

Preventing Flooding Through Data Visualization

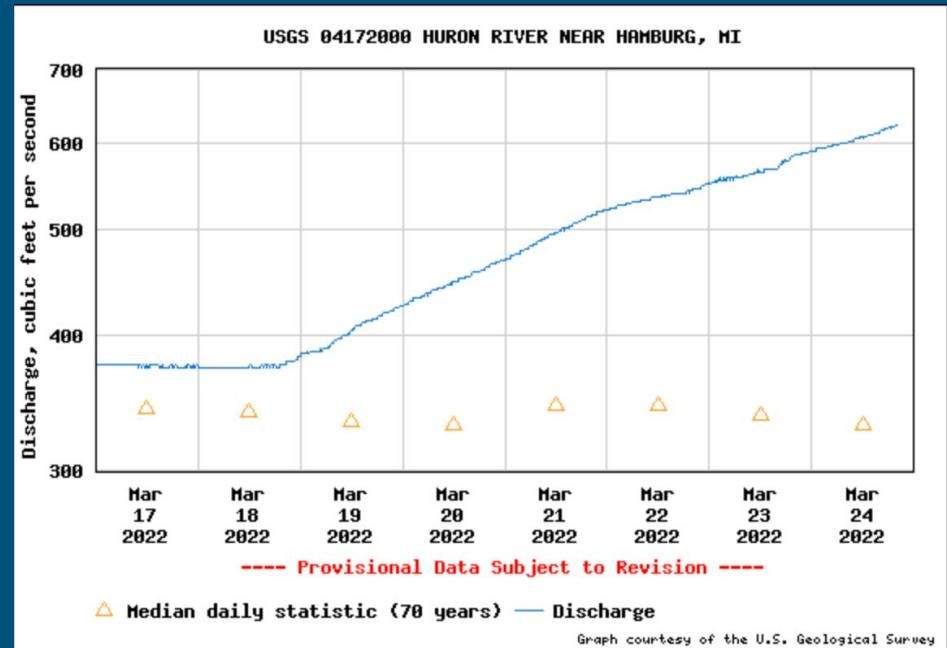
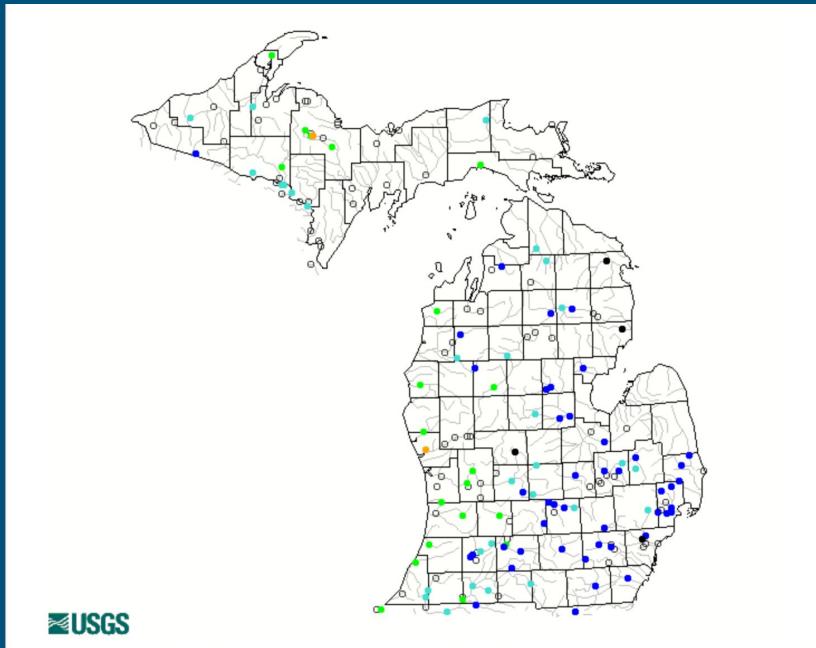
Digital Water Lab
at the University of Michigan - Ann Arbor



