

*Policy Summit*  
**"One California, One Coast"**

Building Coastal Resilience  
City of Oceanside



Photo source: Jayme Timberlake, City of Oceanside

Jonathan Borrego  
Oceanside City Manager  
Smart Coast Policy Summit

May 19, 2023



# Coastal Processes, Interrupted



Photo source: UCSB Aerial Library



Photo source: UCSB Aerial Library

# Large Sediment Management Efforts

Year	Activity	Sand Nourishment (Cubic Yards – CY)
1942 – 1944	Camp Pendleton Harbor – Initial Construction	1,500,000
1958	Camp Pendleton Harbor – Improvements	800,000
1963	Small Craft Harbor – Initial Construction	3,400,000
1965 – 2022	Harbor Mouth Dredging and Sand Disposal	13,729,200 (Avg. 245,000/year)
1982	San Luis Rey River Dredging	1,300,000
1989 – 1992	Sand Bypass System	124,300
2001	Regional Beach Sand Project I	421,000
2012	Regional Beach Sand Project II	293,000
		<b>21,567,500 Total</b>

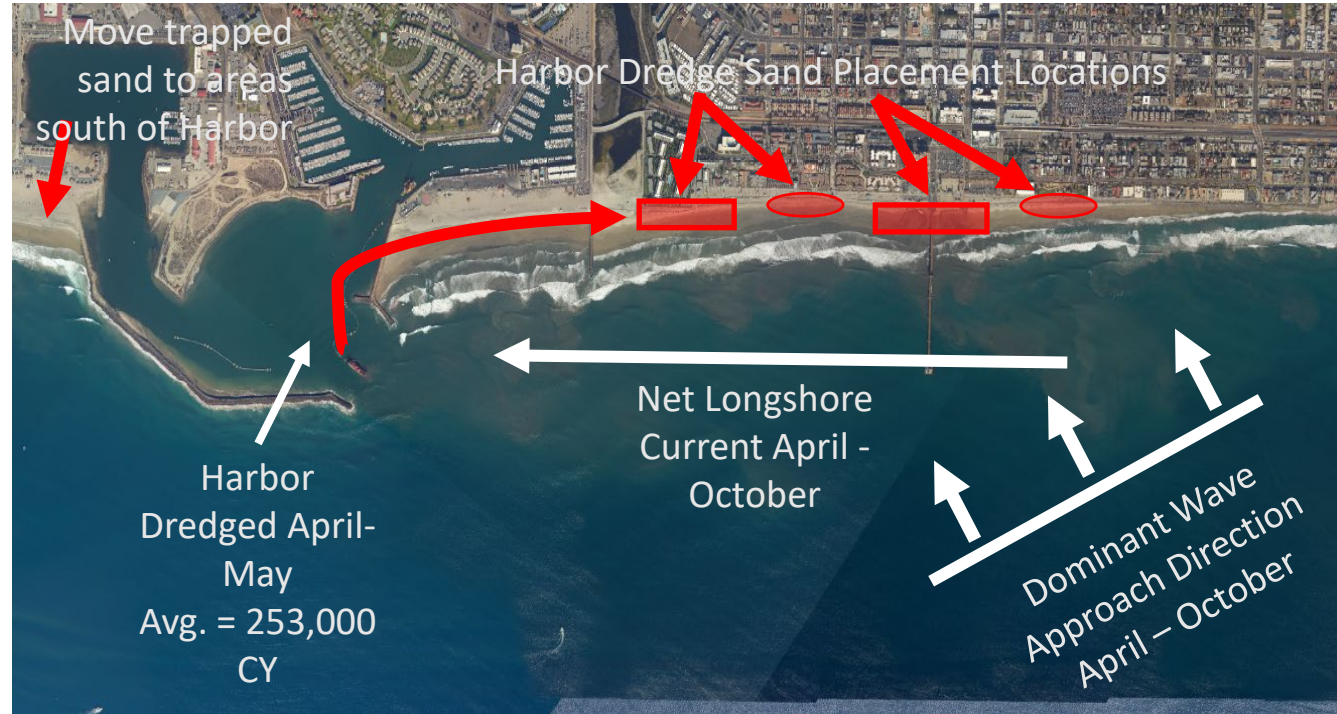
# Army Corps of Engineers Mitigation Study

- Authorized in WRDA 2000, Section 414
  - 32 months to complete
- Feasibility Study (2015)
  - Funds appropriated in 2015 for 44 month study
  - Funds cut in 2016
- Mitigation Study (Restart 2022)
  - Funds re-appropriated in 2022
  - New Start designation with City providing input on scope and survey data
  - Tentatively Selected Plan and Report to Congress – June 2025

