



## **TRABUCO CANYON WATER DISTRICT ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | OCTOBER 2, 2019**

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### **DIRECTORS PRESENT**

Edward Mandich, Committee Chair  
Stephen Dopudja, Committee Member

### **STAFF PRESENT**

Fernando Paludi, General Manager  
Michael Perea, District Secretary  
Lorrie Lausten, Principal Engineer  
Gary Kessler, Water Department Superintendent  
Travis Jones, Wastewater Department Chief Plant Operator  
Jason Stroud, Maintenance Department Superintendent  
Karen Warner, Senior Accountant  
Lisa Sangi, Administrative Assistant

### **PUBLIC PRESENT**

None

### **CALL MEETING TO ORDER**

Director Mandich called the October 2, 2019 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 Dopudja reported his attendance at the Dove Canyon Master Association (DCMA) Dove Plaza Ad Hoc Committee Meeting, and he provided a brief update on matters discussed at the meeting.

Director Mandich had no comments.

### **REPORT FROM THE INTERIM GENERAL MANAGER**

Mr. Paludi reported on his attendance at the Communities Associations of Rancho (CAR) Meeting, and he provided a brief update on the matters discussed at the meeting.

Mr. Paludi provided a brief update on the Water, Wastewater, and Non-Domestic Water Rate and Charges Analysis with Raftelis Financial Consultants.

Mr. Paludi briefly reviewed his planned meeting schedule with the Committee.

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

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Mr. Paludi presented the recap for Committee review in accordance with the agenda.

**RECOMMENDED ACTION**

Director Mandich and Mr. Perea recommended that the Engineering/Operational Committee Meeting Recap be forwarded to the Board of Directors for approval (Consent Calendar).

**ITEM 2: RIDGELINE BOOSTER PUMP STATION IMPROVEMENTS AND CAPACITY INCREASE PROJECT**

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Ms. Lausten provided a brief update on this project, and she reported that District staff is currently in the procurement phase on this project. Ms. Lausten reported that District staff were currently upgrading the District Booster One Pump Station to operate during the construction period at Ridgeline Booster Pump Station. Discussion occurred concerning ongoing discussion with the developer concerning facility improvements in accordance with the construction agreement.

**RECOMMENDED ACTION**

The Committee received the status update. There was no action taken.

**ITEM 3: DOVE AND ROBINSON RANCH RECYCLED WATER PUMP STATION REHABILITATION PROJECT**

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Mr. Paludi presented this matter for Committee review, and he highlighted his recent visit to the facility. Ms. Lausten provided a brief update on this project, and she reported that TESCO Controls was working with District staff to procure certain equipment related to the rehabilitation. Ms. Lausten added that Ferreira Construction was scheduled to install certain appurtenances at the facility, and she provided a project schedule update.

**RECOMMENDED ACTION**

The Committee received the status update. There was no action taken.

**ITEM 4: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING THE URBAN WATER & STORMWATER RUNOFF CONVEYANCE STRUCTURE TO DOVE LAKE**

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Mr. Paludi presented this informational item for Committee review. Mr. Perea provided a brief update concerning the preparation of the Draft Agreement between the District and Trabuco Highlands Community Association (THCA) concerning the repair of the spillway structure and associated easements. Discussion occurred concerning certain terms in the agreement and the potential impacts of adverse weather on project completion.

**RECOMMENDED ACTION**

The Committee recommended forwarding the information to the Board of Directors.

**ITEM 5: DISCUSSION CONCERNING TRABUCO CANYON WATER DISTRICT'S 2019 PLANO SERVICE AREA NON-DOMESTIC WATER ALLOCATION REPORT**

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Mr. Paludi presented this matter for Committee review, and he indicated that District staff has worked with PSOMAS Engineering and District General Legal Counsel in preparing the DRAFT Plano Service Area (PSA) Non-Domestic Water (NDW) Allocation Report (Report). Mr. Perea provided a brief review of the information conveyed in the Report, and he reported that the Technical Memorandum prepared by PSOMAS demonstrates the District's management of NDW sources. Discussion occurred concerning the NDW allocation methodology recommended in the Report.

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**RECOMMENDED ACTION**

The Committee received the information concerning the matter and recommended forwarding the DRAFT Trabuco Canyon Water District 2019 Plano Service Area Non-Domestic Water Allocation Report to the Board of Directors for review and comment (Action Calendar).

