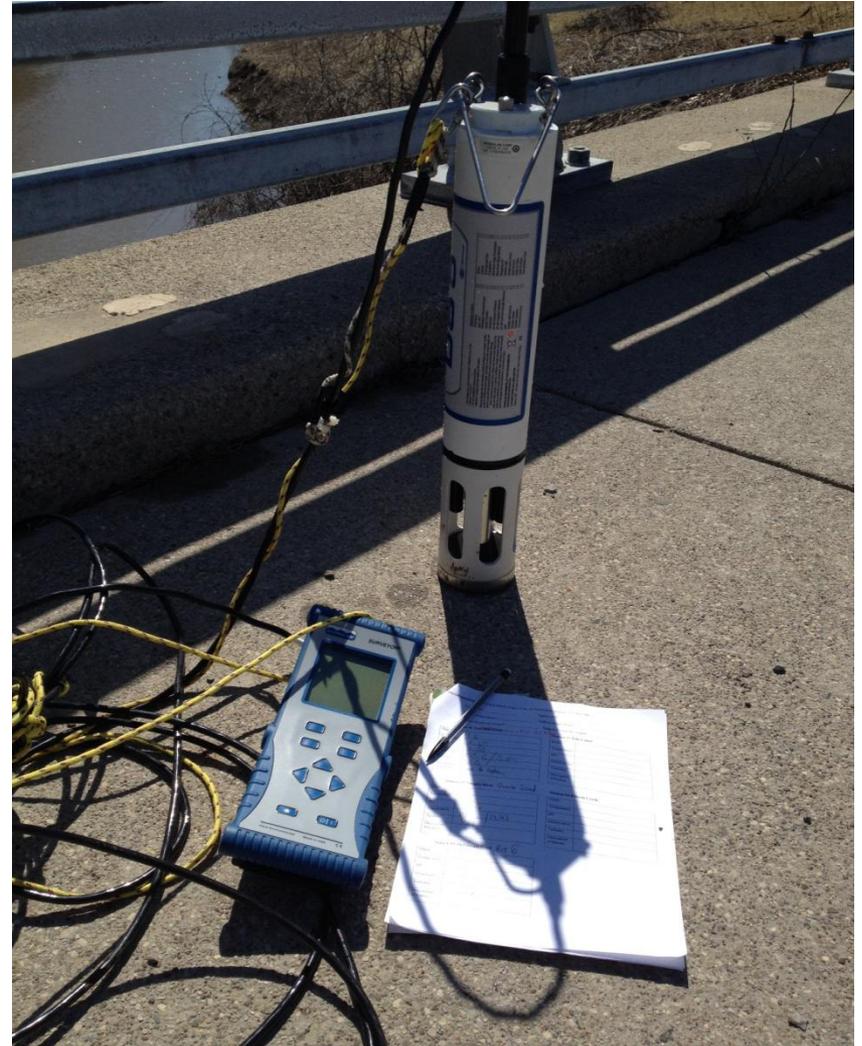
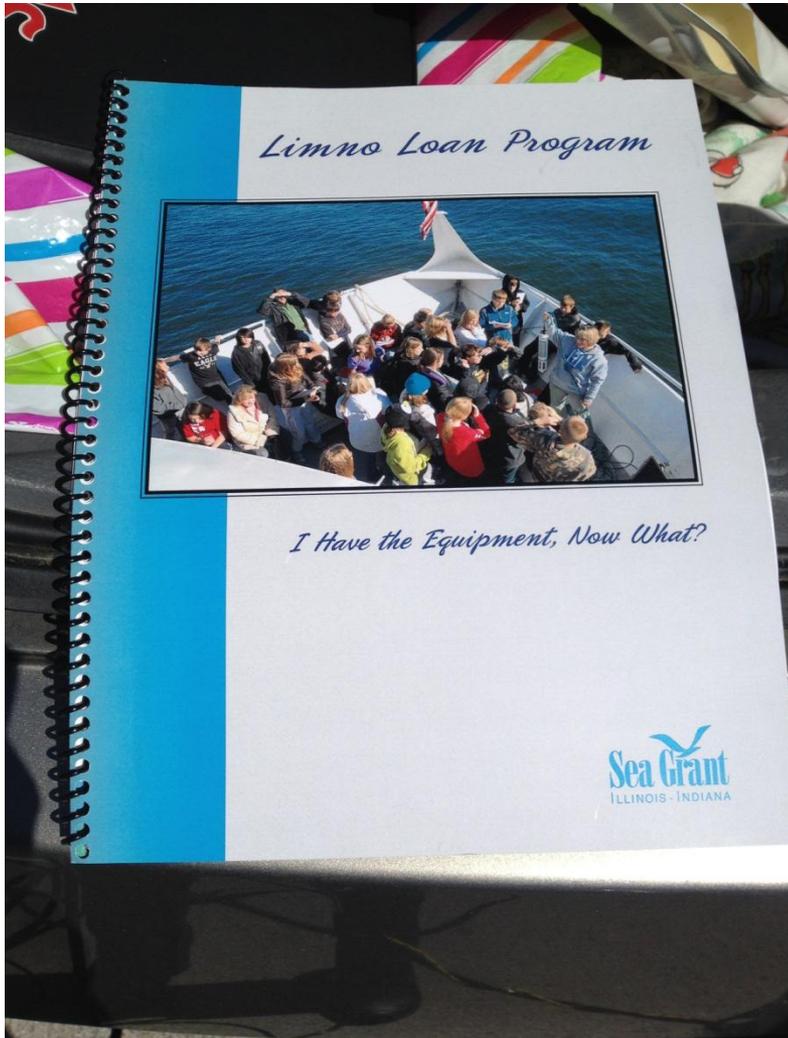


