# Sewage Screen Collection/Shipping Guidelines



**Sample:** water/sludge collected in a sterile container (for chlorinated water use a container with sodium thiosulfate neutralizer); swab of solid surface; bulk sample submitted in sterile container.

### Method:

- Quantitative or qualitative selective culture for E. coli, fecal coliforms, and Enterococcus (fecal streptococci); quantitative cultures will be reported as colony forming units (CFU) per unit area (swabs); CFU/mL (water); or CFU/g (bulk).
- ▲ 24-hour sewage screen (water, swabs) presence/absence of *E. coli*, fecal coliforms, and *Enterococcus* (fecal streptococci).

#### **Collection:**

Sterile screw-top containers and swabs are available free of charge from U. S. Micro-Solutions, call 724-853-4047. Do not use "Q-tips" or other cotton swabs intended for personal use; they are not appropriate for environmental sampling.

# **Swabs**

- 1. Select a sampling area where fecal contamination is suspected.
  - An area between 1 and 4 square inches is recommended for swab cultures.
  - For 24-hour sewage screen, collect 2 swabs.
- 2. Wearing gloves, peel down the swab wrapper about 1 inch.
  - Apply strict aseptic technique when collecting samples.
- 3. Remove the plug from the media tube by twisting; discard the plug.
- 4. Remove the swab from the wrapper and insert it into the media tube.
- 5. Squeeze the bottom of the tube until the liquid in the sponge wets the swab.
- 6. Rub the pre-moistened swab vigorously over the desired sampling area.
- 7. Insert the swab into the media tube and firmly close the cap.
- 8. Record the sample number on the tube.
  - Record the unit area sampled for each swab.
- 9. Maintain sample at 2-8°C after collection.

#### Water

Potable Water - Distribution System without attachments:

- 1. Select a tap that is supplying water from a service pipe directly connected with the main, and is not, for example, served from a cistern or storage tank.
- 2. Open tap fully and let water run for 2 minutes or for a time sufficient to permit clearing of the service line.
- 3. Reduce water flow to permit filling the sample container without splashing. Collect 100 mL of water.
  - ▲ For 24-hour sewage screen, collect 200 mL.
- 4. Label the sample container with the sample number.
- 5. Maintain sample at 2-8°C after collection.

# Potable Water - Well fitted with a hand pump:

- 1. Pump water for about 5-10 minutes or until water temperature has stabilized then fill the sample container without splashing. Collect 100 mL of water.
  - ▲ For 24-hour sewage screen, collect 200 mL.
- 2. If no pumping machinery is available, collect a sample directly from the well by means of a sterilized bottle fitted with a weight at the base. Take care to avoid contaminating samples. Collect 100 ml of water.
  - ♠ For 24-hour sewage screen, collect 200 mL.
- 3. Label the sample container with the sample number.
- 4. Maintain sample at 2-8°C after collection.

#### Shipping

- Clearly label each sample with a Sample Number and complete the Chain of Custody (COC).
- 2. Place sample in a Ziploc bag and then in a box with an insulated foam liner and ice pack.
- 3. Insert the completed COC form into a plastic sleeve or Ziploc bag and place in box.
- Ship samples Monday through Friday for receipt within 24 hours of collection.