



TRABUCO CANYON WATER DISTRICT

ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | FEBRUARY 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

PUBLIC PRESENT

Karl Seckel, Assistant General Manager, Municipal Water District of Orange County
Derrick Betts, District Customer

CALL MEETING TO ORDER

Director Mandich called the February 7, 2018, Engineering/Operational Committee Meeting to order at 7:00 AM.

VISITOR PARTICIPATION

Mr. Derrick Betts presented a speaker card to the Committee to comment on Item No. 10.2 Easement Relinquishment – Request at 21532 High Country Drive, Trabuco Canyon.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

No comments were received.

REPORT FROM THE GENERAL MANAGER

No comments were received.

ITEM 10: OTHER ENGINEERING AND OPERATIONS PROJECTS

2. Easement Relinquishment – Request at 21532 High Country Drive, Trabuco Canyon

Mr. Derrick Betts, Resident at 21532 High Country Drive, approached the Committee concerning the matter, and requested the relinquishment of the District's easement on his property. Mr. Betts added that the easement creates a hindrance for the property. Ms. Lausten reported that this matter was previously reviewed with the Committee and the Board. Ms. Lausten provided a handout of the tract map of the property and a new handout provided by Mr. Betts which showed the easement locations and his proposed wall. Ms. Lausten reported that District staff confirmed that the easement is for sewer only, and that District staff has walked the property to identify the location of the easement. Director Mandich recommended further discussion with the Board prior to recommending any action on this matter. Director Dopudja cautioned District staff on setting a precedent with relinquishing a District easement, but recommended that this matter be forwarded to the Board for further review.

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6. Emergency Water Supply Reliability

Mr. Karl Seckel, Assistant General Manager, Municipal Water District of Orange County (MWDOC), delivered a presentation concerning MWDOC's Reliability Study Update which focused on the South Orange County Agencies' emergency reliability needs. Mr. Seckel reported that MWDOC was seeking member agency perspective, and each member agency's water supply reliability gaps and requirements. Mr. Seckel mentioned that there was no consensus on the overall individual agency water supply requirements to date. Mr. Seckel briefly highlighted the learned lessons from recent environmental challenges, such as droughts and earthquakes, in relation to impacts on Metropolitan Water District of Southern California (MET) water supplies. Mr. Seckel discussed agency emergency water supply reliability, and mentioned that MET has indicated that up to a sixty (60) shutdown should be considered in the event of disaster or external threats to water supplies. Discussion occurred concerning the different challenges for North and South County Agencies and possible scenarios and the importance of regional reliability projects. Mr. Seckel highlighted the South Orange County Interconnection, the Baker Water Treatment Plant, and the proposed Doheny Desalter Water Project as local reliability projects. Director Dopudja commented that the highlighted scenarios would have a significant impact on certain industries critical functions, such as the nurseries in the District's service area. Discussion occurred concerning scenario assumptions and potential inter-agency opportunities in order to meet extended emergency water supply needs. Mr. Seckel commented that MWDOC staff will be working with member agencies to identify future emergency water supply reliability needs. Director Dopudja expressed his appreciation to Mr. Seckel for presenting the information, and mentioned that the matter raises additional questions related to agency planning strategies. Director Mandich thanked Mr. Seckel for the presentation to the Committee and District staff.

1. Activated Sludge System, Aeration Headers Replacement Project

Mr. Hanberg reported that Wastewater Operations has completed the replacement of the West Sequencing Batch Reactor (SBR) Hoffman airline at the Robinson Ranch Wastewater Treatment Plant. Mr. Hanberg added that the East SBR Hoffman airline is scheduled for replacement in between normal operations work. Director Mandich requested that Mr. Hanberg forward project status photographs to the Committee.

