

Lower Savannah

Environmental Quality Control District

Serving: Aiken, Allendale, Bamberg, Barnwell, Calhoun, and Orangeburg Counties

Promoting Health, Protecting the Environment

206 Beaufort Street, NE, Aiken, SC 29801

(803) 641-7670 Fax (803) 641-7675

June 06, 2000

Mr. Tim Freeman
Town of Denmark
Acacia St.
Denmark, SC 29042

RE: Town of Denmark
System #0510002
Bamberg County

Dear Mr. Freeman:

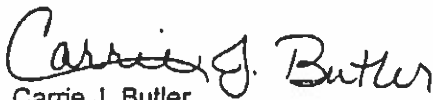
As you are aware, the South Carolina Department of Health and Environmental Control recently conducted a sanitary survey of the Town of Denmark public water system on March 23, 2000. The intent of a sanitary survey is to evaluate a public water system's ability to provide a continuous supply of safe drinking water to its customers.

The public water system of the Town of Denmark received an overall rating of **Needs Improvement (I)**. Enclosed is a copy of the survey and a report. The report includes specific findings made during the sanitary survey and recommendations for correcting any deficiencies. This survey and report should be kept on file for no less than ten (10) years and be available for review by the public or DHEC upon request. The Department requests that all parties responsible for the operation and maintenance of the water system review this report promptly.

I would like to thank Mr. Tim Freeman and Mr. JP Robinson with the Town of Denmark for the cooperation they gave to the Department's inspectors during the survey.

Please feel free to contact me at (803) 641-7670 if you have any questions concerning the enclosed report.

Sincerely,


Carrie J. Butler
Drinking Water Protection
Lower Savannah EQC

cc: Susan Alder, Bureau of Water

File

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JUN 7 2000

COMPLIANCE ASSURANCE
DIVISION

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
LOWER SAVANNAH EQC

SANITARY SURVEY REPORT

*Town of Denmark
Water System #0510002
Bamberg County*

Introduction

The South Carolina Department of Health and Environmental Control recently conducted a sanitary survey of the the Town of Denmark public water system (Water System # 0510002). The survey consisted of a review of the Department files and an on-site inspection by department personnel on March 23, 2000. The following persons participated in the on-site inspection:

Carrie J. Butler	SCDHEC - Lower Savannah EQC
Jennifer Hughes	SCDHEC - Lower Savannah EQC
Tim Freeman	Town of Denmark
JP Robinson	Town of Denmark

This report includes a description of the water system. In addition this report includes a list of findings and recommendations noted during the survey.

System Description

The Town of Denmark owns and operates a groundwater facility and associated potable water distribution system that serves approximately 4264 people.

Well Information

Well	Well Casing Diameter (Inches)	Pump (HP)	Depth (ft)	Yield (g.p.m.)
1	12	60	296	530
2	12	60	305	400
3	12	60	280	300

The public water system serving The Town of Denmark is served by three storage tanks with a total capacity of approximately 475,000 gallons.

Storage Capacity

Tank	Capacity (gallons)
City Hall	100,000
Nipco	250,000
Voorhees	125,000

Findings and Recommendations

1. The system received an **Unsatisfactory** for Chemical Storage.

A chlorine leak detection and alarm system shall be in service at all times in all chlorine rooms as stated in regulation R.61-58.7(B)(9)(l). Because of possible harm to an operator and residence in the area this must be updated as soon as fiscally possible.

2. The system received an **Unsatisfactory** for Fire Flow.

At the time of the survey there was mention of creating a loop in the existing area which has inadequate fire flow. The proposed loop will take time to permit and install. In the mean time, the bonnets on the hydrants in those areas must be painted black so that the firemen recognize where there is a lack of fire flow.

3. The system's rating improved from a **Needs Improvement** to **Satisfactory** for Valve/hydrant maintenance.

4. The system's rating improved from a **Needs Improvement** to **Satisfactory** for Leak Detection

5. The system's rating remained as a **Needs Improvement** for its System Map.

Public water system's are required to maintain a current and accurate map of the distribution system to aid in the proper operation and control of the system and to respond to emergency conditions. The map should indicate the location of system source(s), system storage tank(s) and distribution lines with sizes and valves. At the time of the survey the area from East Rutlege Ave. to Guess Drive were still not included in the system map. Please send our office an updated copy of your system map.

6. The system received a **Needs Improvement** for Storage Maintenance.

Nipco tank needs to be painted as soon as possible. There was a substantial amount of rust showing on the tank's exterior. Please be sure that the paint used meets

specifications of the American National Standard Institute/National Sanitation Foundation International Standard 61. The system must notify the Department, in writing, ten (10) days prior to painting a storage tank. See R.61-58.7(E)(14)

7. The system's rating was improved to **Satisfactory** for the Flow Meter. Previously the flow meter was not function properly on the Clark Street Well (well #3). It has since been repaired. However the pressure gauge was not functioning properly on the Clark Street Well. Please repair the pressure gauge as soon as possible.
8. The Department requests the overflows be extended to the ground with a splash guard during the next scheduled maintenance of all tanks that do not already have this in place. See R.61-58.4(C)(2)(f)
9. The Department strongly recommends that stand-by power in the form of a generator be installed. It is not a requirement for the Town of Denmark. However, in the event of a true emergency, it would be a favorable option to be able to operate one or more wells with auxiliary power.

Conclusions

The Department requests that the Town of Denmark public water system submit a plan and schedule in order to comply with all survey items with ratings of Needs Improvement and Unsatisfactory. The plan and schedule must be submitted within ninety (90) days of the receipt of this letter. If the areas rated Unsatisfactory during the survey are not brought into compliance, the Town of Denmark public water system may be subject to actions by the SCDHEC Drinking Water Enforcement Section.

The Department would like to thank Mr. Tim Freeman and Mr. JP Robinson for their assistance in conducting the sanitary survey. We look forward to working with the Town of Denmark water system to ensure that the residents of Denmark continue to receive the highest quality of drinking water possible.