

Water quality is always about
some use of the water.

We need to specify the use of
the water to avoid confusion.



Juan Lake: 45/50 for trout
water quality

Sandy Stream: 43/50 for trout
water quality

Juan = better for trout!

Which has more dissolved oxygen?
You don't know!

pH — no calibration
— use multiple sensors

turb — calibrate to 0^{openable bottle} and 100^{sealed bottle} NTU
- test sample in openable bottle
- make sure bottles are clean

DO — fill cap with electrode soln
- calibrate to 0 mg/L (brown bottle)
and 8.6 mg/L (hoyer bottle)
- test sample



Swimming WQI

most
important

pH

2nd most

temp

3rd most

turb

NOT
important DO

Ideal (good)	OK	Poor
5.5-7.5 : 40	4.5-5.5 : 20 7.5-8 : 20	<4.5 : 0 >8 : 0
60-80°F : 25	40-60°F : 10 80-90°F : 10	<40°F : 0 >90°F : 0
0-100 NTU : 10	100-500 NTU : 5	>500 NTU : 0

75 (most)

0 (worst)