**Silent Spring: Chapter 4**

**Surface Waters and Underground Seas**

**Vocab Sheet: \_\_\_\_\_/20 points**

On a separate sheet of paper, you need to create a vocabulary list of words that you run into while reading that you are unsure of. Also write the page number and feel free to underline them lightly with a pencil in the book. You need to **write down at least 10 and find their definition.**

**Questions: \_\_\_\_\_\_/44 points**

**Page 39:**

1. List the 7 sources of pollutants that Carson says enters our waterways.

Page 40:

1. How do some chemicals defy detection by our water purification plants?
2. Sanitary engineers call deposits that cannot be identified as \_\_\_\_\_\_\_\_.

Page 41:

1. What is an organic pollutant?
2. Where did the United State Fish and Wildlife discover that fish, like warm-blooded animals, store insecticides?

Page 42:

1. How did the fish become contaminated in a remote lake that had not been exposed to direct spraying of DDT?
2. What does Carson say is the most disturbing threat to the water pollution problem?

Page 43:

1. What caused the unexplained sickness of livestock, humans and dying crops all around the same area?
2. How long did it take the contaminants from the Rocky Mountain Arsenal to travel in underground wells a distance of only 3 miles?

Page 44:

1. How did the weed killer 2,4-D get into some of the wells and the holding ponds?
2. What does Carson mean when she says “in the presence of catalyzing air and sunlight”?

Page 45:

1. How does the Wildlife Refuge manager explain the presence of pesticide residue building up in the refuges where there are no chemical applications?

Page 46:

1. Explain why water must be thought of in terms of the chains of life it supports.
2. How does Carson compare minerals and chemicals?

Page 47:

1. Define Bioaccumulation.
2. Use this definition to describe what happened at Clear Lake.

Page 48:

1. Where did Carson say the poison went if it didn’t really leave the lake?
2. How is it possible for the amount of pesticide found in a fish to be 25 times greater than was put into the water?

Page 49:

1. Carson mentions at the end of the chapter, “the opposite end of the food chain”. Who did she mean by this? Would the top of the food chain have more chemicals in them or less? Why?
2. What is the human adrenal cortex? What is their function?

Page 50:

1. How do the sources of our drinking water have an affect on cancer rates among humans? Where would you rather get your drinking water?

Page 51:

1. Explain the statement “in nature, nothing exists alone”.