

World Water Monitoring Day 2008

Water Monitoring Testing

Simple Tests for

- Temperature
- Turbidity
- Dissolved Oxygen
- pH

Personal Protective Equipment

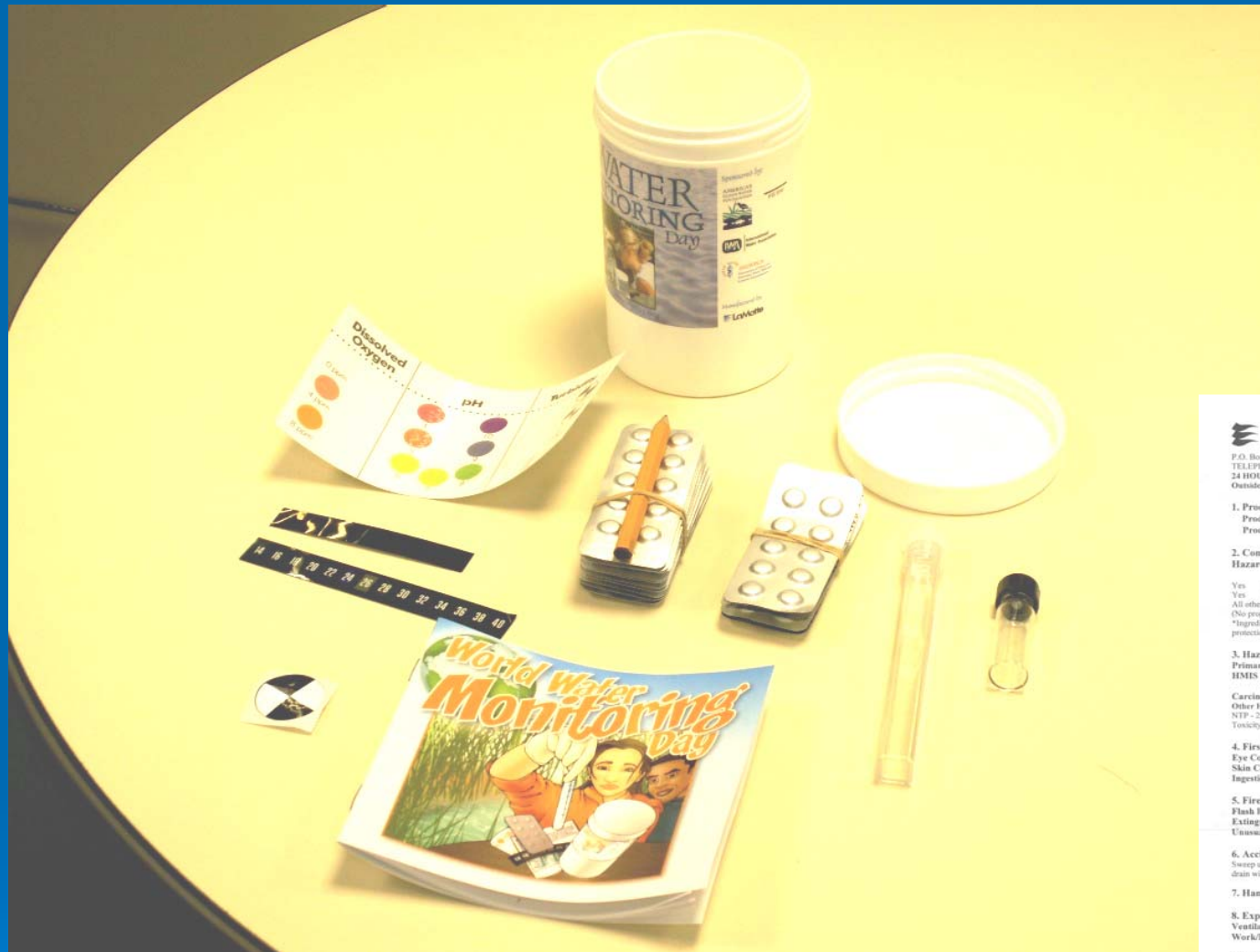


Safety Goggles



Glove

Water Monitoring Testing Kit



LaMotte **MSDS**
 P.O. Box 329 • 802 Washington Avenue, Chestertown, MD 21620 • USA
 TELEPHONE # FOR INFORMATION 410 778-3100
 24 HOUR EMERGENCY NUMBER (CHEM-TELL): USA, Canada, Puerto Rico 800-255-3924;
 Outside North American Continent 813-248-0585 (call Collect)

