



Agenda Item #: \_\_\_\_\_

# Staff Report

## City of Manhattan Beach

**TO:** Honorable Mayor Tell and Members of the City Council

**THROUGH:** David N. Carmany, City Manager

**FROM:** Jim Arndt, Director of Public Works  
Raul Saenz, Utilities Manager

**DATE:** August 2, 2011

**SUBJECT:** Consideration to Approve Plans and Specifications and Authorize City Manager to Seek Bids for a Construction Contract for the Well 11 Rehabilitation Project

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### **RECOMMENDATION:**

Staff recommends that City Council approve plans and specifications for the Rehabilitation of Well No. 11 and authorize City Manager to solicit construction bids.

### **FISCAL IMPLICATION:**

Water Enterprise Funds in the amount of \$230,000 are appropriated by City Council for this project through the fiscal year 2011-2012 Capital Improvement Program.

### **BACKGROUND:**

Well No. 11 is located on the southwest corner of Manhattan Beach Blvd and Green Lane in the City of Redondo Beach. Over the past year, the well's water production capacity has dropped from 2,270 gallons per minute (gpm) to 1,700 gpm. The decreased production capacity may have resulted as a function of mechanical and/or well casing perforation degradation. The exact cause(s) will be determined through visual inspection of the motor/pump assembly when it is pulled from the well head. A video inspection of the well casing will be performed when the motor/pump assembly is removed. While the motor/pump assembly is removed, Staff will perform well down-hole preventative maintenance to assure continued aquifer production capacity.

This project will involve:

- Removal of the 350 horse power motor, discharge head and 300 feet of column/tube/shaft/bowl pump assembly for inspection and determination of replacement needs.
- Down-hole video inspection of 445 feet of well casing and perforations for determination of appropriate down-hole rehabilitation methods.
- Mechanical and chemical agitation of the well casing perforations and immediately adjacent aquifer to restore the well's ability to transmit water.

- Aquifer redevelopment and pump testing aimed at determining the well's maximum production capability.
- Selection of a new motor and pump assembly based on the aquifer redevelopment testing.

**DISCUSSION:**

The fiscal year 2011-2012 Capital Improvement Program includes funding to rehabilitate Well No. 11. If approved by City Council, Staff would proceed to advertise the project for construction bids. Bids will be opened and analyzed in late August, 2011. Staff will return to City Council to recommend approval a contract with the most qualified bidder.

It is likely the City will receive an energy rebate from Southern California Edison for energy savings. The City received a rebate for Well 15. Staff is in discussion With Southern California Edison to determine the timing and amount.

Approval of Plans and Specifications

Plans and specifications for the 2011-2012 Well 11 Rehabilitation Project are in compliance with applicable standards and are available for review in the City Clerk's Office at City Hall.