



4. Evaluate the use of a salt dome for storage of nuclear waste (such as at the WIPP site in NM) vs. the use of Yucca Mountain. What are the advantages and disadvantages of each? (10pts)
5. You work for an environmental company and are charged with the task of evaluating a site for a potential hazardous waste dump. The waste will be in the form of a fluid. The geologic setting is below. **How would you evaluate the potential? Formulate below a specific plan or test that you feel would best evaluate the site.** Use any information from class that may be applicable and the back of this page if necessary.(15 pts)

**Short Answer (5 pts)**

6. What is an equation of state?
  
  
  
  
  
  
  
  
  
  
7. What is permeability? Why is it so important? How much does it vary throughout the crust?

**Answer 5 (FIVE) of the following questions. Your choice! 5 pts each.**

8. How can the problem with environmental Pb poisoning be eliminated?
  
  
  
  
  
  
  
  
  
  
9. What is one of the potential problems with municipal waste being disposed of in landfills?
  
  
  
  
  
  
  
  
  
  
10. What is bioremediation? What are the benefits of using this approach?
  
  
  
  
  
  
  
  
  
  
11. Freeport McMoRan has established a mine in Indonesia. To rid of tailings, they are sending them downstream, flooding the adjacent land with sludge rich waters which has caused severe devastation of rain forest vegetation. Their solution is to build levee's along the river to contain the waste. Based on your scientific knowledge, will this eliminate the problem? why or why not.
  
  
  
  
  
  
  
  
  
  
12. What are the major contributors to acid rain? What are the detrimental effects to the environment?

13. What is "NORM" and why are environmental exposures NOT actually hazardous?
14. What are THREE occupational hazards associated with Uranium mining? How could these be eliminated?
15. Has amorphous silicone been directly linked to health hazards? As a juror on a case involving silicone, what scientific evidence would you specifically ask to see prior to making a decision?
16. What are household hazardous wastes and why are they becoming more of an important environmental issue?

**BONUS:** What were the three most important things that YOU learned in this class? (3pts)

**BONUS:** Comments, suggestions, criticisms (constructive, of course) concerning this class? (3pts)

!!!! Have a GREAT SUMMER !!!!