MATERIAL SAFETY DATA SHEET

1. Product Identification
 Product Code: 3976
 Product Description: Dissolved Oxygen Tablets
 Manufactured By: LaMotte Company
 802 Washington Avenue
 Chestertown, MD 21620

2. Composition/Information On Ingredients

Hazard	CAS#	Name	%	PEL	TLV
Yes	137-09-7	2,4 Diaminophenol Dihydrochloride	0.1	NE	NE
Yes	6132-04-3	Sodium Citrate	25	NE	NE

All other ingredients are proprietary. NTPSRN 80100291-5036p
 (No proprietary ingredients are toxic or highly hazardous)
 *Ingredients not listed by name are proprietary to LaMotte Co, registered under the state of New Jersey (U.S.A.) trade secret protection law, assigned the NJ Trade Secret Registry # 80100291-5036p and may be disclosed only in a medical emergency

3. Hazards Overview
 Primary Route Of Entry: Skin, Ingestion. May stain skin. Harmful if swallowed.
 HMIS Hazard Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least
 Health: 1 Flammability: 0 Reactivity: 0
 Carcinogenicity: Yes: NTP
 Other Health Related Comments:
 NTP - 2,4 Diaminophenol Dihydrochloride is suspected of causing cancer in humans. RTECS class: tumorigen; mutagen. See Toxicity, Section 11.

4. First Aid Measures
Eye Contact: Immediately flush eye with water for several minutes. Consult physician if irritation develops.
Skin Contact: Flush thoroughly with water. Wash skin with soap and water.
Ingestion: If more than a few tablets have been swallowed induce vomiting. Consult physician. **Inhalation:** N/A

5. Fire Fighting Measures
Flash Point (Method Used): LEL: N/A UEL: N/A
Extinguishing Media: Not a fire hazard. **Special Fire Fighting Procedures:** N/A
Unusual Fire & Explosion Hazard: N/A

6. Accidental Release Measures
 Sweep up spilled tablets. <100 tablets can usually be discarded to trash, or dissolved in a beaker of water and washed down drain with more water. Wash hands after contact with tablets.

7. Handling & Storage: Store in cool, dry place away from heat and moisture. Keep out of reach of children.

8. Exposure Controls/Personal Protection
Ventilation: Normal. **Protection When Handling:** Gloves, Eye Protection, Lab Coat
Work/Hygenic Practices: Avoid handling tablets. Wash after handling.

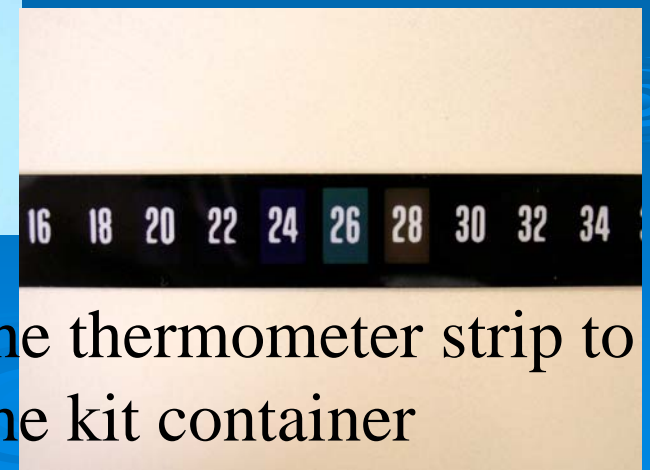
9. Physical & Chemical Properties
Appearance: Gray Tablet **Solubility In Water:** Soluble **Odor:** None **pH:** 8 (2 tablets in 4.8ml water)
Vapor Density: N/A **Vapor Pressure:** N/A **Boiling Point:** N/A **Melting Point:** Unknown

