



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
Tuesday, February 28, 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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Phone Conference ID: 167 550 195#

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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 January 19, 2023
4. NEW BUSINESS
 - 4a FY 2023-24 Update to District's Five-Year Capital Improvement Program
(Damon Wyckoff, Director of Operations)

COMMITTEE MEMBERS

Director Davidson, Chair

Russ Thomas, Director

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

5. OLD BUSINESS

5a* Capital Improvement Updates
(Engineering Department)

5b* Other Updates
(Engineering Department)

6.* GENERAL MANAGER COMMENTS

7.* DIRECTOR COMMENTS OR FUTURE AGENDA ITEMS

8. NEXT COMMITTEE MEETING: Tuesday, May 2, 2023 at 2:00 p.m.

9. ADJOURNMENT



CALAVERAS COUNTY WATER DISTRICT ENGINEERING COMMITTEE MEETING

MINUTES
January 19, 2023

Directors/Committee Members present:

Russ Thomas
Jeff Davidson

Staff present:

Michael Minkler	General Manager
Kate Jesus	Engineering Coordinator
Damon Wyckoff	Director of Operations
Charles Palmer	District Engineer
Kevin Williams	Senior Civil Engineer
Sam Singh	Senior Engineering Technician
Jared Gravette	Senior Supervisor Construction & Inspection
Jason Knick	Senior Construction Inspector
Jesse Hampton	Plant Operations Manager
Pat Burkhardt	Construction and Maintenance Manager
Rebecca Hitchcock	Executive Assistant/Clerk to the Board
John Brown	Senior Supervisor Treatment Plant Operator

Others present:

Cindy Secada	Committee Member (alternate)
Ralph Copeland	Member of the Public

CALL TO ORDER / PLEDGE OF ALLEGIANCE

Director Davidson called the meeting to order at 2:00 p.m.

1. PUBLIC COMMENT

None.

2. APPROVAL OF MINUTES

The September 6, 2022 and November 1, 2022 minutes were approved by a motion from Director Thomas and seconded by Director Davidson.

3. NEW BUSINESS

a. Fleet and Equipment Fueling Regimen

Mr. Wyckoff gave a presentation on the District's fuel purchasing, handling, storage, and re-fueling regimen, which was requested by Vice President Thomas after recent increases in fuel prices. Mr. Wyckoff reviewed the use of the gas purchasing program through WEX including the

flexibility and cost savings. There was brief discussion on the current use, storage and previous tracking and reporting of red diesel fuel.

4. OLD BUSINESS

a. Capital Improvement Project Updates

Engineering staff gave brief updates on the following projects:

- District Corp Yard (CIP 11101) – The interior improvements were started on December 12th by the contractor, Plummerbuilt, and District electrical staff will install the electrical and lighting fixtures. PG&E will be setting the new transformer, pulling underground conductors and energizing the panel within the next few weeks. District staff will be installing the fire water line and backflow device for the fire sprinkler system. The project should be substantially complete by the end of March. Staff will begin planning the organized move into the new building.
- AMI/AMR Project (CIP 11096) – Mueller has approximately 1,300 plastic meter box lids to replace the existing concrete lids, which are custom sizes not readily available or on backorder. Punchlist items are being created by staff including outstanding issues with the Mueller interface with Tyler software. The Mueller contract has been extended 212 calendar days allowing time for the delivery and installation of the box lids, which will be start in March.
- Jenny Lind Water System A-B Water Transmission Pipeline (CIP 11088) – Coleman Engineering will have the 100% design completed by the end of January. 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.
- Jenny Lind Water Treatment Plant Filter Rehab Project (CIP 11131) – The project was put out to bid on November 30th and received one bid at the bid opening on December 15th from ERS Industrial Services, Inc. in the amount of \$906,260. Staff recommended rehabbing one filter this fiscal year (2022-23) and the other filter in the 2023-24 fiscal year due to ongoing increases in material costs. The Committee agreed. The contract award will be brought to the full Board at the February 8th meeting.
- West Point Water Supply Reliability Improvements (CIP 11106) – KW Emerson will complete the building and foundation pads once weather permits. The pre-purchased treatment filter is scheduled for delivery by the end of January, which will be stored near the project site.
- West Point and Wilseyville WWTP Consolidation Project (CIP 15091) – KW Emerson has relocated the 8-inch FE line and started the mass grading for the sludge basins and drying beds. Work will continue once weather permits.
- Copper Cove Lift Stations 6, 8, 15, 16 and Force Main Project (CIP 15076/15080) – Mozingo will re-mobilize at the end of January to complete work on the force main.
- Copper Cove WWTP Tertiary Treatment and UV Improvements and Facilities Plan (CIP 15094) – Staff and US Army Corps of Engineer's staff have made significant progress on the Draft Letter Report/Agreement for the project funding. The engineering and design services are being completed by HydroScience and Dewberry is providing environmental services for CEQA and NEPA. The goal is to award an initial phase of construction by October 2023.

