

Experiment 2 Procedure...

A. Preparation and Ion Chromatography of Water Samples

Various drinking waters (tap and bottled) are provided in lab. Ion chromatography sample tubes of these waters will be prepared for the entire class by the Monday lab group. If you have brought your own bottled water to be analyzed, first **check the log sheet** located next to the sample tube rack on the reagent table to make sure that a sample of your water has not already been prepared. If not, **enter the name of the sample (e.g., "Deer Park") into the log sheet** and then prepare an analysis tube with this water. The tube should be filled 1/2 to 3/4 full and then capped with a filter cap. (Note that the tubes and caps are single use and require no rinsing before use. Handle the cap as little as possible to avoid transferring ions from your hands to the water sample.) Use a permanent marker to label the tube with the same sample name you previously entered in the log sheet. Leave the capped, labeled tube in the sample tube rack, making sure the tube location corresponds to information noted for this sample on the log sheet. Later, an instructor will chromatograph the water samples on an anion exchange column using a sodium bicarbonate eluent solution. Chromatograms will be distributed at the beginning of lab next week...