



CALAVERAS COUNTY WATER DISTRICT ENGINEERING COMMITTEE MEETING

OUR MISSION

Protect, enhance, and develop Calaveras County's water resources and watersheds to provide safe, reliable, and cost-effective services to our communities.

2021-2026 Strategic Plan, Adopted April 28, 2021, can be viewed at this [link](#)

Engineering Committee
Thursday, April 13, 2023
2:00 p.m.

Calaveras County Water District
120 Toma Court
San Andreas, California 95249

Board Chambers are open to the public and the following alternative is available to members of the public who wish to participate in the meeting virtually:

Microsoft Teams meeting

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Meeting ID: 254 715 173 304 Passcode: FWqZ7q

Or call in (audio only)

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Phone Conference ID: 924 089 263#

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ORDER OF BUSINESS

CALL TO ORDER / PLEDGE OF ALLEGIANCE

1. ROLL CALL
2. PUBLIC COMMENT
3. APPROVAL OF MINUTES: For the meeting of February 28, 2023
4. NEW BUSINESS
 - 4a Fire Hydrant Meter Service Discussion
(Damon Wyckoff, Director of Operations)

COMMITTEE MEMBERS

Director Davidson, Chair

Russ Thomas, Director

5. OLD BUSINESS

5a FY 2023-24 Update to District's Five-Year Capital Improvement Program
(Damon Wyckoff, Director of Operations)

5b Capital Improvement Updates
(Engineering Department)

5c Other Updates
(Engineering Department)

6.* GENERAL MANAGER COMMENTS

7.* DIRECTOR COMMENTS OR FUTURE AGENDA ITEMS

8. NEXT COMMITTEE MEETING: To be determined

9. ADJOURNMENT

Mr. Wyckoff reviewed the proposed Capital Improvement Program (CIP) with the Committee which includes water and wastewater system infrastructure and targets critical project priorities. A number of projects were removed from the CIP to ensure a viable increase to the rates, in consideration of the future Rate Study. Kevin Williams gave brief descriptions of the projects included in the program and the other projects that were removed. Mr. Wyckoff explained that the District will continue to look for other funding sources such as grants and loans to help fund these projects. The Committee and staff discussed the cost of the infrastructure needs which exceed annual funding sources. The Committee recommends presenting the CIP to the full Board.

**4b Sewer System Management Plan (SSMP) Update
(Damon Wyckoff, Director of Operations)**

Mr. Wyckoff reviewed the State Water Resources Control Board's newly adopted Waste Discharge Requirement General Order which will include changes to the District's Sanitary Sewer Management Plan (SSMP). These changes will become effective June 4, 2023. The Committee and staff discussed the updated requirements and impacts to the District.

5. OLD BUSINESS

**5a* Capital Improvement Project Updates
(Engineering Department)**

Engineering staff gave brief updates on the following projects:

- District Corp Yard (CIP 11101) – The interior improvements including the insulation and drywall have been started. The project should be substantially complete by the end of March. Staff will begin planning the organized move into the new building.
- Jenny Lind Water System A-B Water Transmission Pipeline (CIP 11088) – Coleman Engineering continues to work on the 100% design and the pot holding plan. The project should go to bid in March with award of a construction contract by May and the start of construction in Summer of 2023.
- West Point Water Supply Reliability Improvements (CIP 11106) – The pre-purchased treatment filter is scheduled for delivery by mid-March, which will be stored near the project site.
- West Point and Wilseyville WWTP Consolidation Project (CIP 15091) – This project has been on hold due to weather conditions with plans to continue in Spring.
- Copper Cove Lift Stations 6, 8, 15, 16 and Force Main Project (CIP 15076/15080) – Mozingo has installed most of the force main portion of the project. The District's Underground Utility Crew will be replacing water service lines in the Poker Flat service area once Mozingo moves to a new location.
- Ebbetts Pass Redwood Tanks Project (CIP 11095) – The Flume Court tank is expected to go online in the next week and the Larkspur Tank will be demoed once weather permits.

- Arnold Wastewater Secondary Clarifier Improvement Project (CIP 15095) – The consultant, HydroScience will provide the 100% plan to CCWD by the end of the month. The project will then be advertised for bids in the next two months and a construction contract will be awarded by May 2023.

**5b* Other Updates
(Engineering Department)**

There were no items discussed.

6. GENERAL MANAGER COMMENTS

Mr. Minkler gave updates on a recent meeting with a grant consultant to seek funding opportunities for the District and the on-going work with the US Army Corps for the Copper Cove wastewater projects.