Hydro Lab

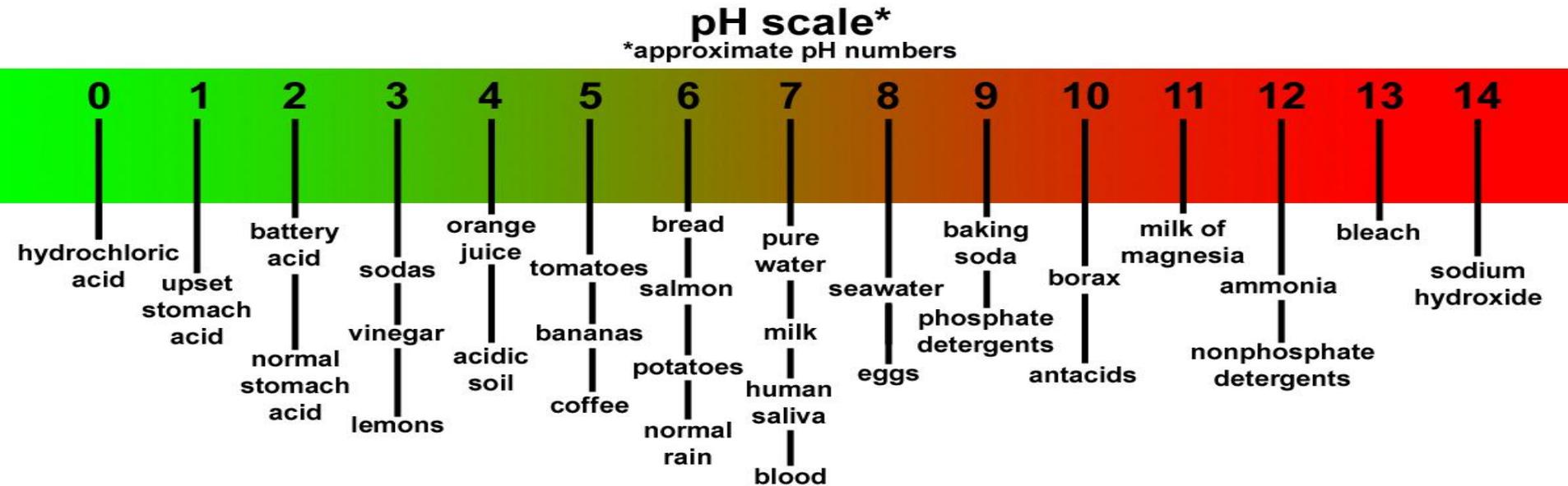


Data Collection



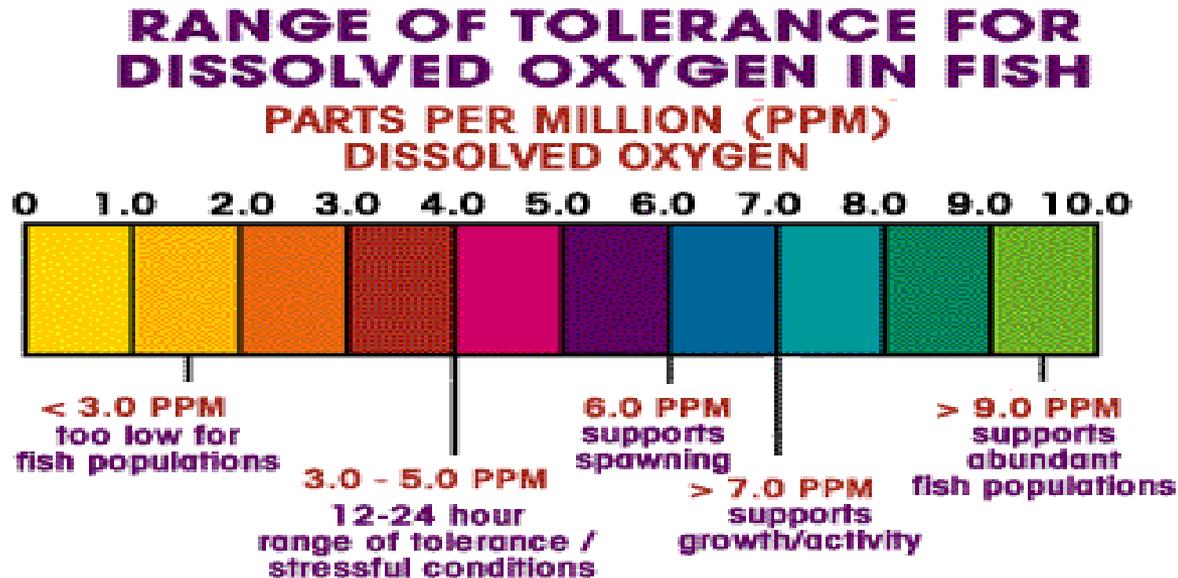
Ph Scale

The pH scale measures how acidic or basic a substance is. The pH scale ranges from 0 to 14. A pH of 7 is neutral. A pH less than 7 is acidic. A pH greater than 7 is basic.



Dissolved Oxygen

The measure of how much oxygen is dissolved in water. Although water molecules contain an oxygen atom, this oxygen is not what is needed by aquatic organisms living in natural waters. Rapidly moving water tends to contain a lot of dissolved oxygen, whereas stagnant water contains less.



Turbidity



Turbidity is the relative clarity of a liquid.

The higher the intensity of scattered light, the higher the turbidity. During a rainstorm, particles from the surrounding land are washed into the river making the water a muddy brown color, indicating water that has higher turbidity values.

Also, during high flows, water velocities are faster and water volumes are higher, which can more easily stir up and suspend material from the stream bed, causing higher turbidities.