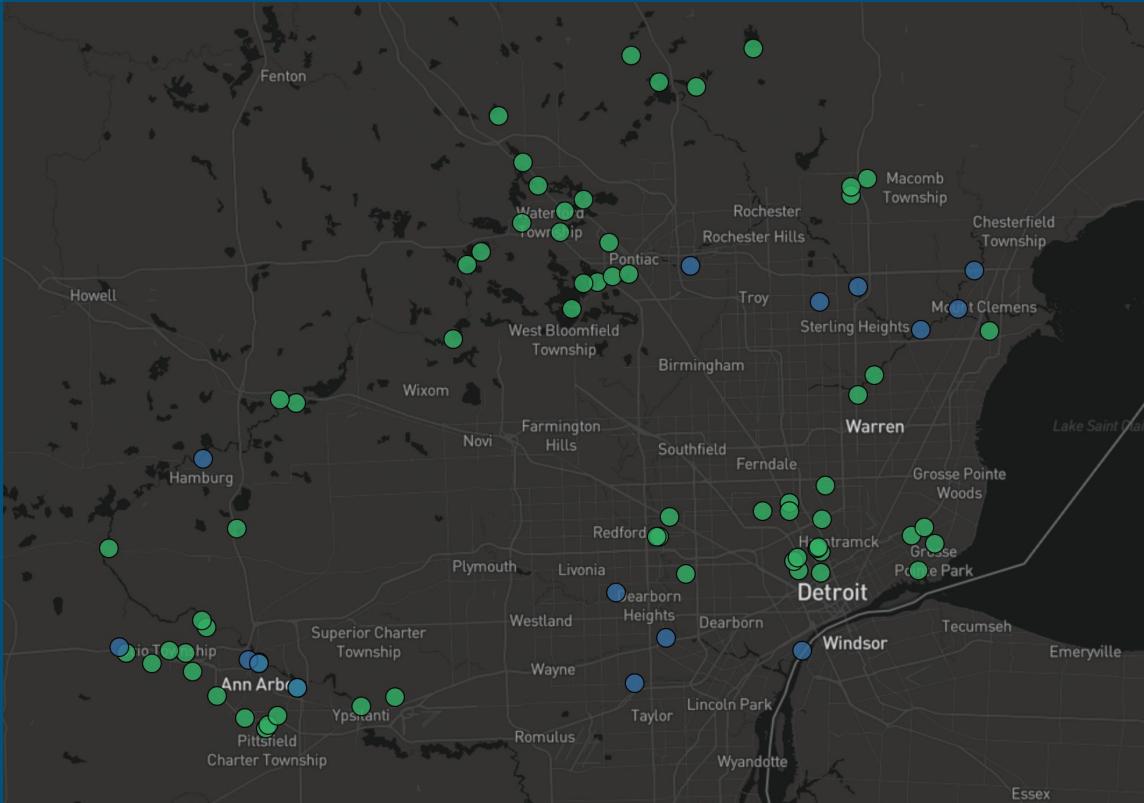
Flooding



USGS Gauges



Current Water Gauges



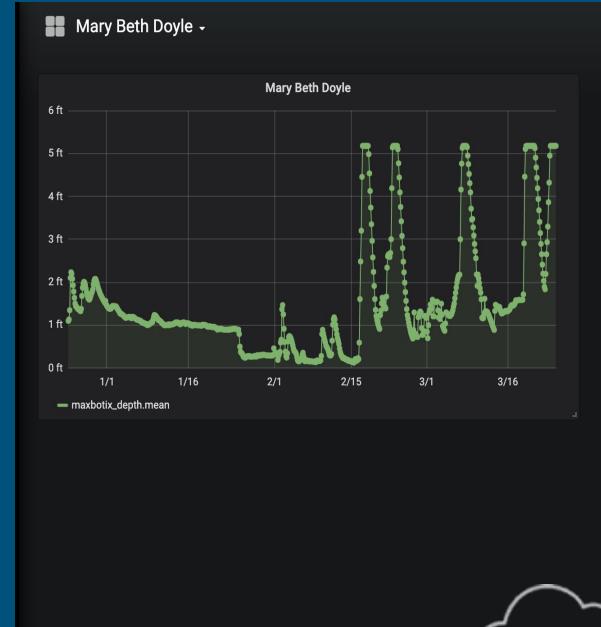
Deploy

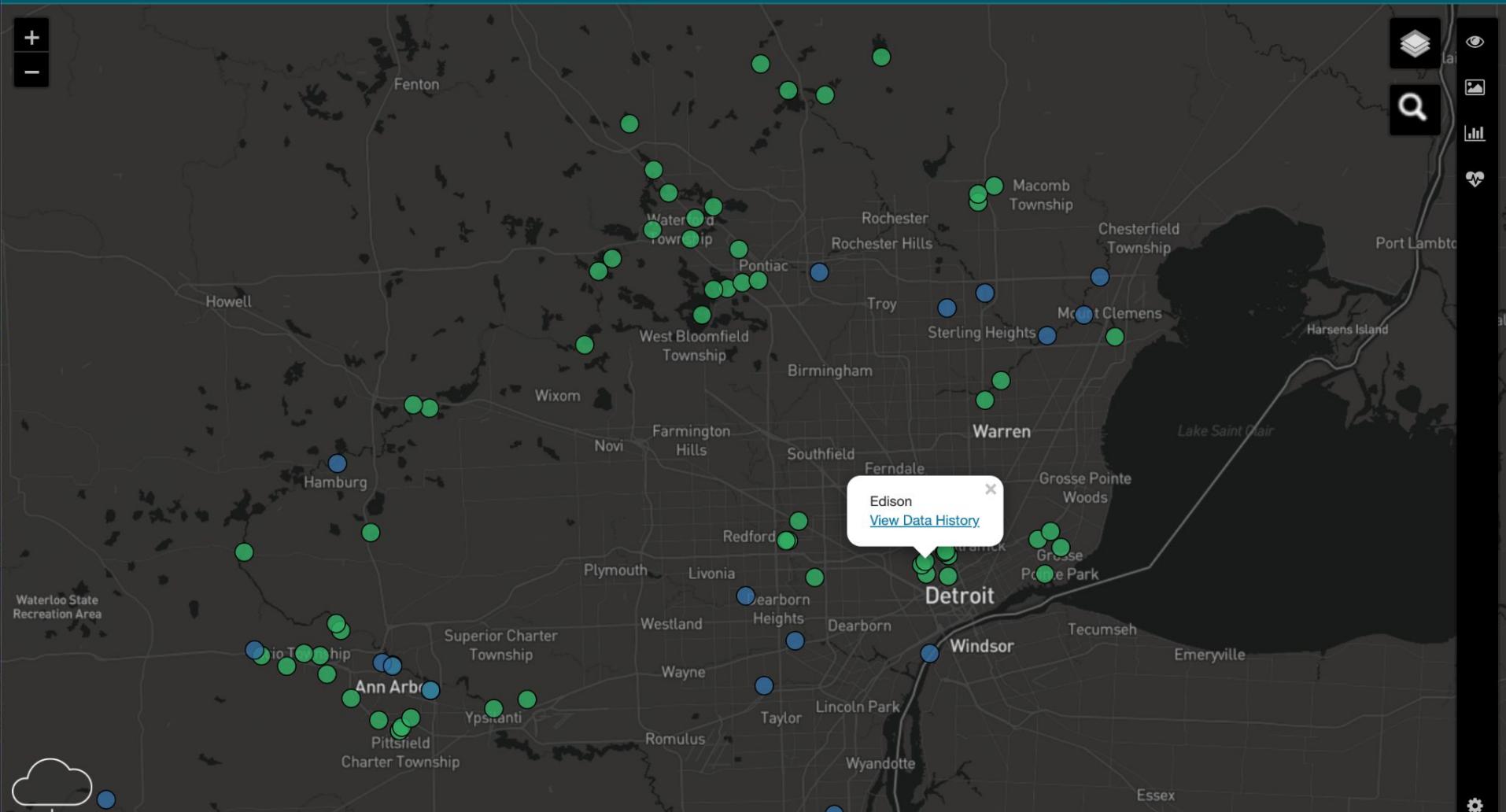