- Copper Cove WWTP Pond 6 Dam and Effluent Storage Reservoir Enlargement Project (CIP 15112) – The consultant, Wagner & Bosignore, is working on the project design of the dam and has resubmitted an application to the Division of Safety of Dams (DSOD), as part of the project. HydroScience will be providing the design for relocating the pipelines, pumps and other facilities and Dewberry is providing environmental services.
- Copper Cove Water System Improvements Project (CIP 11111) – The consultant, Peterson Brustad, Inc., is working on the 50% design. CCWD plans to bid and award the project in early 2023 with construction completed by June 2024. PBI is also working on project alternatives for the replacement of the main pump station and transmission main from the Treatment Plant to Tank C.
Ralph Copeland commented on the sizing of the waterline proposed in the design.
- Ebbetts Pass Hunters Raw Water Intake Pumps (CIP 11103) – The 90% design, project specs and pre-purchase materials specs have been submitted by the consultant, Blackwater. Once CCWD receives comments on the NEPA environmental review, Blackwater will then incorporate them into the final design specs. After completion of the Phase 1 plans, the next phase will authorize funding for implementation and construction of the project.
- Ebbetts Pass Redwood Tanks Project (CIP 11095) – The construction of the four tanks will be substantially complete and placed online within the next month and the CalOES grant should be closed out by the project deadline of April 2023. The current grants funds have been exhausted but CCWD will be requesting additional funds. The Larkspur tank is not part of the HMGP portion of the project but is included in the CIP. The contractor, KW Emerson will be completing the construction once weather permits.
- Forest Meadows Wastewater Plant/UV System Replacement (CIP 15106) – The UV system has been purchased and should ship this month. CCWD Construction crew has cleared vegetation from the site and completed some grading. The construction of the stainless-steel channel will be completed by a contractor, which will be put out for bid with construction starting in the Summer of 2023.
- 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.

b. Other Project Updates

Engineering staff gave brief updates on the following:

- Copper Valley Town Square – Staff continue to work with CV Developers to discuss the sewer force main and pump station projects, redevelopment of the Copper Valley Square complex and future development of the Sawmill subdivision.
- Copper Valley (Saddle Creek 7B) – The punchlist items were completed and inspected and staff will continue to work with the developer on the project close out and acceptance.
- Gold Creek Subdivision Unit 3 – Staff continue to work with the developer on the project close out and acceptance.
- Jenny Lind Elementary School Force Main Project – Staff continues to work with the project consultant, KASL Engineering, and continue to discuss the progress of the project.
- North Vista Plaza / LGI Homes – Staff continue to meet with the developer to discuss the submitted design and required improvements to be done by the developer. Discussions

continue between the developer and CCWD on the funding program (BOLD) which would pay for the water and wastewater capacity fees.

- Tri-Dam Lake Tulloch Day Use Area – The District is working with Tri-Dam to approve water and wastewater service connections to the newly constructed day-use area. Staff continues to secure an easement from the neighboring property owner to improve the existing water main located in the parking lot.

5. GENERAL MANAGER COMMENTS

None.

6. DIRECTOR COMMENTS

None.

7. FUTURE AGENDA ITEMS

None.

8. NEXT COMMITTEE MEETING

March 7, 2023 at 2:00 p.m.

