**APES Study Guide**

**Water and Soil Pollution**

Vocabulary:

It is necessary that you know the meaning of the following terms in order to answer application and evaluation questions on your upcoming assessment. You may write out the definition, make notecards (handwritten or digital), use the online vocabulary resources or simply review the terms in your notes. It is YOUR responsibility to ensure that you know these terms!

Turbidity Thermal pollution Fecal coliform bacteria

Dissolved oxygen (DO) Oligotrophic Activated sludge

Salinity Eutrophic Septic system

Hardness Point source Salinization

Effluent Non-point source Phytoremediation

Short Answer:

You are REQUIRED to answer each of the following questions on separate paper. ALWAYS write in complete sentences. Use both your class notes AND your textbook for reference.

1. As a result of logging in a watershed, what will be the effect on surface water turbidity and temperature?
2. If a water pollutant acts as an endocrine disruptor, what are the effects on organisms consuming that water?
3. Explain the causes and effects of eutrophication in a body of water. What pollutants initiate the effect? What is the initial impact? How does eutrophication affect BOD and DO?
4. What is an oxygen sag curve?
5. Identify 3 methods that could be used to clean up oil spills.
6. Name 3 potential sources of groundwater pollution.
7. Differentiate between the Clean Water Act and the Safe Drinking Water Act.
8. List the 4 main steps of municipal water treatment.
9. Briefly describe the stages of wastewater treatment (primary, secondary, and tertiary).
10. Explain the following statement:

*In the removal of a pollutant from wastewater, the cost increases as the concentration of the*

*pollutant decreases.*

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