7. DIRECTOR COMMENTS OR FUTURE AGENDA ITEMS

Director Thomas discussed the District’s fire hydrant flushing program and the participation of the local fire departments. Mr. Wyckoff gave some clarification.

8. NEXT COMMITTEE MEETING

Tuesday, May 2, 2023 at 2:00 p.m.

9. ADJOURNMENT

There being no further business, the meeting adjourned at approximately 2:52 p.m.

Respectfully submitted,

Kate Jesus
Engineering Coordinator

Agenda Item

DATE: April 13, 2023

TO: Engineering Committee, Calaveras County Water District
Michael Minkler, General Manager

FROM: Damon Wyckoff, Director of Operations

RE: Fire Hydrant Meter Service Discussion

SUMMARY

In September 2021, CCWD amended the Temporary Water Service policy which is included in the Rules and Regulations, Section 21, A2. The amendments included:

- The fill station and hydrant meters are available only to provide temporary construction water for construction use for a period not to exceed 90 days, unless an extension is approved by the General Manager.
- Only District provided hydrant meters are permitted.
- There is no longer a five (5) day grace period before the daily base charge of \$7 is charged.
- The security deposit for the hydrant meter increased from \$200 to \$500.
- The installation and removal charge for the hydrant meter increased from \$30 to \$50.

The following fees are associated with a fill station and hydrant meter request:

Charge Type	Payment Terms	Fill Station	Hydrant Meter
Security Deposit	Before Installation	None	\$500
Installation Charge	Before Installation	\$30	\$50
Consumptive Rates	Monthly and/or Disconnection of Service	Irrigation / Landscape / Other	Irrigation / Landscape / Other
Daily Base Charge	Monthly and/or Disconnection of Service	\$7	\$7
Removal Fee	Disconnection of Service	\$30	\$50

Installation fees and deposits are required in accordance with the Hydrant Meter/Fill Station Service fees above. Once an application has been authorized by the District, service will be provided, subject to availability of staff, equipment, and facilities. Any unauthorized use of the water or District equipment will be subject to immediate termination of the service and could face being billed a water loss fee of \$200 and can be

held liable for up to \$2,500 per day for violating the Business & Professional Code Section 17200, in addition to any additional fees due to damage caused to the District's property due to unlawful diversion.

For comparative purposes between the average water hauler and residential customer, the costs are as follows:

Example of Water Hauler Cost (2,500 gallon or 334 cubic feet truck for 60 days)

Charge	Cost
Installation Charge	\$50
Consumptive Rate of \$1.91 per 100 cf <i>(as of July 16, 2022)</i>	\$6.38
Daily Base Charge of \$7/per day	\$420
Removal Fee	\$50
TOTAL	\$526.38

Example of Residential Water User (2,500 gallons or 334 cubic feet for 2-month billing cycle)

Charge	Cost
Bi-Monthly Water Base Rate Charge <i>(as of July 16, 2022)</i>	\$120.35
Consumptive Rate of \$1.17 per 100 cf <i>(as of July 16, 2022)</i>	\$3.91
TOTAL	\$124.26

Hydrant Meter Service: The fill station and hydrant meters are available only to provide temporary construction water for construction use, for a period not to exceed 90 days, unless an approved extension is approved by the General Manager. The customer is required to fill out and sign an application for service which includes a description of intended water use, location of where the construction is to occur, and an estimate of anticipated usage. The application includes a service agreement establishing liability for any accrued costs for water consumption/base daily charges, District staff and administration, damage to District infrastructure, and unscheduled maintenance to the District water system, including flushing, due to improper use of hydrant meter equipment/facilities. Use of this water for irrigation, landscaping, or resale is strictly prohibited. Only District provided hydrant meters are permitted and all water pulled from a hydrant can only be used on the location specified on the application.

The applicant, or their contractor, must be able to show proof of an approved hydrant meter service to draw water from a hydrant.

If at any time the District declares mandatory conservation measures are in effect, the District may limit the use by which hydrant meter pulls may be used for.

Installation fees and deposits are required in accordance with the Hydrant Meter/Fill Station Service Fees chart below. Once an application has been authorized by the District, service will be provided, subject to availability of staff, equipment, and facilities. Any unauthorized use of the water or District equipment will be subject to immediate termination of the service and could face being billed a water loss fee of two hundred (\$200) dollars and can be held liable for up to \$2,500 per day for violating the Business & Professional Code Section 17200, in addition to any additional fees due to damage caused to the District’s property due to unlawful diversion.

Hydrant meter or fill station services will be billed monthly at the irrigations/Landscape/Other consumptive rate and are subject to the same collection policies and procedures as other water and sewer services in their applicable service areas. Rates established for their usage are included in the Hydrant/Fill Station Service Fees chart below.

