



Legislation Text

File #: 08-0109, **Version:** 1

Recommendation to receive and file the report, "Elevation Changes in the City of Long Beach, May 2007 through October 2007." (Citywide)

The City of Long Beach (City), through the Long Beach Gas and Oil Department (LBGO), supervises oil production and subsidence control operations in the Wilmington Oil Field. LBGO conducts elevation surveys every six months to monitor elevation changes in the oil fields and adjacent City areas. This report focuses on elevation changes that have occurred from May 2007 through October 2007. The LBGO survey includes the following areas: Civic Center, Central City, Alamitos Bay, Naples, Harbor District, and an offshore area encompassing the four offshore oil islands.

The results of the six-month survey show that elevations were stable in the Civic Center, Central City, Alamitos Bay, Naples and offshore areas. Harbor District elevations were stable except in one small area where an elevation gain of up to 0.075 feet (0.90 inches) was observed overlying Pier D. There is no reason for concern as this area had minor elevation increases due to ongoing waterflood adjustments corresponding to oil field development programs. LBGO is mitigating the elevation change in the area by decreasing and realigning water injection as the development program in the area came to an end.

The LBGO survey uses a series of bench marks to determine elevation changes. Studies by the Department's engineers and geologists show that the bench marks may rise and fall in such a manner as to make a survey either optimistic (slightly up in elevation) or pessimistic (slightly down in elevation). These changes in elevations may be associated with tidal cycles, temperature changes, and/or deep earth tectonic changes or repressuring operations. Surface elevations in a rebounded area can be expected to fluctuate under changing water flood conditions.

Principal Deputy City Attorney Charles Parkin reviewed this item on January 21, 2008.

City Council action on this matter is not time critical.

There is no fiscal impact associated with this action.

Approve recommendation.

Christopher J. Garner
Director of Long Beach Gas and Oil

NAME
TITLE

APPROVED:

PATRICK H. WEST

CITY MANAGER