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

Ms. Lausten presented this matter for Committee review, and mentioned that as a result of failure of the Oroville Spillway and the passage of Senate Bill 92, the Department of Water Resources (DWR) is requiring the agencies and owners of dams throughout the State develop an Emergency Action Plan. Ms. Lausten added that the District is required to submit its Emergency Action Plan to DWR by January 1, 2019. Mr. Ruiz reported that District staff is procuring proposals to complete a full analysis of the District's dams, including the preparation of new inundation maps. Mr. Ruiz added that this matter was not budgeted in the Fiscal Year 2017/2018 Capital Improvement Program, but that District staff will return with additional information at a future Engineering/Operational Committee Meeting.

4. Update of the 2011 Trabuco Creek Watershed Sanitary Survey

Mr. Ruiz presented this matter to the Committee, and commented that a Watershed Sanitary Survey (Survey) for Trabuco Creek is required every five (5) years. Mr. Ruiz added that an update of the 2011 Survey was required to be completed in 2016, but that the wells were not operational due to the Drought and District staff had not anticipated the need for the Survey at that time. Mr. Ruiz mentioned that District staff will be meeting with the original consultant that prepared the 2011 Survey to discuss the Survey Report.

5. State Mandated School Lead Sampling Program

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Mr. Ruiz presented this matter for Committee review, and mentioned that Mr. Kessler is managing this project. Mr. Kessler reported that the purpose of the State Mandated School Lead Sampling Program (Program) is to identify any lead pipelines in the District's system by 2020. Discussion occurred concerning the composition of pipe fittings; Mr. Kessler commented that due to stringent State anti-lead requirements for water appurtenances, such as pipelines, valves, and water meters, the District only purchases and installs pipes and fittings that are lead-free.

7. Other Projects

There were no other projects reported.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

Mr. Ruiz presented the December 6, 2017, and January 3, 2018, Engineering/Operational Committee Meeting Recaps for Committee review. Director Dopudja requested that the December 6, 2017 Recap be corrected to reflect the Committee's discussion concerning opportunities for relocating the recycled water pump station to end of Plano Trabuco Road.

RECOMMENDED ACTION

The Committee recommended that the December 6, 2017, Engineering/Operational Committee Meeting Recap be forwarded to the Board for approval (Consent Calendar).

Director Mandich and Mr. Perea recommended that the January 3, 2018, Engineering/Operational Committee Meeting Recap be forwarded to the Board for approval (Consent Calendar).

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

Ms. Lausten presented this matter for Committee review, and presented an updated Technical Memorandum (TM) for Committee review. Ms. Lausten reported that the updated TM included Pump Station Alternatives for District consideration, and briefly reviewed the Alternative Comparison. Director Dopudja commented that the updated TM did not include the discussed pump station and reservoir(s) alternative at the end of Plano Trabuco Road and requested that District staff work with the JIG Consultants to include the alternative in the TM. Director Mandich commented that the pump station costs are significantly higher than anticipated. Director Dopudja requested that District staff forward this matter to the District Properties Ad Hoc Committee for discussion and review. Director Mandich reminded District staff to identify the total costs for the whole project for Committee review as this was previously requested at prior Committee Meetings.

RECOMMENDED ACTION

The Committee received the status update, and directed District staff to forward the matter to the District Properties Ad Hoc Committee for discussion and review.

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ITEM 3: VIA ALLEGRE WET WELL EXPANSION PROJECT

Ms. Lausten provided a status update on this matter, and reported that District staff received two (2) construction bids for this project. Ms. Lausten reviewed the Bid Comparison (Exhibit) with the Committee, and highlighted that the project is partially funded by William Lyon Homes (Developer) due to the capacity needs from the new Dahlia Court Development. Ms. Lausten recommended GCI Construction, Inc. for the project. Director Mandich expressed concerns with the difference between the project budget and the bids, and cautioned for possible contract change orders; Mr. Ruiz mentioned that there may issues with groundwater dewatering, but that those specific issues were not identified in the geotechnical report. Ms. Lausten mentioned that the electrical upgrades are minor and will be performed by a separate contractor managed by District staff.

RECOMMENDED ACTION

The Committee recommended that the Board of Directors authorize the General Manager to execute a construction contract with GCI Construction, Inc. for the Via Allegre Wet Well Expansion Project for a not to exceed amount of \$366,130 (Action Calendar).