The customer will also be charged for any other costs as defined in the service agreement above. After payment is received in full for all charges related to this service, the unused portion of the security deposit will be returned to the customer. The General Manager or his designated representatives can provide written authorization for exceptions to this policy not to exceed \$1,000.

Charge Type	Payment Terms	Fill Station	Hydrant Meter
Security Deposit	Before Installation	None	\$500
Installation Charge	Before Installation	\$30	\$50

Consumptive Rates	Monthly and/or Disconnection of Service	Irrigation/Landscape/ Other	Irrigation/ Landscape/ Other
Daily Base Charge	Monthly and/or Disconnection of Service	\$7	\$7
Removal Fee	Disconnection of Service	\$30	\$50

This policy will become effective for all hydrant meters as of its effective date.

Hydrant Meter/ Fill Station Service Agreement



Phone: (209) 754-3181 | **Email:** katej@ccwd.org | **Website:** www.ccwd.org
Address: Calaveras County Water District, 120 Toma Ct., San Andreas, CA 95249
Customer/Billing Information

Customer Last Name / Business	First name	Phone (<input type="checkbox"/> Cell <input type="checkbox"/> Home <input type="checkbox"/> Business)	
Billing Address	City / town	State	Zip Code
Email Address			

Meter Information – Desired Location

Street Address	Lot Number	Assessor's Parcel Number	Start Date	Duration
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The fill station and hydrant meters are available only to provide temporary construction water for construction use, maximum of 90 days.

Address Information of Construction Parcel:

Physical Address of Parcel	Date of Construction Water Need	+90 Days equals removal date

Will a Water Hauler Company be Used? Yes _____ No _____

Water Hauler Name _____

Purpose of Meter/Fill Station:

- Fire Suppression Dust Control Construction

Service Area (Note Water MUST be used in the same area as the Parcel):

- Copperopolis Valley Springs West Point
 Ebbetts Pass

Fill Station:

Valley Springs – Fill station is limited only those customers who have a top loading water truck/tank

Billing & Collection Policy: All services are charged on a monthly basis and billed bi-monthly unless otherwise stated. All charges are due and payable upon presentation of a statement. If the charges remain unpaid for 25 days from the date of mailing the District's bill for services, and a "Notice of Intention to Shut Off Service for Non-Payment" will be sent. A delinquency charge will be imposed at this point of \$10. If your account remains unpaid for ten (10) days after the reminder notice, service will be discontinued and a lien may be filed on your property, pursuant to sect 31701.6 of the Water Code of the State of California.

Service Agreement: I /We hereby agree to abide by and conform to the rules and regulations of the Calaveras County Water District governing the distribution and sale of water/sewer services in the above indicated improvement district as now in effect or hereafter adopted by the Board of Directors of said Calaveras County Water District. I/We hereby request service.

PLEASE SIGN AND RETURN OR SERVICE MAY BE AFFECTED.

Signature of Owner	Date
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This form MUST be available for inspection by the applicant, contractor, or water hauler for proof of authority to pull water

Charge Type	Payment Terms	Fill Station	Hydrant Meter
Security Deposit	Before Installation	None	\$500
Installation Charge	Before Installation	None	\$50
Consumptive Rates	Monthly and/or Disconnection of Service	Irrigation/Landscape/Other	Irrigation/Landscape/Other
Daily Base Charge	Monthly and/or Disconnection of Service	\$7	\$7
Removal Fee	Disconnection of Service	\$30	\$50

Note: The security deposit may be waived if an existing customer or if applicable credit worthiness is approved.

Bi-Monthly Water Consumption Rates per 100 cf - Irrigation/Landscape/Other					
Water Use (cf)	Jul 16, 2018	Jul 16, 2019	Jul 16, 2020	Jul 16, 2021	Jul 16, 2022
0 - 1,000	\$1.78	\$1.81	\$1.84	\$1.87	\$1.91
1,001 - 6,000					
6,001 - 12,000					
Over 12,000					



CALAVERAS COUNTY

DISTRRICT ATTORNEY'S OFFICE

NOTICE

Obtaining a utility service, such as the water provided by CCWD, without paying for it, is illegal under Penal Code Section 498(b). In certain circumstances, a person stealing water service can be punished by up to three years in jail and a \$10,000 fine. If water service is stolen by a business, additional fines of up to \$2,500 per day can be imposed under Business & Professions Code Section 17200, et seq.

The most common way water theft occurs is when someone connects to a fire hydrant without proper authorization and protection. Such connections are a crime, and they are a danger to the public because they pose a risk of "backflow" – which can then contaminate our drinking water supply. Tampering with any CCWD equipment to steal water, or helping or allowing another person to do so, is also illegal.

