Cement types and Industrial Uses Name:

1. In designing a condo complex at Big White you are asked to prepare a cement foundation. What types of concrete would make good options given the weather conditions there?
2. A small bridge across Mission Creek is planned for quick construction, what type of cement would be useful in the concrete footings?
3. Pre-cast sewar piping is being designed what advantage is given by using PPC instead of OPC?
4. What is blast furnace slag, and why is it sometimes mixed with clinkers? Determine a project where you might recommend this .
5. What is air entraining, and what advantage can be added by air entraining glues and resins?
6. Site C Dam is currently under construction in north eastern BC, why does lowering the Darcy Coefficient become important in this project?
7. How does polymerization and crystalline technology relate to lowering the Darcy Coefficient in cements?
8. Expansive Cement is needed in applications where usual shrinkage during curing will compromise the integrity of the concrete. What are 2 such applications?
9. What mineral could be added to a cement mixture to produce a blue-green color? Wouldn't it be nice if this was done at KSS when we built the school? It would have cost an extra $1000 on the $21 million build cost.