



ENGINEERING/OPERATIONAL COMMITTEE MEETING AGENDA
TRABUCO CANYON WATER DISTRICT
32003 DOVE CANYON DRIVE, TRABUCO CANYON, CA
ADMINISTRATION FACILITY, BOARDROOM
FEBRUARY 1, 2023 AT 7:00 AM

COMMITTEE MEMBERS

Michael Safranski, Committee Chair
Stephen Dopudja, Committee Member
Don Chadd, Committee Member Alternate

DISTRICT STAFF

Fernando Paludi, General Manager
Michael Perea, District Secretary
Lorrie Lausten, District Engineer
Gary Kessler, Water System Superintendent
Oscar Ulloa, Wastewater Superintendent
Jason Stroud, Maintenance Superintendent

AGENDA NOTE:

Trabuco Canyon Water District (District) will make this Engineering/Operational Committee Meeting available by telephone audio as follows:

Telephone Audio: 1 (669) 900-6833

Access Code: 973-7562-7682

Persons desiring to monitor the Committee meeting agenda items may download the agenda and documents on the internet at www.tcwd.ca.gov. You may submit public comments by email to the Committee at mperea@tcwd.ca.gov. In order to be part of the record, emailed comments on meeting agenda items must be received by the District at the referenced e-mail address not later than 7:00 a.m. (PDT) on the day of the meeting.

CALL MEETING TO ORDER

VISITOR PARTICIPATION

Members of the public wishing to address the Committee regarding a particular item on the agenda are requested to submit public comments by email to the Committee at mperea@tcwd.ca.gov. The Committee Chair will call on the visitor following the Committee's discussion about the matter. Committees do not constitute a quorum of the Board of Directors and Committee Members cannot make decisions on matters. The Committee makes recommendations only to the Board of Directors. Members of the public will be given the opportunity to speak to the Committee prior to making a recommendation on the matter. For persons desiring to make verbal comments and utilizing a translator to present their comments into English reasonable time accommodations, consistent with State law, shall be provided. Please limit comments to three minutes.

ORAL COMMUNICATION

Members of the public who wish to make comment on matters not appearing on the agenda are requested to submit oral communication by email to the Committee at mperea@tcwd.ca.gov. Under the requirements of State Law, Directors cannot take action on items not identified on the agenda and will not make decisions on such matters. The Board President may direct District Staff to follow up on issues as may be deemed appropriate. For persons desiring to make verbal comments and utilizing a translator to present their comments into English reasonable time accommodations, consistent with State law, shall be provided. Please limit comments to three minutes.

COMMITTEE MEMBER COMMENTS

REPORT FROM THE GENERAL MANAGER

TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING AGENDA | FEBRUARY 1, 2023

ENGINEERING MATTERS

PRESENTER(S): FERNANDO PALUDI, GENERAL MANAGER
MICHAEL PEREA, ASSISTANT GENERAL MANAGER
LORRIE LAUSTEN, DISTRICT ENGINEER

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

RECOMMENDED ACTION:

Approve the following Engineering/Operational Committee Meeting Recap(s) and recommend that the Board receive and file same (Consent Calendar).

1. January 4, 2023

ITEM 2: SCADA UPGRADE PROJECT ADDENDUM NO. 2 WITH TESCO CONTROLS

RECOMMENDED ACTION:

Recommend the Board of Directors authorize the General Manager to execute Addendum No. 2 for Local HMI Installation to TESCO Controls, Inc. in the not to exceed amount of \$227,350 (Action Calendar).

ITEM 3: GOLF CLUB SEWER LIFT STATION REPAIRS & IMPROVEMENTS

RECOMMENDED ACTION:

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

ITEM 4: QUARTERLY CAPITAL IMPROVEMENT PROGRAM (CIP) UPDATE

RECOMMENDED ACTION:

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

ITEM 5: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES

1. Rose and Lang Wells Cleaning and Pump Installation
2. Dove and Trabuco Dams Emergency Action Plan Approvals
3. Dove Dam Vent Pipe Repair
4. Dimension Water Treatment Plant Office Improvements
5. Dove Lake and Trabuco Reservoir Bathymetric Survey
6. Slope Failure Below Dove Reservoir
7. Other Projects

RECOMMENDED ACTION:

Committee to receive project status updates at time of the Committee Meeting.



**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING AGENDA | FEBRUARY 1, 2023**

OPERATIONAL MATTERS

**PRESENTER(S): GARY KESSLER, WATER SYSTEM SUPERINTENDENT
OSCAR ULLOA, WASTEWATER OPERATIONS SUPERINTENDENT
JASON STROUD, MAINTENANCE DEPARTMENT SUPERINTENDENT**

ITEM 6: WATER SYSTEM UPDATES

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

ITEM 7: WASTEWATER SYSTEM UPDATES

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

ITEM 8: MAINTENANCE DEPARTMENT UPDATES

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

REGULATORY AND OTHER MATTERS

ITEM 9: OTHER MATTERS/REPORTS

RECOMMENDED ACTION:

Hear Other Matters/Reports that may have arisen after the posting of the agenda.

ADJOURNMENT

AVAILABILITY OF AGENDA MATERIALS

Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the Trabuco Canyon Water District Board of Directors in connection with a matter subject to discussion or consideration at an open meeting of the Board of Directors are available for public inspection at the Trabuco Canyon Water District Administrative Facility, 32003 Dove Canyon Drive, Trabuco Canyon, California (District Administrative Facility) or will be posted online on the District's website located at www.tcwd.ca.gov. If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available online at www.tcwd.ca.gov at the same time as they are distributed to the Board Members, except that, if such writings are distributed immediately prior to or during the meeting, they will be posted online on the District's website located at www.tcwd.ca.gov.

COMPLIANCE WITH THE REQUIREMENTS OF CALIFORNIA GOVERNMENT CODE SECTION 54954.2

In compliance with California law and the Americans with Disabilities Act, if you need special disability-related modifications or accommodations, including auxiliary aids or services in order to participate in the meeting, or if you need the agenda provided in an alternative format, please contact the District Secretary at (949) 858-0277, at least 48 hours in advance of the scheduled Board meeting. Notification at least 48 hours prior to the meeting will assist the District in making reasonable arrangements to accommodate your request. The Board Meeting Room is wheelchair accessible.