Water theft is a crime, and it can pose a risk to our water supply. Please help by reporting damage/tapping into fire hydrants to 209-754-3543 or customerservice@ccwd.org

Agenda Item

DATE: April 13, 2023

TO: Engineering Committee, Calaveras County Water District
Michael Minkler, General Manager

FROM: Damon Wyckoff, Director of Operations

RE: Review of the FY 2023-24 District's Five-Year Capital Improvement Program Update

SUMMARY

This information was presented to the Engineering Committee at their February 28th meeting and the Committee directed staff to review with the Board. A review with the Board of Directors occurred on March 8th. Based on that review, Staff were directed to work to incorporate more projects related to the improvement of the La Contenta Wastewater Treatment plant and Collections System. The attached Five-Year CIP reflects the most recent Board recommendations.

OVERVIEW

The Capital Improvement Program (CIP) is reviewed and amended each fiscal year before preparing the annual budget. The proposed CIP includes both water and wastewater system infrastructure and targets critical project priorities including:

- Worker safety
- Reliability and redundancy
- Growth and future expansion
- Hazard Mitigation (Wildfire, Flood, etc.)
- Renovation and Replacement
- Water Resources and water supply
- Permit and regulatory compliance

The CIP is funded by Capital Renovation and Replacement (Capital R&R) revenues, expansion fees, grants and other sources. The Capital R&R program annually generates about \$3 million for water and \$1 million for wastewater projects. Through the Capital R&R program, the District is making a commitment to systematically reinvest in its water and wastewater facilities to maintain service reliability, preserve functionality, and comply with increasingly more stringent regulatory requirements. The cost of the District's infrastructure needs significantly exceed annual funding sources. Therefore, securing grants and/or loans is critical to moving some major projects forward. Staff continue to work to identify grants, loans, and other funding opportunities as may become available to help fund projects.

It is important to point out that the Engineering Department recently removed many critical projects from the CIP. The District is currently conducting Rate Study and CIP costs are a considerable portion of rates. To ensure a viable increase in rates, the CIP was reduced. Projects that have been removed from the CIP include:

- The Jenny Lind Water Treatment Plant Intake Structure
- Copper Cove Lift Station Rehabilitation
- Middle Fork Pump Station and Transmission Line Replacement
- Sheep Ranch Distribution System Replacement
- Arnold Lift Station Rehabilitation

The difficulty of culling projects from the CIP has been discussed at both Engineering Committee and CCWD Board Meetings. The District has more critical project priorities than it has money. This means the District cannot remediate the risk of infrastructure failure and customer exposure to supply/reliability issues at the rate necessary to lower the risk. The Engineering Team does not intend to let the critical project priorities that we excluded from the CIP lie fallow. Staff will aggressively pursue grants and other sources of funding to push as many projects into construction as possible.

Attached are worksheets for both water and wastewater segments created by staff that will be used in preparing the FY 2023-24 CIP Budget. A project priority list is also attached with un-funded projects highlighted.

FINANCIAL CONSIDERATIONS

The Capital Improvement Projects slated for FY 2023-24 will be incorporated into the Fiscal Year 2023-24 annual budget, which will be presented to the Board in June for adoption. Multi-year projects may fully obligate funds for 2-3 years until project completion.

Attachments: Five Year CIP for Water & Sewer Projects

Five Year Capital Improvement Program
Wastewater Projects
FY 2023-24 thru FY 2027-28

Project No	Wastewater Projects Project Description	Estimated Project Costs	Adjusted Budget	Expenses FY 22-23	5-Year Cash Flow				
					FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28
DIV 1	La Contenta / Wallace Service Area								
15097	LC Biolac, Clarifier, UV Improvements, & Sprayfield	6,500,000	6,500,000	-	-	500,000	-	2,000,000	4,000,000
15092	Huckleberry Lift Station Improvements	1,123,038	1,123,038	-	-	1,123,038	-	-	-
DIV 2	West Point / Wilseyville / Vallecito								
15091	West Point/Wilseyville Consolidation Project	10,000,000	10,000,000	5,000,000	5,000,000	-	-	-	-
DIV 3	Ebbetts Pass								
15095	Arnold Secondary Clarifier/WWTP Improvements	8,000,000	8,000,000	150,000	2,250,000	5,600,000	-	-	-
15106	FM UV Disinfection System Replacement	500,000	500,000	200,000	300,000	-	-	-	-
TBD	Arnold Lift Station 2 & 3 Rehab	500,000	500,000	-	-	-	-	500,000	-
DIV 4	Copper Cove								
15076	CC Lift Station 6, 8 & Force Main Bypass	5,500,000	5,500,000	3,000,000	2,500,000	-	-	-	-
15080	CC Lift Station 15 & 18 Rehab/Replacement	3,600,000	3,600,000	1,000,000	2,600,000	-	-	-	-
15094	CC Tertiary, DAF, and UV Improvements (CCWD Share)	1,804,300	1,804,300	250,000	706,500	847,800	-	-	-
15112	CC Pond 6 Dam Raise (CCWD Share)	4,385,750	4,385,750	500,000	353,250	1,766,250	1,766,250	-	-
TBD	CC Lower/Upper X-Country Gravity/Force Main	1,000,000	1,000,000	-	-	-	500,000	500,000	-
	Other								
15109	Collections System Rehab and I&I Mitigation	700,000	700,000	150,000	150,000	150,000	150,000	150,000	100,000
Total Wastewater Projects		43,613,088	\$ 43,613,088	\$ 10,250,000	\$ 13,859,750	\$ 9,987,088	\$ 2,416,250	\$ 3,150,000	\$ 4,100,000

