Quick Facts

Program at a Glance

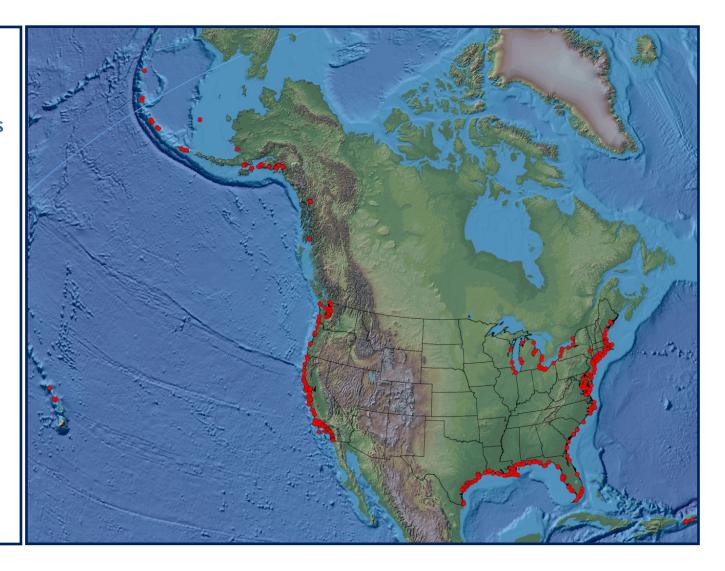
Only Program of its kind; started in 1986

Broad Federal, State & Local Partnerships

300 sites nationwide

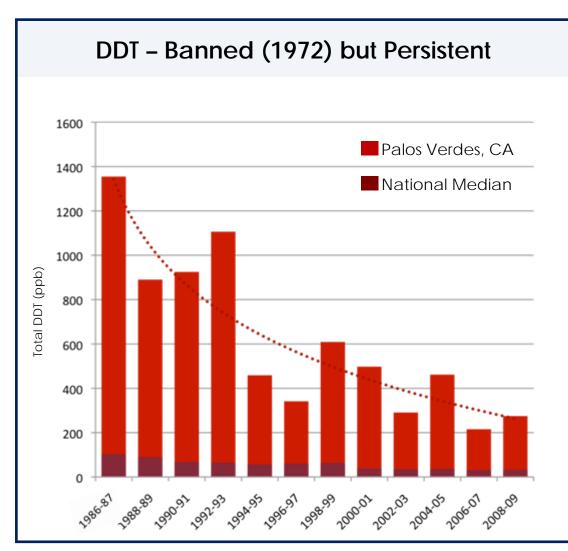
120 Chemicals monitored

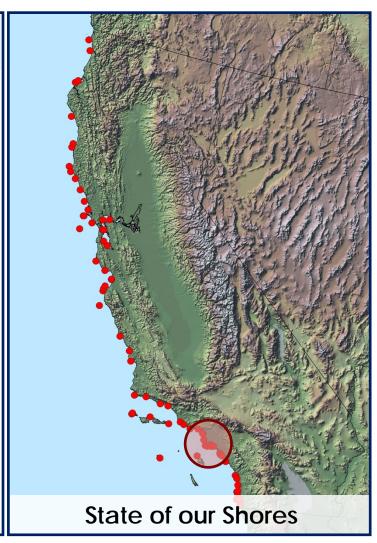
Chemicals measured in Oysters, Mussels and Sediment





A Sentinel for Safe, Healthy & Productive Coasts





Moving Forward

Re-engineering Mussel Watch

Over 3000 new chemicals are engineered each year

Most will enter coastal environments

Many will impact these environments

Mussel Watch is changing to address new potential threats

An assessment of PBDE flame retardants was our first step

Others will follow



California is the case study for a broader nation-wide effort to better assess CECs

Partners:

NOAA and other Federal Agencies

Southern California Coastal Water Research Project

San Francisco Estuary Institute,

State of California Water Resources Control Board



- Up to 80 sites to be sampled
- Enhanced screening for priority CECs
- Identification of contaminated sites

EFFECTS OF CECs ON FISH HEALTH





Reduced growth

Reproductive Impairment

Increase susceptibly to disease

Modeled population declines





Oceans and Human Health Initiative: The Oceans are a Sentinel for Human Health





toxic effects on fish/shellfish

reduced fisheries productivity

toxic compounds in fish/shellfish

threat to human consumers

toxic effects on fish/marine mammals

same toxic effects on humans