

## Carpinteria Living Shoreline Dune & Shoreline Management Plan

PUBLIC MEETING #3 MAY 6, 2021

## Today's Agenda

- Team Introductions
- Timeline
- Project Goals
- Recap of Previous Meetings
- Project Design Options
- Q & A



## Introductions

- Erin Maker, Environmental Program Manager, City of Carpinteria
- Dan Gira, Project Principal, Wood
- Matthew Buggert, Project Planner, Wood
- Chris Webb, Coastal Engineering Project Manager, Moffatt & Nichol
- Conor Ofsthun, Asst. Project Manager and Coastal Analyst, Moffatt & Nichol
- **Dave Hubbard**, Dune Designer & Restoration Ecologist, Coastal Restoration Consultants
- Matt James, Dune Designer & Restoration Ecologist, Coastal Restoration Consultants







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### **Project Timeline**



### Public Outreach and Agency Coordination

### **Overview of Key Drivers and Goals**



Protect City neighborhoods, transportation infrastructure and resources that are vulnerable to coastal flooding and erosion

Increase resiliency to sea level rise impacts

**Co-Benefit:** 

Public health and recreation

Local economy

Natural ecosystems along Carpinteria coast

Involve stakeholders to meet shared interests

Identify funding and sediment sources for ongoing maintenance

Maintain public and private beach access and viewsheds

## **Recap: Key Constraints and Considerations**

- Project Footprint Ownership Agreements
- Maintaining Public Access
- Minimizing Viewshed Impacts
- Construction/Maintenance Disruption (noise, access)



## **Recap: Stakeholder Meeting #1 Comments**

- Potential sediment sources for beach nourishment- including debris basins, Carpinteria Marsh, development projects (e.g., Rincon Trail Project), and USACE Feasibility Study
- The Coastal Conservancy hopes to provide greater funding in future fiscal years for implementation of related projects, if feasible
- Project design components and tradeoffs



## **Recap: Public Workshop #1 Comments**

- Historic Flooding: Consideration of El Nino Events in Project design
- Benefits & Tradeoffs: Dune system vs. Seasonal berm program
- Sea Level Rise Projections: Carpinteria vulnerable areas such as Beach Neighborhood and State Park vulnerable to sea level rise
- Green/Gray Infrastructure: Hybrid design options and solutions



## **Recap: Public Workshop #2 Comments**

- Projected Lifespan: Approximately 30-45 years
- Design Components: Consideration of cobble-core dunes and dune heights
- Project Monitoring: Types and durations of different approaches
- Cost Feasibility: Suggested potential maintenance activity partnerships to maintain cost feasibility



## **Site Description**

#### Location

- Project is within the Santa Barbara Littoral Cell
- Site owned by City, California State Parks, and private landowners
- Site was historically a wetland and sand dune system with a wide sandy beach
- Most beach sediment comes from stream delivery, and some from cliff erosion
- Loss of natural sediment supply and local development (homes) impacted beach width and dune systems





## **Project Design Strategies**

#### **Dune Restoration**

Groin

Combination Option

Cobble

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#### **Beach Nourishment**

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Artificial Reef / Breakwater



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## **Discussion Questions**

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### Question 1a: How often do you visit Carpinteria's beaches?

- Do you visit daily, weekly, or monthly?
- Do you walk, bike, drive a car, or take public transportation typically?
- Do you visit the California State Park beach or City beach more frequently?

# Question 1b: What activities draw you to the beach?

- Water sports (e.g. kayaking, surfing, paddle boarding)
- Volleyball
- Running or walking

# Question 2: Do you plan to be a long-term resident of Carpinteria?

- Do you rent, own property, or visit?
- How many months a year do you live in Carpinteria?
- How long do you see yourself residing in Carpinteria?

# Question 3: Do you have any design strategies that you particularly support or oppose?

- Are solely green or gray solutions your preference?
- What is the reason for your preference?
- Would you prefer cobble be solely a dune system base (covered by sand) or would cobble on top of sand be acceptable?

# Question 4: What are the Pros and Cons to you between the use of a groin vs. cobble?

- Do you have a preference in design of cobble or groin(s)?
- Would you prefer one large groin or 2-3 smaller groins along the Carpinteria coast?
- Would you rather have a groin near Ash Ave. or Linden Ave.?





# Question 5: How many walking pathways would you describe as acceptable for beach access?

- What is the importance of direct, individual access to the shore from your property?
- Thoughts on a reduction of existing pathways to create "cluster" access for homeowners?
- Dune system would be most effective against SLR impacts with minimal breaks for pathways (e.g. access every 500 feet) would this tradeoff be acceptable for home protection?

# Question 6: To what extent may viewshed obstruction be acceptable?

- Is partial viewshed obstruction acceptable to protect properties from SLR?
- If so, is there an extent? (i.e. first floor view obstruction, second floor, etc.)

Dune system height is variable and there is no defined height for success at this time.





### Visit our web page for project updates:

<u>https://carpinteriaca.gov/public-works/engineering-</u> <u>division/carpinteria-dune-shoreline-management-plan/</u>

Email to join mailing list and receive direct updates on future meetings:

erinm@ci.carpinteria.ca.us

### **Erin Maker**

Environmental Program Manager, City of Carpinteria