**ITEM 6: DISCUSSION CONCERNING BELL CANYON SEWER LIFT STATION REHABILITATION PROJECT**

Ms. Lausten presented this matter for Committee consideration, and she reported that this facility was currently in emergency operations. Ms. Lausten reported that the facility experienced critical operational failures, both mechanical and electrical, during the Labor Day Weekend which required emergency response by District staff. Ms. Lausten presented photographs of the facility issues for Committee review. Discussion occurred concerning potential impacts related to long lead times on the procurement and fulfillment of equipment for facility improvements and District Procurement Policy compliance efforts. Ms. Lausten recommended the District contract with JIG Consultants for engineering design services for the rehabilitation of the facility.

**RECOMMENDED ACTION**

The Committee recommended the Board of Directors authorize the General Manager to execute a contract with JIG Consultant for the Engineering Design Services for Bell Canyon Lift Station Rehabilitation in the amount of \$71,845 (Action Calendar).

**ITEM 7: DISCUSSION CONCERNING TRABUCO CANYON WATER DISTRICT'S GROUNDWATER FEASIBILITY STUDY**

Mr. Paludi presented this matter for Committee review, and he highlighted his recent site visit to the facility with District staff. Mr. Perea reported that the District contracted with Woodard & Curran to compile and synthesize previously prepared feasibility studies with historical and current data to determine the feasibility of groundwater exploration on the District's lower Porter Property in Trabuco Canyon. Ms. Lausten briefly reviewed the findings in the DRAFT Feasibility Study with the Committee. Discussion occurred concerning further cost benefit analyses to determine the feasibility of groundwater exploration and the total costs for onsite test wells at the District-owned property.

**RECOMMENDED ACTION**

The Committee received the status update. No action was taken.

**ITEM 8: DISCUSSION CONCERNING TRABUCO CANYON WATER DISTRICT'S 2019 SEWER SYSTEM MANAGEMENT PLAN (SSMP) UPDATE**

Mr. Paludi presented this matter for Committee review, and he mentioned that District staff are currently updating the 2014 Sewer System Management Plan (SSMP). Mr. Perea reported that District staff has reached out to South Orange County Wastewater Authority (SOCWA) staff concerning the SSMP update to determine the substantive policy requirements which need to be incorporated in the SSMP. Mr. Perea added that the SSMP is required to be updated and adopted by the Board of Directors every five years, and the goal is to present the final update version to the Board at the December 18, 2019 Regular Board Meeting. Discussion occurred concerning certain adopted State Water Resources Control Board Waste Discharge Requirement updates since the prior SSMP was adopted by the Board.

**RECOMMENDED ACTION**

The Committee received the status update. No action was taken.

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**ITEM 9: OTHER ENGINEERING AND OPERATIONS PROJECTS**

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**1. SCADA Field Radio Study**

Ms. Lausten provided a brief project update for Committee review, and she reported that District staff will be working with TESCO Controls on the Field Radio Study in November 2019. Discussion occurred concerning certain SCADA telemetry system planned upgrades. Ms. Lausten added that District staff are currently in the software evaluation phase of the project

**2. Dove Canyon Pressure Reducing Valve (PRV) Stations**

Ms. Lausten reported that Ferreira Construction was scheduled to start this project at the end of the month.

**3. Water Loss Audit Update – Calendar Year 2018**

Ms. Lausten reported that the District has participated in this compliance program with the assistance of Municipal Water District of Orange County (MWDOC) for the last three years. Ms. Lausten added that the District was selected by MWDOC to participate in a grant-funded water leak detection pilot program that would start at the end of the week.

**4. Dam Emergency Action Plan (EAP) & Inundation Studies**

Ms. Lausten provided a brief update on this project, and she reported that the final Dam Emergency Action Plan and Inundation Studies for both Trabuco Dam and Dove Dam will be submitted to the Division of Dam Safety at the beginning of 2020.

**5. Harris Grade Reservoir Feasibility Study**

Ms. Lausten presented this matter for Committee consideration, and she mentioned that District staff is currently evaluating the feasibility of replacing one of the existing tanks with a larger 2.5 million-gallon tank. Ms. Lausten reported that District staff is currently developing a scope of work and a request for proposals.