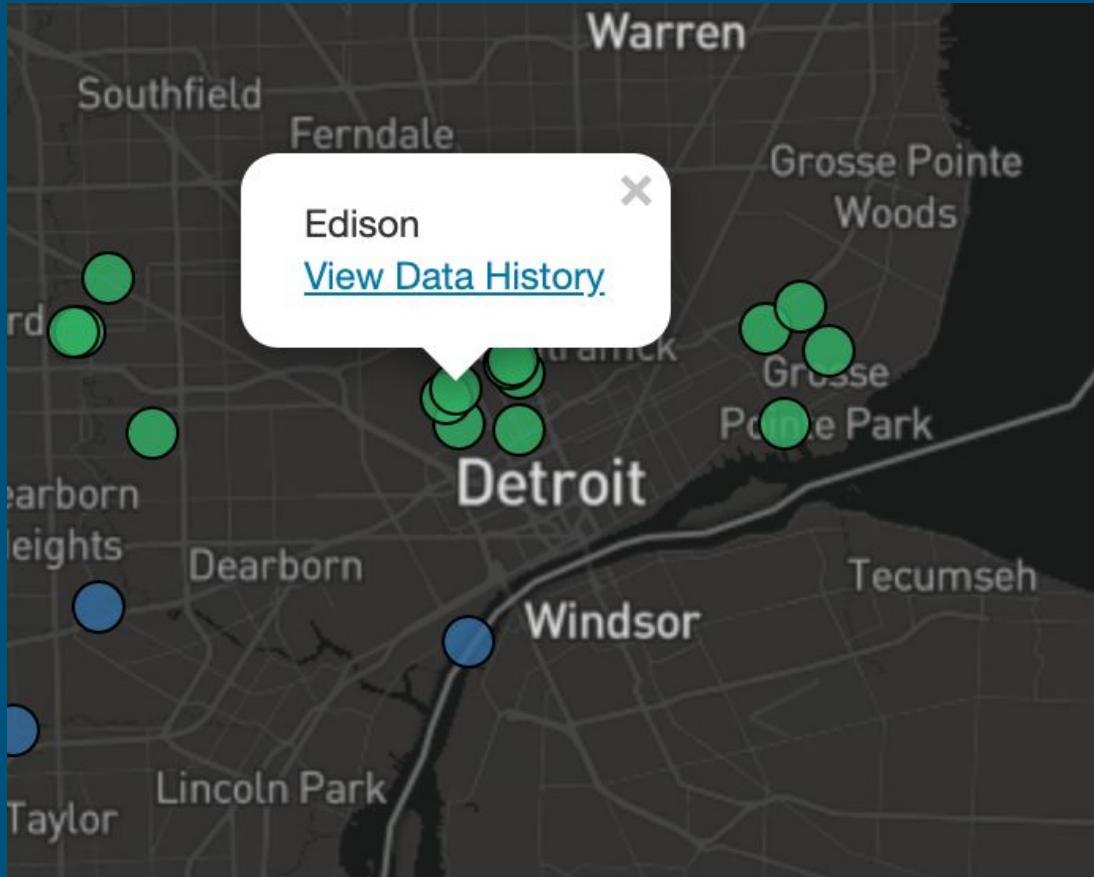
Maintain



Display Data









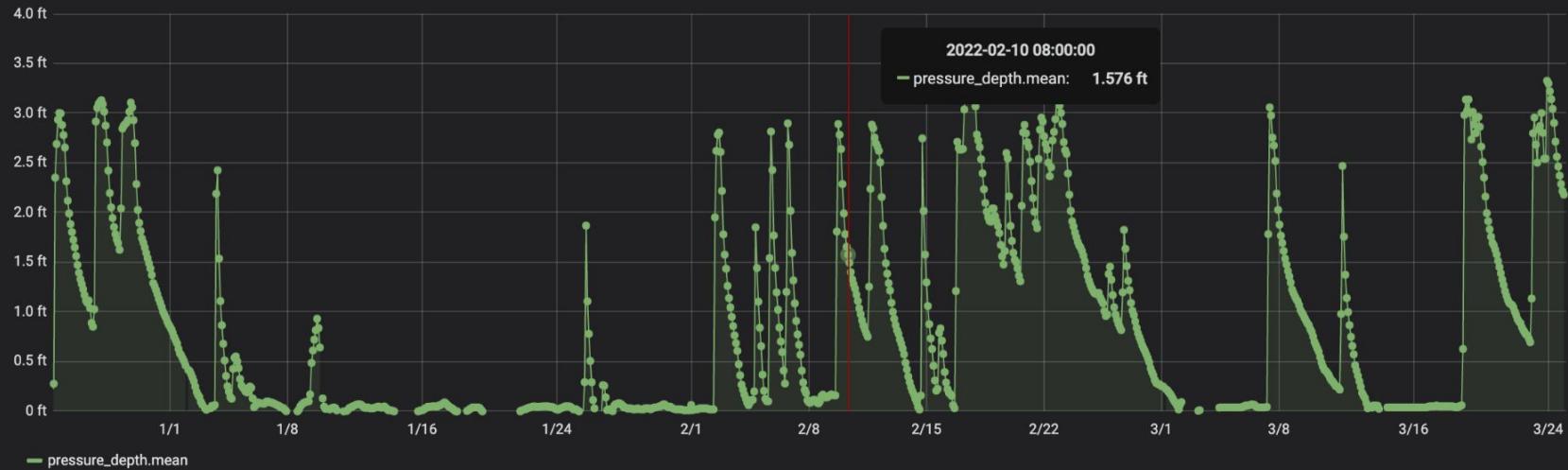
Edison ▾



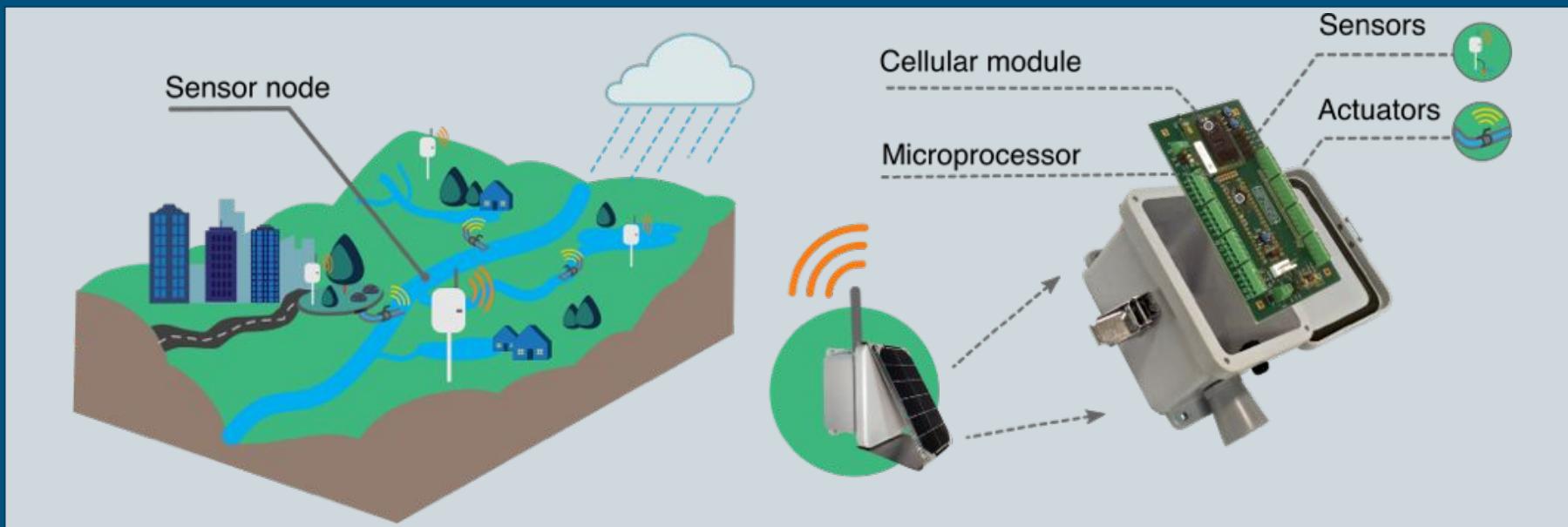