**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 1, 2023**

ADMINISTRATIVE MATTERS

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

RECOMMENDED ACTION:

Approve the following Engineering/Operational Committee Meeting Recap(s) and recommend that the Board receive and file same (Consent Calendar):

1. *January 4, 2023 Committee Meeting*

CONTACTS (staff responsible): PALUDI/PEREA/SANGI



**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | JANUARY 4, 2023**

DIRECTORS PRESENT

Stephen Dopudja, Committee Chair
Mike Safranski, Committee Member

STAFF PRESENT

Fernando Paludi, General Manager
Lisa Sangi, Assistant Board Secretary
Gary Kessler, Water Superintendent
Oscar Ulloa, Wastewater Superintendent
Tony Quinonez, Lead Mechanical Technician

PUBLIC PRESENT

None

CALL MEETING TO ORDER

Director Dopudja called the January 4, 2023 Engineering/Operational Committee Meeting to order at 7:00 a.m.

VISITOR PARTICIPATION

No comments were received.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

The Committee wished all in attendance a Happy New Year.

REPORT FROM THE GENERAL MANAGER

Mr. Paludi wished all in attendance a Happy New Year

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

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

MOTION: Approve the Engineering/Operational Committee Meeting Recap and recommended that the Board receive and file the same (Consent Calendar) – Director Dopudja

SECOND: Director Safranski

AYES: Directors Dopudja & Safranski

NOES: None

ABSTAIN: None

MOTION PASSED/FAILED: Passed 2 - 0

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | JANUARY 4, 2023**

ITEM 2: PARTH DEVELOPMENT EASEMENT

Mr. Paludi introduced this matter for Committee consideration, and he provided a brief overview of the proposed easement, including the onsite water lines and access issues. Mr. Paludi reported that District General Counsel has reviewed this matter concerning the Parth Trust as an entity having legal authority.

MOTION: Recommend that the Board of Directors receive the Grant of Easement to the Trabuco Canyon Water District by The Frank R. Parth, Trustee of the Frank R. Parth Trust dated August 31, 2015, for Water Pipelines, and authorize the District Secretary to execute said Grant of Easement (Action Calendar) - Director Dopudja

SECOND: Director Safranski

AYES: Directors Dopudja & Safranski

NOES: None

ABSTAIN: None

MOTION PASSED/FAILED: Passed 2 - 0

ITEM 3: SCADA UPGRADE PROJECT ADDENDUM NO. 2 WITH TESCO CONTROLS

Mr. Paludi presented this matter for Committee consideration, and he provided a brief review of the completed SCADA upgrades to date. Mr. Paludi presented a proposed contract addendum for Committee consideration, and he reported that the original project scope of work excluded the Human Machine Integration (HMI) screens due to budgetary constraints. Mr. Paludi indicated that TESCO Controls has honored the initial pricing without any inflationary increase. Discussion occurred concerning the importance and benefits of using HMI screens to operate facilities as opposed to relying solely on mobile devices. The Committee expressed concerns with staff presenting the proposed contract addendum at this point of the project in contrast to an earlier decision to exclude HMI screens. The Committee recommended not forwarding this matter as recommended and deferring the matter to the next E/O Committee to discuss again when all staff are present.

MOTION: None - No action was taken.

ITEM 4: GOLF CLUB SEWER LIFT STATION REPAIRS & IMPROVEMENTS

Mr. Paludi provided a brief update on this matter, and he reported that the final construction plans and specifications are going out to bid in the coming weeks. Mr. Paludi provided an overview of the adopted budget, and he indicated the preliminary engineer's estimates exceed the budget due to significant inflationary impacts for construction projects.

MOTION: None – Informational item only.

ITEM 5: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES

Mr. Paludi provided an updated for the following matter(s):

1. Rancho Cielo HOA Recycled Water Retrofit Evaluation – Mr. Paludi provided a brief review of District staff efforts to date, and he highlighted the Metropolitan Water District of Southern California (MET) rebates for recycled water conversion projects. Discussion occurred concerning cost responsibilities and cost sharing policies/procedures.
2. El Toro SLS Surge Tank Installation Project - Mr. Paludi reported that SS Mechanical is scheduled to begin work on the installation of the onsite surge tank.
3. Saddleback Meadows Development Status – Mr. Paludi reported that District staff is working with the developer to process developer impact fees and coordinate onsite reservoir storage.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | JANUARY 4, 2023**

4. Other Projects – Mr. Paludi provided a brief update on The Oaks at Trabuco development and new construction. Discussion occurred concerning the onsite wastewater package plant and certain equipment upgrade responsibilities per the agreement between the District and the developer.

MOTION: None – Informational item only.

ITEM 6: WATER SYSTEM UPDATES

Mr. Kessler reviewed the projects and repairs for the prior month, and he reported that Water Operations staff has completed the following tasks:

1. Worked with Ferreira Construction to repair a failed domestic water service saddle on Falcon and Santiago.
2. Two Water Department Operators travelled to TESCO Controls headquarters in Temecula to field test the PLC's for Falcon Pump Station, Cooks Reservoir, Field Office and Topanga Booster Pump Station.
3. Worked with the Maintenance Department, Hydrotech Electric and Tesco Controls to install a new PLC at the Falcon Pump Station.
4. Worked with Tesco Controls on the radio changeover at Falcon Pump Station, Saddle Crest Development, Joplin and Dove Reservoir.
5. Serviced seven (7) Clavals with Delco Sales.
6. Flushed forty-two (42) hydrants in the Robinson Ranch Community.
7. Excavated to locate a Raw Water Line for the new office at Dimension Water Treatment Plant (DWTP) and relocate a sample site.

Mr. Kessler reviewed the Monthly Water System Operations Summary with the Committee. Discussion occurred concerning repairs at Canyon Creek Booster Pump Station.

MOTION: None – Informational item only.

ITEM 7: WASTEWATER SYSTEM UPDATES

Mr. Ulloa reviewed the projects and repairs for the prior month, and he reported that Wastewater Operations staff had completed the following tasks:

1. Assisted Ferguson Waterworks with the shutdowns of two three-inch meters on Robinson Ranch Road.
2. Conducted a camera inspection of the gravity sewer hot spots throughout the District.
3. Cleaned the Barneburg Sewer Lift Station wet well.
4. Cleaned the check vales at the Golf Club Sewer Lift Station.
5. Ran new lines and installed a new sump pump for the EQ dry pit basin at the Wastewater Treatment Plant.

