



Street Address:

18700 Ward Street
Fountain Valley, California 92708

Mailing Address:

P. O. Box 20895
Fountain Valley, CA 92728-0895

(714) 963-3058
Fax: (714) 964-9389
www.mwdoc.com

Joan C. Finnegan
President

Jeffery M. Thomas
Vice President

Brett R. Barbre
Director

Wayne A. Clark
Director

Larry D. Dick
Director

Susan Hinman
Director

Ed Royce, Sr.
Director

Kevin P. Hunt, P.E.
General Manager

MEMBER AGENCIES

City of Brea
City of Buena Park
East Orange County Water District
El Toro Water District
Emerald Bay Service District
City of Fountain Valley
City of Garden Grove
Golden State Water Co.
City of Huntington Beach
Irvine Ranch Water District
Laguna Beach County Water District
City of La Habra
City of La Palma
Mesa Consolidated Water District
Moulton Niguel Water District
City of Newport Beach
City of Orange
Orange County Water District
City of San Clemente
City of San Juan Capistrano
Santa Margarita Water District
City of Seal Beach
Serrano Water District
South Coast Water District
Trabuco Canyon Water District
City of Tustin
City of Westminster
Yorba Linda Water District

Statement of Richard B. Bell, PE
Principal Engineer, Municipal Water District of Orange County

before

California Ocean Protection Council
August 22, 2011

Re: Sec 9

- We support the CalDesal position
- We are involved in two ocean desalination projects:
 - South Orange Coastal Project
 - Poseidon Huntington Beach Project
- We have been investigating the feasibility of using Slant Well Intakes for the South Orange Coastal Project working with 5 participating agencies.
- We have also been working with Poseidon and 22 retail water agencies on their Huntington Beach Project. The agencies are supportive of Poseidon's August 5, 2011 statement.
- We have been investigating the feasibility of using alternative intakes for the South Orange Coastal Project.
 - We constructed a Test Slant Well in Spring 2006. An 18-month extending pumping and pilot test is ongoing. Use of a slant wellfield in this location has been determined to be feasible.
 - Slant well beach intakes are an environmental friendly and cost-effective technology however favorable geology is required to use this technology
 - Yield is limited by the permeability of the offshore hydrogeology
- Selection of the best technology is dependent on site specific factors.
- The area's need for additional supplies drives location and size
- Slant wells are a feasible alternative to be considered, but they cannot be used at every location. Other alternatives, such as the use of screened intakes may also have minimal adverse environmental impacts on the marine environment.