

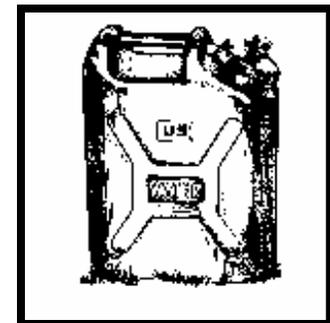


# POTABLE WATER



- Obtain water from approved source or fill point
- Chlorinate to 1 ppm
- Protect from contamination

**Platoon suffers from bloody diarrhea after drinking water from 5-gallon cans filled from hose stored on latrine floor.**





# Inspect Water Trailer



- **Every 6 months in garrison** (*when in use*)
- **Before deployment or field exercise**
- **Quarterly**
  - manhole cover
  - drain plug
  - interior
  - spigots

- **Before Filling:**
  - interior
  - hose at fill point
- **After Filling:**
  - manhole cover

***PM DETACTMENT***

***MEDDAC***



# Storing Water Trailers



Residual water in tank promotes foul odors, bacterial growth, and rust during storage.

- Remove drain plug
- Open spigots
- Prop manhole cover open (1/2 to 1 inch)

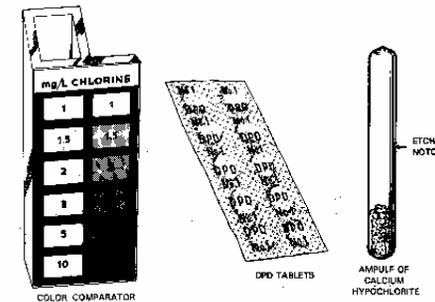
Ventilation allows air circulation and drying.



# Monitoring Chlorine Residual



- Chlorination Test Kit
  - ✓ Step comparator
  - ✓ DPD #1 tablets
  - ✓ Ampoules of calcium hypochlorite
- Heat Dissipates Chlorine
- Conduct periodic checks to ensure a 1-ppm Minimum Residual



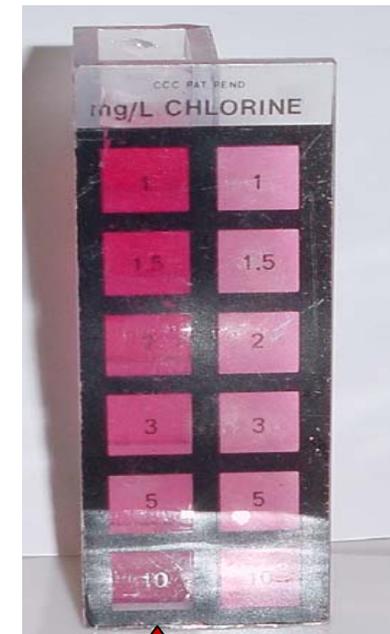
**Chlorinated water is your first barrier against contamination.**



# Steps to Chlorinate Water



- Follow Table A-1, FM 21-10 (*only add 1/3 of concentration listed in Table A-1 to achieve 1-ppm; Table A-1 amounts will raise residual to 5-ppm*)
- Add contents of ampoules, bulk calcium hypochlorite (HTH), or bleach to water
- Stir & Wait 10 minutes
- Check Chlorine Residual
  - ✓ If > 1-ppm – Wait 20 more minutes before releasing for consumption
  - ✓ If < 1-ppm – add more chlorine solution to water and follow steps 3-5 until 1-ppm is reached.



5-ppm residual indicated by color match on right.



# DPD Tablet Reliability



- White DPD #1 tablets will flash pink when chlorine is present in water.
- Light gray tablets will also provide a reasonably accurate reading.
- Dark gray or black tablets are aged beyond usability and yield no indication of residual.

White Tablet  
(good indication)

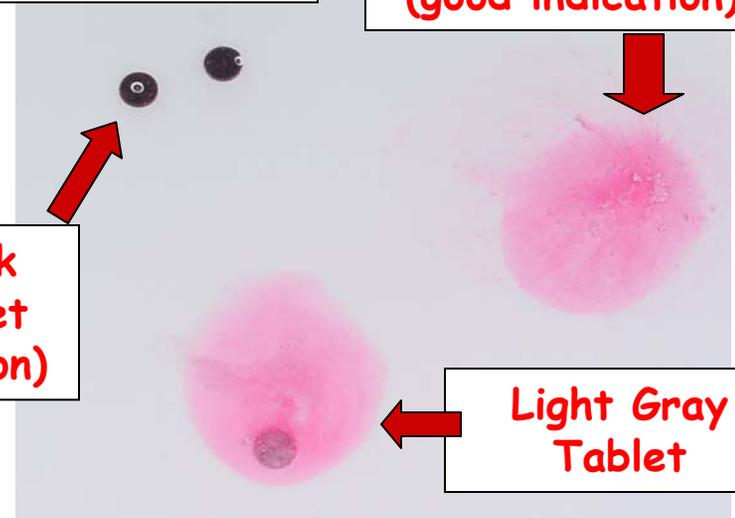


Contact your supplier if the majority of the tablets in your chlorination kit are gray or black.

Black/Dark  
Gray Tablet  
(no indication)



Light Gray  
Tablet





# Ordering DPD#1 Tablets



- **Reference: TB MED 577, Sanitary Control and Surveillance of Field Water Supplies, 1 May 1999.**
- **Appendix F, p. F-3**
  - NSN 6810-01-044-0315
  - Chlorine Test Tablet, DPD Method
  - Provides 1 box of 100 foil-wrapped DPD No. 1 tablets.



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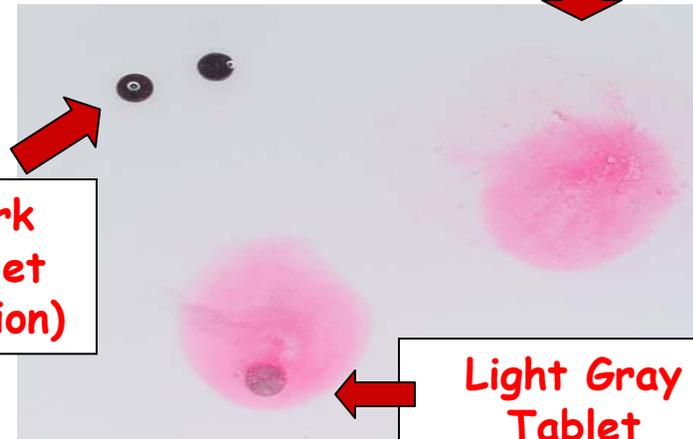
**White Tablet  
(good indication)**



**Black/Dark  
Gray Tablet  
(no indication)**



**Light Gray  
Tablet**





# Examine DPD #1 Tablets



**Do NOT use dark gray or black DPD tablets to check chlorine residual!**

- Tablets should be white.
- Graying of tablet is indicator of aging/deterioration.
- Light gray tablets may give poor residual reading.
- **Dark gray/black tablets are ineffective.**



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# Questions



- **Inspecting Water Trailer**
- **Chlorination Test Kits & DPD Tablets**
- **Chlorinating Potable Water**
- **Actions for Storing Water Trailers**

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