

Carmel Lagoon Winter Flood Management and Environmental Impact Report update Community Meeting

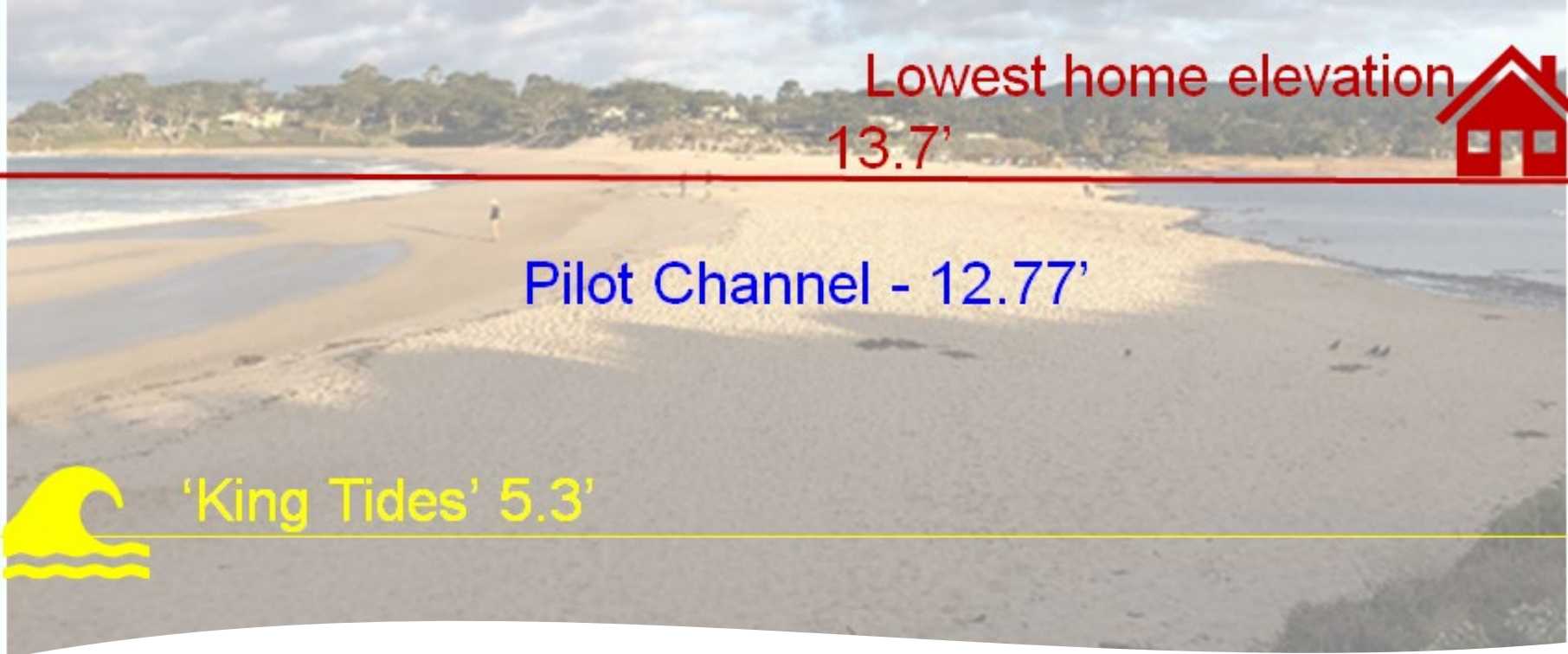
Held via zoom.

October 19, 2022

Agenda

- Review of flood hazards in 2022/2023 winter season
- Actions County will take
- Actions Residents/Homeowners can take
- Update on Environmental Impact Report and long-term Project
- Questions