Mr. Ulloa reviewed the Monthly Non-Domestic Water System Summary with the Committee, and he reported on the increase of runoff/storm water collected at Dove Lake as indicated in the freeboard increasing from 16 feet to 9 feet. Mr. Ulloa added that the District is currently selling recycled water to Santa Margarita Water District (SMWD) in excess of demand. Discussion occurred concerning the condition of the Dove Dam vent pipe; Mr. Ulloa reported that District staff identified a new line break. Mr. Paludi mentioned that a Special Board may be scheduled to approve the proposed repair costs.

MOTION: None – Informational item only.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | JANUARY 4, 2023**

ITEM 8: MAINTENANCE DEPARTMENT UPDATES

Mr. Quinonez reviewed the projects and repairs for the prior month, and he reported that Maintenance staff completed the following tasks:

1. Attended the WEROC quarterly meeting in person at the Fountain Valley location.
2. Attended TCWD Master Plan/CIP workshop.
3. Assisted TESCO Controls with upgrading the PLC's at the Falcon booster pump station and Dove Lake Recycled Water Pump Station.
4. Assisted Wastewater Operations and Myers Marine (divers) with the air vent repair at Dove Lake.
5. Worked with SS Mechanical starting up the surge tank at El Toro sewer lift station.
6. Picked up truck #12 from the collision repair center.

MOTION: None – Informational item only.

ITEM 9: OTHER MATTERS/REPORTS

There were no other matters presented.

MOTION: None – Informational item only.

ADJOURNMENT

Director Dopudja adjourned the January 4, 2023 Engineering/Operational Committee Meeting at 8:23 a.m.

DRAFT

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 1, 2023**

ENGINEERING MATTERS

ITEM 2: SCADA UPGRADE PROJECT ADDENDUM NO. 2 WITH TESCO CONTROLS

The District’s Supervisory Control and Data Acquisition (SCADA) System is a critical system used for the daily operation and monitoring of facilities in the water, wastewater, and recycled water systems. The SCADA system includes alarms, remote monitoring and controls, and data logging of the District’s various facilities including the water and wastewater treatment plants, pump stations, sewage lift stations, and reservoirs. The SCADA system consists of various telemetry, programmable logic computers, PCs, radios, controllers, and antennas of various heights and types. The SCADA system continuously monitors the District’s facilities and reports alarm conditions to the operators on a twenty-four hour per day basis every day.

An upgrade to the District’s SCADA System has been phased in over several years. Due to budget concerns during original project scoping, the project calls for an Operator Interface at each remote station that utilizes iPads that all Staff have for remote access. With the removal of the obsolete Rugids/Displays at these locations (RTU program and communication), Operations Staff has requested that sites have local Human Machine Interfaces (HMI’s) built into the panels due to potential loss of cellular connections. TESCO has provided the attached quote which will be used at sites that have are deemed critical (Exhibit 1). This change order includes HMI retrofits for eleven (11) sites; however, the quote lists a quantity of thirteen (13) HMIs to account for the two (2) spare units as requested by District staff.

FUNDING SOURCE:

Capital Improvement Program

FISCAL IMPACT (PROJECT BUDGET):

FY 17/18: SCADA System Assessment Study	\$ 45,000
*FY 18/19: WAN Improvements and Hardware Replacement	\$ 200,000
FY 19/20: Radio Study and PLC Hardware Purchase	\$ 400,000
FY 20/21: SCADA Platform, Backbone Installation, TCGWTF Upgrades	\$ 600,000
FY 21/22: Upgrade 24 Sites	\$ 1,000,000
FY 22/23: Upgrade 7 Sites, Development of HMI Software	\$ 980,000
Total:	\$ 3,225,000

*Need to prolong life of system until new SCADA completion

FY 22/23 CONTRACT SUMMARY:

Original contact	\$ 980,000
Amendment No. 1	\$ 17,376
Amendment No. 2	\$ 227,350
Total Contact	\$1,224,726

ENVIRONMENTAL COMPLIANCE:

Notice of Exemption

RECOMMENDED ACTION:

Recommend the Board of Directors authorize the General Manager to execute Addendum No. 2 for Local HMI Installation to TESCO Controls, Inc. in the not to exceed amount of \$227,350 (Action Calendar).

EXHIBIT(S):

1. TESCO Controls Proposal

CONTACTS (staff responsible): LAUSTEN/PEREA

To: Trabuco Canyon Water District
Attn: Lorrie Lausten
Re: Fiscal Year 2022-2023 Improvements
Local HMIs for Remote Water/Wastewater Sites

Quote Date: 12/28/2022
Quote No.: 22L209Q02
Project No.: T-46178X8 **COQ2**

Dear Lorrie:

Thank you for your continued interest in TESCO products, services, and solutions. We are pleased to quote the following scope of work pertaining to the above-referenced project.

Scope of Work

This change order quote is inclusive of furnishing the new panel HMIs that Trabuco Canyon Water District (District) has requested for local process control and visibility of the remote water/wastewater sites previously equipped with RUGID operator interfaces. Now that the RUGID units have been removed (*or in the process of being removed*), the District requires the ability to locally control/monitor these remote sites in the event of a central SCADA system failure or loss in cellular communications (*required for the remote viewing SCADA tablets*). There are a total of **eleven (11) remote sites** requiring the new panel-mount HMIs, which includes the following:

Barneburg Lift Station, El Toro Lift Station, Heritage Lift Station, O'Neil Lift Station, Plano Lift Station & Booster Pump Station, Santiago Canyon Lift Station, Via Allegre Lift Station, Dove & Robinson Recycled Water Pump Station, El Toro Booster Pump Station, Falcon Booster Pump Station, and Topanga Booster Pump Station.

With the exception of Topanga Booster Pump Station, which requires a new wall-mount enclosure to house the HMI, all other sites will involve either onsite retrofit of the HMIs within existing control panel doors or adding the HMIs to the new RTU panels currently in production at TESCO's manufacturing facility.

