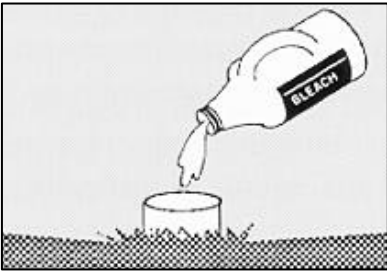
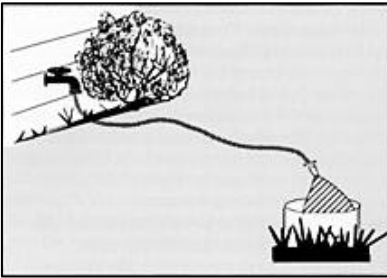


## HOW TO DISINFECT A PRIVATE HOUSEHOLD WATER WELL



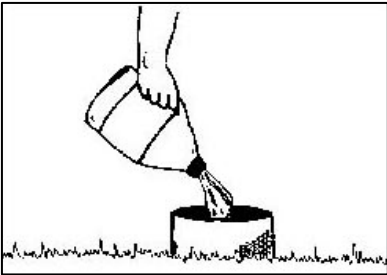
**1.** Obtain **2 gallons of household bleach** (5.25% non-fragrance chlorine) and **2 gallons of white vinegar**. Shut off the power supply to the well. **Water softeners, reverse osmosis units and carbon filters must be on by-pass during the shock chlorination and until sampling.** The water softener should be fully regenerated prior to the chlorine treatment. Manufacturers of water softeners and other water treatment devices should be contacted for specific chlorination instructions for their devices to avoid potential damage. Remove the well cap (or the vent pipe or plug if the well is equipped with a sanitary well seal). Pull the electrical wire connectors up and out from inside the well.

**2.** Pour **1 gallon of household bleach** and **1 gallon of white vinegar** directly into the well. Pour each along the inner edge of the well casing to disinfect the inner surface of the well.



**3.** Turn on power supply and connect a hose to an outside house hose bibb or spigot and run the water directly into the well until a **chlorine odor** is present in the water. Run the water this way for **15 minutes**. Make sure the water runs down all surfaces of the inside of the casing to properly disinfect the entire interior (a spray nozzle helps to wet down all the inside parts of the casing).

**4.** Shut off the water supply to the hose. Go to **each sink, water fixture and water using appliance**, both inside and outside the house, and run each until a **chlorine odor is detected** and then shut it off and go to the next one. Proceed in this manner until all the plumbing contains bleach. To be positive that the chlorine has reached all the plumbing, you may want to obtain some chlorine test strips to check the water. The test strips can be found wherever swimming pool chemicals are sold.



**5.** Shut off the electric supply to the well and close all the valves and pour the **second gallon of household bleach** and the **second gallon of white vinegar** directly into the well. Recap the well (or replace the vent pipe or plug). Turn on the electric. The water should sit for approximately **8 hours** when using the bleach and white vinegar method. If using chlorine bleach alone, all water valves should remain closed for at least **24 hours or longer** (toilets may be flushed if needed).

**6.** Open the hose spigot and discharge water to the ground surface or a drainage ditch until the **chlorine odor disappears**. **IT IS NOT RECOMMENDED TO RUN OUT THE CHLORINE WATER INTO THE SANITARY SEWER AND IT MAY DAMAGE A HOUSEHOLD SEWAGE DISPOSAL SYSTEM.** Then open every household fixture and let the water run for the few minutes necessary until the **chlorine odor is gone**. To be positive that all of the chlorine has been removed from all the plumbing, the water can be rechecked with the same chlorine test strips used above.

The well should now be properly disinfected. Please contact the **Logan County Health District's Environmental Health Division** to schedule a water sample at (937) 592-9040 ext. 6206.

For more assurance that your disinfection has been effective, you may want to wait **2 weeks or more** to have your water retested.