Dissolved Oxygen Kit Instructions

1. Fill the dissolved oxygen bottle with sample water to the middle of the frosted area by submerging it in the stream.
2. Add the contents of one Dissolved Oxygen Reagent 1packet and one Dissolved Oxygen Reagent 2 packet.
3. Stopper the bottle without trapping air bubbles.
4. Shake the bottle vigorously to mix.
5. Wait for flocculent to settle to approximately half the bottle volume.
6. Shake the bottle vigorously again.
7. Wait for the flocculent to settle to approximately half the bottle volume.
8. Remove the stopper and add the contents of one Dissolved Oxygen 3 Reagent powder pillow.
9. Stopper the bottle and shake the bottle vigorously (flocculent will dissolve and sample will turn yellow if oxygen is present).
10. Fill the plastic tube to the top with sample from dissolved oxygen bottle.
11. Place the square bottle over the full plastic tube and invert to pour the contents into the square bottle.
12. Add Sodium Thiosulfate Standard Solution one drop at a time to the mixing bottle (**making sure to hold the dropper vertical**). Count each drop. **Swirl** to mix after each drop. Add drops until the sample becomes colorless.
13. Record the number of drops used in Step 12. One drop equals one mg/L.

Pocket Pro pH Meter

Calibration:

1. Set the power to on and remove the cap from the sensor.
2. Push to go to calibration mode. The auto-recognition standard (7.00 or 10.01 pH) to measure shows on the bottom line.
3. Pour the auto-recognition standard shown into the cap to the fill line.
4. Put the sensor fully into the cap.
5. When the measurement is stable, push to save the measurement. The measured value flashes three times.
6. To measure another calibration standard, do steps 4–7again.
7. Push and hold to go to continuous measurement mode. "END" shows on the display.
   1. *Note: "ECAL" shows on the display if the calibration was not successful.*
8. Rinse the sensor and cap with deionized water and blot dry.

Measurement:

1. Set the power to on.
2. Remove the cap from the sensor.
3. If the lock icon shows on the display, push to go to continuous measurement mode.
4. Rinse the sensor and cap with deionized water and blot dry.
5. Pour the water sample into the cap to the fill line.
6. Put the sensor fully into the cap. The measured value shows on the top line.

Note: The lock icon shows on the display when the measurement is stable.

Pocket Pro Conductivity LR Meter

Calibration:

1. Set the power to on and remove the cap from the sensor.
2. Push to go to calibration mode. The auto-recognition standard (1413 or 147 µS/cm) the tester expects to measure shows on the bottom line.
3. Pour the 1413 µS/cm calibration standard shown into the cap to the fill line.
4. Put the sensor fully into the cap.
5. When the measurement is stable, push to save the calibration and go to continuous measurement mode. The measured value will flash 3 times and then stop. Then, "END" shows on the display.
6. Rinse the sensor and cap with deionized water and blot dry.

Measurement:

1. Set the power to on.
2. Remove the cap from the sensor.
3. If the lock icon shows on the display, push to go to continuous measurement mode.
4. Pour the water sample into the cap to the fill line.
5. Put the sensor fully into the cap. The measured value shows on the top line.

Note: The lock icon shows on the display when the measurement is stable.

Nitrate Kit Instructions

1. Fill sample bottle with sample water.
2. Fill one test tube to the 2.5 mL line with water from the sample bottle.
3. Continue filling test tube to 5 mL line with Mixed Acid Reagent.
4. Cap and mix.
5. Wait two minutes
6. Use the 0.1 gram spoon to add one level measure (avoid any excess) of Nitrate Reducing Reagent.
7. Cap and invert gently 50-60 times for one minute.
8. Wait ten minutes
9. Insert test tube into Octa-Slide 2 Viewer color comparator.
10. Match sample color to a color standard while using a white background.
11. Record the results from the color comparator as ppm nitrate nitrogen (NO_3-N).
12. Containerize all waste.