



Sea Engineering, Inc.

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April 20, 2016

Office of Conservation and Coastal Lands
Department of Land and Natural Resources
State of Hawaii
P.O. Box 621
Honolulu, HI 96809

Attn: Brad Romine, PhD

Subject: SSBN MA-15-2, Berm Maintenance Authorization Request, Sugar Cove,
Spreckelsville, Maui, Hawaii, TMK (2) 3-8-002:003 (seaward)

Sea Engineering, Inc. (SEI), in cooperation with the Sugar Cove AOA (SC), is requesting permission to conduct the second berm maintenance activity at Sugar Cove, Spreckelsville, Maui, Hawaii, seaward of Tax Map Key (TMK) (2) 3-8-002:003. The Category II Small Scale Beach Nourishment (SSBN) permit, SSBN MA-15-2, authorizes up to 8,000 cubic yards of sand placement, to be placed as needed during the duration of the 10-year permit, through multiple berm maintenance efforts.

The first placement of sand was in the fall of 2015, at the beginning of the North Pacific swell season in Hawaii. This past North Pacific swell season, spanning 2015 – 2016, has produced some of the largest and most consistent swell recorded by regional wave buoys. North Pacific swell was heavily influenced by strong El Nino conditions, which was one of the most intense El Ninos ever observed in the Pacific. Stronger El Nino conditions result in larger and more frequent North Pacific swell impacting the Hawaiian Islands.

The beach face at Sugar Cove was significantly deflated prior to the first maintenance effort. Following placement of roughly 892 cubic yards of sand during the berm maintenance effort in November 2015, the strong and persistent seasonal swell attacked the berm and redistributed the maintenance sand. Currently, the east end of the beach is significantly fuller than prior to the maintenance effort; however, the middle and west end of the beach have deflated slightly from pre-maintenance levels.

At this time, the placed sand has been consumed and the berm elevation, in general, is less than +10 feet in elevation. This is an identified trigger, in the plan and the permit, for berm maintenance.

Via this letter, SEI and SC are requesting permission to conduct the next berm maintenance effort on the week of May 9 to 13, 2016. Tides are favorable during this week and it will be early enough in the tradewind season to work near the east end of the beach, which is currently inflated. The summer months typically result in sand migration to the west, as waves and longshore currents generated from tradewinds move sand across the cove, so placement at the



east end is beneficial for both the short and long-term maintenance of the cove.

Attached are two maps and two sets of profiles for Sugar Cove. This data was collected on March 16, 2016, and is representative of the current condition of the site. The maps show topographic contours and profile lines in one, and individual spot elevations in the other. The two sets of profiles span the maintenance area in the cove. Profile 4+00 is near Transect 7; Profile 6+00 is near Transect 5; and Profile 7+50 is near Transect 3. Transect 5 is also the beach width trigger, which indicates maintenance is needed when the 0 foot contour is within 100 feet of the steps, as is currently the situation.

Please contact me directly with any questions or comments. You can reach me at 259-7966, ext. 26, or by email at cconger@seaengineering.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Chris Conger', written in a cursive style.

Chris Conger
Project Manager

Enclosure

Cc: Richard Salem, Sugar Cove AOA President