### **RINCON PHASE 2 FEASIBILITY STUDY PLANNING WORKSHOP**

June 23, 2021

CALIFORNIA STATE LANDS COMMISSION



California State Lands Commission

#### Meet the Team

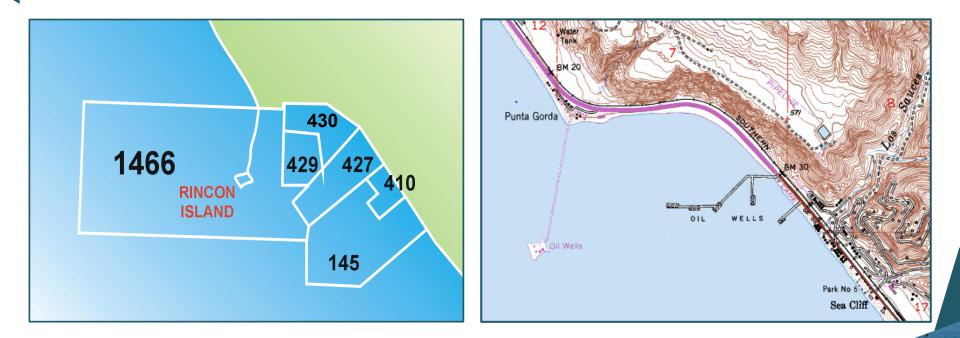
- **Cynthia Herzog**, Sr. Environmental Scientist/Project Manager
- Micaela Weimer, Commission Attorney
- Peter Regan, Petroleum Engineer
- Katie Robinson-Filipp, Environmental Scientist/Outreach and Public Engagement Specialist
- Jennifer Mattox, Tribal Liaison
- Yessica Ramirez, Environmental Justice Liaison
- Simon Poulter, Padre Associates, Inc.
- Mark Steffy, Longitude 123

#### **Overview of the Agenda**

- I. Welcome and Introductions
- II. Decommissioning Background and Updates
  - a. Overview of decommissioning scope and context
  - b. Phase 2 updates and descriptions
- III. Interactive Exercise: Feasibility Study Scope
  - a. Discuss overview of alternatives and considerations
- IV. Interactive Exercise: Long-Term Use Thinking Ahead to Phase 3
- V. Wrap-Up and Next Steps a. How to stay involved b. Next steps
  - c. Closing comments

## Rincon Phase 1 Background and Updates

#### **Rincon Area Oil and Gas Leases**



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#### Onshore Leases – PRCs 410 & 145



#### **Well Abandonment Project History**

- March 2018 Commission staff issue a Statement of Interest for onshore and offshore well and production facility abandonment
- June 2018 Contractor selected to conduct abandonment program
- September 2018 Onshore well abandonments began
- January 2019 Offshore well abandonments began
- June 2021 Planned completion of abandonment

#### Phase 1 Current Status

- Offshore: 50 of 50 wells abandoned to mud line
- Onshore: 27 of 27 wells abandoned to surface
- Anticipated Phase 1 completion on target for June 2021









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#### **Island Tank Battery**

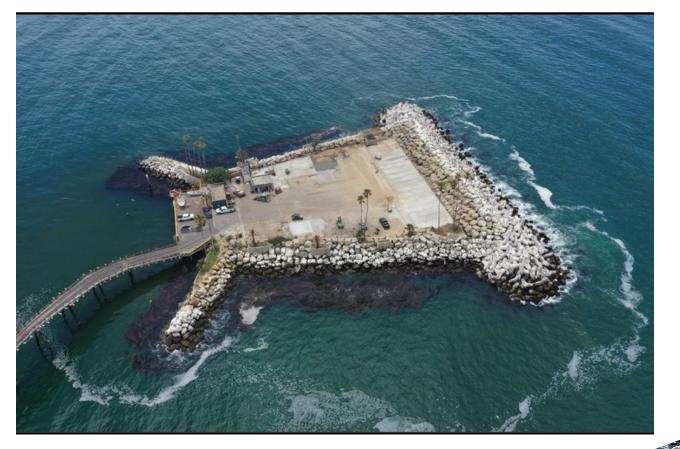




#### **Rincon Island September 2020**



#### **Rincon Island June 2021**



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#### **Causeway Repairs**

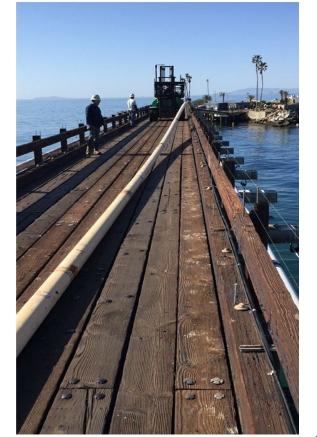


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#### Remaining Phase 1 Work

<u>Current Focus:</u> Final preparation for caretaker status

- Completion of security upgrades
- Maintenance of foghorn and lighting
- Removal of onshore offices



