Quiz effective date: July 1, 2022 | Quiz deadline: October 1, 2022

1. Potential sources of nitrate contamination in groundwater include
   a. septic systems.
   b. animal feedlots and barnyards.
   c. agricultural or lawn fertilizer application.
   d. all of the above.
   e. none of the above.
2. The U.S. Environmental Protection Agency (U.S. EPA) preventive action limit for nitrate is
   a. 2 mg/L.
   b. 4 mg/L.
   c. 5 mg/L.
   d. 10 mg/L.
3. The Wisconsin Department of Natural Resources has estimated that __ of nitrate in Wisconsin groundwater is from agricultural activities.
   a. 60%
   b. 70%
   c. 80%
   d. 90%
4. Approximately __ wells sampled in Eau Claire County have nitrate levels that exceed naturally occurring concentrations.
   a. 1 in 2
   b. 1 in 3
   c. 1 in 4
   d. 1 in 5
5. Private well owners with a septic system and past water test containing nitrate levels __ in the Eau Claire City–County Health Department Certified Public Health Laboratory water quality database were invited to participate.
   a. ≥2 mg/L
   b. ≥4 mg/L
   c. ≥5 mg/L
   d. ≥10 mg/L
6. A total of __ households fully participated in this study by completing the questionnaire and submitting water samples.
   a. 108
   b. 110
   c. 130
   d. 399
7. Agricultural indicators were identified in __ of samples and septic system indicators were found in __ of samples.
   a. 5%; 10%
   b. 5%; 15%
   c. 15%; 5%
   d. 15%; 10%
8. Of the 108 samples, __ were positive for atrazine and/or an atrazine metabolite.
   a. 14%
   b. 15%
   c. 16%
   d. 17%
9. Caffeine was the most frequent septic system indicator.
   a. True.
   b. False.
10. The U.S. EPA maximum contaminant level for nitrate of 10 mg/L was exceeded in __ of the samples.
    a. 16%
    b. 18%
    c. 20%
    d. 22%
11. Among the homeowners who did take action in this study population, the most common solutions were purchasing bottled water and installing a point-of-use nitrate treatment system.
    a. True.
    b. False.
12. In this study, __ was the only risk factor associated with elevated nitrate.
    a. well depth
    b. casing depth
    c. drillhole depth
    d. well age