

Town of Millington, Maryland

Water System

Operations Emergency Action Plan



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Originally Prepared By
Maryland Environmental Service
259 Najoles Road
Millersville, Maryland 21108
Revised by
Town of Millington

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OPERATIONS EMERGENCY RESPONSE PLAN FOR THE TOWN OF MILLINGTON WATER SYSTEM

A. Description of the Water System

The Town of Millington Water Treatment Facility is located within the Town of Millington, Maryland. It is an operated water system with a permitted capacity of 137,000 gpd on a yearly basis and 205,500 gpd during the month of maximum use. The water system provides a potable supply of water services for approximately 1,200 residents and 384 total connections.

Source

Three wells draw water from the Aquia Aquifer. Pumps one and two blend together and pump three runs alternatively from wells one and two. Well #1 is a submersible pump that will deliver 95 gpm at 316' TDH. The motor is a 15hp, 208 volts, 3 phase and the column size is three inches. The pump column setting is 130 feet. Well #2 is a submersible pump that will deliver 95 gpm at 297' TDH. The motor is 15 hp, 208 volts, 3 phase and the pump column size is 3 inches in diameter. Well #3 pump is a Gould's 6CLC-5 stage submersible and the motor is a Franklin 20 hp 208 volts, 3 phase. The pump has a four-inch column.

Water Treatment and Distribution

Raw water is pumped from the well, through the Mid-Atlantic Water Services water conditioning system. This system functions as a water softener and provides iron removal in the process. After the softening process the water is injected with chlorine and stored in a 250,000 gallons water tower before entering the distribution system.

B. Possible emergencies that could interrupt service:

- a. Storm events- High winds, ice, hurricanes, tornados, or heavy rains could possibly interrupt service. These events could cause loss of power, and other damage to the infrastructure.
- b. Contaminated supply- the water supply could become contaminated due to deliberate acts (terrorism) or through other actions such as improper well pump repair, contaminated groundwater entering the system or bacteria entering the system through improperly secured or damaged water main breaks, improper disinfection following breaks, and inadequate disinfection.
- c. Power outages- power outages could be caused by storms or failures at the substations or electrical generation facilities.
- d. Fire- Fire damage could result from storms, electrical failures, improper chemical usage and storage and arson.

- e. Chemical release- Chemical spills could cause the evacuation of the facilities until such time the problem can be corrected, and the spilled materials are contained and safely removed for disposal.
- f. Interruption of water supply due to major equipment breakdown.

C. Treatment Chemicals Stored on Site:

Sodium Hypochlorite – max 180 gallons at any given time.
Sodium Chloride – Softening salt – max 12, 500 lbs. (250 - 50 lb. Bags)

D. Back Up Equipment:

Chlorine pump – replacement for the existing pump
Water meters – replace broken existing meters

E. Safety Equipment:

- a. Fire Extinguishers
- b. Splash proof goggles
- c. PPE Gloves
- d. Eye Wash Station

F. Responses:

- a. Storm Event

In the event of a storm the water supply should generally be unaffected. The facility currently does not have backup generator service but does have a 250,000-gallon water storage tower that would store water for at least 3 days. In the event of a total loss of water sources, water supply via tanker trucks and or bottled water supply could be arranged if necessary.

- b. Contaminated Water Supply

In the event that the water supply would become contaminated for reasons other than suspected tampering or terrorism the system would be shut down and the following agencies would be notified. The Maryland Department of the Environment, Susquehanna Operational Services, Kent and Queen Anne’s County Health Departments. The cause of the contamination could then be determined and corrected.

IN THE EVENT OF SUSPECTED TERRORISM OR TAMPERING THE ABOVE AGENCIES WOULD BE NOTIFIED ALONG WITH THE FBI, HOMELAND SECURITY, STATE POLICE, COUNTY POLICE AND SHERIFFS OFFICES.

c. Power Outage

The designated personnel will contact the Delmarva power outage hotline.

d. Fire

Local fire department will respond.

e. Chemical Spills

Any chemical spills that could occur would be contained onsite at the water facility. The chemicals could then be cleaned up according to State guidelines and Susquehanna Operational Services protocol.

f. Interruption Of Water Supply Due to Major Equipment Breakdown

In the event of interruption of water supply, provisions of supplying water via water tankers will be made if necessary. During a water main break, Susquehanna Operational Services, MDE, and homeowners will be notified that an area will be shut down. A notice will be delivered to town residents notifying them when and where the repair will be made to the water main and that it is recommended to boil their water. After the repair a bacti sample will be collected and analyzed by a state certified lab. After the sample shows absence of total coliform, another notice will be sent to residents that the water boil notice is lifted.

G. Emergency Contact Phone Numbers

WATER SUPPLIERS:

Coca-Cola Enterprises Bottling Companies
221 Armstrong Pkwy
Salisbury, MD 21801
Christian Matthews- 410.725.3194/410.341.8868/800.545.2602

Pepsi Bottling Ventures
2300 Goddard Pk Way
Salisbury, MD 21801
410.546.1136
Debbie Taylor 443-397-0751/Mike Cooney 443-716-1224

WELL DRILLERS:

Bischoffs 410-479-0004
Shannahan 410-745-5071
Eastern Shore Well Drilling 410-758-0100

POWER COMPANY:

Delmarva Power 1-800-898-8045

CONTRACTORS: (List of contractors: Electricians, Instrumentation Technician, Pipe repair, vacuum trucks, etc.)

David A Bramble, Inc. (Holden Smith) (443)480 -2395, Contractor for water main repairs

Dennis Sales and Service, Inc. 1-800-443-1755, Contractor LMI metering pump, and flow meter repairs.

Whel-Tech (410) 913-7589, Mission alarm monitoring

Susquehanna Operational Services, 443-252-1410, Contractor for operations and maintenance of plant and distribution system.

EMPLOYEE CONTACTS:

George Smith, Susquehanna Operational Services, 443-252-1410
Ron Thomas, Susquehanna Operational Services, 443-406-5583
Chris McAfee, Susquehanna Operational Services, 443-497-0933

FIRE DEPARTMENT CONTACTS:

Fire Rescue & EMS Division: 911

LAW ENFORCEMENT CONTACTS

QUEEN ANNES SHERRIFS OFFICE: 410-758-0770
KENTCOUNTY SHERRIFS OFFICE: 410-778-2279
STATE POLICE: 410-758-1101
FBI: 410-265-8080

HEALTH DEPARTMENT

QUEEN ANNES COUNTY: 410-758-1083
KENT COUNTY: 410-778-1350

OFFICE CONTACTS:

Town of Millington
402 Cypress Street
P O Box 330
Millington, MD 21651
(410) 928-3880 phone