



TRABUCO CANYON WATER DISTRICT ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | JULY 7, 2021

DIRECTORS PRESENT

Ed Mandich, Committee Chair
Stephen Dopudja, Committee Member

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Lorrie Lausten, District Engineer
Karen Warner, Principal Accountant
Gary Kessler, Water Department Superintendent
Jason Stroud, Maintenance Superintendent
Lisa Marie Sangi, Executive Assistant

PUBLIC PRESENT

Lewis Smith, Tesco Controls

PUBLIC PRESENT VIA CONFERNECE CALL

Keith Webb, Tesco Controls

CALL MEETING TO ORDER

Director Mandich called the July 7, 2021 Engineering/Operational Committee Meeting to order at 7:02 AM. Public access to the meeting was made available by video broadcast.

VISITOR PARTICIPATION

No comments were received.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

Director Mandich asked to move Item 6, after Item 1.

REPORT FROM THE GENERAL MANAGER

Mr. Paludi introduced Mr. Lewis Smith, Tesco Controls.
Mr. Paludi also mentioned that Jason Stroud, Maintenance Superintendent was out of the office.

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

Mr. Paludi presented the Engineering/Operational Committee Meeting Recap for Committee review in accordance with the agenda.

RECOMMENDED ACTION

The Committee recommended that the Engineering/Operational Committee Meeting Recap(s) be forwarded to the Board of Directors for approval (Consent Calendar).

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | JULY 7, 2021**

ITEM 6: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING SCADA UPGRADE PROJECT

Mr. Paludi introduced this action item for Committee consideration. Ms. Lausten reviewed the project for the current fiscal year which included the upgrade of all of the remote sites. Ms. Lausten discussed the recent issue at Dimension Water Treatment Plant (DWTP) prompted staff to revise the schedule to make the DWTP a priority and upgrade the remaining remote sites in Fiscal Year 22/23. Mr. Lewis Smith, Tesco Controls reviewed the PowerPoint presentation and mentioned the upcoming fiscal year project timelines. There was a brief discussion on the map, schedule and radio communication links. Ms. Lausten indicated that the scope of work changed for Fiscal Year 21/22 but the budget remained the same.

RECOMMENDED ACTION:

Committee to recommend that the Board of Directors authorize the General Manager to execute a Contract for the Fiscal Year 2021-2022 SCADA Upgrades to TESCO Controls, Inc. in the not to exceed amount of \$998,500.00 (Action Calendar).

ITEM 2: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING BELL CANYON SEWER LIFT STATION REHABILITATION PROJECT

Ms. Lausten provided brief project status update to the Committee, she highlighted the project construction timeline, the generator and pump start-up schedules, removal of the bypass pump and temporary fence. Ms. Lausten mentioned that paving would be done by Dove Canyon Master Association in August 2021 and reviewed the change orders and credits. There was a brief discussion on the old generator being non-compliant and ability to repurpose the surge tank.

RECOMMENDED ACTION:

Committee to recommend that the Board of Directors authorize the General Manager to execute the Contract Change Order No. 1 to Ferreira Construction for the Bell Canyon Lift Station Rehabilitation Project in the amount of \$28,583.05 (Action Calendar).

ITEM 3: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING GOLF CLUB SEWER LIFT STATION IMPROVEMENTS

Mr. Paludi introduced this matter to the Committee, he mentioned the critical upcoming work of installing the sewage bypass. Ms. Lausten reviewed the sewer bypass plan, which serves dual purpose to support the motor control center (MCC) installation and to provide an emergency bypass pumping system.

RECOMMENDED ACTION:

Committee to recommend that the Board of Directors authorize the General Manager award a Contract to Ferreira Construction for the Sewer Bypass Installation for Golf Club Sewer Lift Station for \$78,500 with a 10% contingency of \$7,850, for a total not-to-exceed fee of \$86,350 (Action Calendar).

ITEM 4: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING DIMENSION WATER TREATMENT PLANT BACKWASH TANK REPLACEMENT PROJECT

Mr. Paludi introduced this matter to the Committee. Ms. Lausten reviewed the project photos. Mr. Kessler mentioned that due to the steel under the concrete base, the floor was leaking and there will be a change order for this repair.

RECOMMENDED ACTION:

Committee to receive information at the time of the Committee Meeting.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | JULY 7, 2021**

ITEM 5: DISCUSSION AND POSSIBLE ACTION CONCERNING ASSET MANAGEMENT SOFTWARE PURCHASE

Mr. Paludi introduced this matter for Committee consideration, he reviewed the vendors and different CMMS packages. Ms. Lausten worked with MKN and Associates for selecting the CMMS companies, as well as collaboration with District Operations staff on the vendor selection process. Mr. Perea mentioned the challenges of multiple systems and reaching out to other agencies was helpful on making the decision to select Cartegraph.

RECOMMENDED ACTION:

Committee to recommend that the Board of Directors authorize the General Manager award a five -year contract to Cartegraph for the Computerized Maintenance - Management System Software for a not-to-exceed fee of \$100,367.

ITEM 7: OTHER ENGINEERING AND OPERATIONS PROJECTS

1. Master Plan and Condition Assessment Update

Ms. Paludi provided a scope of work handout to the Committee, requesting their feedback prior to the request for proposal (RFP). Ms. Lausten highlighted various item on the scope of work, along with the condition assessment and update to the executive summary. There was a brief discussion on an RFP for GIS consultants. There was further discussion on the sewer invert survey data and the timeline for particular items.