Last 90 days UTC



Pressure Depth for Edison ▾



Open Source, Open-Storm.org



Open Source, Open-Storm.org



Measure



Depth



Rain



Soil Moisture



Water Quality



Control



Valves



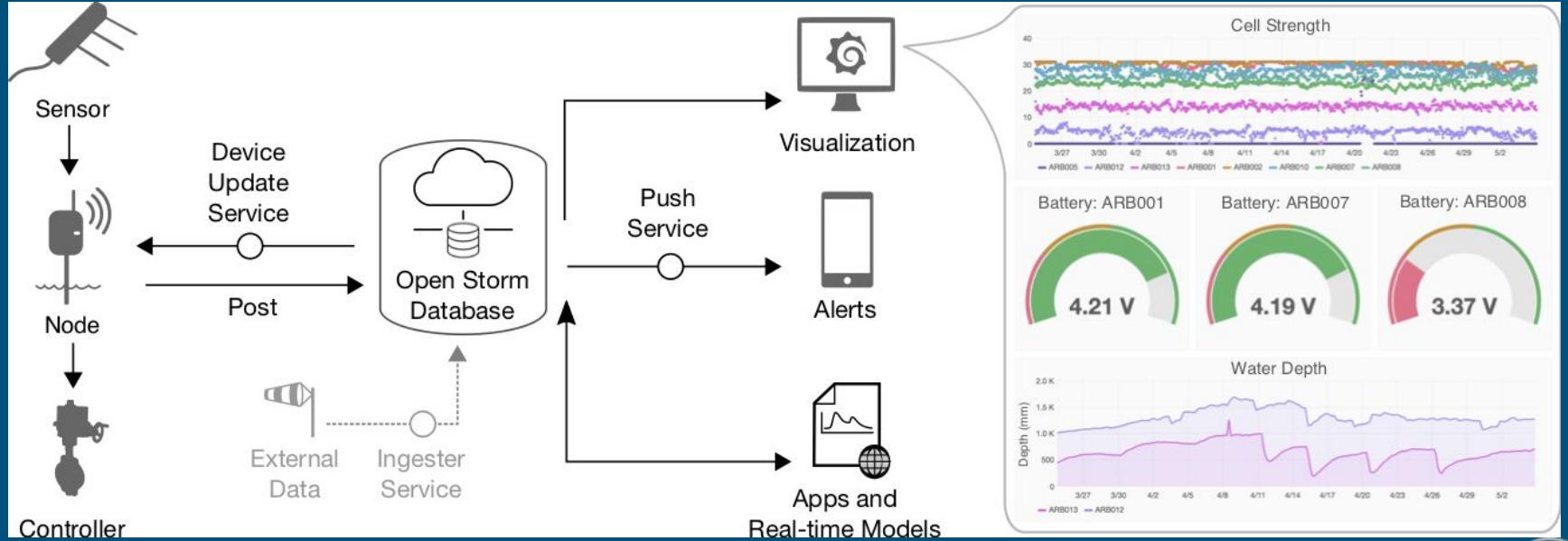
Automated Samplers

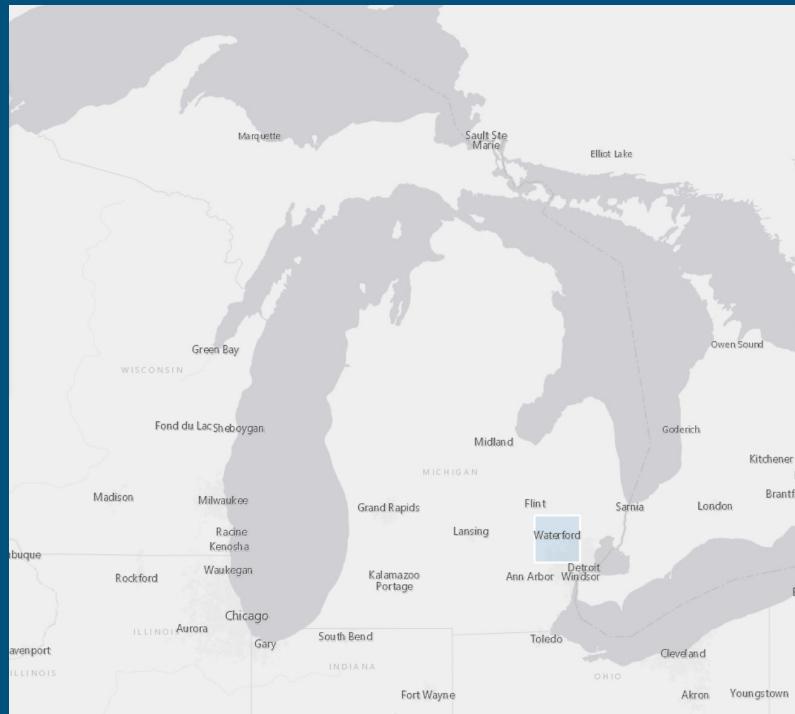
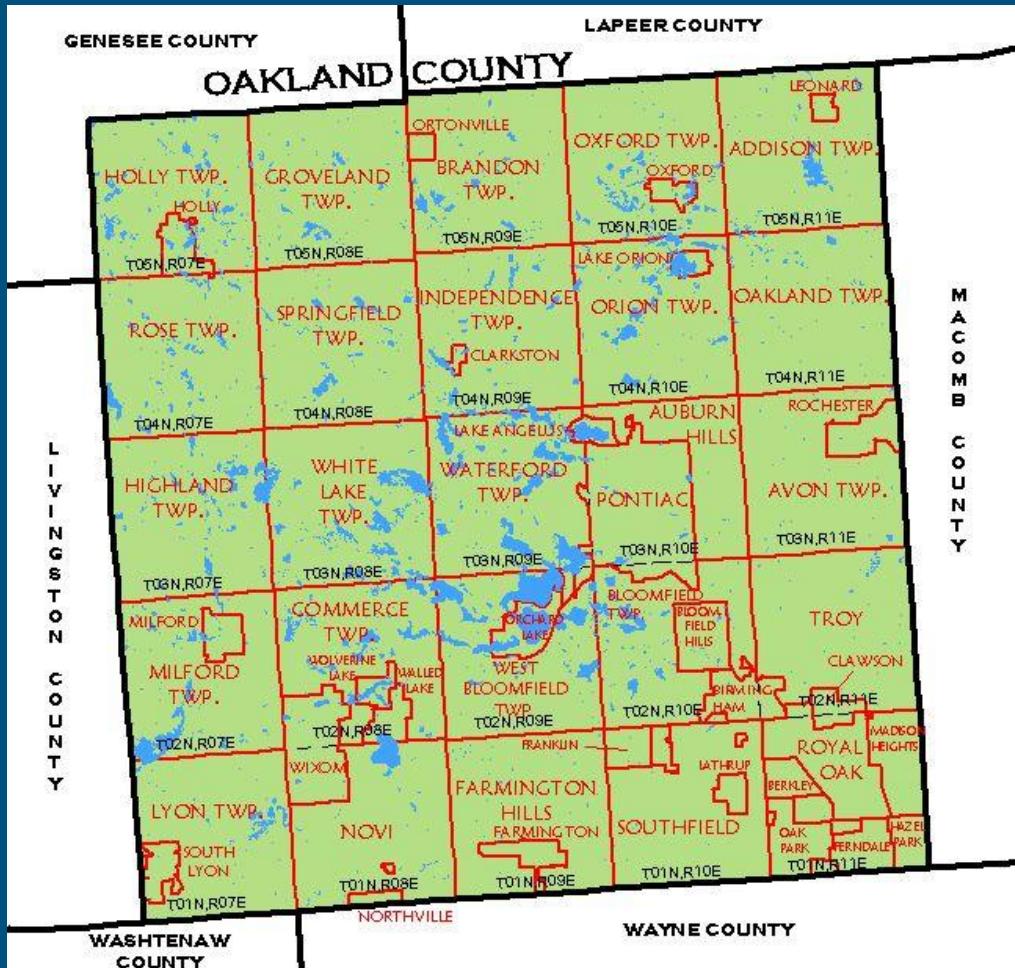