Material Safety Data Sheet

Temperature

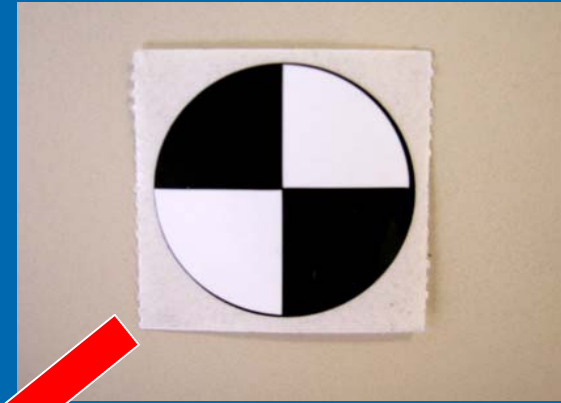


Temperature
Reading

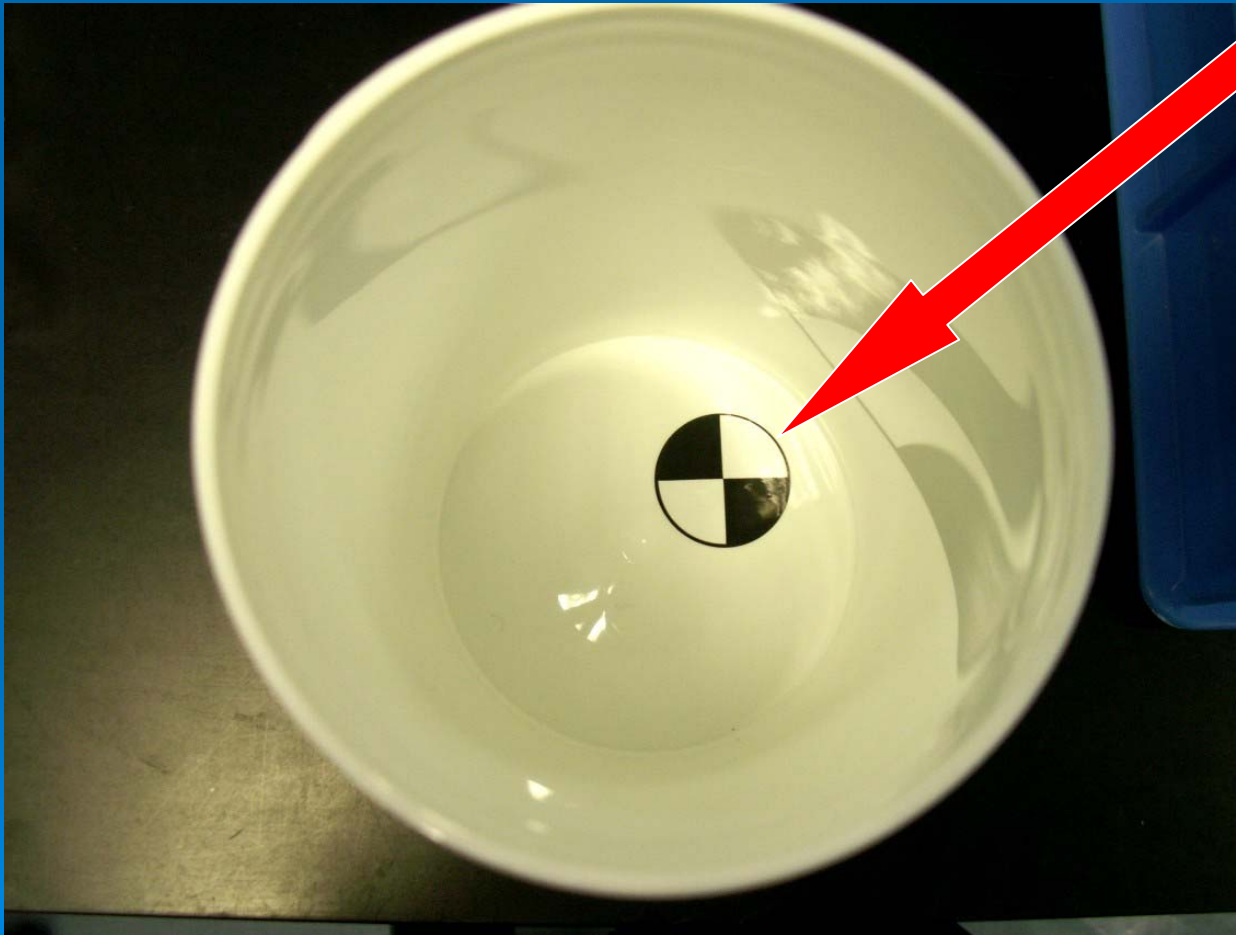


Adhere the thermometer strip to
the kit container

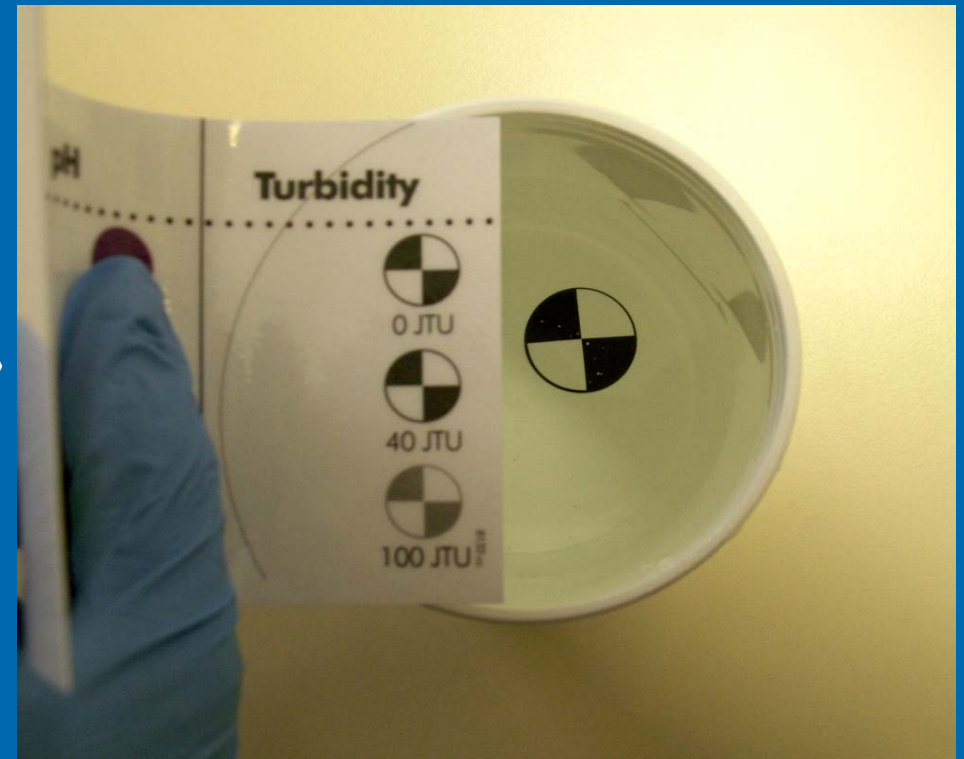
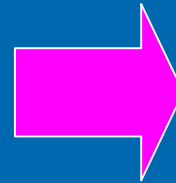
