

Free Available Chlorine (FAC) Residual Test Procedures

The FAC test is the most important test to take. Twenty (20) minutes after the water truck is filled, there should be a Free Available Chlorine (FAC) residual in the water truck between 0.4 mg/L and 0.5 mg/L. The FAC level generally drops if the truck sits overnight. The minimum acceptable FAC in the truck that sits overnight for fire protection purposes is 0.2 mg/L. **Water should never be delivered if the FAC is less than 0.2 mg/L.**

To test FAC follow these steps:

1. Rinse the test cell 3 times with distilled water or the sample water. Fill the test cell to the 10-mL line with water that was taken from the truck. Put the cap on the cell and wipe the outside of the cell clean so that it is free of fingerprints and dust.
2. Remove the cap from the instrument. Place the blank in the cell holder with the diamond mark facing you. Tightly cover the cell with the instrument cap.
3. Press the **ZERO** button. The instrument will turn on and the display will show - - - then 0.00.
4. Remove the cell from the cell holder and add one DPD Free Chlorine Powder Pillow to the test cell. Place the cap on the cell and shake it gently for 20 seconds or until all of the powder has dissolved.
5. Once again, wipe the cell clean of fingerprints and dust. Within one minute after adding the DPD to the sample, place the prepared sample into the cell holder with the diamond mark facing you.
6. Tightly cover the cell with the instrument cap.
7. Press the **READ** button. The instrument will show - - - followed by the results in mg/L of free available chlorine (FAC). **RECORD THE RESULTS!!!**

