

# VITA-D-CHLOR™

## TABY MAT – VITA-D-CHLOR™ DECHLORINATION PROCEDURE

This procedure is a general guideline for the use of Taby Mats with Vita-D-Chlor™ Tablets for dechlorinating water from a fire hydrant flush at approximately 500 gpm.

### Key Points:

1. One **Vita-D-Chlor Tablet** neutralizes approximately 8,500 gallons at 1 ppm chlorine.
2. As a tablet dissolves and becomes smaller, it releases less neutralization chemical into the flow stream. Therefore, keep adequate tablets in the flow to continue dechlorinating all the water.

### Background:

This procedure is based on tests at approximately 500 gpm. Tablets dissolved in about 15 – 20 minutes when placed into the stream. At this rate one tablet will be adequate for the first few minutes. As it dissolves however, its reduced size and surface area will not release enough chemical to neutralize the chlorine in the water. Therefore, we recommend starting with two tablets in the mat.

### Procedure: Utilize at least two Taby Mats

1. Place two tablets in each Taby Mat.
2. Place first Taby Mat into flow stream.
3. Monitor tablet dissolution rate.
4. When tablets have dissolved to approximately one-half or one-third of their original size (roughly 15-20 minutes), place the second Taby Mat into the flow stream.
  - o *If tablets are dissolving faster, it may be necessary to use three tablets per mat.*
5. Continue this process by placing two new tablets into the first Taby Mat when the first two tablets have dissolved (as described in step 4) and rotating the mats every 15 – 20 minutes.
  - o *If water has a high chlorine content (2-3 ppm), it will be necessary to increase the number of tablets in the flow stream to three or four.*
6. Check water regularly for complete dechlorination.
7. Use sand bags or similar object to redirect water flow for thorough mixing of water that has flowed over the tablets with water that did not come in direct contact with the tablets. This will ensure the greatest amount of water has been dechlorinated.

### Note:

Tablet dechlorination is not an exact science. Therefore it is very important to use the safest chemistry possible in this operation. Over-dechlorination with harmful chemicals can be more toxic to aquatic life and the environment than the chlorine itself. **Vita-D-Chlor** has been proven effective as a dechlorinating agent, an environment-friendly natural product, and a nutrient to fish and aquatic life. For this reason municipalities nationwide are setting up their field dechlorination programs using **Vita-D-Chlor™** exclusively.

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