

MINUTE ITEM  
This Calendar Item No. C62  
was approved as Minute Item  
No. 62 by the State Lands  
Commission by a vote of 3  
to 0 at its 6-14-99  
meeting.

INFORMATIONAL  
CALENDAR ITEM

**C62**

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**STAFF REPORT ON THE MONITORING FOR  
POSSIBLE SUBSIDENCE AND SEISMIC HAZARDS,  
LONG BEACH UNIT, WILMINGTON OIL FIELD,  
LOS ANGELES COUNTY**

**PARTY:**

California State Lands Commission  
100 Howe Avenue, Suite 100-South  
Sacramento, CA 95825-8202

**BACKGROUND:**

The City of Long Beach conducts surveys twice each year, in May and November, for the purpose of monitoring changes in ground elevation of the Long Beach tidelands and adjacent areas. The California State Lands Commission's staff reviews and interprets the benchmark elevation data from these semi-annual surveys.

Ground elevation survey data for the 33.5 year period, May 1965 to November 1998, show stable conditions throughout the City and Alamitos Bay areas and some elevation changes in the Harbor District. The latest survey indicates no significant elevation changes in the Civic Center-Central City and the Alamitos Bay area except for a 0.05 foot (0.6 inches) drop along the Newport-Inglewood Fault Zone. The previous six-month survey showed this area increasing in elevation by the same amount. Historical data suggests a cyclical rise and fall of elevations along the Newport-Inglewood Fault Zone to be common. The Harbor District has seen a decrease in elevation of about 0.05 feet (0.6 inches) feet centered along Henry Ford Avenue. This elevation change represents a continued loss of rebound and subsurface compaction associated with the steam flood operations of Port properties acquired from Union Pacific Resources,

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currently operated by Tidelands Oil Production Company. Steam injection was terminated in February 1999 and studies are underway to determine the most effective operating procedures to optimize production and injection while minimizing the loss of rebound and subsurface compaction. The results of the next regular elevation survey, to be conducted in May 1999, will be reported to the Commission after the data have been received and analyzed by the Commission's staff.

Additionally, a network of seven seismic monitoring stations is being operated for the Long Beach Unit under contract with the Geophysical Laboratory of the University of Southern California. No seismic event originated within the Long Beach Unit during the review period, May 1998 to November 1998. The Commission's staff will continue to advise the Commission of any change in seismic activity in the vicinity of the Long Beach Unit.

**EXHIBIT:**

A. Location Map

**PERMIT STREAMLINING ACT DEADLINE:**

N/A.

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