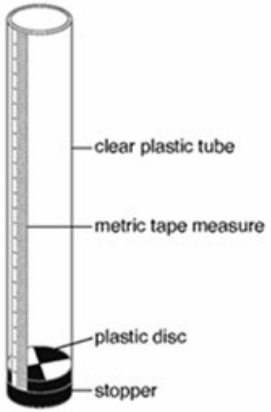
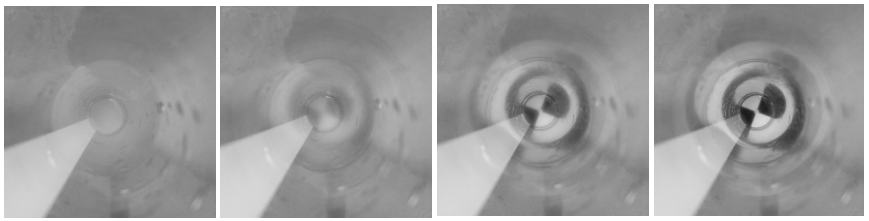
# Transparency Tube Instructions

Fill the tube directly in the stream when possible. If not, use a sampling pole with cup or bucket to fill the transparency tube. Do not use surface water or water that has become turbid from entering the stream. Remove hats and sunglasses to perform this test, choosing the most shady area of your site.




1. Using your transparency tube, bucket or sampling pole, lower it below the water surface to collect a sample of water at your site. Be careful not to stir up the bottom, as this will increase the turbidity of your sample.
2. Holding the tube vertically, fill the tube with your sample water. Make sure the sample is well mixed. Stir it if you have let it sit.
3. From above, look straight down (in a shady place) into the open end of the tube and press the release valve to allow water to drain from the bottom until the black and white quadrants can be seen (stop when barely visible, photo "B" below).



A. Full Tube B. Record in cm C. Too Far D. Empty Tube

4. Looking at the side of the tube, measure the depth in centimeters.
5. After sampling, rinse any mud or debris from the transparency tube with fresh water and allow to dry completely before storing.

# pH Test Procedure

The Octa-Slide 2 Viewer should be held so non-direct light enters through the back of the Viewer. Insert the Octa-Slide 2 Bar into the Viewer. Insert the reacted sample into the top of the Viewer. Match the color of the reaction to the color standards.

REMINDER: Check expiration dates on chemicals.

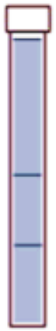
*WARNING: Reagents marked with an * are considered to be potential health hazards.

**PROCEDURE**

1

Insert Wide Range pH Octa-Slide 2 Bar (2193-01 or 2196-01) into the Octa-Slide 2 Viewer (1101).

2

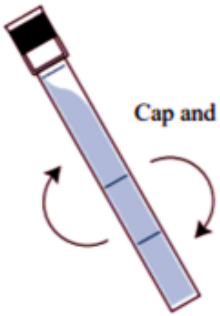


Fill a test tube (0106) to the 10 mL line with sample water.

3

Add 10 drops of *Wide Range pH Indicator (2218).

4



Cap and mix.

5

Insert test tube into Octa-Slide 2 Viewer (1101).

6

Match sample color to a color standard. Record as pH.