Turbidity (1)



Adhere the Secchi disk icon sticker on the inside bottom of the container.



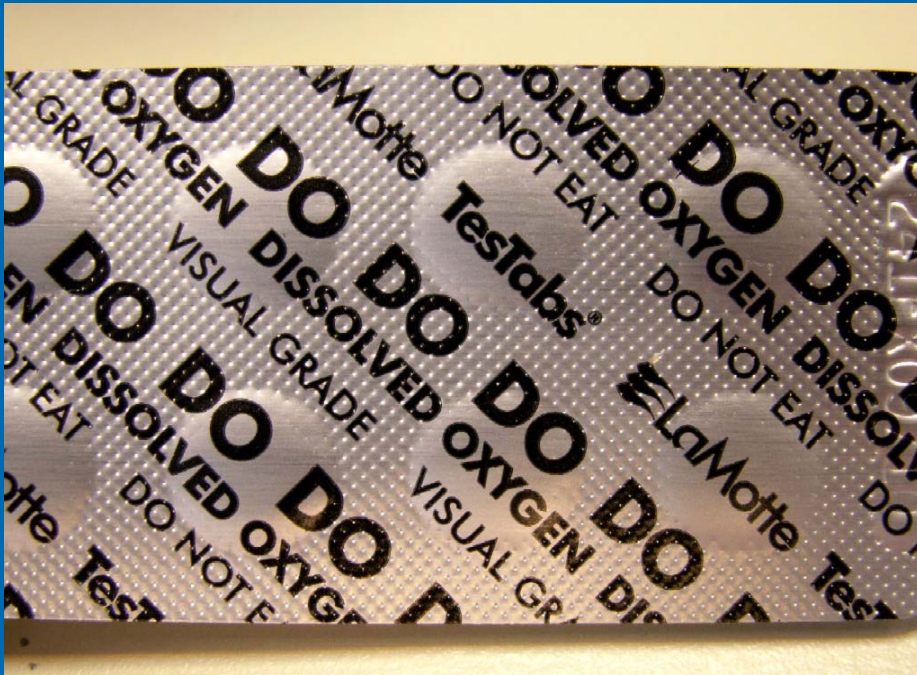
Turbidity (2)



Fill the container with the water sample to the “Fill Line” located on the outside kit label.