Elevation NAVD88



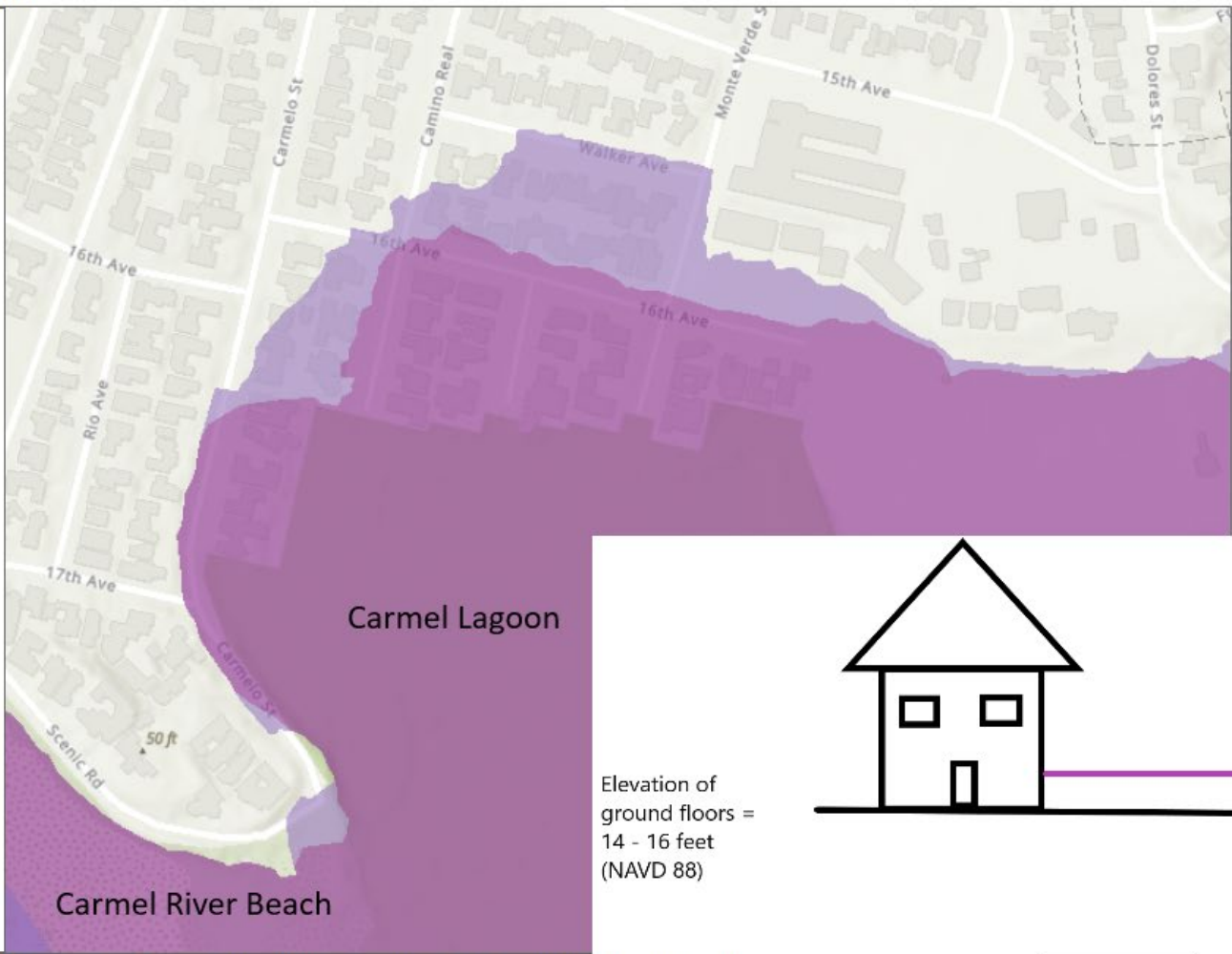
Wet Season Hazards

- Sandbar elevation varies from 12 – 15' NAVD 88
- The Carmel Lagoon can rise to above the height of the sandbar before it opens to the Ocean
- Home and business elevations adjacent to the Lagoon are 13.7-16' NAVD 88

