
E. Map of Distribution System 0400-45-01-.17 (15)	(3)	0	
F. Approved Cross Connection Policy or Ordinance and Plan 0400-45-01-.17 (6)	(4)	0	A copy of the Cross Connection Statement that was signed is enclosed.
G. Working Cross Connection Program 0400-45-01-.17(6)	(3-9)	0	
H. Unaccounted Water Loss	(0)	Narrative	
	Deficiency Subtotal	0	

Total Deficiency Points: 1

Points Available: 488

Overall Rating: 99

Points Available
 421 - Consecutive Systems/Distribution Only
 488 - Treatment Systems/Wholesalers
 599 - Both Treatment and Distribution

Inspector: Amy P. Francis, Mohammed H. Faleh

Additional Comments/Explanations:

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