Five Year Capital Improvement Program
Water Projects
FY 2023-24 thru FY 2027-28

Project No	Water Projects Project Description	Estimated Project Costs	Adjusted Budget	Expenses FY 22-23	5-Year Cash Flow				
					FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28
DIV 1	La Contenta / Wallace								
11083W	Wallace Tanks	1,500,000	1,500,000	-	-	-	-	-	1,500,000
DIV 2	West Point / Wilseyville / Vallecito								
11106	West Point Backup Filter	2,380,000	2,380,000	1,850,000	530,000	-	-	-	-
<i>TBD</i>	West Point Regulator Repair/Tule Removal	200,000	200,000	-	200,000				
DIV 3	Ebbettss Pass								
11083S	Ebbetts Pass Sawmill Tank	3,050,000	3,050,000	50,000	-	-	3,000,000	-	-
11103	Hunters Raw Water Pumps (Hazard Mitigation)	2,400,000	2,400,000	400,000	2,000,000	-	-	-	-
11108	Big Trees Pump Stations 4 & 5 Replacement	2,100,000	2,100,000	-	-	-	450,000	1,650,000	-
11109	White Pines Lake - Tule Removal	96,715	96,715	-	96,715	-	-	-	-
11115	EP Larkspur Pump Station Rehab/Electrical	1,500,000	1,500,000	-	-	-	250,000	1,250,000	-
DIV 4	Copper Cove								
11083C	Copper Cove Tank B/Clearwell	8,600,000	8,600,000	600,000	5,000,000	3,000,000	-	-	-
11104	Lake Tulloch Submerged Water Line Crossing	500,000	500,000	-	-	500,000	-	-	-
11122	CC B-C Trans Pipeline & Pump Station	9,000,000	9,000,000	-	3,000,000	6,000,000	-	-	-
DIV 5	Jenny Lind								
11083J	Jenny Lind Clearwell #2	350,000	350,000	-	350,000	-	-	-	-
11088	Jenny Lind Tank A-B Transmission Main	13,500,000	13,500,000	363,890	8,000,000	5,136,110	-	-	-
11119	Jenny Lind Tanks A, B, E, & F Rehab	1,500,000	1,500,000	-	-	-	-	500,000	1,000,000
11131	JL Water Treatment Plant - Rehab Filters 1&2	960,000	960,000	450,000	510,000	-	-	-	-
	Other								
<i>TBD</i>	Tank Rehab Program	6,000,000	6,000,000					3,000,000	3,000,000
Total Water Projects		53,636,715	\$ 40,410,000	\$ 1,413,890	\$ 19,686,715	\$ 14,636,110	\$ 3,700,000	\$ 6,400,000	\$ 5,500,000

Agenda Item

DATE: April 13, 2023

TO: Engineering Committee, Calaveras County Water District
Michael Minkler, General Manager

FROM: Engineering Department

RE: Capital Improvement Project Updates

District Corp Yard (CIP 11101)

Plummerbuilt Construction began work on the Interior Improvements for the Maintenance Building in December 2022 and is currently working on completing the final work activities including wall trim, plumbing fixtures and acoustical ceiling tiles. District electrical staff will complete the electrical and lighting fixtures, security and network items. Flooring and paint were eliminated from Plummerbuilt's construction contract as cost saving measures. These work items will be completed by District staff as time and resources allow. Delivery of the standby generator was postponed until August; this generator was ordered in March 2022. Operations, Purchasing and Maintenance Staff have started moving materials and equipment into the new shop, with the anticipation of being completely out of the rental spaces by the end of April.

