

CCLEAN

Central Coast

Long-term Environmental Assessment Network

Sources, Loads and Effects of Contaminants in Ocean Waters
along the Central California Coast

Participants

- City of Santa Cruz
- City of Watsonville
- Moss Landing Power Plant
- Monterey Regional Water Pollution Control Agency
- Carmel Area Wastewater District
- California State Waterboard, Central Coast Region

History

- 1997–1998 - Water Board requires retrospective analyses of Receiving Water data – Dr. Mike Foster
 - No consistent end-of-pipe effects
 - **Regional monitoring recommended**
 - **Cost effective**
 - **Greater protection of beneficial uses**
- 1999–2000 – Program designed

Key Features

- Participant-driven
 - Program objectives
 - Governing structure
 - Cost-sharing formula

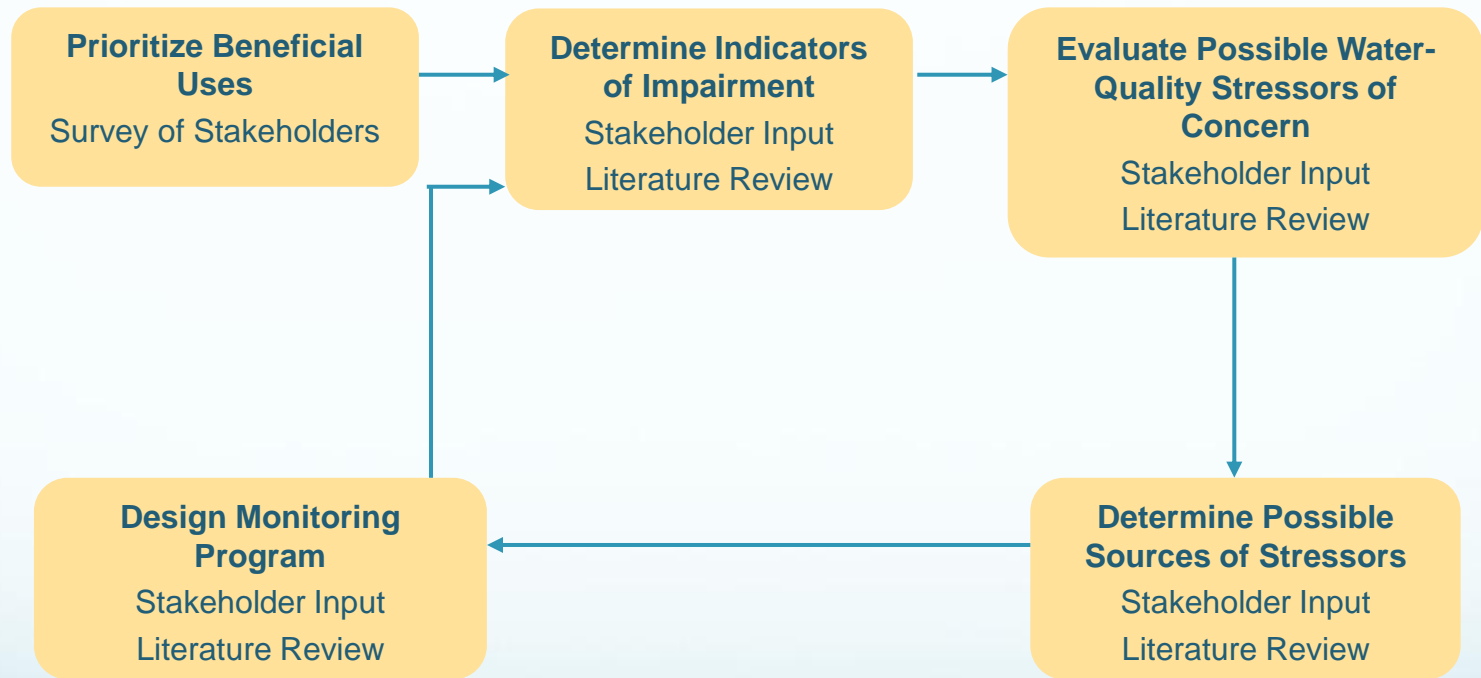
CCLEAN Objectives

1. Obtain high-quality data describing the status and long-term trends in the quality of nearshore waters, sediments, and associated beneficial uses.
2. Determine whether nearshore waters and sediments are in compliance with the Ocean Plan and associated NPDES permits.
3. Determine sources of contaminants to nearshore waters.
4. Provide legally defensible data on the effects of wastewater discharges in nearshore waters.

CCLEAN Objectives

5. Manage adaptively to ensure cost effectiveness and response to emerging issues
6. Develop a long-term database on trends in the quality of nearshore waters, sediments and associated beneficial uses.
7. Ensure that the database is compatible with other regional monitoring efforts and regulatory requirements.
8. Ensure that data are presented in ways that are understandable and relevant to the needs of stakeholders.

Program Design Process



Governing Structure

- Memorandum of Agreement
- Simple governance style
 - Single governing group (Steering Committee)
 - Meets monthly or bi-monthly
- Senior technical staff or district managers
 - Ability to make program revisions within regulatory limits

Cost Sharing

- Modest flat participation fee
 - Helps level
- Remainder of program costs divided according to running 5-year mean annual discharge volume

Other Key Ingredients

- Personalities are important
 - Maintain focus on program objectives
 - Encourage emphasis on “greater good”
 - When money is tight
 - Differences in willingness to be proactive
- Required participation

Successes

- Determine sources of water quality impairments
 - Rivers, not POTWs
 - Prioritize scarce financial resources on most important problems
- Proactive examination of wastewater for EDC effects

Challenges

- Most observed ocean water quality problems not caused by current program participants
 - Rivers versus wastewater
 - “Why aren’t THEY at the table?”
- Uploading data to CEDEN