

ENGINEERING BOARD OF DIRECTORS' MEETING
AGENDA

MOULTON NIGUEL WATER DISTRICT

27500 La Paz Road, Laguna Niguel

May 18, 2010

9:00 a.m. (PDT)

Approximate Meeting Time: 2 Hours

1. Call Meeting to Order
2. Approve the Minutes of the April 13, 2010 Board of Directors' Meeting
3. Public Comments.
4. Action Items

A. Upper Oso Reservoir Recycled Water Pipeline Extension, Contract 2007.010

The District owns one-fourth of the capacity of the Santa Margarita Water District Upper Oso Reservoir. This seasonal storage is used to allow storage of recycled water supplies during low-demand periods and supplement the recycled water supplies during the high-demand periods. Currently, the District can draw from the Upper Oso Reservoir via two pipelines into the District's service area. The northeast portion of Mission Viejo is served entirely by the feed from Upper Oso Reservoir and is not connected to the remainder of the District's distribution system. The proposed pipeline will extend the existing main line from northeast Mission Viejo and connect to the existing distribution system to allow for direct service into the recycled water 650 pressure zone.

This project comprises approximately two miles of 12-inch/8-inch pipeline between Jeronimo and La Paz Roads in Mission Viejo, including a pressure reducing station and 11 additional services. The proposed project benefits include increasing the District's ability to draw from Upper Oso Reservoir, especially during peak summer demands, expected reduction in operational pumping costs, and retrofit of approximately 70 acre-feet of potable water demand to recycled water. Bids were opened May 6, 2010:

E.J.Meyer	\$1,595,555
Paulus Engineering	\$1,631,125
Bebek Company	\$1,887,335
L & S Construction	\$1,906,266
Kennedy Pipeline	\$2,448,444
ARB, Inc.	\$2,755,938
Doty Bros.	\$2,759,608
RCE Estimate	\$2,091,910

This project will be financed from Fund 12 – Water Supply Reliability Fund. This project will be presented to the Board of Directors for consideration on Thursday, May 20, 2010 with a request to approve a project budget and expense authorization in the amount of \$2,000,000.

B. La Paz Recycled Water Pipeline Extension - Phase 1, Contract 2009.043

Two projects are currently underway to widen La Paz Road between Cabot Road and Chrisanta Drive. For the first project, the City of Laguna Hills, in conjunction with Caltrans and OCTA, is currently finalizing construction documents to widen La Paz Road under the I-5 Freeway. In a coordinated effort with the City’s project, the District has received bids to install a 12-inch pipeline within La Paz Road from Paseo de Valencia to Muirlands Blvd. For the second project, the City of Mission Viejo is currently preparing construction documents to widen La Paz Road and the bridge over the Metrolink Railroad. The District is currently working with city staff on a draft agreement to include a 12-inch pipeline as part of the contract to widen the bridge. The combination of these two projects would be part of an ongoing effort to increase the District’s ability to draw more recycled water from the Upper Oso Reservoir connection in north Mission Viejo and distribute throughout the District’s service area. Upon completion of the two project components, the benefits will include improved system reliability and expected reduction in operational pumping costs.

The City of Laguna Hills is planning to begin their construction efforts by the end of the summer. As such, District staff has expedited the design of the proposed 12-inch pipeline under the I-5 Freeway. The project consists of nearly 4,000 linear feet of 12-inch pipeline and 11 new recycled water services, which serve approximately 103 acre-feet of potable water demand per year, including the remaining Caltrans services within the District’s service area still utilizing potable water. Bids for the contract were opened on May 6, 2010:

E.J.Meyer	\$ 999,999.00
Paulus Engineering	\$1,146,100.00
Bebek Company	\$1,190,615.00
L & S Construction	\$1,205,995.00
T.E. Roberts	\$1,326,570.00
Kennedy Pipeline	\$1,395,888.50
ARB, Inc.	\$1,406,020.00
Doty Bros.	\$2,060,568.50
Tetra Tech Estimate	\$1,190,000.00

The total anticipated cost of both phases of the pipeline installation is \$1,600,000. The first phase of this project, the 12-inch pipeline from Paseo de Valencia to Muirlands Blvd, will be presented to the Board of Directors for consideration on Thursday, May 20, 2010 with a request to approve a total project budget and expense authorization of \$1,230,000. This project will be financed from Fund 12 – Water Supply Reliability Fund.