The programming and graphic displays of each HMI will be developed in the same Ignition platform that the District will eventually utilize with the upgraded SCADA system TESCO is currently constructing. As part of the current SCADA upgrade project, TESCO and the District will participate in a technical workshop to determine the graphical and screen layout requirements, which will then be leveraged for display purposes at each remote site and corresponding HMI.

Following implementation of the new HMIs, TESCO will perform testing and startup services to ensure the District has complete visibility and local control at each remote site, independent and regardless of the SCADA system status. Refer, to *Scope of Supply* below for a detailed listing of the materials and services to be provided by TESCO as part of this change order.

Please Note: This change order includes HMI retrofits for eleven (11) sites; however, the Scope of Supply below lists a quantity of thirteen (13) HMIs to account for the two (2) spare units requested by the District.

Scope of Supply

Item	Qty	Description
WATER DISTRIBUTION SITES		
1	13	<p>HMI Hardware & Software to include:</p> <ul style="list-style-type: none"> ▪ Advantech Industrial PC <ul style="list-style-type: none"> ▫ 15.6" Display Touch Screen ▫ Intel Core i7-6600U Processor ▫ 16GB DDR4 Memory Built-In ▫ 2.5" 128GB SSD ▫ Microsoft Windows 10 Professional OS 64-Bit ▪ Inductive Automation Ignition Edge Licensing
2	1	<p>Topanga Booster Pump Station to include:</p> <ul style="list-style-type: none"> ▪ Wall-Mount NEMA 12 Galvanized Steel Enclosure <ul style="list-style-type: none"> ▫ 24VDC, 5A, 1-Phase 10kAIC ▫ Dimensions: 30"H x 30"W x 12"D ▫ Back-Panel per Layout ▫ Cutout/Space Provisions for Panel HMI ▫ Exterior Powder Coat: <u>ANSI 61 Grey</u> ▪ Panel Circuit Breaker ▪ Ethernet Patch Cable as required ▪ DIN Rail, Terminal Blocks, Wires, Ground Bus Bar, & Nameplates/Labels as required
3	1	<p>Santiago Canyon Lift Station to include:</p> <ul style="list-style-type: none"> ▪ GracePort+ 16" HMI Cover <ul style="list-style-type: none"> ▫ UV Rated ▫ Polyurethane Gasket Protection
4	Lot	<p>Professional Services to include:</p> <ul style="list-style-type: none"> ▪ <u>Project Management</u> ▪ <u>Engineering</u> <ul style="list-style-type: none"> ▫ update engineered bill of materials, engineered shop drawings, equipment schematics, engineered submittals, technical data, as-built documentation, and project records ▪ <u>Manufacturing</u> <ul style="list-style-type: none"> ▫ fabrication, assembly, equipment wiring, and factory testing ▪ <u>SCADA Programming</u> <ul style="list-style-type: none"> ▫ program the new Advantech HMIs for local display of the respective site processes (<i>reflective of the data and graphics currently under development with the District's new Ignition SCADA application</i>) ▫ test the individual HMI programs for accurate data representation and response to operator control/input; perform I/O checks between each local PLC program and the interfacing HMI ▪ <u>Field Service / Product Startup</u> <ul style="list-style-type: none"> ▫ for the control panels already existing in the field, make cutouts and retrofit the new HMIs accordingly ▫ product quality review, verification of installation, parameter/configuration adjustments as required, software upload/download as required, function checks, and startup

Item	Qty	Description
		<ul style="list-style-type: none"> ▫ onsite training for the District’s operations staff to demonstrate the general usage of the new HMIs, including screen navigation, setpoint controls/adjustment, and alarm event viewing/acknowledgment
		TOTAL (Items 1-4, including applicable sales tax):
		\$227,350.00

Project Clarifications

- Unless otherwise indicated by the Scope of Work above, this quote is to **furnish only** and does not include any trade labor, trade work, construction work, site improvement, contractor services, or any trade installation services. Any trade labor and/or related trade work shall be performed by others/contractor.
- Unless otherwise indicated by the Scope of Work above, the following is **not** included within this quotation:
 - Conduit, field wire, tubing, or basic trade installation materials (brackets, screws, bolts, j-box, stanchions, pull-box, etc.)
 - Instrumentation mounting components, brackets, stanchions, sunshields, etc.
 - Local control stations and/or field mounted disconnects.
 - Instrumentation, devices, components, or equipment not specifically identified in the above quotation.
 - Fiber optic patch panels, cable, splicing or terminations.
 - Networking infrastructure or architecture modifications to existing facilities.
 - Any 3rd party testing, harmonic testing/analysis, protective device coordination study, short-circuit analysis, or Arc-Flash Risk Assessment (AFRA) services.
 - Electrical interconnection diagrams for equipment not furnished by TESCO.
 - ISA process control loop diagrams.
 - Signal loop diagrams for equipment not furnished by TESCO.

Terms & Conditions

- Quote is firm for 30 days unless otherwise stated.
- Intellectual Property and Confidentiality Notice: The scope of work and price quotation shall not be construed as a formal design or recommendations on design for the related project. All content contained within this quotation is the intellectual property under the proprietorship of Tesco Controls, LLC and is subject to applicable copyright laws. Such intellectual property shall not be duplicated, replicated, copied, or shared without explicit written consent from Tesco Controls, LLC, as it contains confidential information and work product developed exclusively for use by Tesco Controls, LLC.
- **HMI Provisions & Integration:** to be scheduled in conjunction with ongoing **Project No. T-46178X8** and following receipt of purchase order, written notice of intent, or notice to proceed.
- Lead-Time & Supply Chain Impacts: Due to the supply chain impacts imposed by the pandemic, all quoted lead-times are subject to change without notice.
- Unless otherwise stated above, price does not include any sales tax, use tax, or applicable fees; please apply any taxes and/or fees as appropriate. Please note that all invoices will include sales tax where applicable.
- TESCO price is FOB factory, full freight allowed.
- TESCO warranties against defect in design, workmanship, and materials for a period of one year from date of installation and does not exceed 18 months from the date of shipment from the factory.
- TESCO carries liability insurance, with full workers’ compensation coverage.
- Terms are net 30 days on approved credit accounts.
- Interest will be applied to all past due invoices.
- All merchandise sold is subject to lien laws.
- Final retention to be paid within 10 days after the project notice of completion.

