



TRABUCO CANYON WATER DISTRICT ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | MARCH 7, 2018

DIRECTORS PRESENT

Edward Mandich, Committee Chair
Stephen Dopudja, Committee Member

STAFF PRESENT

Hector Ruiz, General Manager
Michael Perea, District Secretary
Lorrie Lausten, Principal Engineer
Kris Hanberg, Wastewater Department Superintendent
Gary Kessler, Water Department Superintendent
Jason Stroud, Maintenance Department Superintendent
Lisa Sangi, Administrative Assistant

PUBLIC PRESENT

None

CALL MEETING TO ORDER

Director Mandich called the March 7, 2018, Engineering/Operational Committee Meeting to order at 7:01 AM.

VISITOR PARTICIPATION

No comments were received.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

No Committee Member comments were received.

REPORT FROM THE GENERAL MANAGER

No General Manager comments were received.

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

Mr. Ruiz presented the February 7, 2018, Engineering/Operational Committee Meeting Recap for Committee review. Director Mandich expressed concern regarding specific language used related to the Dove and Robinson Ranch Recycled Water Pump Stations Replacement Project and he commented that some of the language in the Recap did not accurately reflect what was discussed. Director Dopudja commented that the language did not represent what was discussed and he recalled that the Technical Memorandum did not include the alternative option at the end of Plano Trabuco as originally requested by the Committee. Discussion occurred concerning District staff's internal process for the preparation and approval of the public meeting minutes prior to presentation to the Committee for review and comment. Director Dopudja requested to speak with Mr. Ruiz and Mr. Perea later concerning the matter. Director Mandich asked Mr. Perea to ensure that the recap is consistent with the Committee's recommendations.

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RECOMMENDED ACTION

The Committee received the information. No action taken.

ITEM 2: DOVE & ROBINSON RANCH RECYCLED WATER PUMP STATIONS REPLACEMENT PROJECT – PHASE 1

Mr. Ruiz provided a status update on this project, and he delivered a PowerPoint presentation concerning the project re-evaluation which was subsequently reviewed with the District Property Ad Hoc Committee. Mr. Ruiz briefly reviewed the District's current recycled water system and storage capacity. Mr. Ruiz highlighted the results of the recycled water system analysis completed by Psomas and reported that the District Property Ad Hoc Committee recommended that District staff plan for the District's recycled water storage needs, including the allocation of recycled water and recovered urban runoff, that was not originally captured in the Technical Memorandum. Mr. Ruiz presented a Draft Recycled Water System Cost Opinions handout for Committee review which compared recycled water system improvement cost options with a 2.5 million gallon (MG) recycled water reservoir option at the District's Porter Property in comparison with another option at the Plano Trabuco property. Discussion occurred concerning challenges associated with the proposed recycled water system improvements as detailed in the Technical Memorandum. Mr. Ruiz recommended that District staff evaluate the recycled water needs and locations for a pump station and reservoir, as well as the recycled water system allocations, rates, and the capital improvement costs for the existing recycled water pump stations. Director Mandich recommended that District staff continue to review the different options for this project. Director Dopudja requested that the Technical Memorandum be amended to include the reviewed options and associated costs.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 3: VIA ALLEGRE WET WELL EXPANSION PROJECT

Ms. Lausten provided a brief update on this project, and he mentioned that the Board awarded the project to GCI at the prior Regular Board Meeting. Ms. Lausten added that GCI was currently on schedule.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 4: ROBINSON RANCH WASTEWATER TREATMENT PLANT SERVICE ROAD REPAIRS AND IMPROVEMENTS

Director Mandich commented that the staff report did not correctly reflect the planned improvements as the project was approved to replace the existing fence, and not increase the fence height; Ms. Lausten commented that the staff report would be updated to correct this error. Ms. Lausten provided a brief status update on this project, and she mentioned that Brightview Landscape is scheduled to start the clearing and grubbing portion of the project the following day. Ms. Lausten added that La Habra Fence Company will start the fence improvement portion of the project after Brightview completes certain portions of the landscape work.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 5: GOREN WASTEWATER TREATMENT PLANT PERMIT MODIFICATIONS

Director Mandich commented that the staff report incorrectly listed the total secondary effluent units of measurement; Mr. Ruiz commented that the staff report would be updated to correct this error. Mr. Ruiz provided a brief status update on this project, and he reported that the Developer is currently working with an electrical contractor to evaluate the onsite generator.