Gates



Open Source, Open-Storm.org

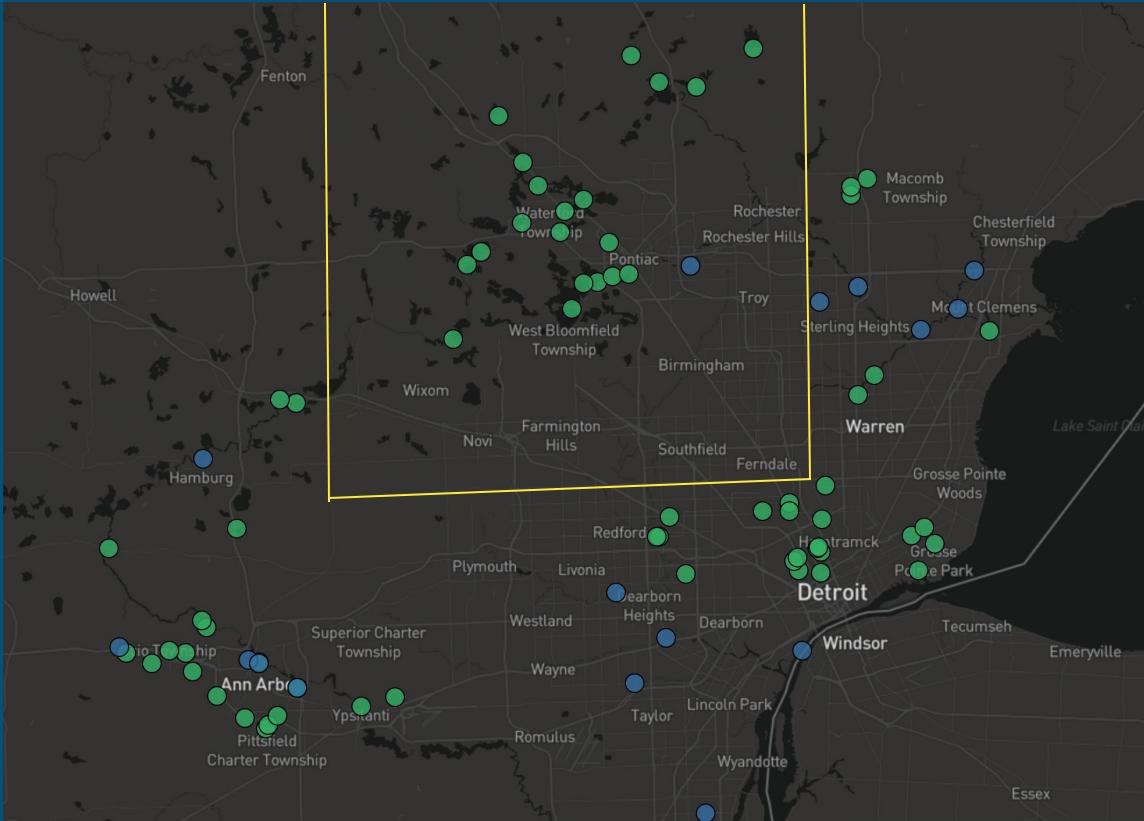




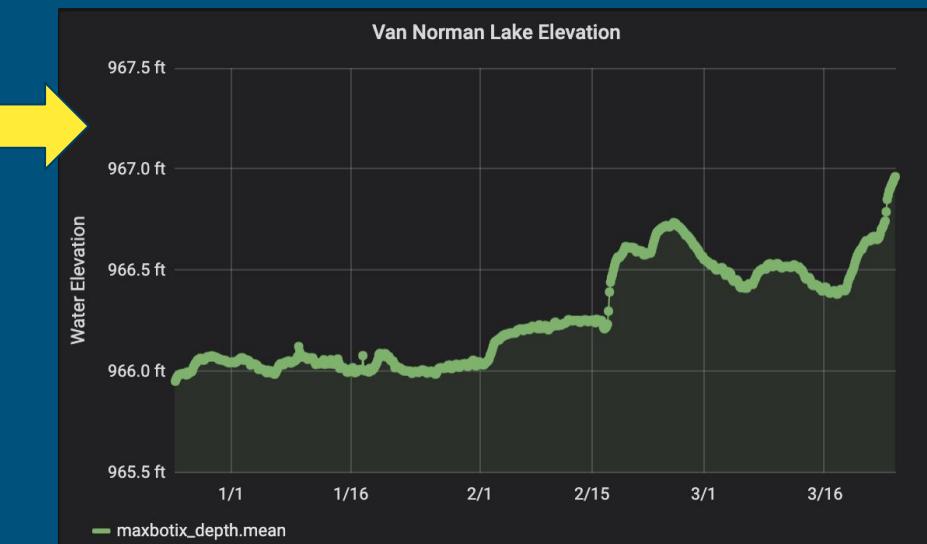
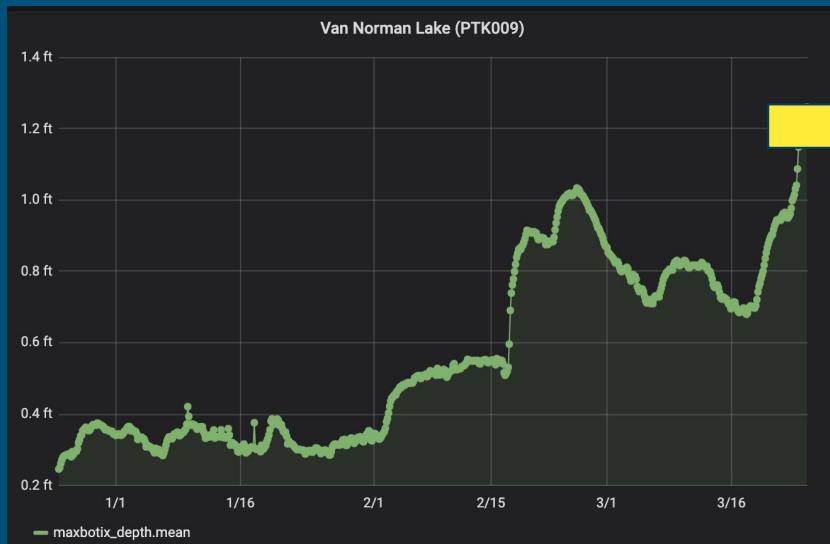
<https://accessoakland.oakgov.com>



