



Los Angeles County  
Department of Regional Planning

*Planning for the Challenges Ahead*



Richard J. Bruckner  
Director

May 5, 2016

TO: Doug Smith, Vice Chair  
David W. Louie, Commissioner  
Laura Shell, Commissioner  
Curt Pedersen, Commissioner  
Pat Modugno, Commissioner

FROM: Shaun Temple *ST*  
Zoning Permits West Section

**Project No. R2014-01278-(4) – Conditional Use Permit No. 201400055**  
**Coastal Development Permit No. 201400002 - RPC Meeting: May 11, 2016**  
**Agenda Item: 8**

The project is a request by the Santa Catalina Island Company to replace sand and to place six beach cabanas at Two Harbors' main beach in addition to expanding the alcohol service area of the Harbor Reef Restaurant to include the main beach area.

The applicant requests that the Regional Planning Commission modify staff's proposed mitigation measure 4.4, which reads, "Limit sand replacement activities to the October – February period in order to avoid potential adverse impacts to grunion." The applicant has submitted a biological memorandum for the Commission to review to consider their request.

Please find enclosed the cover letter with the Island Company's request along with the accompanying biological memorandum.

If you need further information, please contact Shaun Temple at (213) 974-6435 or [stemple@planning.lacounty.gov](mailto:stemple@planning.lacounty.gov). Department office hours are Monday through Thursday from 7:00 a.m. to 6:00 p.m. The Department is closed on Fridays.

MKK:sct

Enclosure(s): Island Company's Cover Letter, Biological Memorandum



SANTA CATALINA ISLAND COMPANY

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May 5<sup>th</sup>, 2016

Planning Commission  
Los Angeles County Department of Regional Planning  
320 West Temple Street  
Los Angeles, CA 90012

RE: Project Number R2014-01278-(4)

Dear Commissioners,

The Santa Catalina Island Company respectfully submits a biological memorandum in response to the mitigation measure requiring that we "Limit sand replacement activities to the October – February period in order to avoid potential adverse impacts to grunion."

We would ask that the memorandum be reviewed in support of our request to modify the mitigation measure to allow sand replacement activities to take place earlier than October and later than February for reasons that are supported by the attached report. We submit this request to allow installation to take place outside of the October to February period.

Thank you,



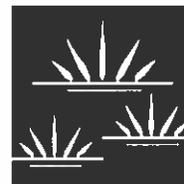
Jennifer Ansite  
Director of Development  
Santa Catalina Island Company

CC: Shaun Temple, Case Planner

# MEMORANDUM

## GLENN LUKOS ASSOCIATES

Regulatory Services



**PROJECT NUMBER:** 10260005SAND  
**TO:** Kris Wilhelm  
**FROM:** Jason Fitzgibbon  
**DATE:** May 3, 2016  
**SUBJECT:** SEATAC's Recommended Measures Associated with the Two Harbors Sand Project [Project No. R2014-01278-(4)]

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On April 13, 2016 Glenn Lukos Associates (GLA) biologist Jason Fitzgibbon conducted a review of the proposed Two Harbors Sand Project site (Site) to evaluate the area and determine whether the Measure set forth by the Los Angeles County Significant Ecological Area Technical Advisory Committee (SEATAC) – to preclude work on the subject sand project during the Grunion spawning season (February to September) – is necessary given the specific location of the proposed project and the scope of project activities. The area reviewed and discussed below includes the proposed sand removal area depicted in Exhibit 1, and does not include the excavation of sand and soil of the haul road or sand removal area north and west of the haul road.

Based on a thorough review of the site conditions, current uses of the site, and given the proposed work activities for the Two Harbors Sand Project, it is not expected that work conducted within the Grunion spawning season will incur direct or indirect impacts to Grunion that may utilize the beach at Two Harbors for spawning purposes.

### **California grunion (*Leuresthes tenuis*) Spawning Habitat**

California grunion typically spawn for a variable duration each year, often beginning anywhere from late February or early March, and extending into August or even early September. Spawning runs are restricted to one to three hour periods of time throughout this duration, often occurring three to four nights after the highest tide associated with each full or new moon.<sup>1</sup>

Runs occur when grunion utilize wave action to temporarily strand themselves on the beach, such that females are able to partially or fully bury themselves within the saturated sand and deposit their eggs for accompanying male grunion to fertilize. The entire process may occur in as little time as half a minute or may take several minutes as grunion remain on the sand waiting for another wave to reach them and return them to sea.

