

State Water Resources Control Board Data Fair

March 30, 2018

Welcome

- This is our second Data Faire (2 years ago was first)
- This is meant to be an open house to share our data worlds with the people who live in them with us!
- We have representatives from all our main databases available at 11:30 in the mezzanine
- We thank our partners at ImagineH2O for bringing 8 amazing technology innovators / entrepreneurs to our open house – also at 11:30
- This morning we will showcase our groundwater data world and in the afternoon we will have a moderated exploration into the world of our surface water regulatory (NPDES) data

- What do we do?

- We preserve, enhance, and restore the quality of California's water resources and drinking water for the protection of the environment, public health, and all beneficial uses and
- We ensure proper water resource allocation and efficient use, for the benefit of present and future generations

- How do we do it?

- “licenses and applications” for water diversions (water rights)
- “permits” for
 - wastewater discharges to surface water and groundwater
 - storm water discharges from construction, industrial, and municipal activities
 - discharges from irrigated agriculture
 - dredge and fill activities
 - Protection of “wetlands” or alteration of federal water bodies (401 certification program)
 - other activities that could degrade water quality

How do/can we use data?

- Data driven decision making
 - What is the appropriate pollutant load for a lake or stream reach?
 - How much water conservation is the right amount?
- Data driven management
 - How many inspections can we do next year?
 - How big should our laboratory budgets be?
- Outreach / education
 - Your water in your area is not safe to let your dog play in (harmful algal blooms).
 - Fish consumption risk varies depending on fish, where you caught it, and the age and gender of the person eating it – here's how!

Drivers of change in our approach to data and information

- Increasing availability and size of data
 - Sensors, remote sensing, ...
- Technological advancements in data storage/management/analysis
- Increasing expectations from the public for
 - data access (open data) – e.g. drinking water quality, discharge water quality
 - transparency in decision making (access to analysis and underlying data) – e.g. SGMA, water conservation standards, ...
 - meaningful communication of data (ability to dig in to data and get insights) – e.g. data stories
 - use of modern/cutting edge tools and analysis techniques (i.e., take advantage of tools/techniques being used in industry) – e.g. water supply forecasting / water rights allocation
 - usability and accessibility (transmitting data / submitting forms / finding information)