#### **Rincon Phase 1 Accomplishments**

- Engineering and Construction Highlights
  - 77 wells abandoned, with 10,000 barrels of cement placed
  - 1,000 feet of causeway upgraded
  - 41 miles of tubing, 190 tons of casing, and 400 tons of steel recycled
  - 3,028 tons of concrete removed
- Health, Safety, & Environmental (HSE) Highlights
  - Zero incidents
  - Zero spillage
- Completed ahead of schedule and under budget

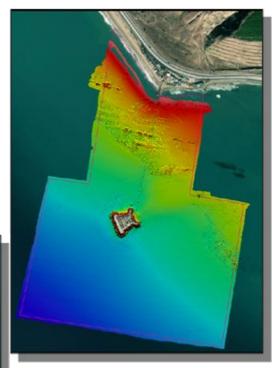


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- Phase 2: Decommissioning Feasibility Study and Environmental Documentation
- Phase 3: Final Disposition





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#### Rincon Phase 2 Decommissioning Feasibility Study and Environmental Documentation

### Feasibility Study Components

- Background and Description of
  Alternatives for Decommissioning
  - Desktop Study Report
  - Phase 2 Execution Plan
  - Bathymetric Survey and Structural Survey
  - Coastal Engineering Study
- Environmental Assessment/Alternatives Analysis
  - Baseline Assessment of Core CEQA Checklist Items
  - Marine Biological Study

- Socio-economic Analysis
  - Environmental Justice
  - Commercial Fishing
  - Recreational Uses
- Engineering Assessment of Potential Components
  - Component 1. Removal of Island Concrete/Asphalt Covering
  - Component 2. Removal of Island Core
  - Component 3. Removal of Armor
  - Component 4. Causeway Removal
  - Component 5. Removal/Abandonment of Onshore Pipelines

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#### **Preliminary Alternatives**

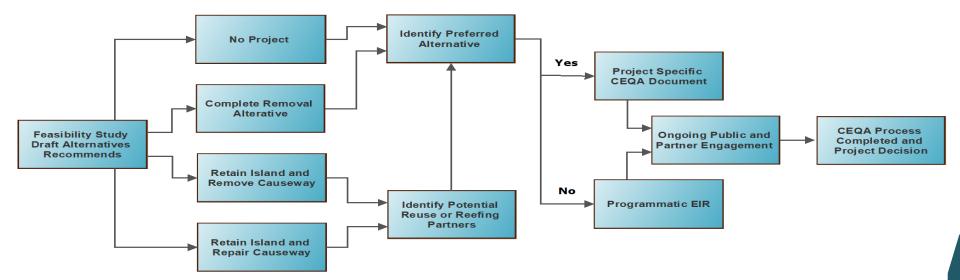
#### The Three R's Approach: Removal, Reuse, Reefing

- **No Project**: For the purposes of CEQA, retain facilities in current condition
- **Removal** Complete removal of the island and causeway, remediation and restoration of the onshore property
- **Reuse** Retention of the island, repair of the causeway for long-term access, remediation and restoration of the onshore property
- **Reefing** Retention of the island, removal of the causeway (vessel-based access), remediation and restoration of the onshore property



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### **Potential Alternatives**



#### **Desktop Study**

- Review Construction
  Drawings and Reports
- Engineering Plans and Reports
- Past Inspection Reports
- Past Facility Repair Plans



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RINCON OFFSHORE ISLAND AND OPEN CAU John A. Blume,<sup>1</sup> F. ASCE and James M. Keith,<sup>2</sup>

SYNOPSIS This paper presents the design problems and the constr

September, 1959 Journal of the WATERWAYS AND HARBORS DI Proceedings of the American Society of Civ

#### damage and wave runup studies with alternate armor types, materials, densities and slopes. The field operations included skin diving and the use of special fathometers in control operations for underwater placement.

#### INTRODUCTION

The State of California, through its Lands Commission, called for competitive bids in 1964 for the exploration and development of and the production of oil and gas from an offshore area of 1,175 acress called Rincon Lease. This esofumaries land lise offshore from existing production walls located on piers constructed many years ago. The oil company bidders were to provide all necessary installations at no cost to the State. Offshore facilities had to be in accordance with the then existing requirements and court rulings which essentially specified "solid man- and e islands of natural materials".

