

# Reading Assignment

(Place this sheet followed by your answers in your lab book.)

## A. What's in Polluted Water p. 280

1. What is a physical contaminant? Give 2 examples.
2. What are 3 methods to remove physical contaminants, and what do they remove?
3. What is a biological contaminant?
4. What happened in Walkerton? How could it have been averted?
5. Why is chlorine added to drinking water? What are 2 ways it can be removed?
6. What is a chemical contaminant? Give 4 examples.
7. Explain the role of the following on the safety of our drinking water:
  - a. provinces
  - b. municipalities
  - c. federal
  - d. plant operator
  - e. lab technicians
8. What is the main job of a water treatment plant operator? (p. 285)
  - a. What are the 3 components of their job?
  - b. What education do they need?

## B. Water Disinfection Methods p. 288

9. Create a table with 3 columns. In the first column, list 4 water purification methods. In the second column, list the advantages of each method. In the third column, list the disadvantages of each method.
10. What method does this article say is the best method?

## C. Case Study p. 290

11. What are the 3 main goals of the Great Lakes Action Plan?
12. List the 7 specific objectives intended to be implemented to meet the goals.
13. What is an "area of concern" (AOC)? How many AOCs have been identified in the Great Lakes Basin? How many are Canadian?
14. What is a "Remedial Action Plan" (RAP) designed to do? How does it do this? Whose involvement is crucial?
15. Describe the problems in Hamilton Harbour over the last century.
16. Describe 2 examples of evidence of the successful restoration of Hamilton Harbour.
17. Identify and explain one reason for the success of the RAP for Hamilton Harbour.
18. How has human health benefited from the restoration of the Harbour?