



**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | DECEMBER 7, 2016**

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**DIRECTORS PRESENT**

Edward Mandich, Committee Chair  
Don Chadd, Committee Member Alternate

**DIRECTORS ABSENT**

Stephen Dopudja, Committee Member

**STAFF PRESENT**

Michael Perea, District Secretary  
Lorrie Lausten, Engineer  
Lisa Sangi, Administrative Assistant  
Kris Hanberg, Wastewater Department Superintendent  
Gary Kessler, Water Department Chief Plant Operator  
Jason Stroud, Lead Mechanical Technologist

**PUBLIC PRESENT**

None

**CALL MEETING TO ORDER**

Director Mandich called the December 7, 2016, 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**

Director Chadd had no comments.

Director Mandich had no comments.

**REPORT FROM THE GENERAL MANAGER**

Ms. Lausten reported that the General Manager was out of the office and would return the following week.

**ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP**

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The November 2, 2016, Engineering/Operational Committee Meeting Recap was presented to the Committee.

**RECOMMENDED ACTION**

The Committee approved the Meeting Recap, and recommended that the Board receive and file the November 2, 2016, Engineering/Operational Committee Meeting Recap (Consent Calendar).

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**ITEM 2: ALTERNATE RAW WATER TRANSMISSION LINE - PW79**

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Ms. Lausten provided a status update on this project, and mentioned that the construction bids were received on November 29, 2016. Ms. Lausten reported that Paulus Engineering, Inc. (Paulus), was the lowest bidder, but that they have since requested to be withdrawn from consideration due to a mathematical error on their part in the submitted bid. Ms. Lausten added that District staff has discussed this matter with Paulus, and has advised them that they are required to formally submit their Disadvantaged Business Enterprise (DBE) Certification information in compliance with Federal Emergency Management Agency (FEMA) requirements. Discussion occurred concerning the specific mathematical errors in the submitted bid; Ms. Lausten said that Paulus claims that it is a cumulative mathematical error, but noted the cost discrepancy in slurry costs is significant. Director Chadd asked about the Engineer's Cost Estimate for the project and the quality of Paulus' references; Ms. Lausten replied that the Engineer's Cost Estimate is \$1.27M in 2012 dollars, and that Paulus had good references for this type of project. Discussion occurred concerning the FEMA requirement for the withdrawal of Paulus' bid; Ms. Lausten said that District staff has communicated the matter with FEMA and CalOES, and that their requirement for the matter is that the District follow its normal bidding policy and procedure. Ms. Lausten added that the District is waiting for Paulus to respond to the request for the required documents before withdrawing their bid, as well as, the possibility of filing a request for another timeline extension with FEMA before the April 2017 deadline. Discussion occurred concerning project timeline constraints and the timeline for notifying the second lowest bidder of the possibility of their bid awarded by the Board of Directors. Ms. Lausten said that the Construction Management Proposals are due the following week and that the Environmental Management Proposals are due shortly thereafter, in accordance with the Request for Proposals (RFP). Ms. Lausten provided a handout of the Bid Opening Tabulating Sheet for Committee review.

**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

**ITEM 3: BAKER WATER TREATMENT FACILITY**

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Ms. Lausten provided a status update on this project, and mentioned that Irvine Ranch Water District (IRWD) is scheduled to start the Raw Water Pre-Test on December 8, 2016 to test the operating systems and monitor initial water flows to the South County Pipeline System. Ms. Lausten reported that the December 8, 2016 Project Committee Meeting was cancelled. Ms. Lausten provided a handout of the DRAFT Municipal Water District of Orange County (MWDOC) Baker Water Treatment Plant Billing Letter of Understanding for Committee review, and mentioned that this matter may be agendaized for discussion at the December 15, 2016 Santiago Aqueduct Commission Meeting. Director Chadd suggested that a tour of the facility and a review of the operational processes would be beneficial for District staff.

**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

**ITEM 4: OTHER ENGINEERING AND OPERATIONS PROJECTS**

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**1. Supervisory Control and Data Acquisition (SCADA) System – Phase 1**

Ms. Lausten reported that District staff has scheduled site visits with TESCO Controls related to this project beginning in January 2017.

**2. Plano Sewage Lift Station and Plano Water Booster Pump Station Facility Site Security Improvements**

Ms. Lausten reported that William Lyon Homes (Developer) has completed a portion of the fence work, and that the project will likely be completed in the following weeks.

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3. Ridgeline Booster Pump Station Upgrades and Improvements Phase I

Ms. Lausten reported that PSOMAS (Consultant) is currently working with District staff to prepare the DRAFT Technical Memorandum for the planned facility upgrades.

