

Your Current Knowledge of *E. coli*

The following questions examine your knowledge of E. coli, its sources, effects, and how to monitor for it. This information will be very valuable in helping us evaluate the effectiveness of the training. There is no expectation that you have any specific knowledge of E. coli. Please don't worry about whether or not you are providing the "right" answer.

1. *E. coli* is monitored because: (check all that apply)

- It is an indicator of fecal matter in water
- It is an indicator organism used to detect possible presence of other microorganisms (including bacteria, viruses, protozoa and worms)
- It makes fish unsafe for human consumption

2. When people are exposed to water with levels of *E. coli* above water quality standards there is a risk of illness. Which of the following effects can they experience? (check all that apply)

- Fever
- Diarrhea and abdominal cramps
- Chest pain
- Hepatitis

3. Sources of *E. coli* include: (check all that apply)

- Human waste
- Wildlife waste
- Candy wrappers
- Urban and agricultural stormwater runoff
- Heavy metals
- Pet waste
- Livestock waste
- Fish

4. The variability of *E. coli* test results will increase because of: (check all that apply)

- Reusing sample bottles without cleaning them
- Exposing the collected sample to high temperatures before incubation begins
- Shaking the sample
- Using a non-sterile pipette to transfer the water sample

5. What is the typical incubation time for an *E. coli* test?

- 30 minutes
- 2-4 hours
- 24-48 hours
- 6-7 days

6. The water quality standard for bacteria is the same for drinking and swimming.
 True
 False
7. Which of the following is a potential source of *E. coli* in surface water? (check all that apply)
 Fish and insects in the water
 Car exhaust and automotive fluids
 Wastewater
 Atmospheric deposition
 Litter and trash
8. Bacteria in water are reported as: (check all that apply)
 Milligrams per liter (mg/L)
 Colony Forming Units per 100 milliliters (CFU's/100ml)
 Centimeters
 Cubic feet per second (cfs)
9. After a heavy rainfall, the number of bacteria in surface water will most often:
 Increase
 Decrease
 Stay the same
10. There are hundreds of strains of *E. coli* bacteria, some of which can cause illness.
 True
 False

11. For each of the following statements, please check the box in the appropriate column.

	Strongly agree	Agree	Disagree	Strongly disagree
A. I understand what I am supposed to do when I collect a water sample to monitor <i>E. coli</i> in a stream.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
B. I understand the process for maintaining the chain of custody.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
C. I now have the training I need to monitor <i>E. coli</i> .	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>