**FSOP-3**

**Temperature, Specific Conductance, Dissolved Oxygen, Salinity Field Sampling SOP**

Equipment- YSI Model 85

Note: Field calibration is not necessary for the aforementioned parameters. However, from time to time it is wise to check the system calibration for conductivity. This should be accomplished in the laboratory by following the protocol provided in the YSI Model 85 manual.

*Field Operation*

1. Turn the meter on- the instrument will activate all segments of the display for a few seconds, which will be followed by a self-test procedure that will last for several more seconds. During this power on self-test sequence, the instrument's microprocessor is verifying that the instrument is working properly.

2. Select a measurement mode (dissolved oxygen %, dissolved oxygen mg/L, conductivity, specific conductance, or salinity). Temperature is always displayed. Selecting a measurement mode is accomplished by simply pressing and releasing the mode button. If the instrument is reading specific conductance (temperature compensated), the large numbers on the display will be followed by μS or mS. Additionally, the small portion of the display will show the $^o$C flashing on and off. If the instrument is reading conductivity (NOT temperature compensated), the large numbers on the display will be followed by either a μS or an mS; however, the small portion of the display will show the $^o$C NOT flashing.

3. Lower electrode to the desired depth (surface, middle, or bottom of the water column). When recording the bottom measurement, be sure to keep the electrode at least 0.5 ft above the bottom. Be sure not to disturb bottom substrates prior to or during measurement.

4. Record measurement

5. Cycle to the next measurement mode and record the next parameter. This step should be continued until measurements for all parameters are recorded.

6. Turn meter off and place electrode into storage chamber.

Note: If sampling sites are relatively close together, it is acceptable to leave the meter on until all measurements are recorded.