

Doan Brook Watershed Partnership Water Monitoring Instructions

Please follow ALL instructions and call the number below if you have questions.

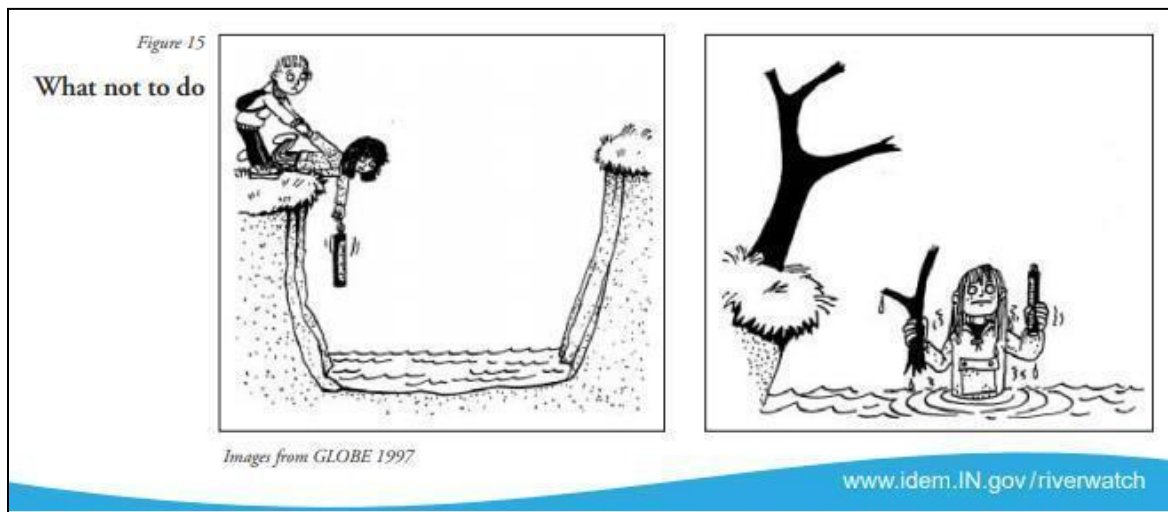
(216) 440-1114

APPROACHING THE BROOK

- Safety is the primary concern. Never sample if it cannot be done safely. Sample with a friend if possible.
- On cold or rainy days refer to INCLEMENT WEATHER instructions you received in training. Do not attempt to break through ice to collect water!

COLLECTING A SAMPLE FROM THE BROOK

- Obtain the Sample Bottle from the supply box.
- Rinse the bottle three times in the stream before taking a sample.
- Collect and fill the bottle with water from a free-flowing area of the brook.
- Cap the sample bottle and place it aside for testing.



WATER TEMPERATURE, ATMOSPHERIC PRESSURE, DISSOLVED OXYGEN, CONDUCTIVITY, TOTAL DISSOLVED SOLIDS, SALINITY, AND pH

Equipment Needed: YSI ProQuatro Multiparameter Meter with Pro Series Quatro Field Cable (pictured at right)

1. Push and hold the lower green button to turn the meter on.
2. Place the probe on the brook bottom. If there is a riffle, place it downstream of the riffle. (If the cord is not long enough, immerse the probe into the collected sample.)
3. Wait at least 5 minutes for the sensor to stabilize.
4. Read and record the temperature in °C.
5. Read and record the atmospheric pressure in mmHg. Convert this value to hPa. $mmHg \times 1.33322 = hPa$
6. Read and record the dissolved oxygen saturation value in %.



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7. Read and record the dissolved oxygen value in mg/L.
8. Read and record the conductivity value in μs .
9. Read and record the total dissolved solids value in mg/L. Convert this value to ppt. $\text{mg/L} \times 2.45 = \text{ppt}$
10. Read and record the salinity value in ppt.
11. REad and record the pH value.
12. Turn off the meter.

FINAL NOTES

- Dispose of all trash. Place the completed data sheet back in the kit. Turn off the meter.
- Remember to rinse the probe with distilled water before storing.
- Place all equipment and materials into the plastic container; you should have the following:
 - Clipboard with the instruction sheet you're currently reading.
 - Pen
 - Plastic gloves
 - Sample bottle
 - Squeeze bottle filled with distilled water
 - YSI ProQuatro Multiparameter Meter with Pro Series Quatro Field Cable
 - Lint free wipes
 - Trash sandwich container

PLEASE NOTE AFTER SAMPLING

- The preferred data entry method is to enter all data into www.waterreporter.org. See Water Reporter handout you received in volunteer training.
- If you cannot enter data into Water Reporter, send photos of both sides of your datasheet to smith@doanbrookpartnership.org
- If you are unable to do either data entry method above please leave the completed sheet in the kit and email or call us at 216-440-1114. Include the date and station of each sample in your email.

Thank you for all that you do to protect Doan Brook and its watershed!