

**WEST BASIN MUNICIPAL WATER DISTRICT**

**MARCH 8, 2005 – Water Resources**  
Little, Dear  
**MARCH 21, 2005 – Board Meeting**  
Prepared by: Julie Mottin  
Submitted by: Paul Shoenberger  
Approved by: Richard Nagel

## INFORMATION CALENDAR

HYPERION SECONDARY EFFLUENT (HSE) PUMPING CAPACITY EXPANSIONSUMMARY:

Secondary effluent is pumped to the West Basin Water Recycling Plant in El Segundo from the Hyperion Wastewater Treatment Plant (Hyperion) through West Basin's Hyperion Secondary Effluent Pump Station (HSE Pump Station) via a 60-inch diameter transmission main. Currently, the Water Recycling Plant requires deliveries of secondary effluent of up to 32 million gallons per day (MGD). This number is expected to increase with the added demands on the West Basin Recycled Water System, attributable to the expansion of the West Coast Barrier and the additional Title 22 water customers being brought on-line through the Harbor/South Bay Recycled Water System Expansion. In order to match this increased demand, an expansion of the HSE Pump Station is needed.

A feasibility study was completed in June, 2004. Nine sites were identified and evaluated as potential locations for the new pump station (see Exhibit "A"). Alternatives were ranked based upon secondary effluent water quality, comparative cost, stakeholder consensus, impacts to West Basin operations, and anticipated ease of construction (see Exhibit "B"). The highest scoring alternative, Alternative B – Construct new pump station on adjacent Scattergood Power Plant property, received a score of 20.5.

West Basin staff met with the Scattergood Plant manager and engineering staff to discuss the possible location for the new pump station. Following project discussions between the plant manager and the Department of Water and Power planning group, it was decided that the power plant can not relinquish any additional property because of its pending re-powering program.

Staff began to examine the other alternatives. During the feasibility study, a workshop was held with the Hyperion Plant manager and engineering staff to explain the project. A response letter was written by the plant manager (see Exhibit C) identifying four alternatives that Hyperion finds acceptable:

- A - Expand existing West Basin Pump Station,
- B - Construct new pump station on adjacent Scattergood Power Plant property,
- E2- Retrofit former Hyperion Service Water Facility, or
- F - Construct new pump station on adjacent Dockweiler Beach parking area.

Of these four locations, the next highest ranked alternative after Alternative B is Alternative F; however, staff feels that resistance from the California Coastal Commission and environmental organizations will prohibit construction at Dockweiler Beach. Alternative A is ranked third among the locations acceptable to Hyperion and ranked fourth overall. Staff is scheduling a meeting with Hyperion to further discuss expanding the existing West Basin Pump Station.

FISCAL IMPACTS:

Funds for the engineering phase are included in the Capital Improvement Program fiscal year 2004-05 and 2005-06 Budgets.

ENVIRONMENTAL COMPLIANCE:

Environmental compliance measures will be addressed as part of the Project pre-design effort.

COMMITTEE STATUS:

This item was reviewed by the Water Resource Committee on March 8, 2005 and agendaized to the March 21, 2005 Board meeting as information for discussion.

RECOMMENDED MOTION:

This item is for information only.

LIST OF EXHIBITS:

- Exhibit "A" - Alternatives Location Map
- Exhibit "B" - Alternatives Scoring Summary
- Exhibit "C" - Letter from Hyperion