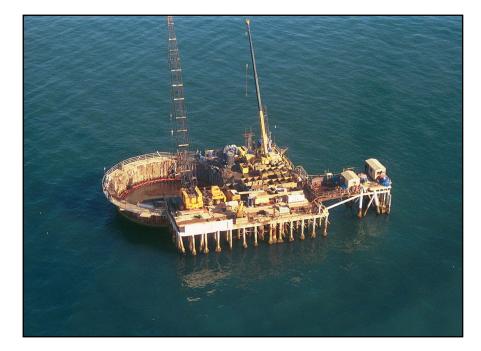
Richfield Oil Corporation was pronounced the successful bidder since it offered greater oil orgalities to the State than any of the many other oil companies that bid. After some legal delays, Richfield was awarded the lease and hold to proceed. The engineering firm, John A. Bhume & Associates, the source of the source of the source of the source of the ac consultants to Richfield, was in turn told to proceed with the engineering work. Thereastics men suit J Feature 1, 1980. To extend the closing disc one month, a

Note: Discussion open until February 1, 1960. To extend the closing date one month, a written request must be filed with the Executive Secretary, ASCE. Paper 2170 is part of the copyrighted Journal of the Waterways and Harbors Division, Proceedings of the American Society of Civil Engineers, Vol. 85, No. WW 3, September, 1959.

Pres., John A. Blume & Associates, Eng. San Francisco, Calif.
 Project Eng. John A. Blume & Associates, Eng. San Francisco, Calif.

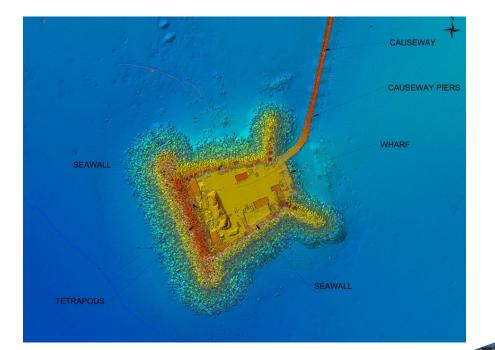
#### **Phase 2 Execution Plan**

- Removal and Repair
  Methodologies
  - Procedures
  - Equipment
  - Timing



#### **Bathymetric Survey and Structural Survey**

 Combining multibeam sonars with 3D terrestrial LiDar laser scanners



#### Etrac 3D Model Video

- Rincon Island LiDAR FlyThrough
  - <u>https://www.youtube.com/watch?v=fu-5gGe50Dg</u>

#### **Coastal Engineering Study**

- Modeling of nearshore wave climate, circulation, littoral transport, and shoreline morphology
- Determine potential impacts to coastal processes under the proposed alternatives



#### **Engineering Assessment**

- Develop a cost and schedule estimate for Phase 2 potential components:
  - Component 1. Removal of the Island Concrete/Asphalt Covering
  - Component 2. Removal of Island Core
    - Onshore or Offshore Disposal
  - Component 3. Removal of Protective Armor
  - Component 4. Causeway Removal
  - Component 5. Removal/Abandonment of Onshore Pipelines

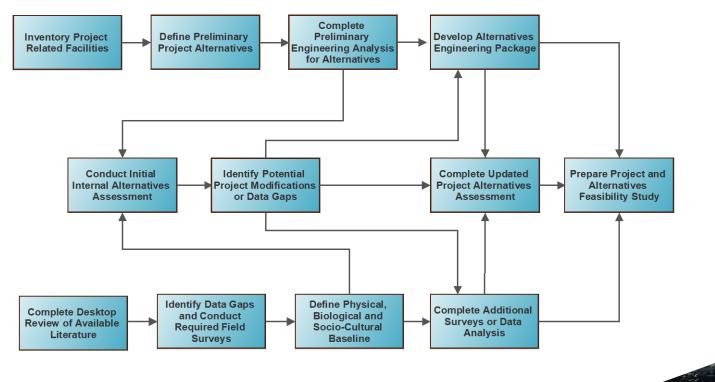


#### **Soil and Water Assessments**

Determine the presence of hydrocarbon contamination from historical operations



# Feasibility Study Alternatives Review Diagram



#### Interactive Exercise 1: Feasibility Scope

# What alternatives should be analyzed for Rincon Island?



**a. Removal** - Complete removal of the island and causeway, remediation and restoration of the onshore property

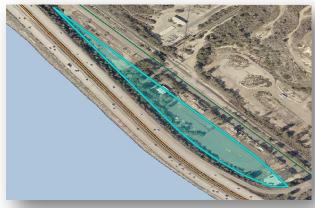
**b. Reuse** - Retention of the island, repair of the causeway for long-term access, remediation and restoration of the onshore property

**c. Reefing** - Retention of the island, removal of the causeway (vessel-based access), remediation and restoration of the onshore property

#### Interactive Exercise 2: Feasibility Scope

What alternatives should be analyzed for the Rincon <u>onshore</u> facility site?

- a. Leave fenced and do not utilize
- b. Active recreation (e.g., park or RV park)
- **c. Passive recreation** (e.g., access points for nearby beach, such as parking)
- d. Consider working with the County on another land use





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#### Wrap-Up and Next Steps

- How to stay involved:
  - Email us: <u>Rincon.Phase2@slc.ca.gov</u>
  - Our website: <u>https://www.slc.ca.gov/oil-and-gas/rincon-island/</u>

#### www.slc.ca.gov THANK YOU!