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RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 6: DIMENSION WATER TREATMENT PLANT TRUCK DELIVERY ACCESS IMPROVEMENTS

Ms. Lausten provided a brief update on this project, and she distributed a handout which demonstrated an overview of the planned facility access improvements. Ms. Lausten added that the City of Lake Forest street paving improvement in the area are planned for Spring 2018, and that District staff is working to complete the project before the end of the fiscal year. Discussion occurred concerning vehicle maneuvering impacts to onsite vaults and equipment. Mr. Ruiz reported that the Board approval of the valve improvements at the December 11, 2017, Special Board Meeting, allowed for Water Operations staff to complete the project during the planned Metropolitan Water District of Southern California (MET). Mr. Ruiz added that District staff may need to schedule a Special Board Meeting for this project, if necessary. Discussion occurred concerning City of Lake Forest street improvements and curb painting options.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 7: TRABUCO CANYON WATER DISTRICT'S SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM – PHASE I

Ms. Lausten provided a status update on this project, and she delivered a PowerPoint presentation related to the proposed SCADA upgrades. Ms. Lausten briefly reviewed the findings of the SCADA Assessment as completed by TESCO, and she mentioned that District staff has met with both TESCO and Beavens to review the proposed upgrade costs. Ms. Lausten reviewed the existing SCADA configuration, and she highlighted the limitations of the legacy software system and hardware. Ms. Lausten commented that District staff has completed certain telecommunication improvements with the District's Internet Service Provider at the three primary facilities: the Administration Facility, the Robinson Ranch Wastewater Treatment Plant (WWTP), and the Dimension Water Treatment Plant (DWTP). Ms. Lausten commented that due to the challenges associated with the current configuration and existing legacy hardware, that District staff recommends proceeding with the purchase, installation, and configuration of the proposed server environment and the virtualization of the existing software system. Ms. Lausten highlighted the planned software and hardware improvements and the recommended secure communication improvements, and she reviewed the associated costs with the Committee. Ms. Lausten reviewed the Fiscal Year 2017/2018 Capital Improvement Program Budget for the SCADA improvements, and she recommended that TESCO and Beavens collaborate to implement certain portions of the project. Ms. Lausten briefly highlighted the Phase 3 portion of the SCADA project, which includes a radio study, evaluation of a new SCADA System software solution, implementation of PLC hardware, and developing District standards for the SCADA System. Director Dopudja recommended that District staff consider a cellular option in the Radio Study. Mr. Ruiz briefly summarized the project budget and added that Mr. Perea compared the hardware costs with other recent District hardware purchases. Director Mandich commended District staff for remaining within budget, and he recommended forwarding the matter to the Board of Directors for review.

RECOMMENDED ACTION

The Committee recommended that the matter be forwarded to the Board of Directors for review (Action Calendar).

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ITEM 8: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING ORANGE COUNTY REGIONAL WATER AND WASTEWATER MULTI-HAZARD MITIGATION PLAN

Ms. Lausten provided a brief update on this project, and she reported that the Municipal Water District of Orange County (MWDOC) is scheduled to hold another planning meeting in the coming weeks to further review this matter.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 9: TRABUCO CREEK WATERSHED SANITARY SURVEY UPDATE

Mr. Ruiz presented this matter for Committee review, and he mentioned that this matter was briefly discussed the prior month. Mr. Ruiz reported that District staff met with the consultant that completed the prior Trabuco Creek Watershed Sanitary Survey (Survey) Update, and he reviewed the Division of Drinking Water System Sanitary Survey Findings cover letter and highlighted that one of the findings cited that the District is required to complete the Sanitary Survey every five years to meet regulatory compliance. Mr. Ruiz reviewed the proposal from Water Resources Planning (Consultant) for the Survey Update, including the schedule and the budget, and recommended proceeding with the work as the proposed cost for the Survey Update is within his signing authority. Director Mandich asked why the Survey Update was not completed by the due date of May 2016; Mr. Ruiz responded that the District's Trabuco Creek Groundwater Treatment Facility was not operational at the time due to the statewide drought impacts on the seasonal wells, and that the oversight would be reported in the District's 2017 Consumer Confidence Report (Water Quality Report). Director Mandich asked how District staff internally tracks these types of regulatory requirements; Mr. Kessler suggested that District staff could incorporate the Survey Update at the same time as the routine tank inspections as they are completed every five years. Director Dopudja commented that he did not have a problem with the General Manager proceeding with the Survey Update under his signing authority, but he requested that future agenda item recommended actions provide more clarity.

