

78-305 Fieldmaster®

Basic Horizontal Water Bottle

The purpose of the **Fieldmaster®** Water Bottle is to collect water samples for chemical and plankton analysis. Samples can be taken just about anywhere - from a boat, on a bridge, off a pier, from shore - and can involve your entire group. Because the bottle is virtually unbreakable, it can survive an unusually long drop - from a high bridge, for instance - which means your sampling choices are nearly unlimited.

This all-purpose horizontal water sample features an unbreakable PVC body. Its trip needs no messenger. Because it is reliable and economical, it is ideal for use by schools and lay volunteers.

How to use:

1. Make sure the line is securely attached to the top loop of the steel cable that connects to the bottle. The trip pin should also be attached to this loop. Check and test all connections before using your bottle.
2. If you choose to calibrate the line, do so after you attach it to the bottle. We suggest you run it down a hallway and mark off meters and half-meters with two different colored markers, making sure the first half-meter marking is exactly one half-meter from the center of the bottle.
3. Set the stoppers in the open position:
 - a. Pull them, one at a time, out of the end of the bottle, bringing together the 3" metal tube from one end and the 3" metal insert from the other.
 - b. Put the insert into the tube and line up the holes that are approximately one-inch from the ends. Push the trip pin completely through the holes. You should hear a click and be able to see the moveable ball bearing on the locking pin on the opposite side of the trip mechanism.
 - c. Gently hold the unit up by the float and gently shake it. The pointed end of the locking pin

should be facing down. If the pin comes out, do the procedure again.

- d. When the bottle is open (armed), it is ready to be lowered into the water.
4. Lower the bottle slowly, being very gentle when it touches the surface of the water. You may have to gently move it from side to side to start it filling with water. Count the marks on the line as it goes beneath the surface of the water.
5. When the bottle is at the desired depth, give the line a quick, strong, upward tug. This should release the trip pin and snap the stoppers shut.
6. If you have calibrated the line, count the marks on the line again for accuracy as you pull the bottle up.
7. For quantitative use, measure the volume sampled.
8. The red rubber end seals that were used on this bottle are meant to keep the cost down for you. They don't always close perfectly straight, but they do hold the water in the bottle!

Note: Bottle works best when wet! Do not allow bottle to close out of water. Injury or damage to the bottle may result.

For use by or under the supervision of an adult. Not for use by anyone under age 13.

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