Oakland County



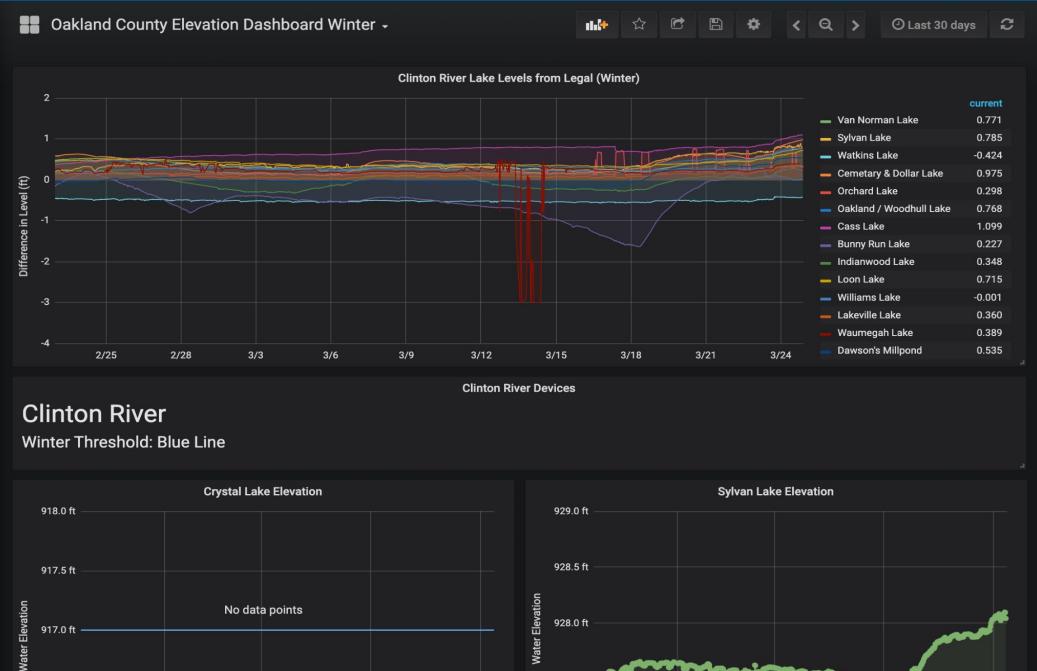
Elevation



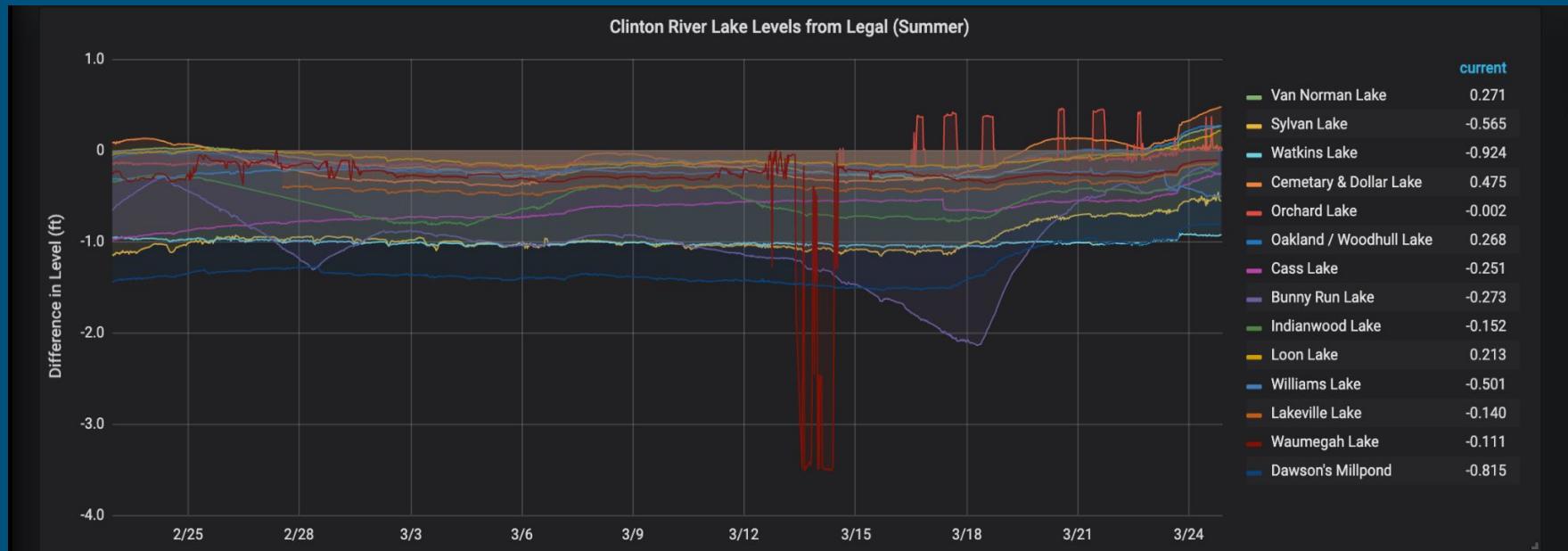
Summer



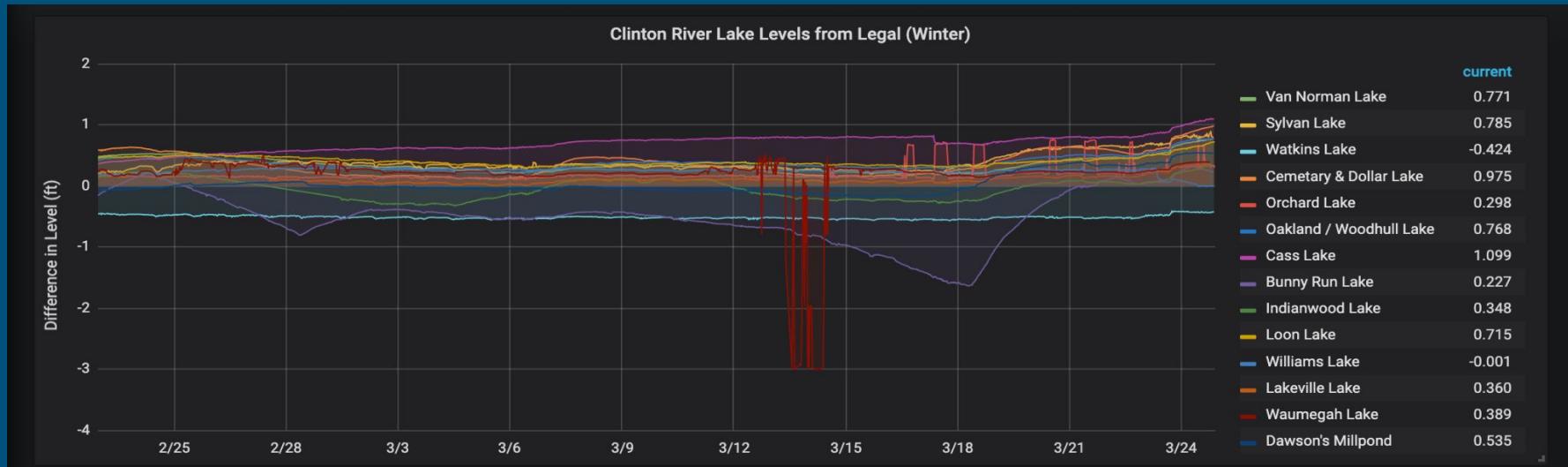
Winter

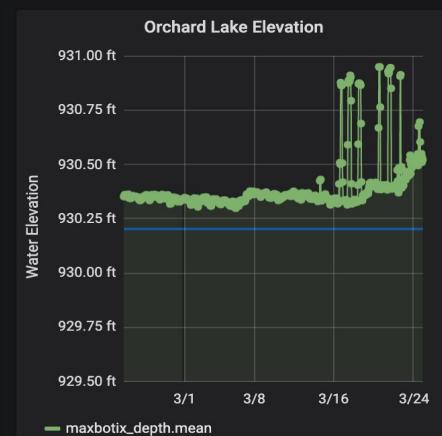
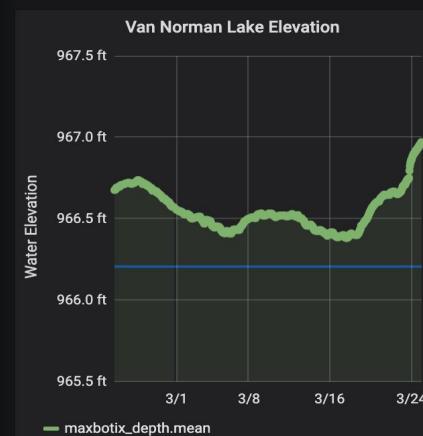
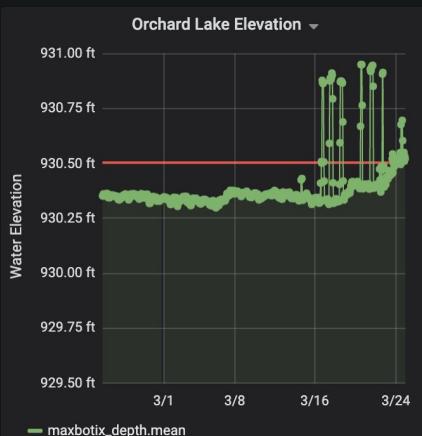
