GEO 390 -- Surficial Geochemistry
Laboratory #3

Atomic Absorption Spectroscopy, Pt.2: An Ion Exchange Experiment

For the write up of this lab I expect the following:

1. Introduction. Give a brief overview of what we did, how and why.

2. Experimental Details, 1. Describe how the ion exchange experiment was planned and carried out. Include calculations as necessary.

3. Experimental Details, 2. Describe how the AAS analyses were carried out. As you have already done a write-up of instrument procedures, these do not need to be included. Do include all pertinent details related to analytical conditions each day we ran, and calibration data you acquired.

4. Results. Use a thoughtful table form to summarize the analytical data after calculations.

5. Interpretations. Put the data from the Results section into context. Be sure to comment on the extent to which we did or did not achieve our predictions and what this means. Comment also on the concentration data for the two water samples (i.e., how they compare to the "expected" values, and explanations for why they did not, if that is the case).

6. Future Directions. Briefly comment on ways in which the experiment could be changed in order to generate superior or more specifically interesting or useful data.

Be certain to include any calculations you do with adequate annotation (watch the units!) and to thoroughly proofread and spell-check the final product.

As stated in class today, the report is due on Wed 3/19/08.