Name	
Class/Period	

Qualitative Water Analysis — Lab Worksheet

RESULTS

Record your results for each test in the appropriate space below.

Data Table I

Solution Test	(+) Control Color	(-) Control Color	Your Water Sample
Nitrate	dark red complex with precipitate	orange solution with pink & little precipitate	
Iron	dark orange or purple	clear solution	
Phosphate	blue solution	yellow solution	
Chloride	white precipitate	clear solution	
Ammonia	dark orange precipitate	no precipitate	
Hard water	blue solution	purple solution	
Sulfate	white precipitate	no precipitate	
Chlorine	yellow solution	clear solution	
рН			

QUESTIONS

- 1) Describe the source of your water sample.
- 2) Describe the smell of your water sample.
- 3) Describe the local conditions from which your water sample was taken (wooded area, industrialized area, park setting, etc.).
- 4) If your water sample was clear, would it be safe to drink? Support your answer with evidence from the lab.
- 5) Draw a simple graph that shows the relationship between untreated water quality and increasing population size.
- 6) Describe the purpose of the Clean Water Act, originally established in 1972.
- 7) What is the purpose of the EPA?
- 8) Is all water pollution anthropogenic? Support your answer.
- 9) What effect will excess nutrients such as nitrates and phosphates added to a lake through agricultural runoff have on a lake community?
- 10) Using information from this lab, explain how can humans potentially limit the amount of pollution introduced into our fresh water.