# Phase 1 –Beach Sand Feasibility Study Conclusions

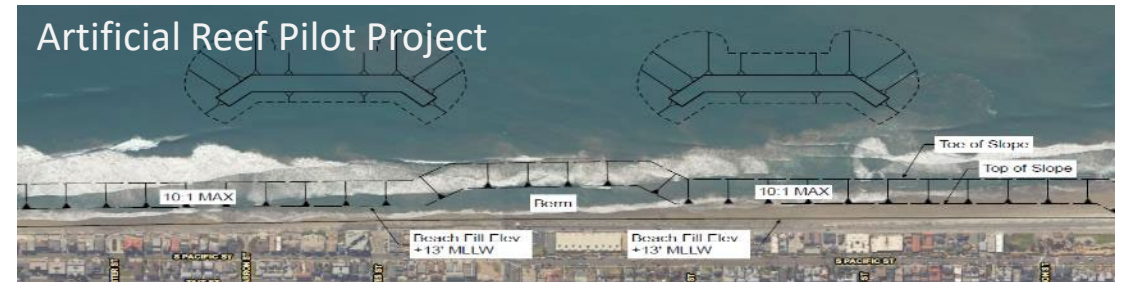


# Phase 1 –Beach Sand Feasibility Study Conclusions



# Phase 1 –Beach Sand Feasibility Study Conclusions

- Concepts considered and challenged



Source: GHD, Inc.

# Project Pause/Reset

## Coastal Zone Administrator Position

- Jayme Timberlake, Program Administrator and Coastal Habitat Restoration Specialist
- City Manager's Office

## Regional Engagement

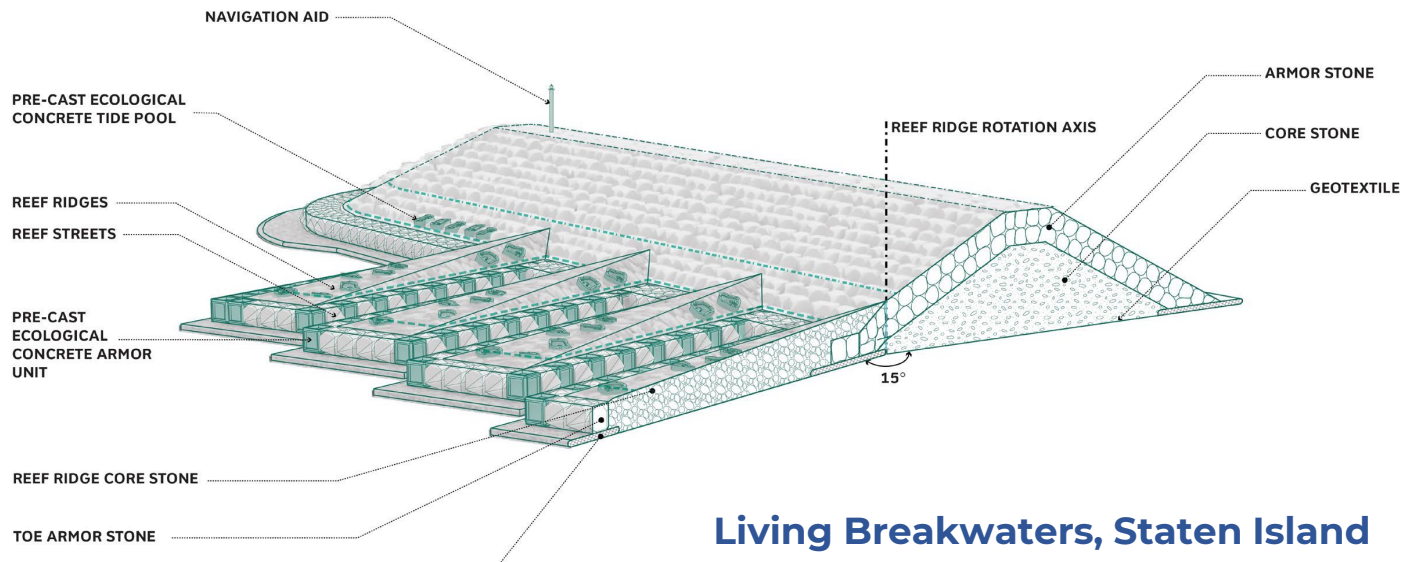
- Commitment to transparent and proactive engagement
- Enhanced communication with neighboring cities
- Highlighting regional benefits of coastal management efforts
- Emphasis on science guiding effort

## Leveraging Partnerships

- Save Oceanside Sand (SOS)
- Resilient Cities Catalyst
- SANDAG Shoreline Preservation Working Group

# Phase 2 – Sand Nourishment and Retention Pilot Project

Objective: Development of a consistent sand nourishment program and design of a hybrid sand retention structure that mimics natural systems.



