

# Wastewater Microbiology & Process Control Workshop Agenda

## *Day One*

### Introduction to Microscopy

- The Microscope
- Slide Preparation
- Sampling
- Hands-On Activity

### Wastewater Process Overview

- The Role of Bacteria
- Bacteria as Indicators of Treatment System Conditions
- Hands-on Activity - Identification of Protozoa
- Protozoa as Indicators of Treatment Systems Conditions

### Lunch

- Hands-On Activity – Protozoa Count
- Identification of Metazoa
- The Role of Metazoa
- Hands-on Activity

### Process Control

- Dispersed Bacteria
- Nutrient Deficiency
- Slime Bulking
- Toxicity
- Hands-on Activity
- Case Studies & Review

## *Day Two*

### Introduction to Filamentous Bacteria

- Filament Characteristics
- Hands on Activity
- Staining & Identification

### Lunch

- Hands on Activity
- Causes & Controls
- Case Studies

### Developing a Laboratory Program

### Review