4. Existing Network Infrastructure Upgrade

Mr. Perea reported that District staff is working with Synoptek (District's IT Consultant) on this project, and has currently received all of the project-related software licenses and hardware. Mr. Perea added that he is working with another third-party vendor to determine if the existing location of the network server rack is the most feasible location, or if it would be better served to be relocated to the onsite File Room.

5. Other Projects

Mr. Perea provided a brief update on the Cox Communication Telecommunication Upgrade Project, and explained that District staff is working with Dove Canyon Master Association (DCMA) to procure an easement to install and bring a fiber wire connection to the Robinson Ranch Wastewater Treatment Plant (WWTP) to improve remote network communications and SCADA communications.

**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

**ITEM 5: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING SADDLE CREST DEVELOPMENT (65 DUs)**

Ms. Lausten provided a status update on this development, and reported that District staff is currently working with PSOMAS to prepare the DRAFT Technical Memorandum for the planned upgrades to the Harris Grade Reservoir and Ridgeline Booster Pump Station. Discussion occurred concerning Water Operations Department involvement with the planned upgrades for the District facilities; Director Chadd expressed the importance of Operator review and input for the planned upgrades.

**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

**ITEM 6: ACTIVE DEVELOPMENTS**

1. Dahlia Court Development (36 DUs | WSL)

Ms. Lausten provided a status update on this development, and reported that the Developer has completed the installation of onsite and offsite facilities. Ms. Lausten added that District staff is working with the Developer to provide the remaining water meters and meter boxes.

2. Skyridge Development (84 DUs | WSL)

Ms. Lausten provided a status update on this development, and reported that the Developer has completed the installation of onsite and offsite facilities. Ms. Lausten added that Santa Margarita Water District (SMWD) has placed the construction of the eight-inch recycled water pipeline out to bid with a submittal deadline of December 20, 2016.

3. Oaks at Trabuco, County of Orange (9 DUs | WSL)

Ms. Lausten reported there no updates concerning this development. Discussion occurred concerning the current level of pumping the onsite waste wet well.

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4. Other Active Developments  
None

**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

**ITEM 7: WATER SYSTEM UPDATES**

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Mr. Kessler presented the Water System Status Update through November, 2016, and reported on the following matters:

1. Water Department staff worked with Superior Tank on the construction of the new Cooks Reservoir.
2. Water Department staff rehabilitated filter nos. 1 through 3 at the Dimension Water Treatment Plant (DWTP).
3. Water Department staff removed, repaired, and replaced the backwash sump pump and motor at the DWTP.
4. Water Department staff repaired a severed two-inch air-vac installed on a twenty-four inch main distribution pipeline.

Mr. Kessler provided an updated Monthly Water System Operations Summary report for November 2016 for Committee review. Mr. Kessler added that District staff was called out for the repair of a fire hydrant that was damaged by a vehicle in the Rancho Cielo community. Discussion occurred concerning the District's process for the recovery of costs and losses in this type of incident; Mr. Perea said that District staff is currently working with the Orange County Sheriff's Department for an incident report and will coordinate with the driver's insurance company for the recovery of costs due to the incident.

**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

**ITEM 8: WASTEWATER SYSTEM UPDATES**

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Mr. Hanberg presented the Wastewater System Status update through November, 2016, and reported on the following matters:

1. Wastewater Department staff re-graded the access road at the Porter Property.
2. Wastewater Department staff built new diffuser headers for the Robinson Ranch Wastewater Treatment Plant (WWTP) Aerobic Digester.
3. Wastewater Department staff conducted a tour of the WWTP for local Girl Scouts Brownie Troop.
4. Wastewater Department staff reported the theft of the District's aluminum boat used for Dove Lake Water Quality Monitoring. The boat was located at William Lyon Pond.
5. Wastewater Department staff reported two teenagers fishing on the WWTP Recycled Water Reservoir.

Mr. Hanberg provided an updated Monthly Recycled Water System Operations Summary for November 2016 for Committee review, and reported that the Dove Lake freeboard is currently at 14.3 feet. Mr. Hanberg reported that the District's aluminum boat stored at the WWTP was stolen in November, and was later located at the William Lyon Pond. Discussion occurred concerning security improvements at the WWTP; Mr. Hanberg said that he will work with District staff and vendors to procure quotes for security improvements, including fence line extensions and theft deterrent wire. Director Chadd commented on the importance of the security of the facility and stressed the importance of addressing the matter in light of the boat theft. Ms. Lausten said that she would

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work with Wastewater Operations staff to prepare a scope of work and procuring security improvement proposals.

**RECOMMENDED ACTION**

The Committee received the status update, no action taken.

**ITEM 9: OTHER MATTERS/REPORTS**

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Ms. Lausten has no other matters to report.

**RECOMMENDED ACTION**

The Committee received the information, no action taken.

**ADJOURNMENT**

Director Mandich adjourned the December 7, 2016, Engineering/Operational Committee Meeting at 7:45 AM.