USA Flood Hazard Areas

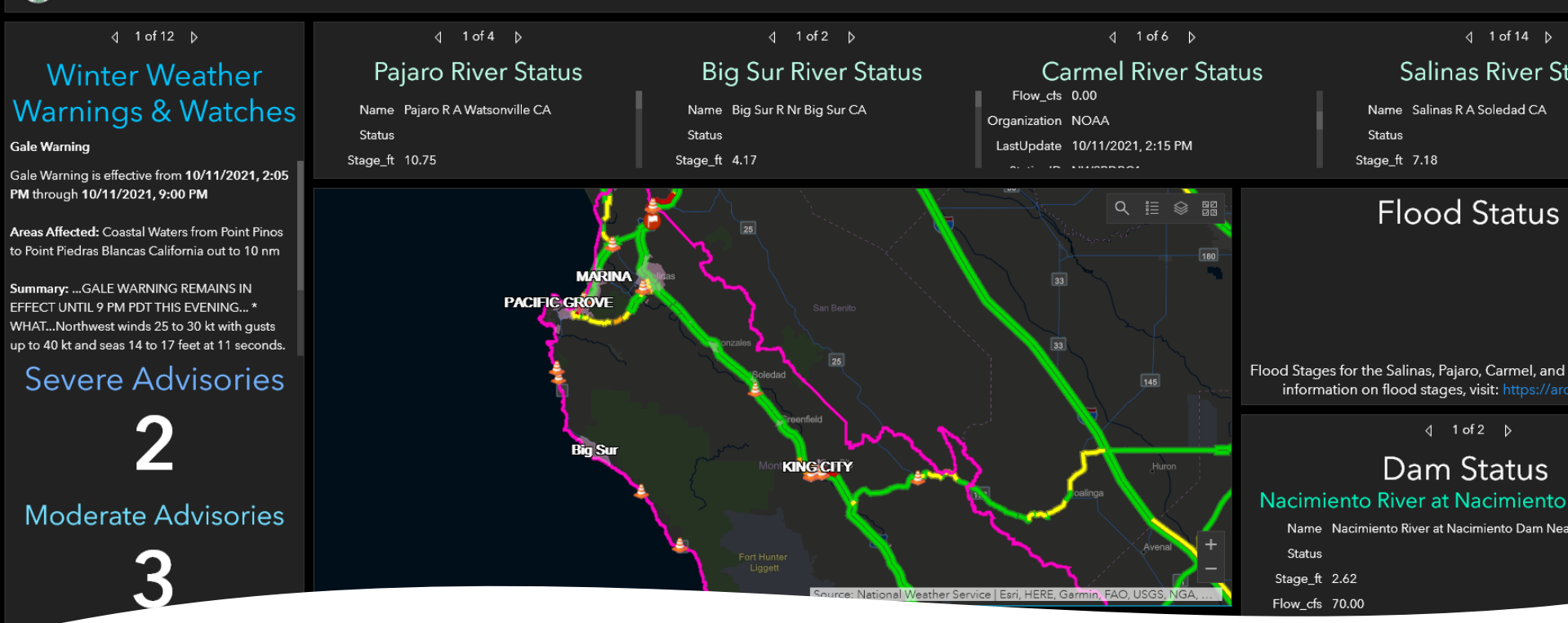
USA Flood Hazard Areas

- 1% Annual Chance Flood Hazard
- 0.2% Annual Chance Flood Hazard



This feature layer displays Flood Hazard Areas from the Flood Insurance Rate Map created by the Federal Emergency Management Agency.

FLOOD RISK FROM THE CARMEL LAGOON



Temporary Flood Hazard Mitigation Options

- Monitor weather
 - Prepare for storms
 - Access to sandbags and sand
 - Sign up for emergency alerts
- www.alertmontereycounty.org

County Actions – Winter 2022/2023

- Sandbag wall to 15' NADV88 elevation
- Station pumps
- Apply for permits



Interim Sandbar Management

Before management,
12.15.2021



After management,
12.15.2021



CARMEL RIVER - ROBLES DEL RIO (RDRC1)