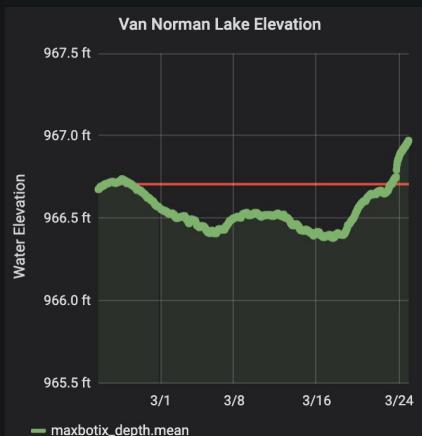
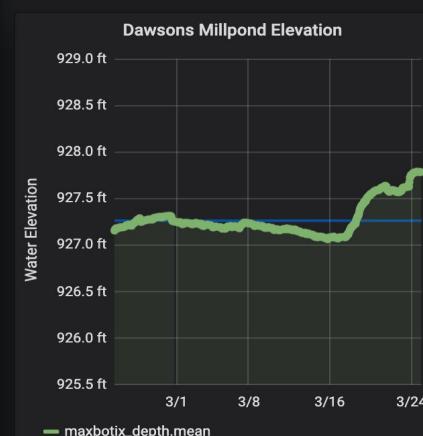
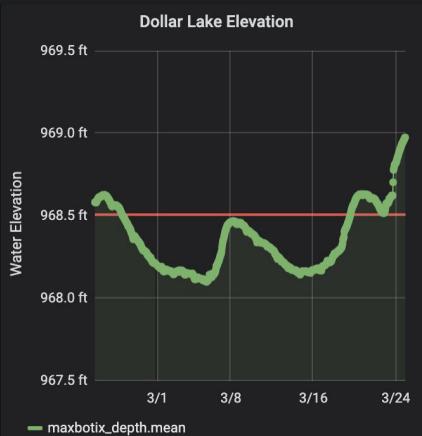
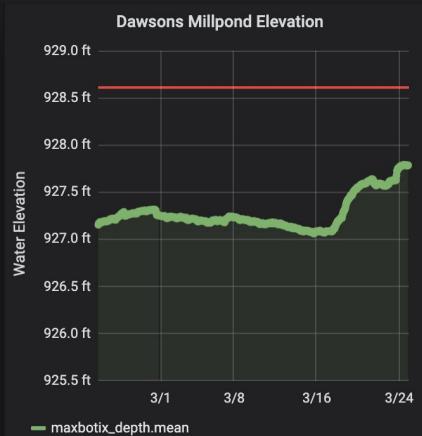


Levels Above Legal



Levels Above Legal





User Experience

Interviews



Personas & Scenarios



Updated Design

