DITL Chemical Data **Name**_____**Date**_____ **Location**_____

WATER TEMPERATURE **- Expected High Temperature in October would be ≤ 25ºC. Record both °C & °F**

°C = 0.556 X (°F - 32°)	°F = (1.8 X °C) + 32°

Time: _____ COLLECTED WATER IN BUCKET: YES / NO If NO, Approximate Water Depth: (ft):_____

Reading 1: _____ ºC _____ºF Reading 2: _____ ºC _____ºF Average: _____ ºC _____ ºF

Time: _____ COLLECTED WATER IN BUCKET: YES / NO If NO, Approximate Water Depth: (ft):_____

Reading 1: _____ ºC _____ºF Reading 2: _____ ºC _____ºF Average: _____ ºC _____ ºF

Time: _____ COLLECTED WATER IN BUCKET: YES / NO If NO, Approximate Water Depth: (ft):_____

Reading 1: _____ ºC _____ºF Reading 2: _____ ºC _____ºF Average: _____ ºC _____ ºF

SALINITY **- Expected Range: ~40 ppm in freshwater section up to 30,000 ppm (30 ppt) in harbor**.

BE SURE TO MARK THE EQUIPMENT YOU ARE USING FOR THE TEST (units are listed by equipment)**:**

Time: _____ Reading 1: _____ Reading 2: _____ Reading 3: _____ (UNITS!)

Time: _____ Reading 1: _____ Reading 2: _____ Reading 3: _____ (UNITS!)

Time: _____ Reading 1: _____ Reading 2: _____ Reading 3: _____ (UNITS!)

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pH (POTENTIAL HYDROGEN) **- Expected Range: Most fish prefer 6.5-8.5 (NO UNITS for pH)**.

BE SURE TO MARK THE EQUIPMENT YOU ARE USING FOR THE TEST:

Test Strips_____	Color Match Test Kit_____	Meter_____	pH Pen_____

Time: _____ Reading 1: _____ Reading 2: _____ Reading 3: _____

Time: _____ Reading 1: _____ Reading 2: _____ Reading 3: _____

Time: _____ Reading 1: _____ Reading 2: _____ Reading 3: _____

ALKALINITY- **Expected Range: 80-100 mg/L.** A measure of the water's buffering capacity **(Units: mg/L)**

Method:_____ Time: _____ Reading 1:_____ Reading 2:_____ Reading 3:_____

DITL Chemical Data **Name**_____**Date**_____ **Location**_____

NITRATE- Expected Range: <1 mg/L. A nutrient used by plants & animals for growth **(Units: mg/L)**

Method:_____ Time: _____ Reading 1:_____ Reading 2:_____ Reading 3:_____

PHOSPHATE- Expected Range: <1 mg/L. Plant nutrient that occurs in rocks, soil, & animal waste **(Units: mg/L)**

Method:_____ Time: _____ Reading 1:_____ Reading 2:_____ Reading 3:_____

DISSOLVED OXYGEN (D.O.) - Healthy Expected Range: 5.0-11.0 mg/L. (Units: mg/L = PPM)

BE SURE TO MARK THE EQUIPMENT YOU ARE USING FOR THE TEST

Meter/Probe	Drop Count Kit	Other

Time: _____ Water temperature in **°**C: _____ DO (mg/L or PPM): _____ % saturation: _____

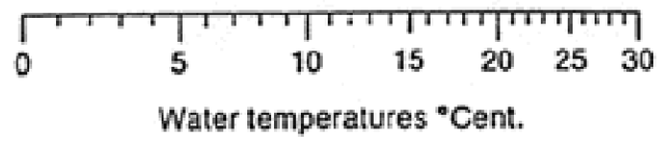
Time: _____ Water temperature in **°**C: _____ DO (mg/L or PPM): _____ % saturation: _____

Time: _____ Water temperature in **°**C: _____ DO (mg/L or PPM): _____ % saturation: _____

% SATURATION OF DISSOLVED OXYGEN (D.O.) - Healthy Expected Range 90% or above

1. Locate your DO reading on the bottom scale (ppm = mg/L), and the water temperature (°C) on the top scale.
2. Draw a straight line between the temperature and DO.
3. The % saturation is the value where the line intercepts the saturation scale.

DITL Chemical Data **Name**_____**Date**_____ **Location**_____



Water temperatures °Cent.

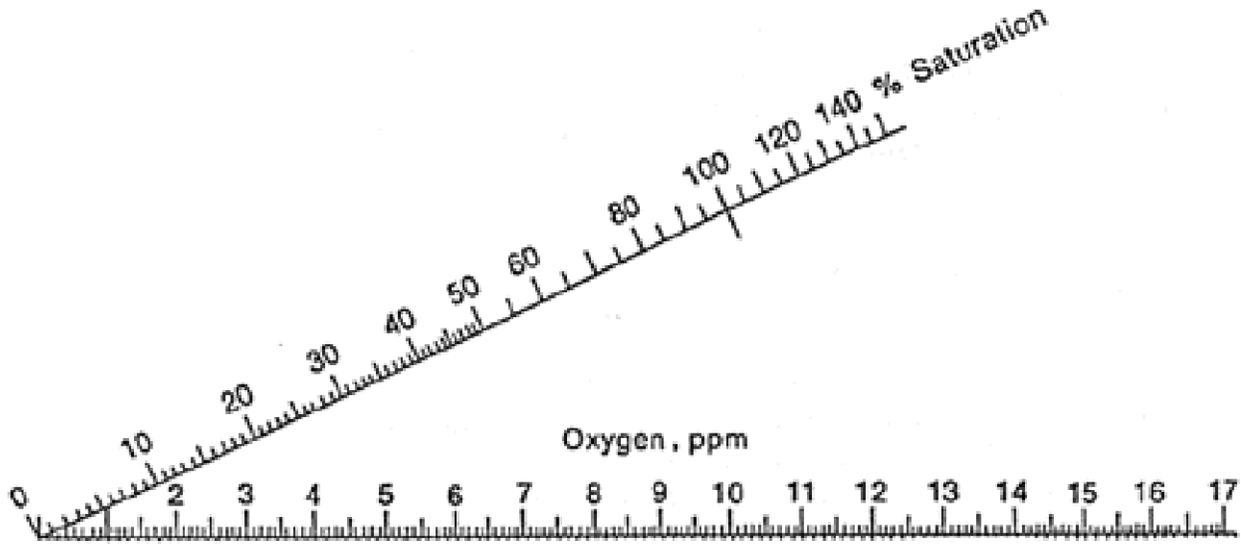


Chart Source: http://watertheweb.org/under/waterquality/oxygen.html