C. Enterprise Geodatabase Model Development Contract 2009.XXX

The District recently completed an IT Strategic Plan and a GIS Implementation Plan. One of the objectives identified in those documents is to implement a centralized Enterprise GIS to update and maintain the District's assets, integrate with other business systems, i.e. financial systems, billing systems, and CMMS, and develop workflow structures to improve the operational efficiency of the District staff. The existing geodatabase structure, developed in 2003/2004, will not support the long-term business objectives of the District. The developed geodatabase shall be the authoritative geodatabase for the District's infrastructure networks. The objective of the project is to redefine the design of the existing geodatabase structure to better meet the current and future business needs of the District and successfully test the new geodatabase structure using existing portions of the District's potable water, recycled water, wastewater, and basemap attribute data. The project objectives also include defining and documenting the maintenance/editing workflow process utilizing the new geodatabase structure.

The District solicited proposals for consulting services with a defined scope of work to meet the project objectives described above, including staff workshops to define the anticipated business needs of the District as they relate to a fully developed Enterprise GIS and associated infrastructure data. This effort will involve staff from all departments of the District and will be performed in support of and coordinated with the ERP development, the Water Budget-Based Rate Structure, and other business functions of the District. Upon successful completion of the geodatabase design, staff will solicit proposals for the complete data migration to the new geodatabase structure. Proposals were received on May 4, 2010:

DCSE, Inc.	\$ 39,800.00
Nobel Systems, Inc.	\$ 37,129.05
Psomas	\$ 47,442.00
Farallon Geographics	\$ 79,450.00
Engineer's Estimate (in-house)	\$ 75,000.00

The total project budget for the geodatabase design and data migration is \$200,000. The first phase of this project, the geodatabase design, will be presented to the Board of Directors for consideration on Thursday, May 20, 2010 with a request to approve a total project budget and expense authorization of \$50,000.00. This project will be financed from Fund 7 – Replacement and Refurbishment Fund.

5. Informational Items

A. Ongoing Projects' Status

- i. Monthly Construction Progress Report
- ii. Budget vs. Cost-to-Date
- iii. Radio Frequency (RF) Testing Update

B. Future Projects' Status

i. Water Supply Reliability Projects' Status

6. Operations Report

A. Crown Valley Parkway and Alicia Parkway Potable Water Pipeline Break

The District experienced a pipeline break during construction activities to replace old and broken valves as part of Contract 2009.052. The pipeline break occurred at the intersection of Crown Valley Parkway and Alicia Parkway on May 11, 2010. A presentation will be given to discuss the break and the repair activities.

B. Allen-McColloch Pipeline (AMP) Shutdown, June 2010

Metropolitan Water District of Southern California (MWD) plans to shutdown the AMP for an estimated 8 days in June to inspect and possibly replace up to six sections of the pipeline. This will require that the District receive its imported supply via the Joint Transmission Main and adjust its distribution accordingly.

7. Late Items (Appropriate Findings to be Made)

- a. Need to take immediate action; and
- b. Need for action came to District's attention after Agenda Posting
[Requires 2/3 vote (5 members) or unanimous vote if less than 2/3 are present]

8. Adjournment

The Board of Directors' Meeting Room is wheelchair accessible. If you require any special disability related accommodations (i.e., access to an amplified sound system, etc.), please contact the Moulton Niguel Water District Secretary's office at (949) 643-2006 at least seventy-two (72) hours prior to the scheduled meeting. This agenda can be obtained in alternate format upon written request to the Moulton Niguel Water District Secretary seventy-two hours prior to the scheduled meeting.

Agenda exhibits and other writings that are disclosable public records distributed to all, or a majority of, the members of the Moulton Niguel Water District Board of Directors in connection with a matter subject to discussion or consideration at an open meeting of the Board of Directors are available for public inspection at the District Office, 27500 La Paz Road, Laguna Niguel, CA ("District Office"). If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available in the reception area of the District Office at the same time as they are distributed, except that, if such writings are distributed immediately prior to, or during, the meeting, they will be available in the Board meeting room.