**6. Other Projects**

Mr. Paludi provided a brief update on a proposed Irvine Ranch Water District (IRWD) water reliability pilot program utilizing water in Irvine Lake. Discussion occurred concerning the proposed pilot program goals and costs.

**RECOMMENDED ACTION**

The Committee received the status update. No action was taken.

**ITEM 10: SADDLE CREST DEVELOPMENT (65 DUs)**

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Ms. Lausten provided a brief update on this development, and she reviewed the August 2019 Construction Report with the Committee. Ms. Lausten reported that the construction of the onsite domestic water reservoir was completed, and the construction of the onsite pump station was almost completed. Discussion occurred concerning delays related to permanent electrical power from Southern California Edison (SCE) to the development.

**RECOMMENDED ACTION**

The Committee received the status update. There was no action taken.

**ITEM 11: SADDLEBACK MEADOWS DEVELOPMENT (167 DUs)**

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Ms. Lausten provided a brief update on this development, and she reported that District staff has worked with PSOMAS Engineering on domestic water storage analysis. Discussion occurred concerning the potential impacts to the District's domestic water system with and without an onsite reservoir, and the importance of completing the Reservoir Feasibility Study for the District's Harris Grade Reservoir

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**RECOMMENDED ACTION**

The Committee received the status update. There was no action taken.

**ITEM 12: WATER SYSTEM UPDATES**

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Mr. Kessler reviewed the projects and repairs for September 2019, and he provided the additional highlights:

1. Water Operations staff replaced a blow off valve on Caminito Drive in the Rancho Cielo community.
2. Water Operations staff replaced a blow off valve on Cozy Glen Drive in the Robinson Ranch community.
3. Water Operations staff replaced a fire hydrant on Summit Crest.
4. Water Operations staff finished dead end flushing in the Rancho Cielo and Walden Homes communities

Mr. Kessler reviewed the Monthly Water System Operations Summary with the Committee, and he presented a piece of the emergency pipeline repair from the El Toro Bike Trail Pipeline Repair. Discussion occurred concerning fire hydrant inspections and repair.

**RECOMMENDED ACTION**

The Committee received the status update. There was no action taken.

**ITEM 13: WASTEWATER SYSTEM UPDATES**

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Mr. Jones reviewed the projects and repairs for September 2019, and he provided the additional highlights:

1. Wastewater Operations staff cleaned the following Sewer Lift Station (SLS) wet wells: Heritage SLS, Barneburg SLS, Via Allegre SLS, Bell Canyon SLS.
2. Wastewater Operations staff completed the laboratory proficiency test for ELAP Certification.
3. Wastewater Operations staff worked with Brightview Landscape on clearing Trabuco and Dove Dams and Shadow Rock Detention Basin Facility.

Mr. Jones reviewed the Monthly Wastewater System Operations Summary with the Committee.

**RECOMMENDED ACTION**

The Committee received the status update. There was no action taken.

**ITEM 14: MAINTENANCE DEPARTMENT UPDATES**

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Mr. Stroud reviewed the projects and repairs for September 2019, and he provided the additional highlights:

1. Maintenance Department staff responded to emergency repair at Bell Canyon Sewer Lift Station over the Labor Day Holiday.
2. Maintenance Department staff worked with Hydrotech Electrical rehabilitating Booster One Pump Station at the Field Office in preparation of the shutdown of Ridgeline Booster Pump Station.
3. Maintenance Department staff completed emergency repair of a Sutorbilt Blower at the Robinson Ranch Wastewater Treatment Plant.
4. Maintenance Department staff worked with Wastewater Operations to clean the Dove Creek Dry Season Recovery Station wet well.

Mr. Stroud reported that the District's new purchased Vactor truck is scheduled to be delivered at the end of the month.

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**RECOMMENDED ACTION**

The Committee received the status update. There was no action taken.

**ITEM 15: OTHER MATTERS/REPORTS**

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There were no other matters to report.

Discussion occurred concerning the community emergency access points in the District service area.

**RECOMMENDED ACTION**

There was no action taken.

**ADJOURNMENT**

Director Mandich adjourned the October 2, 2019 Engineering/Operational Committee Meeting at 8:12 AM.