

**STAFF REPORT
C80**

A 70
S 33, 34

04/19/18
W 10443
R. B. Greenwood

**CONSIDER APPROVAL OF SUBSIDENCE MONITORING COSTS FOR
VERTICAL MEASUREMENTS AND STUDIES,
2018-2019 FISCAL YEAR, CITY OF LONG BEACH,
LOS ANGELES COUNTY**

APPLICANT:

City of Long Beach
Long Beach Gas and Oil Department

BACKGROUND:

The City of Long Beach (City) conducts ground elevation measurement surveys and studies twice each year (fall and spring) throughout the Harbor District for the purpose of monitoring changes that may be attributable to subsidence. Costs for conducting these surveys and studies in Long Beach are deducted from the Long Beach Tidelands Oil Revenues, with the prior approval of the Commission in accordance with Chapter 138, Statutes of 1964, First Extraordinary Session, section 1(e). The surveys consist of vertical measurements and studies in the City between July 1, 2018, and June 30, 2019. The City estimates the cost of the work to be:

PROPOSED WORK	RECOMMENDED APPROVAL
GPS Real-Time Network (RTN) Hardware/Software	\$56,650
Management, GPS Evaluation Surveys, and Reports (Staff)	\$581,843
Total	\$638,493

Historically, the primary method for monitoring vertical subsidence in Long Beach has been spirit leveling, a manual survey method that uses an instrument to measure elevation changes between horizontal surfaces. The semi-annual surveys are now being conducted using GPS and RTN technology. Field data collection time has been reduced, and the 800 spirit-leveled benchmarks have been reduced to approximately 240 GPS benchmarks. The projected 2018-2019 total cost is \$638,493, a decrease of \$43,249 (-6.3 percent) over last year's total cost of \$681,742.

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GPS and RTN Hardware/Software

Costs for vertical measurements for Fiscal Year 2018-2019 (\$56,650) have decreased \$4,950 due to firmware for GPS Rovers no longer being available. Remaining expenses include software costs, replacement hardware costs of a GPS base station, and 10 percent contingency for other unforeseen GPS equipment costs or repairs.

Management, GPS Elevation Surveys, and Reports

The Management, GPS Elevation Surveys, and Reports cost category includes costs for GPS elevation surveys by City professional staff and/or contract surveyors, in-house studies, evaluations, report generation, and daily oil field surveillance and monitoring. Actual contracted staff salary and benefit costs for Fiscal Year 2018-2019 (\$581,843) are less than projected staff salaries and contingency costs for expected benefits in Fiscal Year 2017-2018 (\$620,142). Accordingly, actual contracted staff costs were \$38,299 less than projected staff costs.

STAFF RECOMMENDATION:

Staff has reviewed the City's proposal for conducting the ground elevation measurement surveys and studies for the purpose of monitoring changes that may be attributable to subsidence. Staff believes the City's proposal is reasonable and consistent with Chapter 138, Statutes of 1964, First Extraordinary Session. Therefore, staff recommends the Commission approve the proposed subsidence monitoring costs.

OTHER PERTINENT INFORMATION:

1. On June 27, 1979, the Commission approved proposed expenditures for subsidence maintenance and repairs and subsidence studies ([Item 27, June 27, 1979](#)). Exhibit B of that Item included the procedures for performing subsidence studies and reimbursement for associated costs. Work performed under this current 2018-2019 proposal will conform to the standards identified in that document.

2. Subsidence monitoring is consistent with Strategy 1.5 of the Commission's Strategic Plan to ensure the highest level of environmental protection and public safety in the production and transportation of oil and gas resources by applying Key Action 1.5.2, ensuring lease and contract compliance with sound oil and gas development practices in compliance with regulatory and statutory requirements.

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3. Staff recommends that the Commission find that this activity is exempt from the requirements of the California Environmental Quality Act (CEQA) as a categorically exempt project. The project is exempt under Class 6, Information Collection; California Code of Regulations, title 14, section 15306.

EXHIBITS:

- A. Location Map
- B. Cost Estimate 2018-2019 Fiscal Year

RECOMMENDED ACTION:

It is recommended that the Commission:

CEQA FINDING:

Find that this activity is exempt from the requirements of CEQA pursuant to California Code of Regulations, title 14, section 15061 as a categorically exempt project, Class 6, Information Collection; California Code of Regulations, title 14, section 15306.

AUTHORIZATION:

Approve subsidence monitoring costs, as defined in Chapter 138, Statutes of 1964, First Extraordinary Session, section 1(e), as shown on the attached Exhibit B and by this reference made a part hereof, proposed to be expended by the City of Long Beach, for subsidence vertical measurements and studies to be conducted in the Long Beach Harbor District between July 1, 2018, and June 30, 2019, subject to the condition that the work conforms in essential details to the definitions and procedures for such work established by the Commission at its June 27, 1979 meeting, Item 27.