RECOMMENDED ACTION

The Committee received the information and recommended that the General Manager contract with Water Resources Planning for the completion of the Trabuco Creek Watershed Sanitary Survey for \$23,780 under his signing authority.

ITEM 10: OTHER ENGINEERING AND OPERATIONS PROJECT

1. Ridgeline Booster Pump Station

Ms. Lausten reported that District staff is currently preparing the Request for Proposals to send out by the end of the week, and she mentioned that the Saddle Crest Developer is currently behind schedule. Ms. Lausten added that this matter may require the scheduling of a Special Board Meeting pending receipt of project related bids.

2. Activate Sludge System, Aeration Headers Replacement Project

Mr. Hanberg reported that Wastewater Operations staff is currently working on this necessary project, and he commented that the experience has been rewarding. Mr. Hanberg reported that Wastewater Operations staff recently conducted a tour for a local Boy Scout Den to obtain a construction badge, and he commented that the group enjoyed the experience.

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3. Department of Water Resources Emergency Action Plan Development for Trabuco Canyon Water District Dams

Ms. Lausten presented this matter for Committee review, and she reported that this new regulatory requirement is due by January 1, 2019 and is a result of the recent failure of the Oroville Dam Spillway. Ms. Lausten added that this project is not currently budgeted, but that time is of the essence to start the process of completing the Emergency Action Plan (EAP). Ms. Lausten reported that she procured two (2) bids for the preparation of the EAP from Tetra Tech and Dudek, with a range of \$80,000 to \$90,000, and recommends forwarding this matter to the Board for review. Director Mandich commented that the range in cost is very close. Director Dopudja agreed that time is of the essence on this matter and commented that fewer consulting firms will be available to complete this work for agencies as time proceeds.

4. State Mandated School Lead Sampling Program

Mr. Ruiz provided a brief status update on this project, and he commented that the project would be completed in the month of July during routine Lead and Copper sampling.

5. Emergency Water Supply Reliability

Mr. Ruiz introduced this matter to the Committee, and he commented that the South Orange County Agencies' Group member agencies are currently reviewing this matter.

6. Other Projects

There was no information related to other projects received.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 11: SADDLE CREST DEVELOPMENT (65 DUs | WSL)

Ms. Lausten provided a brief status update on this development, and she mentioned that District staff had recently met with the Developer to review plans for the onsite reservoir and pump station. Ms. Lausten added that she is currently performing the second plan check, and she recommended a full-time inspector for the project-related work due to schedule limitations.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 12: WATER SYSTEM UPDATES

Mr. Kessler reviewed the projects and repairs for February 2018 and provided the additional highlights:

1. Water Department staff painted forty (40) fire hydrants in the Dove Canyon community.
2. Water Department staff worked with a District contractor on the replacement of the sixteen-inch (16") effluent water valve at the Dimension Water Treatment Plant.
3. Water Department staff repaired a two-inch (2") domestic water service line at the Trabuco Oaks Elementary School.
4. Water Department staff painted the exterior of the Topanga Booster Pump Station.

Mr. Kessler reviewed the Monthly Water System Operations Summary with the Committee, and he reported that the District purchased twenty-eight (28) acre feet of treated water from Santa Margarita Water District and forty-four (44) acre feet of treated water from Irvine Ranch Water District during a planned facility shutdown. Director

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Dopudja commended Mr. Kessler and the Water Department for painting the fire hydrants, and he requested that Mr. Kessler inspect the District's air-vac canisters for refurbishment and/or repainting.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 13: WASTEWATER SYSTEM UPDATES

Mr. Hanberg reviewed the projects and repairs for February 2018 and provided the additional highlights:

1. Wastewater Department staff installed the East Sequencing Batch Reactor (SBR) Hoffman Blower airline.
2. Wastewater Department staff replaced eighty (80) feet of one-inch (1") domestic water pipeline at Heritage Sewer Lift Station.

Mr. Hanberg briefly reviewed the Monthly Recycled Water System Operations Summary with the Committee.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 14: OTHER MATTERS/REPORTS

Mr. Ruiz provided a brief update related to the Mountain View Road Pipeline Replacement Project, and he mentioned that certain residents contacted the District after a recent rain event which impacted the road. Mr. Ruiz added that District staff coordinated with Ferreira Construction for the survey and improvement of the road for the benefit of the residents at a cost within his signing authority. Mr. Ruiz reported the residents have expressed their appreciation for the District's work on the road.

RECOMMENDED ACTION

There was no action taken.

ADJOURNMENT

Director Mandich adjourned the March 7, 2018, Engineering/Operational Committee Meeting at 8:26 AM.