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<sup>1</sup> Clark, Frances N. 1925. The life history of *Leuresthes tenuis*, an atherine fish with tide controlled spawning habits. California Department of Fish and Game, Fish Bull., (10) :1-51

## MEMORANDUM

May 3, 2016

Page 2

Typically, eggs are deposited by the females two to three inches beneath the surface, then buried to an increased depth of eight to sixteen inches by sand deposited by the outgoing tide. Eggs then remain in the moist sand for a period of around ten days before they are ready to hatch, but do not do so until they are freed from the sand during the next round of high tides and subsequent waves that reach them. Viable eggs will then hatch within a matter of minutes of being dislodged from the sand and submerged in seawater.<sup>2</sup>

### Site Conditions and Proposed Project Activities

The Two Harbors Sand Project site comprises an area of approximately 2.5 acres of existing sand that is currently actively utilized for picnicking, volleyball, kayak rental storage/display and general day use by visitors to Two Harbors (see Exhibit 2 - Site Photos). The Site is bordered by concrete pads and existing buildings to the south, east, and west, as well as an existing sea wall that borders the entirety of the site that faces the beach.

The northwestern corner of the Site is currently utilized as an active haul road for the ingress and egress of utility vehicles to and from the barge that transports materials and waste to and from the Two Harbors beach on a regular basis. Sands and soils present within the areas used as the haul road are highly compacted from visible vehicle use.

The sand that occurs at the Site has a very grainy composition and is very dry to the touch, likely as a result of the site's isolation from tidal influence and its regular recreational use. Additionally, in many areas the sand is only one to four inches deep, or is completely absent; revealing a highly compacted and cobbly soil. No signs of tidal influence, such as debris wracks or erosion were observed within the proposed sand removal area.

The seawall that currently separates the Site from the beach extends uninterrupted for a length of approximately 300 feet along the northern limit of the Site (extending in a northwesterly direction) and is comprised of concrete and cobble and stands at height of two to three feet above the beach below. Seven circular structures occur within the seawall (see Exhibit 2 - Site Photos) and contain one ornamental palm tree respectively. Each cylindrical "container" is completely contained – they are effectively isolated from both the proposed sand removal area as well as the beach by concrete and cobble, constructed in an identical fashion to the seawall. The second northernmost "container" has several cracks within it, which appears to have exposed the inside of the container to tidal influence, however, the areas within the container adjacent to the proposed sand removal area are comprised of a highly compacted soil at a height of approximately two feet above the beach sand below (see Exhibit 2 - Site Photos).

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<sup>2</sup> California Department of Fish and Wildlife. 2015. The Amazing Grunion.  
<https://www.wildlife.ca.gov/Fishing/Ocean/Grunion#28352308-the-amazing-grunion>