Please feel free to contact us at (916) 395-8800 to discuss any questions or comments you may have regarding this quotation.

Sincerely,

TESCO CONTROLS

A handwritten signature in black ink, appearing to read "John Wright". The signature is stylized and cursive.

John Wright
Technical Sales Supervisor
jwright@tescocontrols.com

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 1, 2023**

ENGINEERING MATTERS

ITEM 3: GOLF CLUB SEWER LIFT STATION REPAIRS & IMPROVEMENTS

Trabuco Canyon Water District (District) owns and operates the Golf Club Sewer Lift Station (SLS) in the Dove Canyon community adjacent to the golf club driving range. This station receives wastewater flows from majority of the community by way of Bell Canyon and Barneburg Sewer Lift Stations and gravity sewer flows, and then conveys the wastewater to the Robinson Ranch Wastewater Treatment Plant via a sewer force main on Hillrise. The station was constructed in the early 1990s and had undergone only minor improvements until Fiscal Year (FY) 2021-22, when a bypass was installed, the surge tank repaired, the force main partially replaced, and the motor control center replaced. Staff identified a series of critical repairs and improvements for the station that have been budgeted for completion in the F Y 2022-23 CIP and are summarized below:

Summary of Fiscal Year 22/23 Golf Club Sewer Lift Station Improvements	
Item	Description
1	Submersible Pumps, guide rails and elbows
2	Wet Well Improvements and Coating
3	Dry Pit Piping Replacement and Flow Meter Installation
4	Surge Tank Replacement and Relocation
5	Security Wall and Gate
6	Electrical Improvements
7	Upgrade Ventilation System
8	Sewer Bypass Plan During Construction

Due to the long procurement time of equipment, Staff pre-purchased the three Cornell pumps (one Spare), two guide rail systems/discharge elbows and the surge tank. The project schedule is attached for review (Exhibit 1). The project is currently out to bid. More information may be available at the time of the meeting.

FUNDING SOURCE:

Capital Improvement Program

FISCAL IMPACT (PROJECT BUDGET):

\$600,000 in FY 2021-22 (complete)
\$870,000 in FY 2022-23 as described above
\$1,470,000 total CIP budget

ENVIRONMENTAL COMPLIANCE:

Notice of Exemption was filed with the County of Orange on November 1, 2021.

RECOMMENDED ACTION:

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

EXHIBIT(S):

1. Project Schedule

CONTACTS (staff responsible): LAUSTEN/PEREA/ULLOA

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 1, 2023**

ENGINEERING MATTERS

ITEM 4: QUARTERLY CAPITAL IMPROVEMENT PROGRAM (CIP) UPDATE

This report summarizes the status of Trabuco Canyon Water District’s (District’s) Capital Improvement Program (CIP) Update as summarized below and per the attached Exhibit 1.

Status of the CIP Projects	
No	Status
1	Cancelled
1	Completed
1	Out to Bid
4	Design/Planning
5	Ongoing
5	Construction/Progress
5	Not Started

FUNDING SOURCE:

Capital Improvement Program

FISCAL IMPACT (PROJECT BUDGET):

\$5,662,000

ENVIRONMENTAL COMPLIANCE:

Not Applicable

RECOMMENDED ACTION:

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

EXHIBIT(S):

1. CIP Budget

CONTACTS (staff responsible): LAUSTEN

**TRABUCO CANYON WATER DISTRICT
CAPITAL IMPROVEMENT PLAN BUDGET
FY 2022/2023**

		PROJECT BASIS	PROPOSED FY 2022/23
ITEM	WATER		
1	Dimension WTP Vault Improvements	Safety	\$ 50,000
2	PRV Improvements-Water	Reliability	\$ 15,000
3	Domestic Water Turbidimeter Replacement	Reliability	\$ 15,000
4	Valve Replacement Program	End of Service Life	\$ 45,000
5	DWTP Office & Storage	End of Service Life	\$ 300,000
6	Live Oak Transmission Main (Harris Grade to Canyon Creek) CCTV	Reliability	\$ 100,000
7	Trabuco Creek Water Main Potholing	Bridge Re-Location/County	\$ 20,000
8	AMR/AMI System Implementation - Grant Funding	Water Use Efficiency	\$ 1,700,000
WATER SUBTOTAL			\$ 2,245,000
DISTRICT-WIDE			FY 2022/23
9	SCADA System Upgrades	Reliability; End of Service Life	\$ 1,210,000
10	Equipment Trailer	General Maintenance	\$ 39,000
11	Pump Replacement Program	End of Service Life	\$ 100,000
12	Master Plan and Condition Assessment	Reliability; Safety	\$ 250,000
DISTRICT-WIDE SUBTOTAL			\$ 1,599,000
WASTEWATER / RECLAIMED / RECYCLED			FY 2022/23
13	Manhole Recoating Program - Sewer	General Maintenance	\$ 20,000
14	PRV Vault Improvements Program - Reclaimed	General Maintenance	\$ 45,000
15	Golf Club SLS Improvements-Wet Well, Surge Tank, Pumps, Bypass, Dry Pit, Security	End of Service Life	\$ 870,000
16	WWTP Blower Motors (2)	Reliability	\$ 250,000
17	WWTP Mixers (4)	Reliability	\$ 150,000
18	Chiquita WWTP CIP	Contract Agreement	\$ 178,000
19	El Toro SLS Surge Tank Improvements	End of Service Life	\$ 250,000
20	El Toro SLS Improvements - Force Main Discharge Valve Replacement	End of Service Life	\$ 35,000
21	Dove New Lake Barge/Pump	General Maintenance	\$ 20,000
WASTEWATER / RECLAIMED / RECYCLED SUBTOTAL			\$ 1,818,000
TOTAL PROPOSED CIP			\$ 5,662,000

Completed

In Construction/Progress

On Going

Out to Bid

Planning/Design

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 1, 2023**

ENGINEERING MATTERS

ITEM 5: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES

1. Rose and Lang Wells Cleaning and Pump Installation
2. Dove and Trabuco Dams Emergency Action Plan Approvals
3. Dove Dam Vent Pipe Repair
4. Dimension Water Treatment Plant Office Improvements
5. Dove Lake and Trabuco Reservoir Bathymetric Survey
6. Slope Failure Below Dove Reservoir
7. Other Projects

RECOMMENDED ACTION:

Committee to receive project status updates at time of the Committee Meeting.

