Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**A Matter of Hypoxia**

1. What is hypoxia?
2. Describe/DRAW a flow chart showing the process of how hypoxia occurs. Include: algae, dissolved O2, bacteria, decomposition (decay), bloom, fertilizers, nitrogen, shade, photosynthesis, light
3. What are fertilizers used for?
4. Where does the nitrogen come from?
5. In which direction does water move in LIS move?
6. What is a Saturation Level?
7. How is oxygen affected by the saturation level?
8. What was the lowest level of oxygen in the Pre-Colonial times? Present Day?
9. What does it mean when the Sound becomes anoxic?
10. Which fish requires the most oxygen to survive? Which FISH requires the least amount of oxygen?
11. Approximately, how many tons of nitrogen enter LIS?
12. How much nitrogen comes from nature? From human activities?
13. Using the watershed map, what would you hypothesize are the major point source pollution locations?
14. According to the pie chart, where does 46% (36% and 10%) of the nitrogen come from?
15. Describe one way to remove nitrogen.