## **MEMORANDUM**

**May 3, 2016**

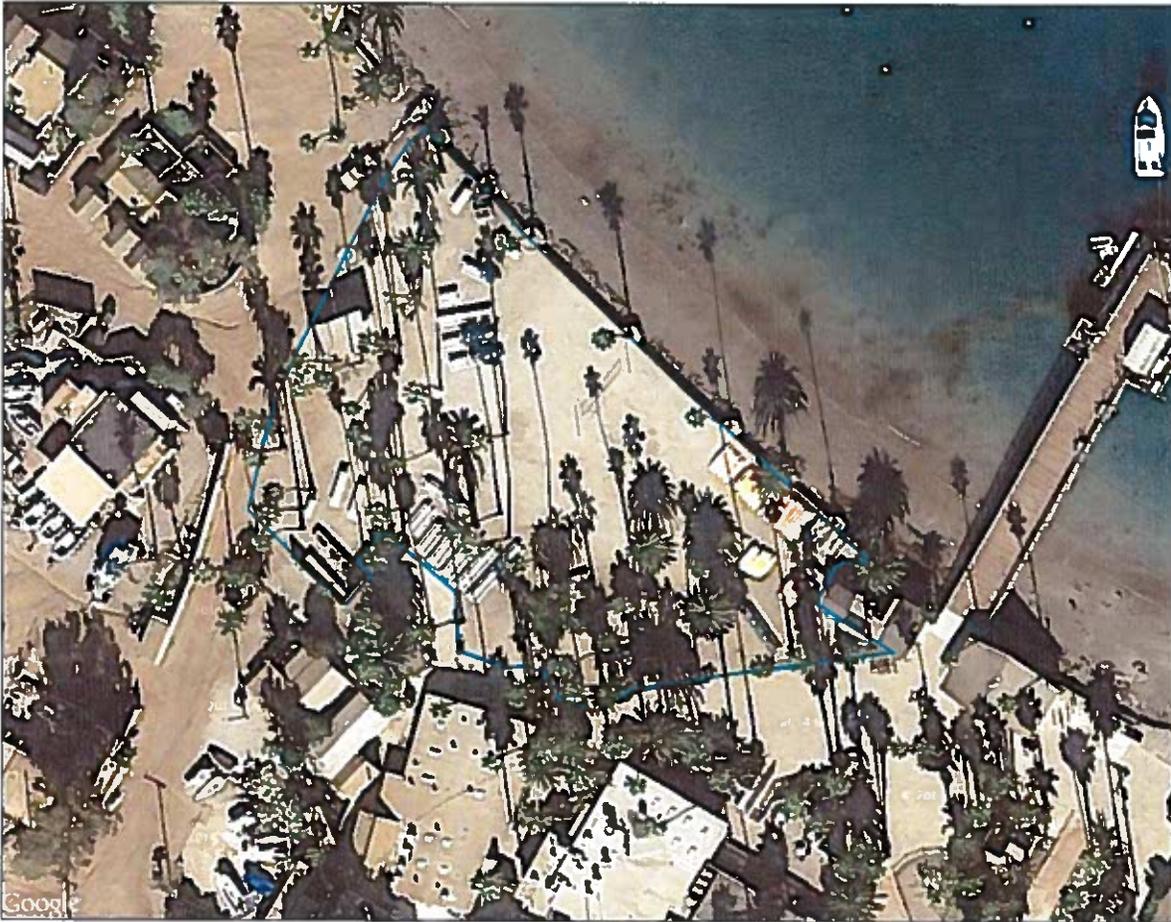
**Page 3**

Per the Site Plan (Appendix A), sand is to be removed from within the proposed removal area (see Exhibit 1), to a depth of twelve inches. Per communication with Jenny Trautman of the Catalina Island Company, excavation of sand would occur no less than twelve inches west (inland) of the sea wall, so as to not risk contacting or damaging the integrity of the seawall. It was also mentioned that excavation and the timing of work would be conducted wholly during daylight hours and would not require working at night and/or the use of any artificial lighting.

### **Conclusion**

In general, suitable grunion spawning habitat is characterized by tidally influenced sandy beaches, grunion's use of which is further limited to those areas directly subject to wave action. The waves which crash on the beach carry the grunion ashore and the resulting saturated/semi-fluid sands allow female grunion to bury themselves deep enough to deposit their eggs. Wave and tidal influence is also critical for grunion spawning in that the resulting dynamic cycle of sand deposition and erosion provides critical refugia and the appropriate timing for the development and ultimate release of buried eggs, which is necessary for completion of the Grunion's life cycle.

In summary, the proposed sand removal area is completely isolated from tidal and wave influence (save perhaps the very rare event of a westerly storm surge). It is also noteworthy that Map 8 for the Santa Catalina Island Local Coastal Program does not identify the project site or its environs as a Grunion spawning area, as depicted on Exhibit 3. Given these factors, and the fact that the proposed work activities would be restricted to daylight hours, no direct or indirect impacts are expected to occur to Grunion that could potentially utilize the Two Harbors beach for spawning purposes.



**Legend**

 Approximate Project Boundary



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**TWO HARBORS SAND PROJECT  
CATALINA ISLAND**

Project Site Map

**GLENN LUKOS ASSOCIATES**



Exhibit 1

[www.gla.com](http://www.gla.com)



Photograph 1: View from midpoint of southern limit of Site looking northwest. Photo depicts existing picnic area, volley ball court, and Two Harbors beach in the distance.



Photograph 2: View from southeast corner of Site looking northwest. Photo depicts existing seawall (Site is to the left), kayak storage, and limit of tidal influence on beach as evidenced by algal debris wracks.



Photograph 3: View looking southeast along southern perimeter of Site. Photo depicts existing concrete pad/limit of excavation at southern limit of Site



Photograph 4: View looking west from beach northwest of the Site. Photo depicts offsite active haul road; Site occurs left/south of the haul road.



GLENN LUKOS ASSOCIATES

Exhibit 2

TWO HARBORS SAND PROJECT  
CATALINA ISLAND

Site Photographs



Photograph 5: View looking west from southern limit of the site. Photo depicts existing concrete pad (Site occurs to the right/north) and current use for picnicking.



Photograph 6: View looking southwest from beach side of seawall structure. Photo depicts concrete/cobble construction and 2-3 foot height above beach (foreground).



Photograph 7: View looking south from beach toward "cracked" portion of sea wall. Photo depicts cracked portion of palm container and extent of tidal influence.



Photograph 8: Detailed view of cracked palm container. Arrow depicts presence of compacted soils inland of container, approximately three feet above beach below.



