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Introduction

Sacramento Regional
 Sanitation District's
 Wastewater Treatment Plant
 \$1.7 billion project

 Upgrades to reduce nutrients by 2021

 Goal is to improve nitrogen (ammonia) removal

 Will the Delta food web and ecosystem improve?









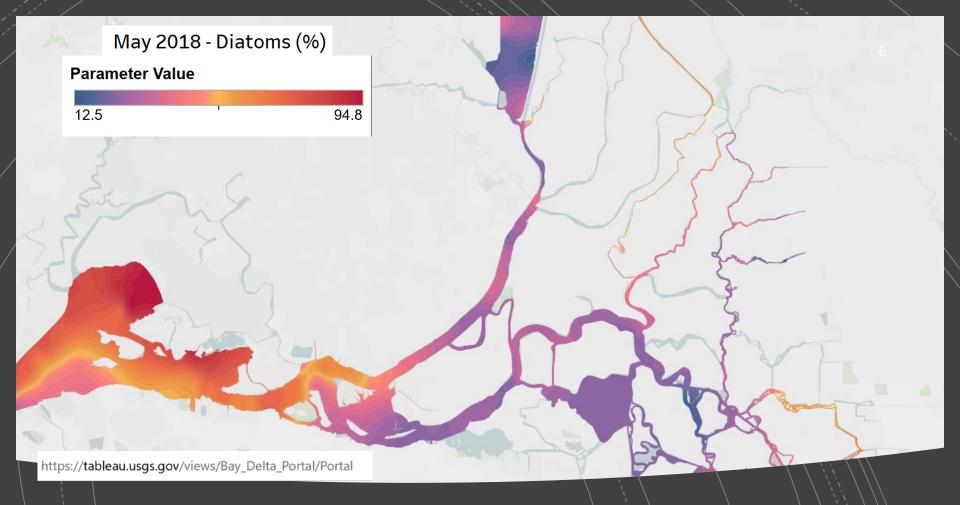
Previous Operation Baseline work

- New tools were developed: high frequency ammonium and phytoplankton sensors, benthic chamber
- Conceptual Framework developed



Operation Baseline 2.0

- Coordination and collaboration between researchers and managers
- Many knowledge gaps remain
- Sought proposal ideas from researchers in 2019



Three New Projects

- USGS: use new technologies to better understand changes in nutrients and shifts in phytoplankton communities – fixed station and boat measurements
- USGS and VIMS: Modeling work in collaboration with DWR
- BSA Environmental Services, Inc: analyzing the tiniest phytoplankton