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

Ms. Lausten provided a status update on this project, and reported that the project is complete. Ms. Lausten added that District staff remained on budget and that the contractor, Mission Paving, completed the project within twenty-three (23) days, well below their thirty-five (35) day contract duration. Ms. Lausten presented construction photos for Committee review.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 5: ROBINSON RANCH WASTEWATER TREATMENT PLANT SITE SECURITY IMPROVEMENTS

Ms. Lausten presented this project for Committee review, and highlighted the hybrid nature of the project. Ms. Lausten presented a Project Map Exhibit for Committee review, and mentioned that District staff propose to raise the perimeter fence at the Robinson Ranch Wastewater Treatment Plant (WWTP) by an additional two (2) to three (3) feet to a height of eight (8) feet for added facility security. Ms. Lausten reviewed the Bid Summary (Exhibit) with the Committee, and recommended La Habra Fence Company for the work. Discussion occurred concerning options for replacing the entire perimeter fence or adding additional fence height to the existing fence; Director Dopudja recommended replacing the entire fence as the cost difference was nominal, as well as securing all identified security weak points. Ms. Lausten noted that most of the existing post foundations will be used and the fence mesh is the main item being replaced or repaired. Ms. Lausten reported that District staff is currently working on procuring a quote for the project-required landscape work. Mr. Ruiz commented that District staff will agendize this matter for Board review with a bid for the complete fence replacement and the associated costs for landscape work.

RECOMMENDED ACTION

The Committee received the status update, and recommended that District staff forward the matter to the Board with updated project bids, including landscaping bids, for Board review (Action Calendar).

ITEM 6: GOREN WASTEWATER TREATMENT PLANT PERMIT MODIFICATIONS

Mr. Ruiz provided a status update on this matter, and reported that District staff is currently working with the Developer to test the onsite generator and electrical system, while working with the South Orange County Wastewater Authority (SOCWA) on a revised permit for the facility.

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RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 7: DIMENSION WATER TREATMENT PLANT TRUCK DELIVERY ACCESS IMPROVEMENTS

Ms. Lausten provided a status update on this project, and mentioned that District staff is currently working on the project design with Adams-Streeter Civil Engineers (Consultant).

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 8: TRABUCO CANYON WATER DISTRICT'S SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM – PHASE I

Ms. Lausten provided a status update on this project, and reported that District staff has met with TESCO regarding the project scope of work. Ms. Lausten added that District staff is currently reviewing the proposed communications and hardware proposal provided by TESCO.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 9: DISCUSSION AND POSSIBLE ACTION(S) CONCERNING ORANGE COUNTY REGIONAL WATER AND WASTEWATER MULTI-HAZARD MITIGATION PLAN

Ms. Lausten presented this matter for Committee review, and commented that District staff has regularly met with MWDOC staff since August 2017 to develop the Multi-Hazard Mitigation Plan. Ms. Lausten reported that the goal of this Plan Update is to reduce vulnerabilities due to disasters, and that MWDOC has contracted with Michael Baker International (Consultant) for the preparation of the Plan Update. Ms. Lausten mentioned that information on the Plan Update includes a link to an online survey posted on the District's website since December 2017. Ms. Lausten reported that the initial survey has been completed and that the Consultant is scheduled to provide a DRAFT Plan Update in March.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 11: TRACT NO. 17805 DAHLIA COURT BY WILIAM LYON HOMES, INC. – ACCEPTANCE OF WATER, NON-DOMESTIC WATER, AND SEWER FACILITIES CONSTRUCTED IN TRACT NO. 17805 AND OFF-SITE IMPROVEMENTS

Mr. Ruiz presented this matter for Committee review, and reported that the acceptance of the water, non-domestic water, and sewer facilities at this development is the final step in the Development process and will start the one-year warranty for the facilities. Mr. Ruiz added that this matter requires acceptance by Board adoption by resolution.