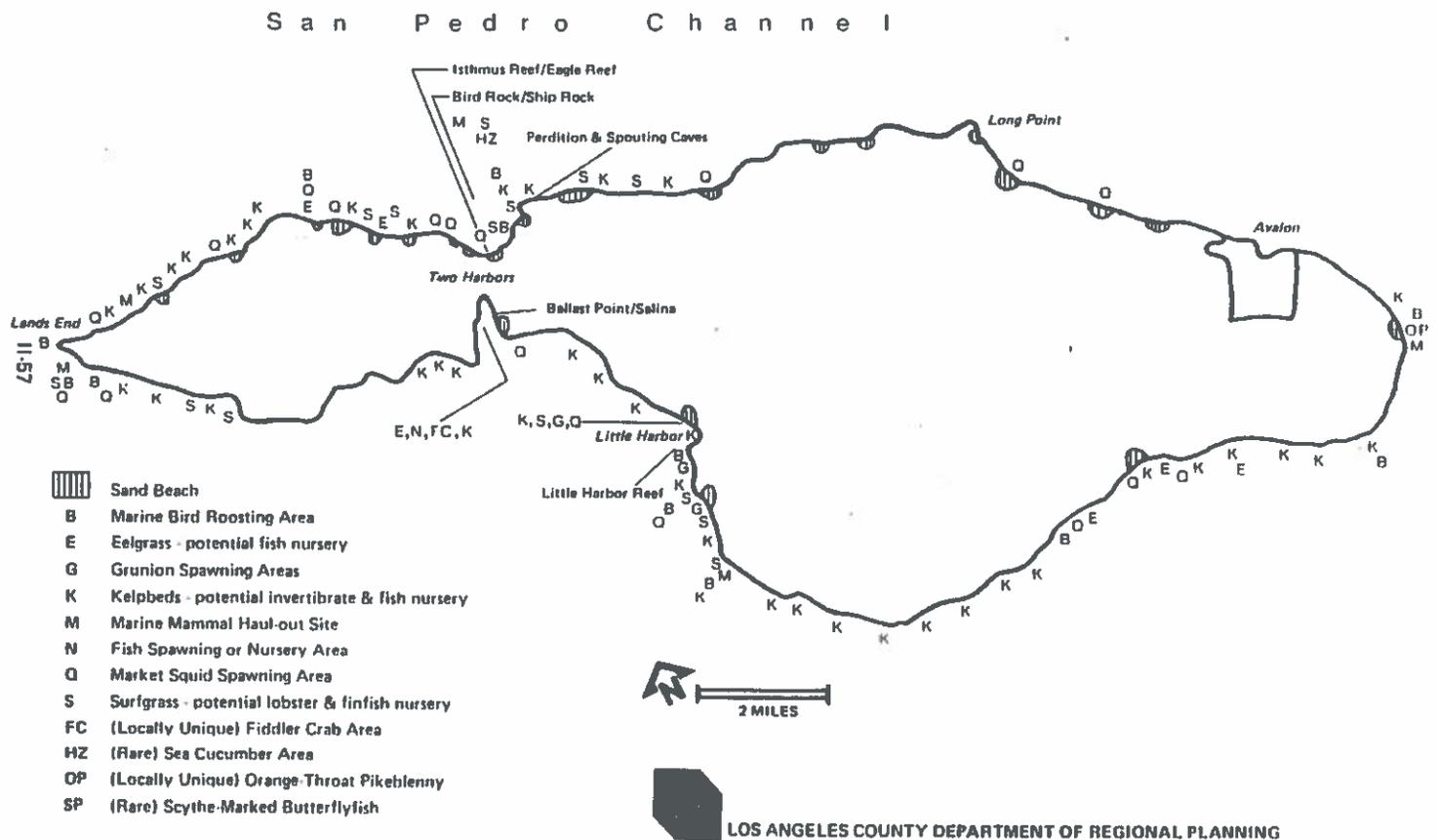
GLENN LUKOS ASSOCIATES

Exhibit 2

TWO HARBORS SAND PROJECT  
CATALINA ISLAND

Site Photographs

MARINE RESOURCES\*



## **APPENDIX A – SITE PLAN**

LOT 88  
APN 7480 040 021

To West End ↑

To West End ↑

ISTHMUS COVE

PROJECT No. 1

PROJECT No. 2

PROJECT No. 3

**PROPOSED PROJECTS**

- 1 NEW BAND @ SEAN BEACH (above sea level)
- 2 NEW 1P x 1P REMEDIATION SHADE STRUCTURES
- 3 EXPANDED LIQUOR LICENSE BOUNDARY

**TWO HARBORS EXISTING DEVELOPMENT**

- LEGEND / CODE**
- L1 BARNS & HOME LODGE
- PUBLIC USES & RECREATION**
- P1 HARBOR MASTER'S OFFICE
  - P2 VISITOR INFORMATION BOOTH
  - P3 POST OFFICE BOOTH
  - P4 PUBLIC RESTROOM
  - P5 PUBLIC RESTROOM
  - P6 GROUP PHONE & BBQ AREA
  - P7 OUTDOOR STAGE
  - P8 TICKET PLACEMENT
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  - U4 GREASE & OIL TRAP
  - U5 SEWERAGE & WASTEWATER VEHICLE PARKING
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**SITE MAP**

