

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP
DECEMBER 9, 2014**

DIRECTORS PRESENT

Edward Mandich, Committee Chair

Michael Safranski, Committee Member

STAFF PRESENT

Hector Ruiz, General Manager

Michael Perea, District Secretary

Lorrie Lausten, Engineer

Kris Hanberg, Wastewater Department Superintendent

Neil McKenna, Water Department Superintendent

Bob Beck, Maintenance Department Superintendent

PUBLIC PRESENT

There were members of the public present.

CALL MEETING TO ORDER

Mr. Mandich called the December 9, 2014, Engineering/Operational Committee Meeting to order at 7:00 AM.

VISITOR PARTICIPATION

No comments were received.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

Mr. Safranski had no comments.

Mr. Mandich had no comments.

REPORT FROM THE GENERAL MANAGER

Mr. Ruiz had no comments.

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

Mr. Ruiz presented the October 7, 2014, Engineering/Operational Committee Meeting Recap for Committee review. There were no comments received.

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RECOMMENDED ACTION

The Committee recommended that the Board receive and file the October 7, 2014, Engineering/Operational Committee Meeting Recap (Consent Calendar).

ITEM 2: SHADOW ROCK DETENTION BASIN FACILITY PROJECT

Mr. Ruiz provided a status update on this project, and mentioned that District Wastewater Operations is currently dewatering the basins at the project site due to the recent rain events per the terms of the Agreement with the Contractor. Mr. Ruiz added that District staff's ongoing dewatering has resulted in a significant cost savings to the District as opposed to a project change order. Mr. Ruiz mentioned that due to the wet weather the concrete portion of the project has been delayed. Discussion occurred concerning project timeline for completion and the potential impact of future storm events. Mr. Ruiz mentioned that District staff is currently negotiating with the contractor on the total quantity and costs for the additional earthwork. Discussion occurred concerning the amount of rain in the recent rain event and the amount of water removed from the basins at the project site.

RECOMMENDED ACTION

Received status update, no action taken.

ITEM 3: ALTERNATE RAW WATER TRANSMISSION LINE - PW79

Mr. Ruiz provided a status update on this project, and introduced Mr. Mark Bush and Ms. Luanne Bean of Tetra Tech (Consultant) to the Committee; Mr. Ruiz added that Mr. Bush and Ms. Bean were in attendance to answer any questions that the Committee may have concerning the project. Mr. Ruiz provided a brief history and timeline of the project, the work completed to date, and presented proposed alternative project options in the event the FEMA-approved Alternate No. 2 – Dimension Drive project is not realized due to Southern California Edison's (SCE) notice of denial of easement encroachment. Mr. Ruiz reviewed significant financial factors to consider with a FEMA project which included costs that will not be covered by the approved funding, such as land acquisition, environmental mitigation and potential funding caps. Discussion occurred concerning project design to date and timeline for completion with the current project challenges.

Mr. Ruiz presented four different options for Committee consideration and recommendation to the Board for discussion at the Special Board Meeting:

1. Option 1 – Approved Alternative No. 2

Mr. Ruiz commented that this is the ideal project design due to the work completed to date and that the project is currently approved by FEMA. Mr. Ruiz added that the District is prepared to continue with the project despite SCE's actions, but that it would require formal notification to SCE of condemnation. Mr. Ruiz added that the condemnation process will adversely impact the project by increasing costs and extending the project timeline of the jeopardized transmission line. Discussion occurred concerning the process for condemnation and the associated costs.

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2. Option 2 – Alternate No. 1 | Soil Cement/Stabilization

Mr. Ruiz mentioned that this project design was the next best option for the District in the event Option 1 is unlikely to be completed. Mr. Ruiz added that as part of the FEMA project evaluation process, Tetra Tech has completed preliminary project analysis. Mr. Ruiz added that there are significant challenges and issues with this design, which included Army Corps of Engineer approval, County of Orange and City of Lake Forest permits, unknown environmental mitigation impacts, and National Environmental Policy Act (NEPA) approval process. Discussion occurred concerning the potential costs associated with this project design, including unknown environmental mitigation costs.

3. Option 3 – Alternate No. 5a | Microtunneling

Mr. Ruiz reviewed this project design and associated challenges with the Committee. Mr. Ruiz mentioned that Tetra Tech has completed the preliminary project analysis as part of the FEMA project evaluation process. Discussion occurred concerning project costs, including environmental mitigation costs. Mr. Ruiz mentioned that this project design has significant challenges, such as unknown geotechnical conditions, and project costs for environmental permits.

4. Option 4 – Different Alignment

Mr. Ruiz reviewed the Final Preliminary Design Technical Memorandum, Figure No. 2 (Figure No. 2) with the Committee and highlighted the reviewed options. Mr. Ruiz presented a fourth option in event that none of the other project designs prove to be feasible which would involve collaboration with Irvine Ranch Water District (IRWD) and would avoid the current easement encroachment issues with SCE. Mr. Ruiz mentioned that due to the District's participation in the Baker Water Treatment Plant that this project alignment may be feasible. Mr. Ruiz highlighted the possible transmission line alignment on Figure No. 2 and mentioned that there would be fewer environmental mitigation issues with this project alignment.

Discussion occurred concerning the information presented on the different project options considered by District staff. Mr. Ruiz recommended that District staff continue with Alternative No. 2 and begin the condemnation notification process to SCE concerning the encroachment of their exclusive easement. Mr. Ruiz mentioned that more information would be presented at the time of the Special Board Meeting on December 10, 2014.

RECOMMENDED ACTION

Received status update, no action taken.

ADJOURNMENT

Mr. Mandich adjourned the December 9, 2014, Engineering/Operational Committee Meeting at 7:50 AM. After the adjournment of the Engineering/Operational Committee Meeting, Committee Member Michael Safranski was provided status updates and information concerning District operations and engineering projects.