2 Mile Creek



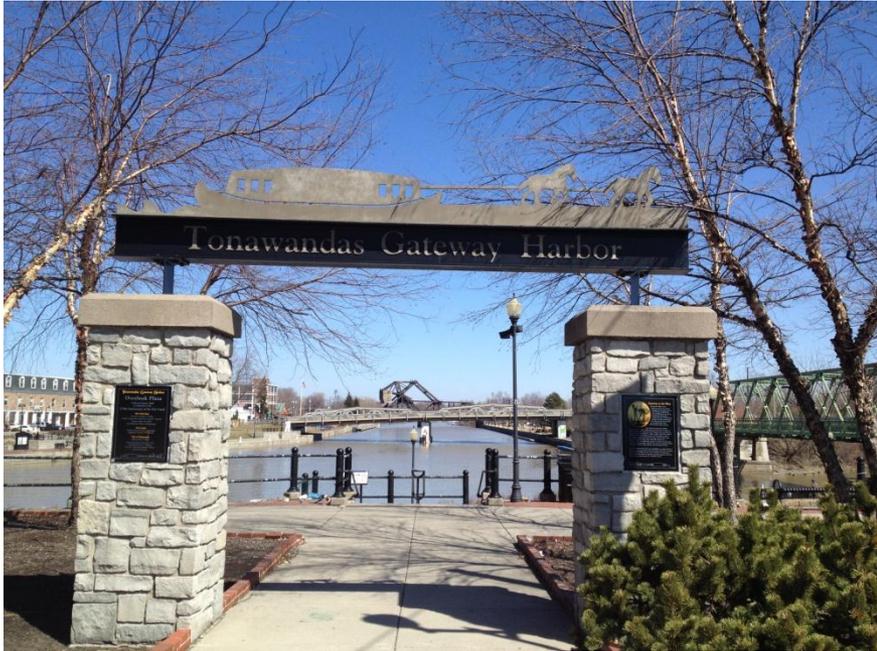
Niagara River Isle View Park



Elliott Creek



Erie Canal



Niagara River South Grand Island Bridge



Beaver Island Marina



Big 6



Spicer Creek



Station #1 Two Mile Creek

Depth	0.1
Temperature	3.35
pH	7.85
Dissolved O ₂	137.8/18.20
Turbidity	6.9

Station #2 Niagara River

Depth	0.4
Temperature	0.48
pH	7.93
Dissolved O ₂	101.7/14.67
Turbidity	0

Station #3 Erie Canal

Depth	0.6
Temperature	0.81
pH	8.98
Dissolved O ₂	96.4/13.72
Turbidity	14.7

Station #4 Ellicott Creek

Depth	1.0
Temperature	1.44
pH	7.50
Dissolved O ₂	110.8/15.58
Turbidity	16.1

GI Station #1 Niagara River (South GI Bridge)

Depth	1.6 m
Temperature	0.67
pH	0 (obviously incorrect data)
Dissolved O ₂	105.0/15.04
Turbidity	0.0

GI Station #2 Beaver Island Marina

Depth	1.1
Temperature	1.30
pH	8.76
Dissolved O ₂	102.5/14.42
Turbidity	0.7

GI Station #3 Big 6

Depth	1.4
Temperature	3.76
pH	5.73
Dissolved O ₂	88.8/11.67
Turbidity	121.4

GI Station #4 Spicer Creek

Depth	0.2
Temperature	7.40
pH	7.63
Dissolved O ₂	107.5/12.56
Turbidity	59.4