

WATER / AIR QUALITY

Objective:

Provide a general overview of the types of jobs available at the municipalities to monitor environmental pollution and its potential impacts on public health and the environment. Discuss water, stormwater, wastewater and air/odor monitoring and show examples. Larger group will be broken up into 3 smaller groups for discussion and hands-on activities. (2 hours)

I Industrial Wastewater Monitoring

- A. What is industrial wastewater?
- B. Overview of importance of monitoring
- C. Demonstration of monitoring equipment
 - 1. Description of function of various equipment
 - 2. Considerations in collecting a representative sample

II Stormwater Monitoring

- A. What is stormwater?
- B. Overview of importance of monitoring
- C. Description of municipal dry weather screening
- D. Demonstration of dry weather screening tools – allow students to perform testing
 - 1. Ammonia
 - 2. Phosphorus
 - 3. Chlorine

III Air and Odor Monitoring (as time allows)

- A. Why do we monitor air quality and odors?
- B. Overview of different equipment used for air and odor monitoring
- C. Demonstration of various equipment
- D. Student odor sensitivity test using a variety of odorants