AMI / AMR Project (CIP 11096)

Mueller Systems is waiting on the final deliveries of the outstanding lid orders which are scheduled to arrive this month. These remaining lids are custom and backordered shipments from the manufacturers. District staff is going back through some of the meter installations as quality checks to create a punchlist that will be corrected prior to releasing Mueller from their Contract. Additionally, Customer Service staff has created a punchlist will all the outstanding items for Mueller to correct for data transfer and billing. Staff have been working with Mobile MMS and Mueller to integrate the meter information into the existing work order system and we are waiting on Mueller to provide the API code necessary to commission the meters through MMS. Mueller released a new Apple iPhone application that allows you to use your phone instead of handheld device for field installation of meters. The new application is more streamlined and user friendly than the original handheld device.

Jenny Lind Water System A-B Water Transmission Pipeline (CIP 11088)

This project includes replacing 20,000-ft of water transmission pipeline to improve conveyance from the Tank A to Tank B sites. The pipeline will be aligned along Hartvickson, Baldwin, Usher and Wind River Court. It will consist of approximately 13,400-ft of 14-inch diameter pipe and 6,500-ft of 12-inch diameter pipe. The piping

material will be ductile iron. The consultant, Coleman Engineering, is designing the project. Coleman will complete the 100% design deliverable pending additional data from a utility potholing effort. ECORP consulting has completed a draft environmental document (IS/MND) for CEQA compliance. The project is anticipated to go to bid this Spring. Construction would start summer of 2023 and finish by the end of year 2024.

West Point Water Supply Reliability Improvements (CIP 11106)

CCWD received Prop 1 Grant funds through UMRWA and DWR to supplement the cost of purchasing and installing a backup water filter at the West Point Water Treatment Plant. K.W. Emerson (KWE) mobilized to the site in July 2022 and started work on underground piping installation and potholing existing piping within the foundation subgrade for a new metal building. All underground piping and concrete foundations for the filter and metal building were in-place by February 10, 2023. The pre-purchased treatment filter unit was delivered by WesTech on April 3, 2023 to the West Point Water Treatment Plant.

West Point and Wilseyville Wastewater Consolidation Project (CIP 15091)

The Water Board staff completed the Final Budget Approval (FBA), which was then executed by the General Manager. Staff continue to review and approve material submittals. K.W. Emerson (KWE) completed the mass grading/earthwork, raised the pond levees, replaced fencing around ponds, relocated the 8-inch FE line and started working on the mass grading for the sludge basins and sludge drying beds. KWE is waiting for clear weather to return to the site. KWE installed hydroseeding and is maintaining BMP's for the winter in accordance with the Storm Water Pollution Prevention Plan (SWPPP). To date, KWE progress payments total \$1.19 million and balance of work remaining to finish is \$7.49 million.

Copper Cove Lift Stations 6, 8, 15 & 16 and Lift Stations 12 & 13 Force Main Bypass Project (CIP 15076/15080)

The construction contract was awarded to Mozingo Construction at the July 27, 2022 Board meeting. Mozingo has installed 1700-ft of 6-inch force main on O'Byrnes Ferry Road. George Reed completed the final paving of this portion in October 2022. Mozingo re-mobilized in February 2023 and completed another 3,500-ft of 6-inch force main on Conner Estates Drive, Brett Harte Drive, Jimmy Way and Poker Flat Rd. District Staff and the contractor have monthly meetings with HOA's to discuss the project schedule. Construction will begin on the four (4) lift stations this summer, but Mozingo's schedule has been delayed by long lead times for critical materials.

Copper Cove Wastewater Treatment Plant Tertiary Treatment Improvements and Facilities Plan (CIP 15094)

CCWD has made significant progress with USACE on the Draft Section 219 Letter Report agreement. CCWD has retained Hydroscience Engineers for engineering and design services and Dewberry for environmental services for CEQA and NEPA compliance. The project includes adding Dissolved Air Flootation (DAF) units and making tertiary filter improvements. CCWD's is working with USACE to sign-off an initial increment of \$2 million to complete design, environmental and pre-purchase of the DAF equipment.

Copper Cove Wastewater Treatment Plant – Pond 6 Dam and Effluent Storage Reservoir Enlargement Project (CIP 15112)

This project is being coordinated with the tertiary treatment plant improvements through the Letter Report/Agreement between CCWD and USACE. The project will raise the dam by 10 feet and increase the capacity of the effluent storage reservoir (Pond 6) from 205 AF to 442 AF. Also, the project includes relocating a 10-inch raw water line, 8-inch sewer force main, pumps and other existing facilities in conflict with raising the dam. The estimated construction cost is \$11 million. The consultant, Wagner & Bonsignore, is designing the dam and has resubmitted a project application to the Division of Safety of Dams (DSOD). DSOD is starting its review. Hydrosience Engineers is providing the design for relocating the existing pipelines, pumps and other facilities. Dewberry is providing environmental services for CEQA and NEPA. An updated version of the 2009 Environmental Impact Report (EIR) will likely be relied upon for the project.

