1. Measure Secchi depth.
2. Collect 1 liter of integrated sample in photic zone (2x Secchi depth).
   1. Rinse Nalgene bottle with lake water.
   2. Fill 1 1-L Nalgene bottle with integrated sample, mark with site and date, store on ice.
3. Take hydrolab profile at 0.5 m intervals, recording temp, DO, pH, conductivity, Chl-a (units & volts), PCY (units & volts). Record on data sheet.
4. Record max depth with hydrolab and record on data sheet..
5. Zooplankton tows:
   1. Littoral sites: Using 63 µm net, take two samples, one for morphological identification and one for meta-barcording. For each sample, take approximately three vertical tows the full depth of the water column and rinse down into a 250 ml sample bottle containing ethanol with DI water. Then number of tows is dependent on the density of zooplankton and the depth- make sure to record the number of tows in the data sheet. More zooplankton = better.
   2. Pelagic sites: for each of two samples, take one vertical tow across the entire water column using 63 µm net and rinse down into a 250 ml sample bottle containing ethanol with DI water. Mark bottle with site, date, and water column depth.
6. Collect meteorological measurements using Kestrel (air temp, max and average wind speed over 1-minute period). Record on data sheet.

For reference, we sample five littoral Thunderbird sites in this order:

1. South Dam: https://goo.gl/maps/PG8QxfRaz7qVrtaVA (35.216101, -97.225268)

2. Turkey Pass: https://goo.gl/maps/V6HziiVW1hkk8ECLA (35.210197, -97.253383)

3. Fisherman’s Point: https://goo.gl/maps/bqjs3UJxeXyWvGTv8 (35.228593, -97.24719)

4. Sailboat: https://goo.gl/maps/LPVf8iZv8yKZNh6k7 (35.230245, -97.236264)

5. Hog Creek: https://goo.gl/maps/rQGx9katwyAf7j3A7 (35.249975, -97.240040)

On days when we sample in conjunction with OWRB, we first meet them at South Dam to hand off the cooler and supplies, then we do our usual sampling. Sometimes on these OWRB days we will sample in REVERSE order to save on drive time. When we finish littoral sampling, we drive back to the lab and process samples. One person drives out to pick up samples from OWRB at Hog Creek usually around 2 PM- they will call to let you know when they are ~20 minutes from finishing.