EXHIBIT(S):

None

CONTACTS (staff responsible): PALUDI/PEREA/LAUSTEN

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 1, 2023**

OPERATIONAL MATTERS

ITEM 6: WATER SYSTEM UPDATES

The following is a brief report of the water system for **January 2023**.

Projects and Repairs

Water Operations staff performed and/or completed the following tasks and projects:

1. Repaired a 1" potable water service on Wood Spring Lane in the Portola Hills community.
2. Repaired a 10" water transmission main on the access road to T-Y Nursery.
3. Worked with TESCO Controls and Hydrotech Electric on SCADA system improvements at Topanga Booster Pump Station, District Field Office, and Cooks Reservoir (Res. 1).
4. Flushed sixty-three fire hydrants in upper portion of the Robinson Ranch community.
5. Worked with Delco Services to inspect, service, and repair 9 pressure reducing valves (PRVs).

Monthly Water System Operations Summary

The Monthly Water System Operations Summary is attached for the Committee's review. Any anomalies will be presented at the time of the Engineering/Operational Committee Meeting.

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

EXHIBITS

1. Monthly Water System Operations Summary

CONTACTS (staff responsible): PEREA/KESSLER

TRABUCO CANYON WATER DISTRICT
MONTHLY WATER SYSTEM OPERATIONS SUMMARY - 2022

SYSTEM PRODUCTION/SUPPLIES	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
Number of Days	31	28	31	30	31	30	31	31	30	31	30	31	365
Dimension WTP	8%	17%	25%	33%	42%	50%	58%	67%	75%	83%	92%	100%	
SAC Pipeline Meter	138.0	151.0	51.0	0.0	0.0	0.0	203.0	261.0	229.0	210.4	162.7		1,406.1
Backwash, AF	4.0	4.0	1.0	0.0	0.0	0.2	4.0	5.0	5.0	5.0	4.1	3.7	36.0
Flushwater, AF	6.0	7.0	2.0	0.0	0.0	0.5	6.0	9.0	9.0	9.0	6.7	2.6	57.8
DWTP Effluent (1)	141.0	151.0	47.0	0.0	0.0	0.0	214.0	262.0	229.0	213.0	165.2	136.8	1,559.0
Groundwater, AF													
Trabuco Creek GWTF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
U.S. Well AF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Groundwater (2)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water Purchases, AF													
SMWD Treated Interconnection	0.0	0.0	27.0	57.0	75.0	54.0	3.0	0.0	13.0	0.0	0.0	0.0	229.0
IRWD Treated Interconnections	3.0	0.0	80.0	117.0	123.0	115.0	20.0	0.0	0.0	0.0	0.0	0.0	458.0
IRWD Irvine Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0
Total Purchases (3)	3.0	0.0	107.0	174.0	198.0	169.0	23.0	0.0	13.0	0.0	0.0	0.0	687.0
Total Supply													
Total Supply AF (1,2,3)	144.0	151.0	154.0	174.0	198.0	169.0	237.0	262.0	242.0	213.0	176.0	136.8	2,256.8
% Year - Peak Prod. - 2,449 AF (2018)	6%	12%	18%	25%	34%	40%	50%	61%	71%	79%	87%	92%	-
AF/Day	4.6	5.4	5.0	5.8	6.4	5.6	7.6	8.5	8.1	6.9	5.9	4.4	6.2
CFS/Day, Avg.	2.3	2.7	2.6	2.9	3.2	2.7	3.8	3.6	3.8	3.4	2.9	2.2	3.0
Reservoir Storage													
Monthly Average, MG	8.8	9.0	8.9	8.8	9.0	8.9	8.7	8.8	9.0	8.9	8.8	9.0	8.9
Monthly Average, AF	27.0	27.6	27.3	27.0	27.6	27.3	26.7	27.0	27.6	27.3	27.0	27.6	27.3
Days of Storage	3.0	4.0	4.0	3.0	4.0	4.0	3.0	3.0	4.0	4.0	3.0	4.0	3.6
SYSTEM DEMANDS													
District Operations, AF (1)													
Dimension WTP	0.12	0.10	0.03	0.00	0.00	0.01	0.26	0.23	0.17	0.15	0.21	0.15	1.44
Robinson Ranch WWTP	0.002	0.002	0.004	0.005	0.005	0.005	0.005	0.009	0.005	0.005	0.01	0.01	0.07
Supplemental Domestic to RW Res.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	0.1	0.1	0.0	0.0	0.0	0.0	0.3	0.2	0.2	0.2	0.2	0.2	1.5
System Losses, AF (2)													
Flushing	0.00	0.00	0.52	0.00	0.00	0.00	0.63	0.66	0.27	0.3	0.4	0.2	3.0
Sewer Cleaning	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.2
Line Breaks	0.31	0.15	0.00	0.92	0.08	0.00	0.00	0.23	0.05	0.0	0.3	0.0	2.0
Subtotal	0.32	0.17	0.54	0.94	0.09	0.02	0.64	0.91	0.33	0.31	0.72	0.22	5.20
Zone Demands, AF (3)													
Topanga Canyon	2.0	2.0	2.0	2.0	2.6	3.0	3.0	3.0	3.0	2.4	1.9	1.7	28.6
Falcon Estates	0.4	0.5	0.6	0.7	0.9	0.8	0.8	0.9	0.9	0.7	0.6	2.8	10.6
Rose PRV/The Oaks	3.0	2.0	4.0	3.0	4.0	3.0	3.0	3.0	3.0	2.8	1.0	1.0	32.8
Canyon Creek	0.2	0.5	0.3	0.3	0.3	0.4	0.5	0.5	0.4	Inop.	0.3	Inop.	3.7
Rose Pump Station	0.4	0.2	0.2	0.1	0.1	0.0	0.2	0.1	0.1	0.1	0.1	0.1	1.7
Robinson Ranch	32.0	39.0	42.0	43.0	43.0	59.0	80.0	84.0	66.0	61.4	39.5	35.8	624.7
Dove Canyon	59.0	62.0	70.0	70.0	81.0	85.0	90.0	88.0	84.0	75.2	57.2	46.2	867.6
Subtotal	97.0	106.2	119.1	119.1	131.9	151.2	177.5	179.5	157.4	142.6	100.6	87.3	1,569.7
Total System Demand (1,2,3)	97.4	106.5	119.7	120.0	132.0	151.3	178.4	180.6	157.9	143.1	102.5	87.7	1,576.4

