Lesson 22

EVE 405 Lesson 22: Disinfection

Instructional Objectives

1. Explain in your own words the difference between disinfection and sterilization.
2. List the stoichiometric equations for the production of hypochlorous acid and the hypochlorite ion.
3. Calculate the % of HOCl and OCl ion present in water at a given pH.
4. List three major categories of human enteric pathogens.
5. Draw a diagram and discuss the four points along the breakpoint chlorination curve.
6. Design a chlorine contact basin based on average and peak flow rates and contact time.

Study Assignment

1. Read pages 740-754

Homework

1. Technical Memorandum No. 3: Secondary Treatment is due March 27, 2008.