

## Lecture Questions: Sewage Treatment

These questions are all taken from EPA's *Primer for Municipal Wastewater Treatment Systems*, available from the course web site.

1. In what ways does the discharge of inadequately-treated sewage degrade the water quality of the receiving water body? In your answer, describe the major pollutants present in sewage before its treatment.
2. How does the Clean Water Act regulate sewage discharges?
3. What is a combined sewer system? What is their biggest disadvantage?
4. Describe in some detail the processes in the *primary* and *secondary* treatment of sewage. In your answer, be sure to describe the activated sludge method of treatment.
5. What are the main methods of disinfection used in sewage treatment? Describe each in a little detail.
6. What are the methods used in *advanced* (tertiary) sewage treatment? How do they help safeguard water quality?
7. What is sewage sludge ('biosolids') and what is done with it?