2. Heritage Sewer Lift Station Improvements

Mr. Paludi introduced this matter to the Committee. Ms. Lausten mentioned the timeline of receiving the plans and the repairs that will be going out to bid. Mr. Perea commented on the sewer spill, manhole location and the repair of the wet well.

3. Oaks at Trabuco Update

Mr. Perea provided an update, he mentioned that one of the homes water softener had failed and filled the tank. District staff worked with OC Pumping to assist at the Crystal Canyon WWTP. There was a discussion on flows to the facility, and a flow meter that was previously discussed with the Developer which is still not installed.

4. Other Projects

Mr. Paludi mentioned that the District was working with OC Rescue Mission. District staff met with them onsite to discuss their upcoming property improvements, which the District will determine the service location to these areas. There was a brief discussion on the current service to this property and the need for future underground research.

RECOMMENDED ACTION

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

ITEM 8: WATER SYSTEM UPDATES

Mr. Kessler reviewed the projects and repairs for June 2021, and he provided the additional highlights:

1. Water Operations staff replaced the effluent valve on Filter Three (3), influent valves on Filters; One (1), Three (3) and Four (4), and check valves on Filters one (1) and three (3).
2. Water Operations staff replaced one (1) fire hydrant on the El Toro Bike Trail and converted one (1) dry barrel hydrant to wet barrel on Fall River Road in the Trabuco Highlands Community.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | JULY 7, 2021**

3. Water Operations staff worked with the Maintenance Department to replace one (1) pump motor and service all flow control valves at the Field Office.
4. Water Operations staff worked with Superior Tank and their subcontractors to clean out and remove existing Backwash Recovery Tanks and removed the old abandon wet well.
5. The Dimension Water Treatment Plant was taken offline at 10:00 am on June 18, 2021.

Mr. Kessler mentioned the meter being replaced at The Oaks Development. The DWTP is operating at 5 CFS. There was a brief discussion on the operation of the Wells, seasonal timeline for the rehabilitation of the facility and procurement lead time.

RECOMMENDED ACTION

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

ITEM 9: WASTEWATER SYSTEM UPDATES

Mr. Perea reviewed the projects and repairs for June 2021, and he reported that Wastewater Operations staff had completed the following tasks:

1. Responded to a Category 3 Sanitary Sewer Overflow (SSO) [*<1,000 gallons*] at the intersection of Robinson Ranch and High Country on Saturday, June 26. The SSO was caused by a clog of solidified detergent and debris. Currently, Operations and Maintenance are working with DMc Engineering to perform a condition assessment (video) of the segment of pipeline to determine its condition.
2. Drained, cleaned, and performed aeration system repairs/improvements on the WWTP West Sequencing Batch Reactor (SBR) due to the failure of a significant amount of diffuser sheaths and performed minor aeration header repairs.
3. Responded to filled tanks at the Crystal Canyon WWTP in The Oaks private community due to a residential water softener system valve failure.
4. Worked with SS Mechanical to remove and install a temporary surge tank assembly at El Toro Sewer Lift Station due to the failure of the existing surge tank assembly.
5. Worked with Maintenance Department staff to install a new stainless-steel cabinet for secondary effluent turbidimeter and replaced a section of ductile iron pipe.,
6. Lead Wastewater System Operator Blake Smith successfully passed his CWEA Laboratory Analyst I certificate exam.

Mr. Perea reported that recycled water use has increased this year, and there has been no use of supplemental domestic water.

RECOMMENDED ACTION

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

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | JULY 7, 2021**

ITEM 10: MAINTENANCE DEPARTMENT UPDATES

Mr. Perea reviewed the projects and repairs for June 2021, and he provided the additional highlights:

1. Maintenance Department staff scheduled work at the Field Office (booster one) with the following contractors: Flo-Services, CLA-VAL and Hydrotech Electric.
2. Maintenance Department staff performed ongoing Preventative Maintenance on the emergency generators with Duthie Electric Power Services.
3. Maintenance Department staff scheduled Hydrotech Electric to work on the SCADA upgrades at the Joplin site.
4. Maintenance Department staff procured one new Godwin mobile transfer pump from Zylem.
5. Maintenance Department staff procured one new Cummins powered mobile diesel generator.
6. Maintenance Department staff assisted Wastewater Operations with the repairs at the Robinson Ranch Wastewater Plat, West SBR (aeration header failed).
7. Maintenance Department staff continued work at the Robinson Ranch Wastewater Plant troubleshooting electrical issues and repairs.
8. Maintenance Department staff worked with consultant, JIG Engineering to start a Surge Analysis Report to replace the damaged surge tank at El Toro Sewer Lift Station (which is offline and bypassed until further notice).

Mr. Perea mentioned that the lead time for the generator is the twenty-four (24) to twenty-eight (2) weeks.

RECOMMENDED ACTION

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

ITEM 11: OTHER MATTERS/REPORTS

None.

RECOMMENDED ACTION

There was no action taken.

ADJOURNMENT

Director Mandich adjourned the July 7, 2021 Engineering/Operational Committee Meeting at 8:19 AM.