Copper Cove Water System Improvements Project (CIP 11111)

Peterson Brustad Inc. (PBI) was awarded a contract at the May 11, 2022 Board meeting. Since that time PBI has worked to complete multiple preliminary design memo's for staff's review and comment. Phase 1 and 2 improvements include rehabilitating the existing clearwell and existing steel Tank-B, adding a new second clearwell, and replacing the existing redwood Tank-B. PBI has completed the 90% design plans for Phase 1 and 2 which are being reviewed by staff. CCWD proposes to bid and award the Phase 1 and 2 improvements in Spring 2023 and complete construction by December 2024. Also, PBI is currently working with staff evaluating alternatives for a critical project to replace the main pump station and transmission pipeline conveying treated water from the WTP to Tank C. This is a substantial project including construction of 12,000-ft of new 16 or 20-inch transmission pipeline, new high horsepower pumps and related electrical upgrades.

Ebbetts Pass Hunters Raw Water Intake Pumps (CIP 11103)

This project is a Hazard Mitigation Grant Project (HMGP) partly grant funded by Cal-OES/FEMA. CCWD with its consultant, Blackwater, has completed the Phase 1 portion of the design which included the 60% Design and the initial Environmental Studies. The Phase 1 Design has been under FEMA NEPA environmental review since April 2022. Since completion of the Phase 1 design, Blackwater Engineers has completed the 90% design, Project Specifications and material Pre-Purchase Specifications. Blackwater is currently on hold until we receive comments back on the NEPA Environmental review that need to be incorporated into the final design specifications. In anticipation of Phase 2 being approved, the District solicited pre-purchase bids for long lead time items including vertical turbine pumps and electrical components. Some of the electrical components for the Project have lead times from the manufactures for more than one year. The District cannot enter into purchase agreements for materials until Phase 2 is approved or the cost for materials could be de-obligated from the grant. Cal-OES has recently been seeing extended review times of over one year on NEPA reviews by Federal Agencies. District staff are working on a time extension with Cal-OES to allow for an additional 12 months due to delays.

Ebbetts Pass Redwood Tanks Hardening (CIP 11095)

This project is receiving significant hazard mitigation grant program (HMGP) funding from Cal-OES/FEMA. The District has been concentrating on completing the four tank locations covered under the Cal-OES/FEMA grant. The tank erection phase of the project should be complete by April 2023 but there are other items of work that will need to be done. Due to material delays, Cal-OES granted a time extension for a final completion date of December 31, 2023. The District has exhausted the funds currently obligated under the grant but staff is currently compiling the cost in excess of the obligated funds and will be requesting the additional funds from Cal-OES. Larkspur Tank location in Forest Meadows is not part of the HMGP Redwood Tank Hazard Mitigation Project but is part of the construction contract with K.W. Emerson and California Aquastore. The Larkspur Tank foundation has not been started as the materials were significantly delayed which pushed start of work into the winter season. The District, along with the contractors, have decided not to start earthwork at this location until winter weather clears. The Larkspur Tank location is within a very congested residential area. The risks of mud flows onto the streets and adjoining properties is too significant to try to complete work without extended clear weather forecast ahead of the work.

Forest Meadows Wastewater Plant / UV System Replacement (CIP 15106)

The District purchased a replacement UV System for the Forest Meadows Wastewater Treatment Plant in 2022. The District's plan was to have the Construction Crew complete the installation of the new unit and associated site improvements based on the Engineering Department's design. While the Construction Crew was completing the rough grading for the project, the effluent line from the filter system was found to be in conflict with the proposed installation plan. This fact resulted in some re-design work on the part of the Engineering Department. Since that time the District's Construction Crew has been inundated with additional storm-related work and will be unable to complete the project. District Staff would like to sole-source (Purchasing Policy 5.02, Section 5c) the installation of the UV System and associated site improvements to CTC Construction. A corresponding memo and staff report will be provided to the General Manager and the full board related to this effort at the April 26th Board Meeting.