Latitude: 36.47° N Longitude: 121.73° W
Location: Monterey County in California

Elevation: 269 Feet
River Group: Central Coast

Issuance Time: Dec 10 2021 at 7:53 AM PST

Next Issuance: Dec 10 2021 at 3:00 PM PST

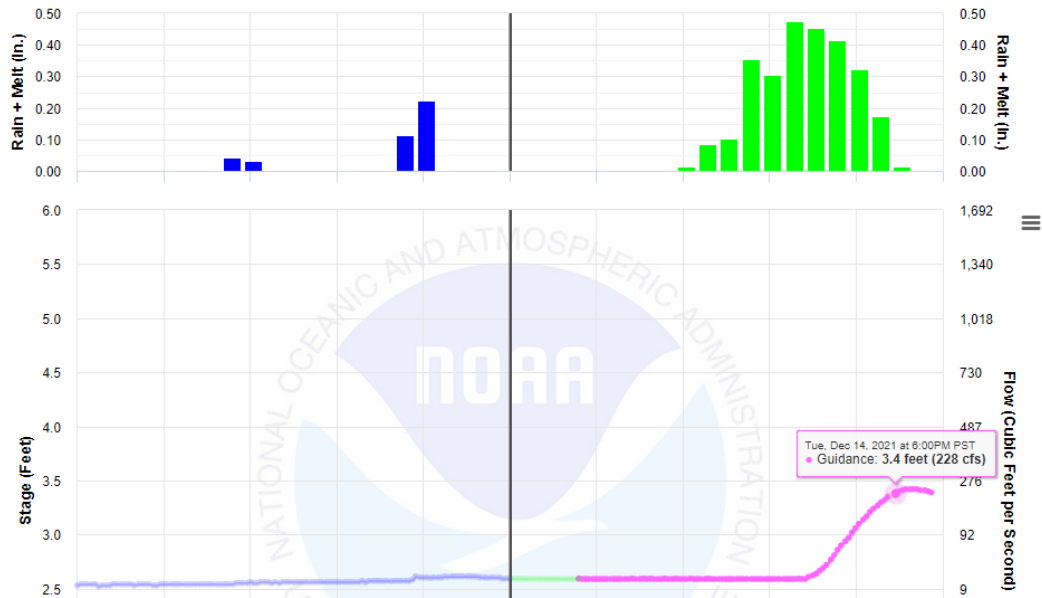
Monitor Stage: 7.5 Feet

Flood Stage: 8.5 Feet

Switch to Ensemble Forecast Scale to Flood Thresholds Export Graph as PNG Image

Carmel River - Robles Del Rio (RDRC1) River Forecast Plot

Forecast Posted: 12/10/2021 at 7:45 AM PST • Graphic Created: 12/10/2021 at 7:53 AM PST



- Lagoon rises above 12.77' (or is less than 6 hours from rising above); OR
- Carmel River flow exceeds 200 cfs; OR
- NOAA NMFS concurs management is necessary

Winter monitoring

Permit status

- **Secured:**

- United States Army Corps of Engineers
- National Oceanic and Atmospheric Administration National Marine Fisheries Service
- United States Fish and Wildlife Services

- **Pending:**

- California Coastal Commission
- California Regional Water Quality Control Board
- California Department of Fish and Wildlife





Sandbar Management Permits

- Outcome of agency meetings
- Clarifications to Permits for 2022-23
 - No Plug
 - Management with hand tools when safe

Please be safe.



Carmel Lagoon Activities

- **Annual (Interim) Sandbar Management**
 - Permitted while determining a long-term project
- **Long-Term Solution**
 - Environmental Impact Report (EIR)

Primary Objective: Implement a solution to improve the functions and values of the ecosystem in and around the Lagoon restore the Lagoon's historic hydrologic, pre-management conditions to the extent feasible to protect and improve habitat for fish and wildlife while maintaining flood protection



Recap of Carmel Lagoon Scenic Road Protective Structure (SRPS), Ecosystem Protection Barrier (EPB), and Interim Sandbar Management (ISMP) Project



- SRPS
- Adaptive management of the sandbar
- Raising first floor 1-ft above the 100-year flood elevation



Project Status

- Natural location of Lagoon breach *DONE*
- Sediment transport on Carmel River Beach *DONE*
- Impact of SRPS on beach *DONE*
- 30% Design of SRPS *REVIEWING COMMENTS*
- Stormwater analysis *PENDING*

How to join the email list:

- Put your email in the chat
- Email carrolls@co.Monterey.ca.us

Contact and Monitoring Information:

Lagoon Height:

<http://mcwrarealtimehydrodata.com/>

River flows and predicted precipitation:

<https://cnrfc.noaa.gov/graphicalRVF.php?id=RDRC1>

Community representatives:

Fourth Addition - macleod9@sbcglobal.net & lisa@carmelrealtycompany.com

CSA 1 President - Lorin Letendre (letendre@sbcglobal.net)

Monterey County

Field management:

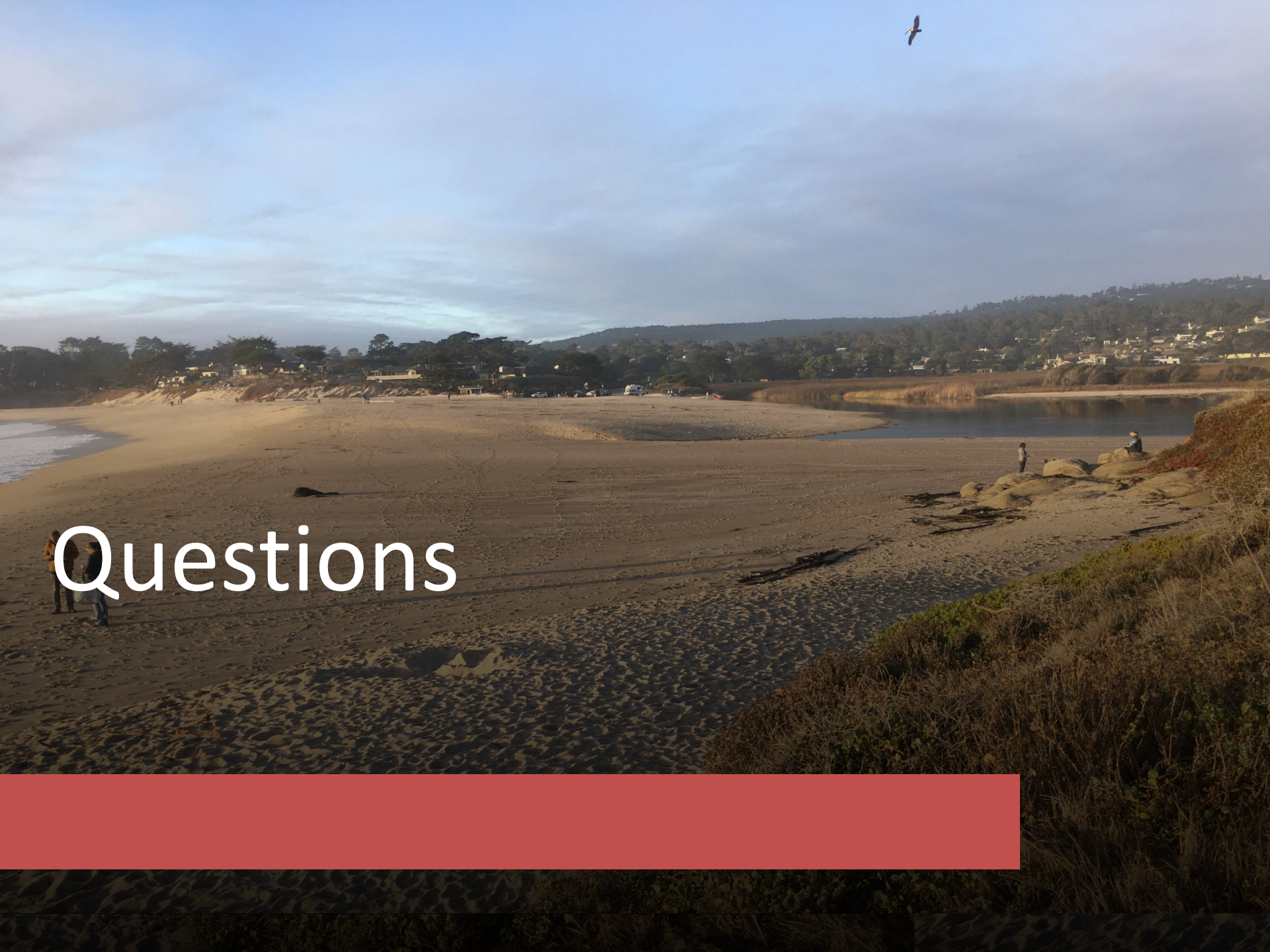
Public Works, Facilities, Parks

831-755-4925

General inquiries:

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Questions