TRABUCO CANYON WATER DISTRICT
MONTHLY WATER SYSTEM OPERATIONS SUMMARY - 2022

System Demands**													
AF/Day	4.6	5.4	5.0	5.8	6.4	5.5	7.6	7.3	7.7	7.0	5.9	4.4	6.0
Daily Average, CFS	2.3	2.6	2.6	2.9	3.2	2.8	3.8	3.7	3.9	3.4	2.9	2.2	3.0
Other Water Deliveries/Purchases													
Ridgeline (DWTP Delivery)	130.0	140.0	43.0	0.0	0.0	0.0	202.0	247.0	214.0		153.8	127.9	1,257.7
El Toro (Interconnection Purchase)	3.0	0.0	80.0	117.0	123.0	115.0	20.0	0.0	0.0	0.0	0.0	0.0	458.0
Baker WTP (CSC Delivery)	125.5	114.2	51.3	0.0	0.0	16.8	91.9	112.0	66.6	113.6	110.8	115.0	917.7
Portola Hills (Wholesale Purchase)	10.0	10.0	10.0	11.0	12.0	12.0	13.0	13.0	16.0	14.0	11.0		132.0
Skyridge (Wholesale Purchase)	1.7	1.6	2.2	1.9	2.2	2.4	2.3	2.7	1.3	1.3	1.1	0.8	21.5
* Usage estimated	** Excludes Operational use, losses, and supplement to Recycled Water Reservoir (RW)												

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 1, 2023**

OPERATIONAL MATTERS

ITEM 7: WASTEWATER SYSTEM UPDATES

The following is a brief report of the wastewater system for **January 2023**.

Projects and Repairs

Wastewater Operations staff performed and/or completed the following tasks and projects:

1. Installed a new turbidimeter and a chlorine level monitoring meter at the final effluent point of at the Robinson Ranch Wastewater Treatment Plant (WWTP).
2. Assisted Myers Marine on repairs to the Dove Dam vent pipe.
3. Assisted Ferreira Construction on the installation of the Heritage Sewer Lift Station bypass structure.
4. Cleaned the sanitary sewer line on Santiago Canyon Road which included the assistance of a third-party traffic control contractor.

Sewer System Management Plan (SSMP) Report

The purpose of the program is to communicate on a regular basis with the public on the development, implementation, and performance of TCWD's SSMP. Status updates on the work and type of work performed on the sewer system will be provided, including sewer line and manhole cleaning, system repairs, lift station cleaning, and updates from satellite facilities:

Sewer System Management Plan (SSMP) Monthly Update	
Total Sewer Line, Feet*	212,045
Total Sewer Line Cleaned (Ft) – Month	11,156
Total Sewer Line Cleaned (Ft) – Cleaning Cycle	36,185
Cleaning Cycle Period (Mos.) [Start date: 9/1/22]	4
Total Sewer Line Cleaned, %	17%
The Oaks at Trabuco – Pumping Frequency for the Month	15
O’Neill Park Sewer System Status	Ok
O’Neill Park Sewer System Repairs	None
SSMP Quarterly Report – <i>Next Quarterly Report</i>	1Q 2023
SSMP Program Audit – <i>Next Audit Report**</i>	March 2023

**This amount includes the OC Parks-owned O’Neill Park sewer system the District is contracted to clean.*

***Periodic internal audits shall be conducted, at a minimum every two years, with reports kept on file. The audit shall focus on evaluating the effectiveness of the SSMP and TCWD’s compliance with the mandatory elements of TCWD’s SSMP:*

Monthly Recycled Water System Operations Summary

The Monthly Recycled Water System Operations Summary is attached for the Committee’s review. Any anomalies will be presented at the time of the Engineering/Operational Committee Meeting.

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

EXHIBITS

1. Monthly Recycled Water System Operations Summary
2. SSMP Quarterly Report 4Q-2022

CONTACTS (staff responsible): PEREA/ULLOA

TRABUCO CANYON WATER DISTRICT | NON-DOMESTIC WATER SYSTEM SUMMARY - 2022

RECYCLED WATER SUPPLY															
	MAX	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	FIVE YEAR AVG
WWTP Reclaimed Water Production, AF	78.3	49.9	42.6	0.0	44.6	44.1	42.6	44.6	44.1	42.3	43.2	42.3	48.2	488.6	534.4
Reclaimed Reservoir Level, FT	1274.5	1,273.8	1,274.2	1,270.5	1,268.0	1,263.5	1,261.0	1,261.4	1,261.0	1,258.8	1,261.4	1,266.0	1,267.2	-	-
Reclaimed Reservoir Free Board, FT	25.5	0.7	0.3	4.0	6.5	11.0	13.5	13.1	13.5	15.7	13.1	8.5	7.3	-	-
Reclaimed Reservoir Storage, AF	145.5	138.6	140.5	122.8	108.9	84.8	73.2	75.0	73.2	65.9	75.0	96.4	103.9	-	-
Supplemental Domestic Water Added, AF	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.5

RECYCLED WATER SYSTEM DEMAND															
NON DOMESTIC WATER USER	ALLOC. AF	8% JAN	17% FEB	25% MAR	33% APR	42% MAY	50% JUN	58% JUL	67% AUG	75% SEP	83% OCT	92% NOV	100% DEC	TOTAL	ALLOC. %
Dahlia Court	8.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.4	29.2%
Dove Canyon Golf Course	106.7	5.8	13.3	21.1	26.3	34.9	52.9	48.7	54.4	41.0	20.9	12.0	2.5	333.9	313.0%
Dove Canyon Master Association	279.3	13.0	5.0	14.0	21.7	28.0	24.8	28.7	24.3	23.9	17.6	6.3	1.8	209.0	74.8%
Robinson Ranch	80.2	0.8	1.0	1.2	1.7	2.4	5.0	3.3	3.7	3.0	1.9	0.5	0.5	24.7	30.9%
Trabuco Highlands	159.7	1.2	2.3	5.0	6.9	9.8	10.3	10.2	7.5	7.8	4.5	1.7	0.7	67.9	42.5%
City of RSM	0.1	0.01	0.0	0.00	0.00	0.00	0.00	0.02	0.07	0.02	0.1	0.0	0.0	0.25	194.6%
Construction Water	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Sakaida Nursery	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
SMWD	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	7.7	19.0	34.9	48.6	114.5	N/A
TY Nursery	17.9	0.0	0.0	20.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.9	116.7%
TOTAL, AF	653.2	21.1	21.7	62.2	56.8	75.2	93.1	91.1	94.6	83.6	64.2	55.6	54.5	773.6	118.4%
PERCENTAGE OF NDW ALLOCATION/YEAR		3.2%	6.6%	16.1%	24.8%	36.3%	50.5%	64.5%	79.0%	91.8%	101.6%	110.1%	118.4%		
TOTAL ANNUAL AVG. NDW AVAILABLE**	774.36														