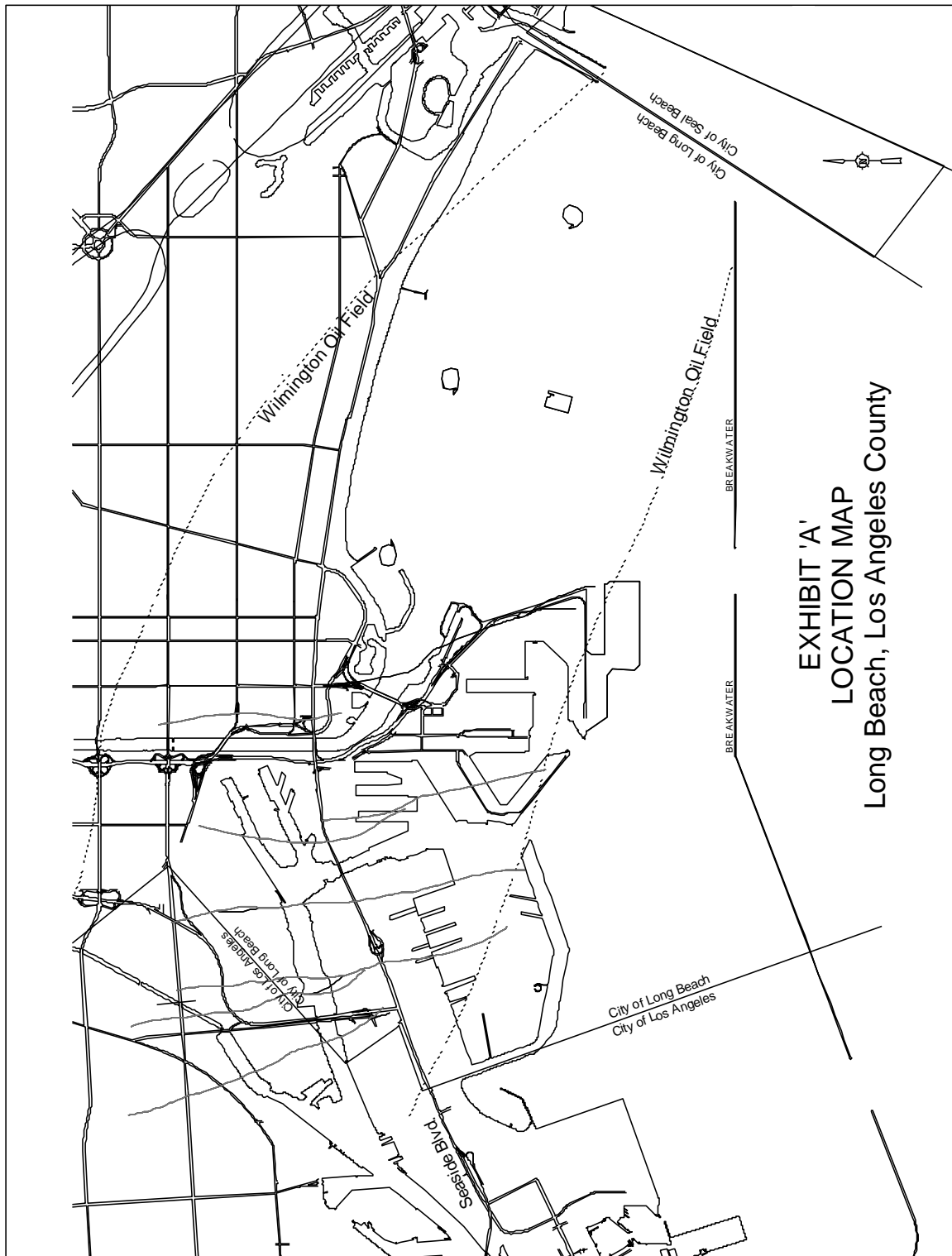


EXHIBIT 'A'
LOCATION MAP
Long Beach, Los Angeles County

EXHIBIT B

W 10443

COST ESTIMATE
LONG BEACH WORK ORDER NO. 10443
Estimates Submitted by City of Long Beach for
Subsidence Vertical and Horizontal Surveys
2018-2019 Fiscal Year

ITEM	PROPOSED WORK	RECOMMENDED APPROVAL
1.	GPS Real-Time Network (RTN)	\$56,650
2.	Management, GPS Evaluation Surveys, and Reports (City Staff)	\$581,843
	Total	\$638,493