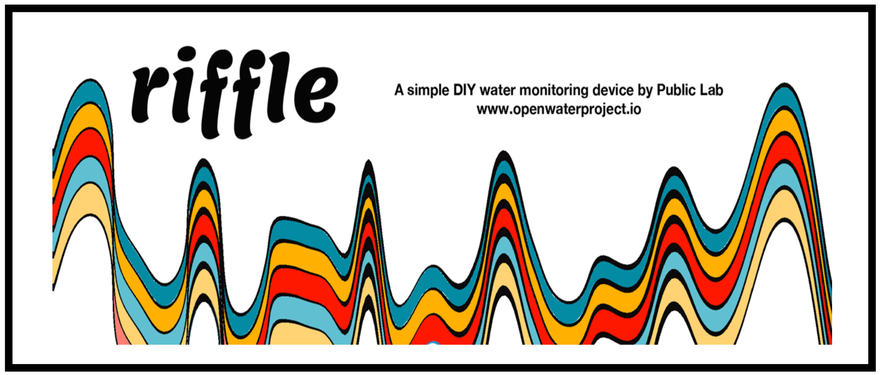
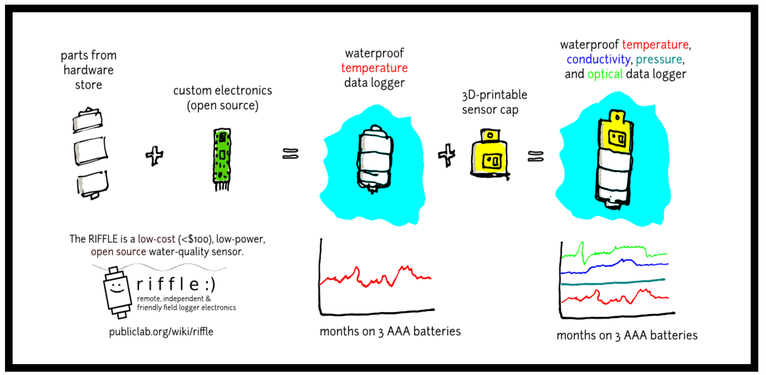
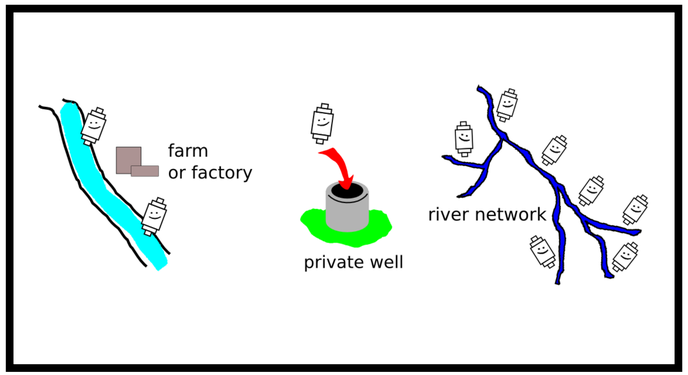
AN OPEN SOURCE WATER QUALITY MONITOR



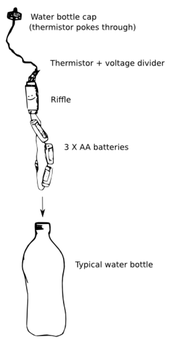
THAT USES ACCESSIBLE TECHNOLOGY

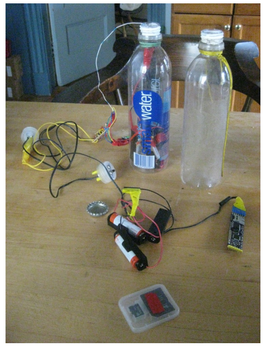


TO IDENTIFY POLLUTION PATTERNS

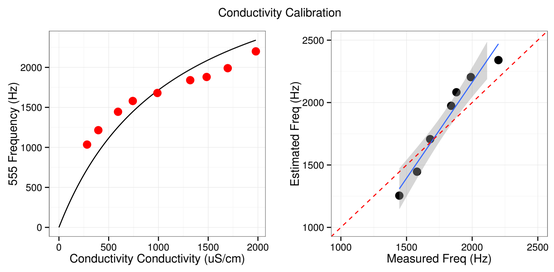


MEASURES TEMPERATURE, CONDUCTIVITY & LIGHT ■ COSTS ~ $100 USD ■ FUTURE FEATURES: TURBIDITY, DEPTH, RADIO

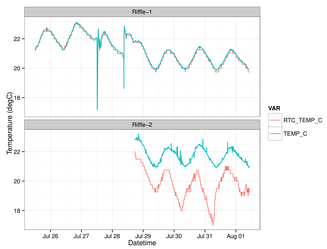




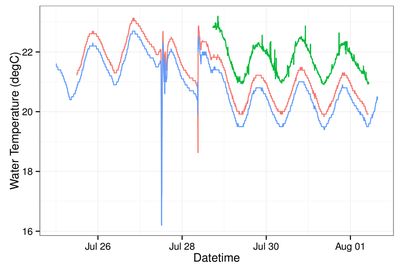
1ST TRIAL: JULY 28 - AUG 1 ■ USGS 01104455 STONY BROOK NEAR WALTHAM, MA:



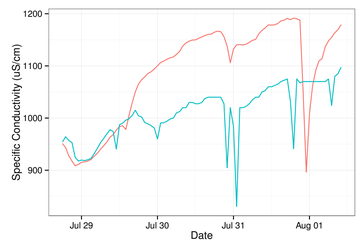
The conductivity sensor is calibrated at home using homemade solutions of table salt and water



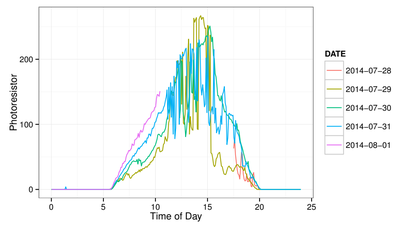
Redundant on-board temp sensors can detect mis-calibration



Temperature probes track USGS data



Conductivity measurement shows promise (needs further work)



Light sensor tracks diurnal cycle

Please join our community and help us to develop tools like these.

Our goal is to create a sustainable, grassroots water quality monitoring network. Out growing team includes:

- Mark Green, Hydrology, Plymouth State
- Kathryn Booras, Cambridge Water Dept
- Catherine D'Ignazio, Journalism, Emerson College
- Lily Bui, Comparative Media Studies/Writing, MIT
- Patrick Herron, Mystic River Watershed Association
- Jeff Walker, Postdoctoral researcher, UMass Amherst and USGS
- Mary Martin, Forest Ecosystem Analysis, UNH

The Open Water Project is an initiative of Public Lab, a non-profit community that applies an open source, DIY ethos to grassroots environmental investigation.

publiclab.org

http://openwaterproject.io