**Living Breakwaters, Staten Island**

Photo source: <https://rebuildbydesign.org/>

# Phase 2 – Sand Nourishment and Retention Pilot Project

## Sand Nourishment Program Objectives

- Add sand to Oceanside littoral cell
  - Benefitting local and regional beaches
- Prefill beach areas where retention structure is built
- Determine local sand source for small scale beach nourishment
  - Utilize Sand Compatibility Opportunistic Use Permits (SCOUP)

## Sand Source Investigation

- Offshore sediment core sampling
- Develop Sampling and Analysis Plan

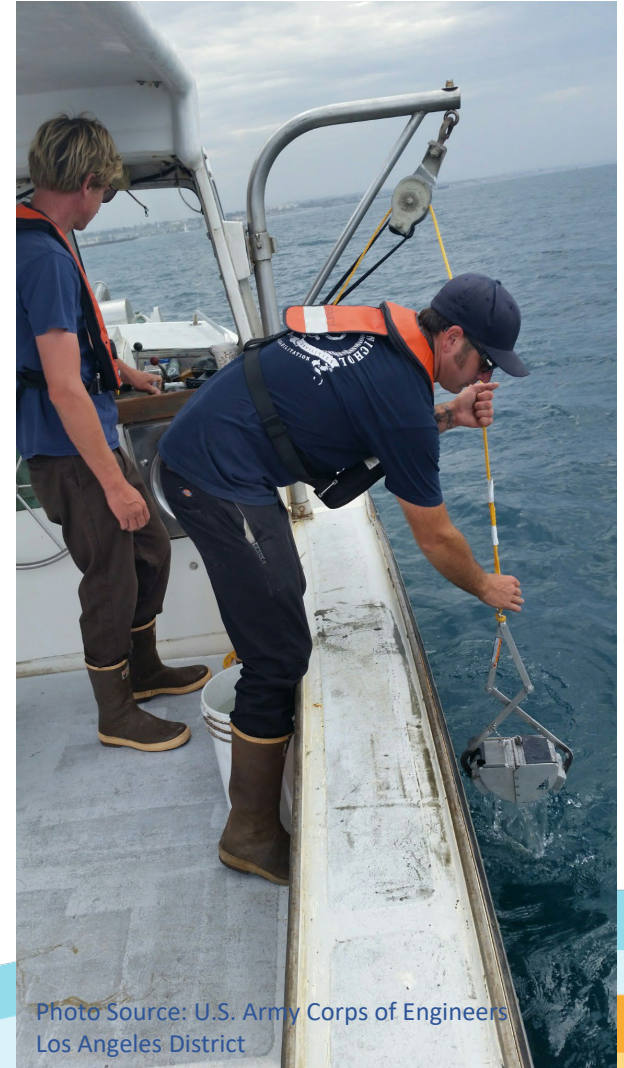


Photo Source: U.S. Army Corps of Engineers  
Los Angeles District

# Phase 2 – Coastal Resilience Design Competition

## Design Competition

- Invites Innovation
- Three Nature-based or Hybrid solutions
- Jury/Advisory Panel
  - Local/regional experts
- Public Workshops
- Final Recommendation
  - City Council approval January 2024
  - Winning Design Team will receive contract for final design



# Phase 2 – Coastal Resilience Design Competition

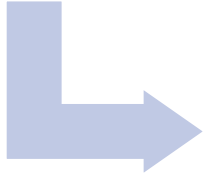
## Revised Design Competition Approach

- Yields three conceptual designs
  - Pilot Project with regional applications
- Competitive market for coastal resilience work
- Invites permitting agencies early in design
- Generates buzz and interest from public
- New coastal resilience tools to choose from

# Phase 2 – Phase 2 – Sand Nourishment and Retention Pilot Project

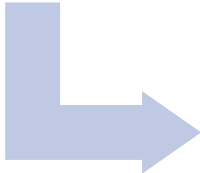
Sand Nourishment Program  
November 2023

- Sampling and Analysis Plan investigation
- Oceanside Littoral Subcell Study



Design Competition  
January 2024

- Three Design Teams compete
- Design Team selected



Final Design and Specifications  
June 2024

- Winning Team moves into Final Design



Environmental Compliance Permitting  
July 2025

- CEQA/NEPA
- Agency permits

# More information Needed?

- CITY MANAGER
  - Government Relations
  - + Communications
  - Emergency Preparedness Information
  - Coastal Management
    - Sand Nourishment and Retention Pilot Project
    - Army Corps Study Updates
    - Harbor Dredging and Placement
    - Sand Compatibility and Opportunistic Use Program (SCOUP)
    - SANDAG Regional Projects
    - Buena Vista Lagoon
    - CoastSnap
  - + RDA/Downtown/Successor Agency
  - Elected Official Salary Info

**CONTACT**

**Coastal Zone Administrator**  
Jayme Timberlake

[Government](#) » [City Manager](#) »

## Coastal Management

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With nearly four miles of coastline, the beach is a way of life in the City of Oceanside. **The City's new Coastal Zone Program aims to responsibly manage our coastal resources to benefit the community, while improving our natural habitat and resiliency against coastal storms and rising seas.** Coastal ecosystems in Oceanside include sandy beaches, estuaries, kelp forests, groins and jetty reefs, associated pelagic organisms and, of course, people. Sustaining these ecosystems is critical to ocean health, while also supporting human society.

City of Oceanside Coastal Management Webpage

Coastal Resilience Design Competition Webpage (TBD)

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