Friends of the Chicago River

ADOPT A RIVER SCHOOL

WATER CHEMISTRY DATA SHEET

School Name:_____

Site Location:_____

Date:_____ Time:_____

Test	Expected Range	Equipment	Test Value	Q Value	Weighting Factor	Sub-Total
pH	6 - 8.5				0.11	
Phosphate (ppm or mg/l)	0.1 - 2.5 ppm				0.10	
Nitrate (ppm or mg/l)	0.2 - 8.0 ppm				0.10	
Dissolved Oxygen (ppm or mg/l) (% saturation)	1 - 12 ppm		Temperature: Concentration: % Saturation:		0.17	
Biological Oxygen Demand (ppm or mg/l)	0.05 - 19 ppm				0.11	
Change in Temperature (°C)	$\Delta < 3$ °C		Site 1: Site 2: Δ :		0.10	
Turbidity (cm)	1 - 140 cm				0.08	
Total Dissolved Solids (mg/l)	200 - 2800 mg/l				0.07	
Fecal Coliform (E.coli)	50 - 100,000 colonies/100ml				0.16	

Q Value x Weighing Factor = Sub-Total

$\sum$ Sub-Totals ÷ $\sum$ Weighing Factors x 100 = Water Quality Score

Totals: | | |

Water Quality Index (WQI)	
Excellent	90-100
Good	70-89
Medium	50-69
Bad	25-49
Very Bad	0-24

Water Quality Score:

Water Quality Index (WQI):

WQI is more accurate when more tests are performed.