



Wastewater Treatment Basics

FREE Zoom—Mentoring Session

Objective: Introduce the fundamentals of wastewater collection and treatment.

Includes: Flow schematics, descriptions of equipment and steps used to accomplish wastewater collection & treatment.

Introduces participants to the broad picture of wastewater treatment starting with wastewater sources and characteristics. Clearly describes the function of each step in wastewater treatment and gives pictures or examples of equipment often used in both liquid and solids treatment. Presents basic information on percent removal and treatment performance.

Answer these Example Questions:

1. What are BOD and TSS and what are typical domestic wastewater strengths (mg/L)?
2. A lagoon system obtains oxygen from what source?
3. T/F: Pathogens are usually removed in the aeration basin.
4. T/F: A City does not require an Industrial Pretreatment Program for controlling a metal plating operation since these are classified as categorical industries and regulated by EPA.
5. What can result from failure to constantly maintaining at least 1.0 to 2.0 mg/L of oxygen in the aeration basin?

Example Slide: The Function of Primary Clarifiers

WWTP Basics

Part 3: Liquid Stream – Primary Treatment

- Remove Particulate Matter
- 60-70% Suspended Solids
- 30% BOD Removal (All particulate)