RECOMMENDED ACTION

The Committee received the information, and recommended that the matter be forwarded to the Board (Action Calendar).

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ITEM 12: SADDLE CREST DEVELOPMENT (65 DUs | WSL)

Ms. Lausten provided an update on this development, and reviewed the Contractor's schedule with the Committee. Ms. Lausten reported that District staff requested proposals from five (5) firms for construction management services related to the construction of the onsite reservoir and received two (2) proposals. Ms. Lausten mentioned that District staff is currently reviewing the proposals which were high because the schedule from the developer was not detailed. Ms. Lausten added that the developer will be providing an updated schedule which provides phasing of the utilities and that the work has been delayed until May 2018.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 13: WATER SYSTEM UPDATES

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

1. Water Department staff converted three (3) dry barrel fire hydrants to wet barrel hydrants on High County Drive.
2. Water Department staff repaired a leak on the eight-inch (8") Stage Two Filter Manifold at the Trabuco Creek Groundwater Treatment Facility.
3. Water Department staff worked with contractors on a sheared fire hydrant in the Trabuco Marketplace parking lot.
4. Water Department staff worked with contractors on an emergency water main pipeline break at the intersection of Sycamore Canyon Drive and Inverary in the Dove Canyon Community.
5. Water Department staff repaired air diffusers on Filter No. 3 at the Dimension Water Treatment Plant.

Mr. Kessler reported that the Water Department exercised forty-five (45) system valves with the new valve-turning vehicle. Mr. Kessler reviewed the Monthly Water System Operations Summary with the Committee, and mentioned that during a planned facility shutdown in the prior month that the District purchased water from Santa Margarita Water District (SMWD) and Irvine Ranch Water District (IRWD). Mr. Kessler added that the District's system lost approximately three (3) acre feet of water due to the sheared fire hydrant in the Trabuco Marketplace, and mentioned that the loss of water was greater than normal as a result of poor communications by the first responders. Director Dopudja stressed the importance of inter-agency communication protocols. Mr. Kessler reported that a planned shutdown for the replacement of the buried sixteen inch (16") butterfly valve, as approved by the Board at the December 11, 2107, Special Board Meeting, is scheduled on February 12, 2018, and that Water Department will be dewatering the Dimension Water Treatment Plant to prepare for the project. Director Mandich asked for a status update on the wells; Mr. Kessler reported that Water Department staff bump tests the pumps regularly, and that the recent rainfall has not been sufficient and the groundwater levels are too low. Mr. Kessler added that Water Department staff has obtained a sampling waiver due to the low water levels.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 14: WASTEWATER SYSTEM UPDATES

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

1. Wastewater Department staff installed the Robinson Ranch Wastewater Treatment Plant WWTP West Sequencing Batch Reactor (SBR) Hoffman Blower airline.
2. Wastewater Department staff recertified the WWTP Laboratory for sample testing and reporting.

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3. Wastewater Department staff relocated small electrical lines, domestic water lines and recycled water lines on the WWTP access road.

Mr. Hanberg briefly reviewed the Monthly Recycled Water System Operations Summary with the Committee, and highlighted that the current rainfall to date has been three (3) inches. Mr. Hanberg mentioned that the rainfall level for the previous year to date was eight (8) inches.

RECOMMENDED ACTION

The Committee received the status update, no action taken.

ITEM 15: OTHER MATTERS/REPORTS

Mr. Ruiz reported that the District's El Toro Sewer Lift Station (ETSLS) is currently undergoing equipment and controls failures due to end of life, and that the Maintenance and Wastewater Operations Departments are working together on the repairs. Mr. Ruiz mentioned that upgrades to the facility are being planned for inclusion in the next year's Capital Improvement Program. Mr. Ruiz added that the ETSLS is a shared facility with SMWD and IRWD.

RECOMMENDED ACTION

There was no action taken.

ADJOURNMENT

Director Mandich adjourned the February 7, 2018, Engineering/Operational Committee Meeting at 9:07 AM.