Compare the appearance of the Secchi disk icon in the container to the chart.

Dissolved Oxygen (1)

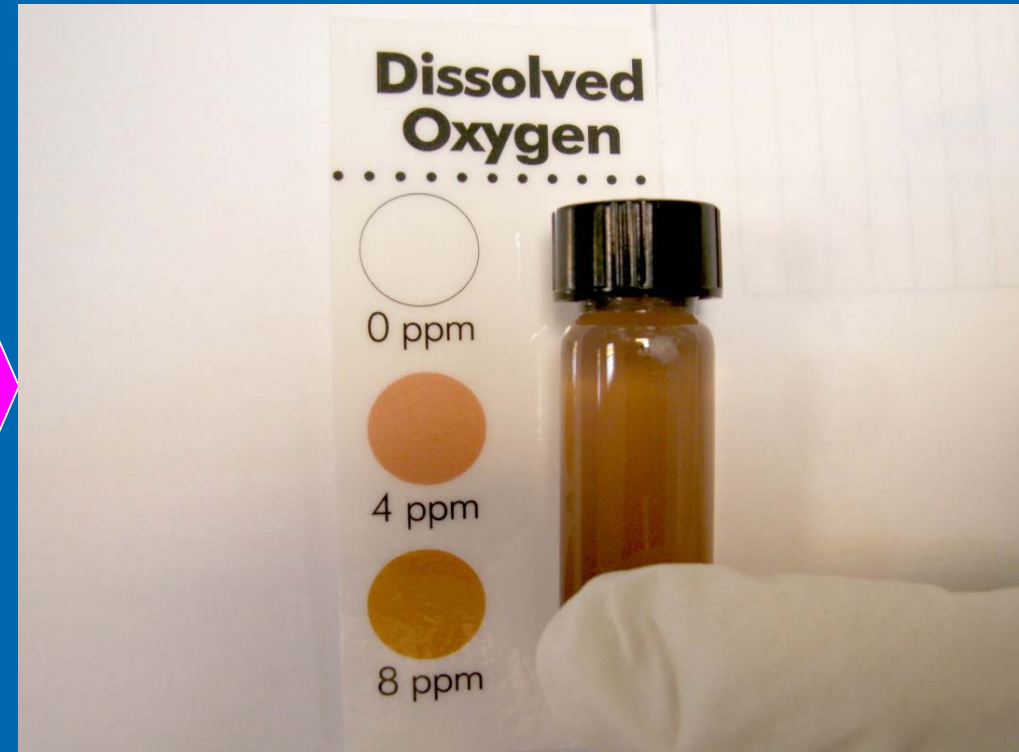
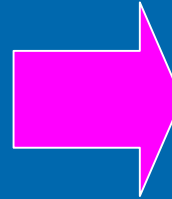


Dissolved
Oxygen
tablets



Submerge the small
tube into the water
sample.

