

Reading Guide

CEEG 340–Introduction to Environmental Engineering

Instructor: Deborah Sills

Reading assigned for Wednesday 11/6: Textbook, Ch. 5 (188-191; 194-198) & Ch. 9 (456-458)

After completing the assigned reading you should be able to:

1. Describe the main parameters of the Monod model: e.g., μ_{max} and K_S .
2. Define half-saturation constants, K_S , and describe what it means.
3. Describe the term ‘endogenous decay.’
4. Define the yield coefficient, Y .
5. Given a substrate utilization rate (in units of BOD consumed per time, and a yield coefficient, Y), calculate the rate of solids production.
6. Describe the activated sludge process.
7. Define mixed liquor suspended solids (MLSS) and mixed liquor volatile suspended solids (MLVSS).