

# BIGHT '18 UPDATE: SEDIMENT CONTAMINATION ELEMENT

- **Core sampling completed on September 30**
  - 368 sites for sediment grabs (98% success)
  - 135 fish trawls (94% success)
- **Fish tissue bioaccumulation sampling completed October 30**
  - That sampling was done separately by the Department of Fish and Wildlife
  - Achieved our target of ~140 tissue composite samples of prioritized fish
- **All samples distributed to processing labs**
  - Toxicity processing already completed
  - Chemistry due for completion in March 2019
  - Infauna due for completion in Feb 2020

# BIGHT '18 UPDATE: OTHER ELEMENTS

- **Trash: Seafloor and stream sampling completed**
- **Harmful algal blooms**
  - Domoic acid in sediment: Regional sampling completed
    - We have a time series component at three stations that will continue until next spring
  - Cyanotoxins: Method development pilot is nearing completion (thanks to recent rain)
    - Pilot data will inform study implementation for regional survey in Fall 2019
- **Ocean acidification**
  - Carbonate chemistry measurement intercalibration is underway
  - Biological field methods pilot planned for 2019
    - Regional implementation planned for 2020 to coincide with NOAA coast wide survey
- **Microbiology**
  - Coliphage methods training/intercalibration scheduled for January 9

# TWO LATE-ARRIVING CONTRACTS

## **7) Ocean Protection Council (\$475,000) - Climate Change Effects on Natural Sediment Transport to the Coast: Implications for Coastal Management**

**Principal Investigator: Eric Stein**

This contract builds on an existing project with UCI to develop an integrated approach to sediment management in estuaries and coastal areas. Specifically, this contract will support modeling/estimates of sediment flux rates from upper Newport Bay and Tijuana River to their respective estuaries to help evaluate how sediment can be used to help the coastal systems accommodate expected losses due to sea level rise.

## **8) State Water Resources Control Board (\$350,000) - Elkhorn Slough Nutrient TMDL Support**

**Principal Investigator: Martha Sutula**

This contract will provide scientific support to the Central Coast Water Board by conducting science and facilitating stakeholder interactions in support of the nutrient TMDL in Elkhorn Slough, the major estuary at terminus of agriculture-dominated watersheds in the Central Coast.