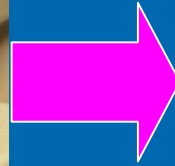
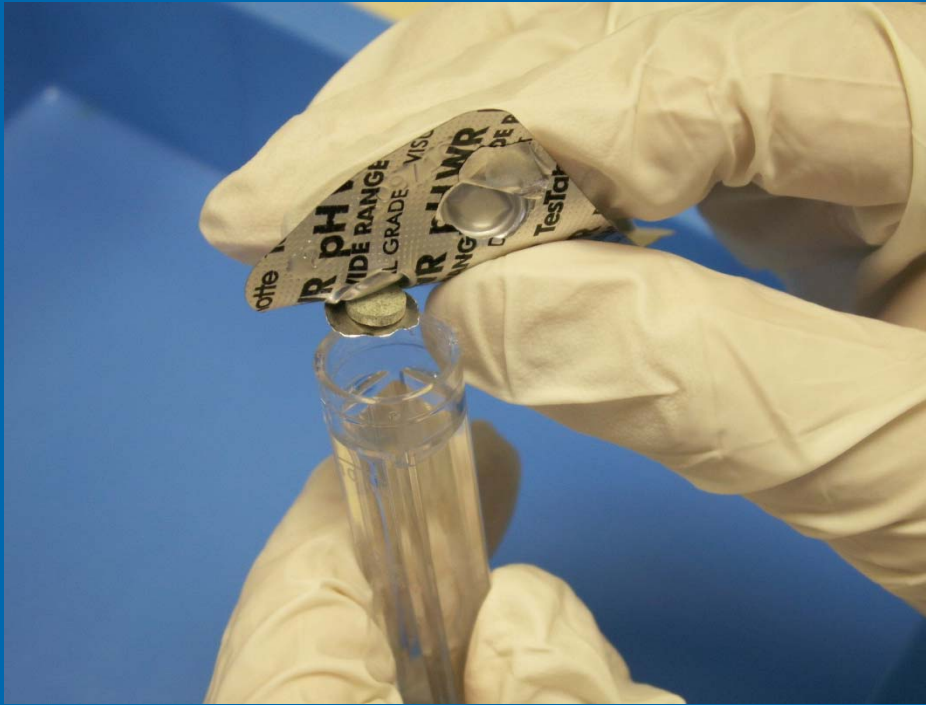
Dissolved Oxygen (3)



Mix by inverting the tube over and over until the tablets have disintegrated.

Wait 5 more minutes for the colour develop.
Compare the colour of the sample to the Dissolved Oxygen colour chart.

pH (2)



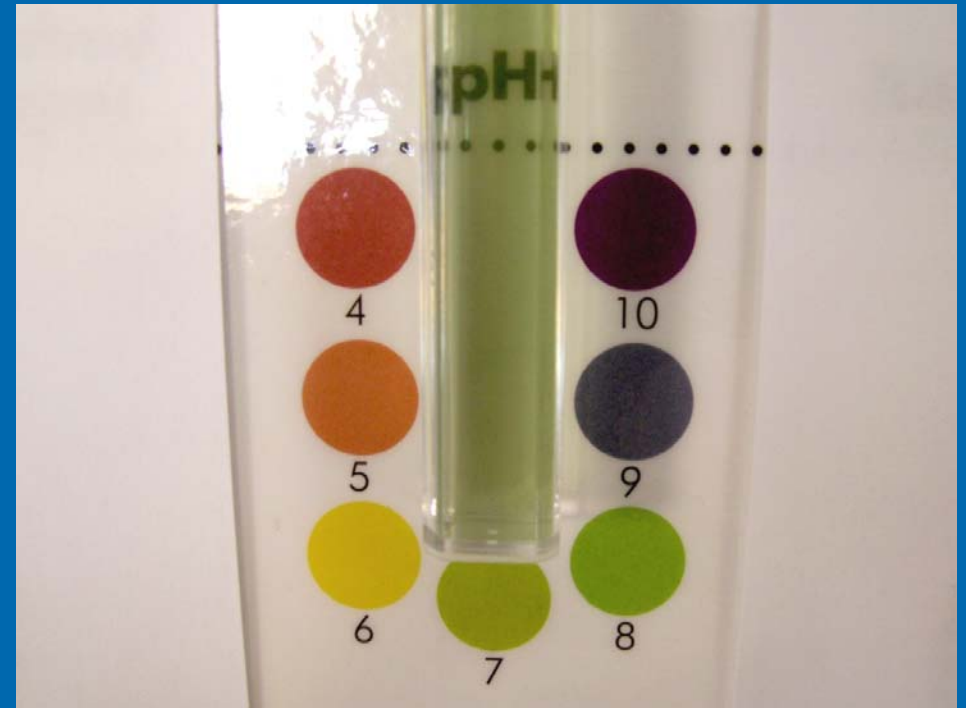
Add one pH tablet.

Cap the test tube.

pH (3)



Mix by inverting until the tablet has disintegrated.



Compare the colour of the sample to the pH colour chart.

After Testing



Dispose of used sample into waste water container.



Wash your hands immediately.

Q & A



Thank You !

<http://www.wsd.gov.hk/en/html/iwa/index.htm>

The background of the slide features several concentric, light blue circular ripples that resemble water droplets or raindrops, scattered across the lower half of the page.