[Geochemical Analysis & Lab]

EXPERIMENT 1: Washing and Rinsing Glass- & Plastic-wares (bottles, beakers, flasks, rods, tubes, pans, etc.)

**Preparation**: Brushes, washing bottles, deionized water, dishwashing liquid, drain rack, 1:1 HCl, 1:1 HNO3

**Procedures:**

1. Soak the glass- and plastic wares to be cleaned into the (tap) water (allow enough time to be hydrated)
2. Wash the wares thoroughly with brushes or dishwashing pads, foaming with dishwashing liquid
3. Rinse the wares with tap water four or five times until all the traces of the washing liquid gone
4. Rinse the inside of the wares with deionized water four or five times. Check if you still have water breaks on the glass ware (if you do, the cleaning is not good enough. You may need immerse the wares into a special cleaning solution)
5. Hang the glass wares on the drain rack
6. (Plastic bottle for sampling only)

6-1. Fill the bottle with 1:1 HCl and allow to stand for a week

6-2. Decant 1:1 HCl out from the bottle, rinse the bottle with deionized water four or five times, and then fill the bottle with 1:1 HNO3. Allow to stand for a week

1. Decant 1:1 HNO3 out from the bottle and rinse it thoroughly with deionized water four or five times. Fill the bottle with deionized water and let it stand until being used.

CAUTION: NEVER DRAIN THE ACIDS DOWN THE SINK!!!! Put the acid back to the original bottle. Collect the acid rinsing water to the waste bottle.

**Notes:**