Arnold Wastewater Secondary Clarifier Improvements Project (CIP 15095)

The project will provide upgrades to the Arnold Wastewater Treatment Plant. It will add a new secondary clarifier, RAS/WAS pump station, two additional aerobic digesters, and replace the plant's electrical motor controls, backup generator, PLC and SCADA systems. Staff requested to add air blowers and extend air piping for the new aerobic digesters (versus mechanical aerators). The estimated construction cost is \$6.5 million. Staff have progress meetings with the design consultant, HydroScience, on a bi-weekly basis. HydroScience has completed the 100% design plans which are being reviewed by staff. CCWD will advertise the project for bids in the next two months and anticipates bringing a recommendation for award of a construction contract to the Board of Directors in June 2023.

Agenda Item

DATE: April 13, 2023

TO: Engineering Committee, Calaveras County Water District
Michael Minkler, General Manager

FROM: Engineering Department

RE: Other Updates

La Contenta WWTP Septage Receiving Station

The District placed an ad for bids on February 17th for the construction of a new septage receiving station that will improve how the plant receives septage from CCWD pump trucks. A mandatory pre-bid site visit was held on March 14th with 5 contractors in attendance. The District received one bid from ERS Industrial Services in the amount of \$181,800. After review by staff, the bid was rejected, as the allocated project funds included in the FY 2022/23 Capital Outlay budget is \$100,000. Staff will reach out to other local contractors for quotes and provide further information when available.

Copper Valley Town Square

Staff continue to work with CV Development Partners LLC on key issues and proposed development. These include planned redevelopment of the Copper Valley Square complex, and future development of the Sawmill subdivision. The discussion includes requirements for facility improvements including a permanent sewer force main and new lift station on Little John Road to serve Copper Valley Square (convey sewer to the wastewater plant) as well as rehabilitation of the existing lift station within Town Square. Also, a new Reeds Turnpike Water Booster Pump Station is needed to increase potable water delivery to Copperopolis and Copper Valley Square. Staff have reviewed an updated pre-design report for a sewer force main to serve the project. CV Development Partners has retained Weber Ghio to provide final design for the lift station and water booster pump station.

Gold Creek Subdivision Unit 3

The owner was notified on October 19th by letter with a list of outstanding punchlist items prior to project acceptance by CCWD. Punchlist items include furnishing of a 2-year warranty bond and resolution of a cost share for offsite improvements to increase the capacity of the Huckleberry Lift Station. Staff has estimated \$1,123,000 in necessary improvements to Huckleberry Lift Station with a cost share to Gold Creek Unit 3 of \$140,474. Once all punchlist items are corrected, staff can bring the project before the Board for final transfer and acceptance by CCWD.

Jenny Lind Elementary School Force Main Project

This project includes a 20,000-ft sewer force main from the Jenny Lind Elementary School to a connection point with CCWD existing sewer system near Vista Del Lago. The project

is being funded by the Clean Water State Revolving Fund (CWSRF) and CCWD has entered into a prior Letter Agreement with the School Board. Staff and KASL continue to discuss the design of the sewer force main, primary lift station at the Jenny Lind Elementary School and possible locations for a secondary/intermediate lift station near Berkesey Drive and Silver Rapids Road. Properly locating the secondary lift station along the alignment is a key issue. The School District's representative, Hugh Logan, KASL and CCWD will continue to coordinate to ensure an effective project. The new facilities will provide a future ability to provide sewer service to some lots along Berkesey Lane.

North Vista Plaza / LGI Homes

LGI Homes completed a sewer shed analysis as requested by the District. CCWD provided comments on design elements of LGI's plans and LGI completed amendments to those plans. Staff are reviewing the resubmitted plans and will be returning final comments. LGI Homes has retained Coleman Engineering to provide final design of the sewer lift stations. Staff discussed CCWD's design requirements with Coleman Engineering. The Water and Wastewater Facilities Agreement was approved by the Board at the December 14th meeting. At the March 22nd meeting, the Board authorized the District to participate in the Bond Opportunities for Land Development (BOLD) program, which will help facilitate new development including this project. Staff and LGI are evaluating alternatives solutions to correcting a bottleneck in the gravity sewer collection system near Vista Del Lago and Hwy 26, which must be resolved to serve the buildout of LGI's project.

Storm Related Repairs

The Atmospheric River Storms beginning the end of December 2022 and lasting through March 2023 resulted in multiple failures of District roads and infrastructure. CCWD Staff are working with FEMA and CalOES to receive funding for the current disaster declaration DR-4683. This declaration only covers damages incurred from December 27, 2022 to January 31, 2023. CCWD damages from this time period include, the Middle Fork Mokelumne Pump Station intake, the Indian Rock WWTP Road, and fencing at the District's property off Hogan Dam Road in Valley Springs. FEMA expects an additional disaster declaration for February and March of 2023. When this disaster is declared, CCWD will add multiple road repair projects that were damaged during these storms to the request for funding.