Hāna Harbor Pier Improvement Environmental Assessment

Early Consultation Public Meeting
July 10, 2013 | Helene Hall | Hāna, Maui
5:00 PM Open House
5:30 PM Presentation
Project Team Present

DOT-Harbors  Jadine Urasaki, Deputy Director
Owner         Duane Kim, Maui District Manager
              Sandra Rossetter, Project Manager

Helber Hastert & Fee  Scott Ezer
EA Preparation  Gail Renard

Moffatt & Nichol  Dean Kokubun
Pier Design

Kaimipono Consulting  Maria “Kaimi” Orr
Cultural Impacts & Community Liaison
1. Meeting Purpose & Objectives
2. Project Background / Purpose & Need
3. Environmental Assessment and Entitlements
4. Wharf Condition Assessment
5. Biological Resources Summary
6. Tentative EA Schedule
7. Q&A
Meeting Purpose and Objectives

- Project Overview
- EA Process
- Public input into scope of environmental analysis
  - Resources that may be affected
  - Alternatives that should be considered
  - Potential impacts that should be studied
Project Background

- Act 200 (SLH 2008)
- Hāna Harbor Development Plan
Background

- Location & History

[Image of a map showing Hana Harbor and railroad tracks with a warning sign: "WARNING: RESTRICTED AREA. KEEP OUT. HANA WHARF UNSAFE"]
EA and Entitlements

- EA Purpose, Process, Scope
- Alternatives to evaluate
- Primary environmental issues
  - Marine resources
  - Culture/Recreation
  - Historic
- Technical Studies
- USACE Permit
EA Technical Studies

Pier Structural Evaluation and Concept Design  Moffatt & Nichol

Biological Surveys  AECOS, Inc.

Cultural Impacts  Kaimipono Consulting

Noise Study  D.L. Adams & Associates

Historic Architecture  Mason Architects
Field Investigation

Top of Deck
Field Investigation

Deck, Pile Caps, Beams, Top of Piles
Field Investigation

Deck, Pile Caps, Beams, Top of Piles
Field Investigation

Deck, Pile Caps, Beams, Top of Piles
Field Investigation

Deck, Pile Caps, Beams, Top of Piles
Field Investigation

Deck, Pile Caps, Beams, Top of Piles
Field Investigation

Submerged Piles / Footings
Field Investigation

Submerged Piles / Footings
Field Investigation

Submerged Piles / Footings
Field Investigation

Submerged Piles / Footings
Conceptual Pier Repair Sections

NEW CONCRETE PILE CAP, PRECAST DECK PLANKS, TOPPING SLAB
Site Bathymetry

- Generally deeper than 20'
- No planned dredging
Wind Climate

- Prevailing Easterly Trade Winds

- Site is exposed to tradewinds from east/northeast, and to some degree winds from north

- Winds from west and south are essentially blocked by island of Maui
US Army Corps of Engineers – Wave Information Studies (WIS)

- WIS produce an online database of hindcast, near shore wave conditions along US coastlines
- Based on numerical ocean wave generation and propagation model, WISWAVE
- Two WIS virtual buoy locations within near shore area of Hāna Bay site
Deepwater Wave Climate

- Long period swell from northwest during winter months – protected by geography of Hāna Bay
- Protected from west and south swells by island of Maui
- Trade wind swell is responsible for majority of waves impacting project site
Pier Mooring Plan

285' LONG X 78' WIDE
Biological Surveys

- May 2013 surveys
- Marine and terrestrial biology
- General and quantitative marine surveys
- Water quality and sediment analyses
- Terrestrial biota mostly non-native; no protected species observed

Marine survey areas
- Quantitative transect (seaward of pier)
- Quantitative transect (under pier and trestle)
Biological Surveys

- More coral on exterior piles than interior piles
- Plating coral abundant on piles, some large colonies
- Patchy coral seaward of pier
- Coral proposed for ESA listing observed
- No invasive algae observed at time of survey
<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Community Meeting #1</td>
<td>Summer 2013</td>
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<tr>
<td>EA Early Consultation/Scoping</td>
<td>Summer 2013</td>
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<tr>
<td>Draft EA Preparation</td>
<td>Late 2013/Early 2014</td>
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<td>Draft EA Public Review</td>
<td>Early 2014</td>
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<td>Community Meeting #2</td>
<td>Early 2014</td>
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<td>Final EA Preparation</td>
<td>Spring 2014</td>
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<td>Final EA Publication</td>
<td>Summer 2014</td>
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Contacts

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(808) 545-2055
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Questions and Input

- Please sign up to speak and use microphone so everyone can hear you
- Input forms available (submit tonight or mail in)
- Fact Sheets available
- Sign in for future updates

Mahalo!