

In-situ Sampling Tips

Presented By:

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Letting the probes acclimate

- ▶ Acclimation is a two step process
 - ▶ Let probes sit in water collected in 1 L wide-mouth white plastic bottle for at least 10 minutes.
 - ▶ Transfer to freshly collected water in red thermos bottle. Don't let this water sit too long! Five minutes should be enough time for the probes to stabilize. Check for drift!
- ▶ Check temperatures
 - ▶ Drift - your last two readings should differ by no more than 0.1 degrees Celsius
 - ▶ Agreement between probes - the final temperatures from the dissolved oxygen, conductivity, and pH probes should differ by no more than 0.5 degrees Celsius.

In/Out

- ▶ Circling In or out refers to drift
- ▶ For an “In” example, view the DO% measurements to the right
- ▶ For an “Out” example, view the Temp measurements to the right
- ▶ In/Out not referring to whether the measurements are within normal range based on your percentile tables

Dissolved Oxygen Time Measured:

Sample Readings: *Watch for drift in last two readings*

Rep	DO% (drift $\leq 5\%$)	DO (mg/L) (drift ≤ 0.20)	Temp ($^{\circ}\text{C}$) (drift ≤ 0.1)
1	75.5		15.5
2	75.4		15.2
3	75.6		14.8
4			
(5)			
Drift	IN / OUT	IN / OUT	IN / OUT

Keep calling us when you encounter unusual results !



- ▶ Based on percentile tables
 - ▶ In Master sampler book
 - ▶ On side of kit
- ▶ Updated annually
- ▶ Write down observations on the Comments section
- ▶ We call these unusual results in to the stormwater mangers

Keep recording your observations!

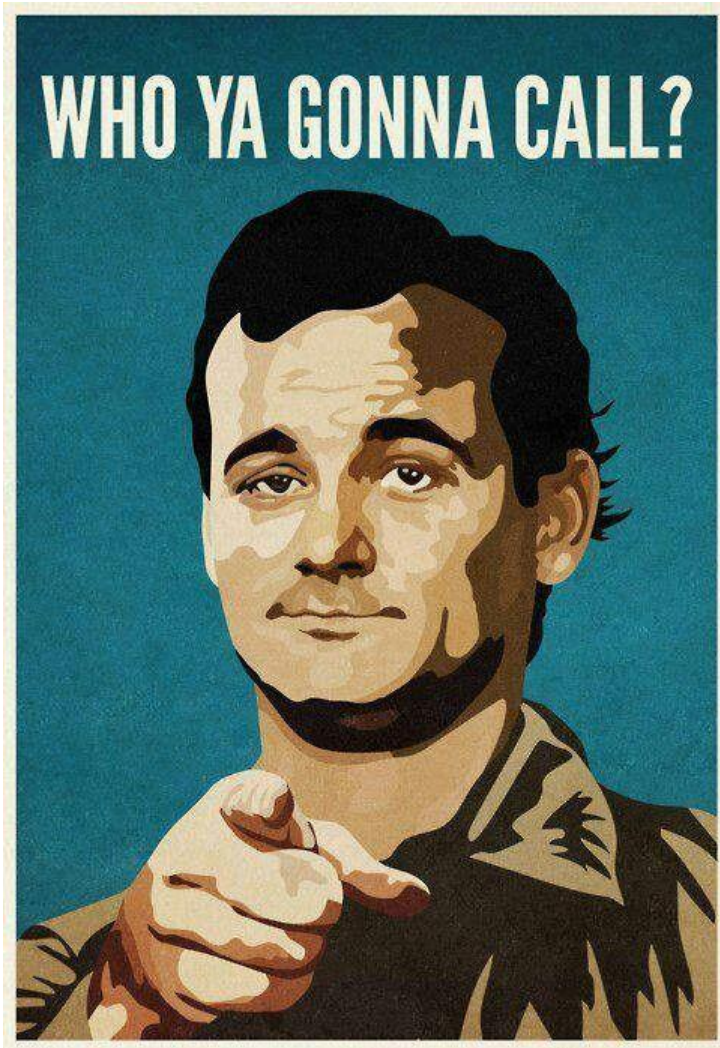


- ▶ Keep using the comment section!
- ▶ Fill out your environmental observation section as much as you can!
- ▶ We review both of these sections closely when reviewing your data!

Field Measurement Operations Sheet

- ▶ With suggestions from some of our volunteers, I have created a short instruction sheet for using the Orion Meter
- ▶ Easy to use in the field instead of reading multiple SOPs.
- ▶ Suggestions for other cheat sheets???

Do not hesitate to call!



- ▶ Feel free to contact Kelly or myself regarding any needs or questions!
- ▶ If we don't know the answer off hand we will get you one!
- ▶ Lastly and most importantly, **Thank you for all that you do!!!!**