TAKE CARE OF TEXAS: EDUCATOR MATERIALS

WORKSHEET

Testing Water: Physical Properties

Name:

Team Members:

Stream Name/Location:

Air Temperature:

Weather Conditions:

Temperature

Water Temperature: ____°F

Convert to Celsius using the following equation: (____°F – 32) × $\frac{5}{9}$ = ____°C

Potential factors affecting water temperature:

pH

pH: ____

The water is (circle): Acidic Neutral Basic (Alkaline)

Potential factors affecting pH:

Dissolved Oxygen

Dissolved Oxygen: _____ ppm (mg/L)

Potential factors affecting dissolved oxygen:

W-LP11 (5/25)

How is our customer service? www.tceq.texas.gov/customersurvey

Flow

Width (W): _____ meters (m)

Average depth (D): _____ meters (m)

Time the cork traveled two meters: _____ seconds (s)

Calculate velocity (V) by entering the time above into following equation:

$$\frac{2\ meters}{\_\_\_\ seconds} = \_\_\_\_\_\ \frac{m}{s}$$

Calculate flow ($\frac{m^3}{s}$) using the following equation:

$$W \times D \times V = \_\_\_\_\_\ m \times \_\_\_\_\_\ m \times \_\_\_\_\_\ \frac{m}{s} = \_\_\_\_\_\ \frac{m^3}{s}$$