INTRODUCTION

This device is designed for use in the field and is a simplified water sampler. The sample is collected in a removable inner bottle which will overflow five times to insure a representative sample. Samples may be taken at a controlled depth by using a calibrated line. Attaching the two pound weight to the bottom of the sampling device insures rapid descent and minimizes the amount of drift due to currents. More weight should be attached to the sampling device in strong currents.

It is necessary to maintain a position directly over the Water Sampling Bottle when lowering it so that it remains in an upright position. This permits the displacement of all of the air in the sampler so that it will fill completely.

It should be noted that the bubbles of air displaced from the sampler will be observed downstream.
A. COLLECTING A WATER SAMPLE

1. Remove the plastic center plug with inlet tubing attached.

2. Insert the collecting bottle (0688-DO), with the cap removed, into the inner chamber of the cylinder.

3. Replace the plastic center plug. Make sure the inlet tubing is in the collecting bottle.

4. Attach the two pound weight (1068) to the bottom bridle of the sampler by the snap clamp.

5. Attach the snap clamp on the calibrated line to the bridle on top of the sampler.

6. Quickly lower the water sampler to the desired depth and leave until full. This can be determined when the bubbles from the displaced air in the sampler cease to appear. This usually takes 3 to 5 minutes.
B. COLLECTING A DISSOLVED OXYGEN WATER SAMPLE

The dissolved Oxygen Test is made with reagents furnished in the LaMotte Dissolved Oxygen Kit, Model EDO, Code 7414.

*WARNING: Reagents marked with an * are considered to be potential health hazards. To view or print a Material Safety Data Sheet (MSDS) for these reagents go to www.lamotte.com. To obtain a printed copy, contact LaMotte by e-mail, phone or fax.

1. Follow steps 1-8 in Part A.
2. Remove the collecting bottle from the inner chamber.
3. To the sample, add 8 drops of *Manganous Sulfate Solution (4167) and 8 drops of *Alkaline Potassium Iodide Azide (7186).
4. Cap the bottle and gently mix by inverting.
5. Allow the collecting bottle to stand undisturbed until the precipitate settles into the bottom half of the collecting bottle.6.
6. Use a 1.0 g spoon (0697) to add one measure of Sulfamic Acid Powder (6286). Cap the collecting bottle and mix until the precipitate is completely dissolved.
C. TAKING SOUNDING WITH THE GRADUATED LINE

The two pound weight can be used for taking soundings. Attach the weight to the graduated line by the snap clamp and lower it into the water. Measure the depth at which the sounding lead strikes the bottom. The line is graduated in meters with every fifty meters marked by a plastic band.