URBAN RUNOFF CAPTURE AND REUSE															
DISTRICT FACILITY		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	FIVE YEAR AVG
Shadow Rock Detention Basin Production		0.01	0.01	0.03	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.08	0.1	0.29	14.2
Dove Tick Creek Production*	<i>Dry Season</i>	7.4	7.1	1.1	4.6	2.4	2.7	2.2	11.1	1.9	0.0	0.0	0.0	40.5	58.8
	TCWD Portion	7.4	7.1	1.1	2.3	1.2	1.4	1.1	5.6	0.9	0.0	0.0	0.0	28.0	-
	SMWD Portion	0.0	0.0	0.0	2.3	1.2	1.4	1.1	5.6	0.9	0.0	0.0	0.0	12.5	-
Dove Lake Water Pumped		0.0	0.0	0.0	0.0	0.0	40.2	62.7	49.4	30.8	45.6	35.4	0.0	264.1	185.8
Dove Lake Free Board, Ft		3.9	3.1	1.2	0.8	0.8	2.5	7.6	12.3	12.7	20.1	16.8	13.0	-	-
Dove Lake Storage, AF		161.0	165.0	176.3	177.3	177.3	176.0	95.0	54.0	46.3	28.5	33.2	35.0	-	-
Total Rainfall, In.		0.0	0.5	1.5	0.01	0.0	0.0	0.0	0.0	0.0	0.4	5.0	2.8	10.3	14.7

* SMWD share of Dove/Tick Pump Station Dry Season Water is 50% of production. Offline during the month of October 2022.

** Based on 5-Year Average Reclaimed Water Reservoir Base Supply & Recycled Water Production

TRABUCO CANYON WATER DISTRICT
Sewer System Management Plan (SSMP) Quarterly Report

Report Date: January 1, 2022
Report Period: Fourth Quarter 2022
Prepared By: Oscar Ulloa, Wastewater Operations Superintendent

District Sub-Section	Santiago/Portola Hills			Dove Canyon			Rancho Cielo/Walden			Robinson Ranch/Trabuco Highlands		
	Total Amount	Amount Completed	% Completed	Total Amount	Amount Completed	% Completed	Total Amount	Amount Completed	% Completed	Total Amount	Amount Completed	% Completed
Sewer Line Cleaned, Feet	44,625	25,029	56%	64,135	0	0%	29,865	0	0%	59,170	0	0%
Manholes, Inspected/Cleaned	205	90	44%	212	0	0%	124	0	0%	236	0	0%
Manholes Needing Repair	0	0	0%	0	0	0%	0	0	0%	0	0	0%
Wet Wells, Inspected/Cleaned	2	2	100%	3	3	100%	1	1	100%	2	2	100%
Lift Stations, Inspected/Maintained	2	2	100%	3	3	100%	1	1	100%	2	2	100%
Grease Interceptors Inspected	2	2	100%	2	2	100%	10	10	100%	n/a	n/a	n/a

Note: All Sewage Lift stations are inspected 3-4 times a week

Contract Services	O'Neill Park/OCFA			The Oak's		
	Total Amount	Amount Completed	% Completed	Total Amount	Amount Completed	% Completed
Sewer Line Cleaned, Feet	12,700	0	0%	1,550	0	0%
Manholes, Inspected/Cleaned	95	0	0%	5	0	0%
Manholes Needing Repair	0	0	0%	0	0	100%
Wet Wells, Inspected/Cleaned	1	1	100%	2	2	100%
Lift Stations, Inspected/Maintained	1	1	100%	1	1	100%
Grease Interceptors Inspected	0	0	0%	0	0	100%

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 1, 2023**

OPERATIONAL MATTERS

ITEM 8: MAINTENANCE DEPARTMENT UPDATES

The following is a brief report of work completed by Maintenance staff for **January 2023**.

Projects and Repairs

Maintenance staff performed and/or completed the following tasks and projects:

Water Operations

1. Worked with TESCO Controls and Hydrotech Electric on SCADA system improvements at Topanga Booster Pump Station.
2. Assisted Water Operations on the repair of a 10" water transmission main on the access road to T-Y Nursery.
3. Assisted Water Operations, TESCO Controls, Caterpillar, and Hydrotech Electric to troubleshoot backup generator issues during the high wind weather events.

Wastewater Operations

1. Assisted Wastewater Operations and Myers Marine on repairs to the Dove Dam vent pipe.
2. Assisted Wastewater Operations in monitoring sewer lift stations during significant rain events to prevent SSOs.
3. Assisted Wastewater Operations and Ferreira Construction on the installation of the Heritage Sewer Lift Station bypass structure.
4. Removed downed trees on the access road to the Robinson Ranch Wastewater Treatment Plant.

Projects and Repairs

Maintenance staff performed and/or completed the following tasks and projects:

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

EXHIBITS

None

CONTACTS (staff responsible): PEREA/STROUD

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 1, 2023**

REGULATORY AND OTHER MATTERS

ITEM 9: OTHER MATTERS/REPORTS

Other Matters/Reports from the General Manager and/or District staff may be provided at the time of the Engineering/Operational Committee Meeting.

RECOMMENDED ACTION:

Hear Other Matters/Reports that may have arisen after the posting of the agenda.

EXHIBITS

None

CONTACTS (staff responsible): PALUDI/PEREA