

## Snapshot Day Suggested Equipment Checklist

The following list of equipment is arranged according to the various stations during the Snapshot Day Trainings. There are many items on this list that you may not need, and there are likely additional materials we didn't include that you'll want to add to this list. Also, you don't have to arrange your Snapshot Day trainings according to this list.

### General Materials

- first aid kit
- emergency contact numbers for school
- Snapshot Day data sheets
- clipboards
- extra pencils
- permanent markers
- cooler with ice or cold-paks
- binoculars
- camera
- drinking water
- cell phone
- spare trash bag
- extra zip loc bags
- large inexpensive tarps to use for students to sit on/lay supplies on etc.
- \_\_\_\_\_
- \_\_\_\_\_

### Fishing, Invertebrates (The Zoological River)

- seine net
- chest waders or hip waders
- minnow pots or small fish traps
- 5-gallon bucket
- small dip net for handling fish
- Clearwater fish key (downloadable from Snapshot Day website)
- small aquarium or transparent container for viewing fish
- battery powered air pump
- ruler or tape measure
- long handled aquatic insect net
- macroinvertebrate identification chart or guide
- shallow plastic trays
- magnifying glass
- \_\_\_\_\_
- \_\_\_\_\_

### Site Description, Tides & Currents (The Physical River)

- tide stick or yardstick
- hip waders if using tide stick
- tide chart for your location and date
- map or chart of river with river miles and/or latitude and longitude lines
- GPS unit
- wetland or aquatic plant guide
- Beaufort chart
- anemometer
- air thermometers ( $^{\circ}\text{C}$  and/or  $^{\circ}\text{F}$ )
- long tape measure or measured string (for determining current speed)
- orange for tossing into water
- watch with second hand or stopwatch
- \_\_\_\_\_
- \_\_\_\_\_

### Water Quality (The Chemical River)

- bucket with rope
- water thermometers ( $^{\circ}\text{C}$  and/or  $^{\circ}\text{F}$ )
- dissolved oxygen titration kit (Hach, LaMotte)
- saturation graph nomogram
- pH test kit (strips, color disc, meter; various suppliers)
- salinity instrument (hydrometer, refractometer, Quantab strips, chloride titration)
- various instruments are also available for testing conductivity and nutrients like nitrates and phosphates
- screw top container for waste chemicals
- container or bag for trash
- paper towels or wet-naps
- \_\_\_\_\_
- \_\_\_\_\_

### Additional Sampling (Looking Deeper)

- resealable bags (ex. Ziploc)
- hipwaders or boots
- turbidity instrument (tubes, secchi disc, turbidimeter)
- sediment corer
- chlorophyll sampling kit and directions
- Permanent marker
- other collecting kits for research projects: \_\_\_\_\_