9. ADJOURNMENT

There being no further business, the meeting adjourned at approximately 3:14 p.m.

Respectfully submitted,

Kate Jesus
Engineering Coordinator

Agenda Item

DATE: February 28, 2023

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

FROM: Damon Wyckoff, Director of Operations

RE: FY 2023-24 Update to District's Five-Year Capital Improvement Program

SUMMARY

The Capital Improvement Program (CIP) is reviewed and amended each fiscal year in advance of 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 a significant number of critical projects from the CIP. The District is in the midst of a Rate Study and CIP costs are a considerable portion of rates. In order to ensure a viable increase to rates, the CIP was reduced. Projects that have been removed from the CIP include:

- La Contenta Clarifier, Biolac, and UV Improvements
- La Contenta Sprayfields
- 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

Attached are worksheets for both water and wastewater segments created by staff that will be used in preparing the FY 2023-24 CIP Budget. Further information will be presented at the next Engineering Committee meeting.

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.

Attachment

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
11083C	Copper Cove Tank B/Clearwell	8,600,000	8,600,000	600,000	5,000,000	3,000,000	-	-	-
11083J	Jenny Lind Clearwell #2	350,000	350,000	-	350,000	-	-	-	-
11083L	Larkspur Tank Replacement	576,522	576,522	576,522	-	-	-	-	-
11088	Jenny Lind Tank A-B Transmission Main	12,363,890	12,363,890	363,890	8,000,000	4,000,000	-	-	-
11095	Ebbetts Pass Redwood Tanks	1,485,202	1,485,202	1,485,202	-	-	-	-	-
11096	AMR/AMI Radio Read Meter Program	2,000,000	2,000,000	2,000,000	-	-	-	-	-
11101	Corporation Yard	1,445,000	1,445,000	1,445,000	-	-	-	-	-
11103	Hunters Raw Water Pumps (Hazard Mitigation)	2,400,000	2,400,000	400,000	2,000,000	-	-	-	-
11104	Lake Tulloch Submerged Water Line Crossing	7,800,000	500,000	-	-	500,000	-	-	-
11106	West Point Backup Filter	2,380,000	2,380,000	1,850,000	530,000	-	-	-	-
11111	Copper Cove B Pump Station Renovation	-	-	-	-	-	-	-	-
11115	EP Larkspur Pump Station Rehab/Electrical	1,500,000	1,500,000	-	-	-	250,000	1,250,000	-
11122	CC B-C Trans Pipeline & Pump Station	9,000,000	9,000,000	-	3,000,000	6,000,000	-	-	-
	Copper Cove O'Byrnes Water Line Extension	60,000	60,000	60,000	-	-	-	-	-
11131	JL Water Treatment Plant - Rehab Filters 1&2	960,000	960,000	450,000	510,000	-	-	-	-
11109	White Pines Lake - Tule Removal	96,715	96,715	-	-	96,715	-	-	-
TBD	West Point Regulator Repair / Tule Removal	100,000	100,000	100,000	-	-	-	-	-
TBD	EP Meadowmont Pump Station / Rehab.	100,000	100,000	100,000	-	-	-	-	-
11083S	Ebbetts Pass Sawmill Tank	3,050,000	3,050,000	50,000	-	-	3,000,000	-	-
11083W	Wallace Tanks	1,500,000	1,500,000	-	-	-	-	-	1,500,000
11108	Big Trees Pump Stations 4 & 5 Replacement	2,100,000	2,100,000	-	-	-	450,000	1,650,000	-
11119	Jenny Lind Tanks A, B, E, & F Rehab	3,000,000	1,500,000	-	-	-	-	500,000	1,000,000
	Tank Rehab Program	2,500,000	1,250,000	-	-	-	-	-	1,250,000
Total Water Projects		63,367,329	\$ 53,317,329	\$ 9,480,614	\$ 19,390,000	\$ 13,596,715	\$ 3,700,000	\$ 3,400,000	\$ 3,750,000

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
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	-	-	-	-
15087	Wallace Treatment Plant Renovations	50,000	50,000	50,000	-	-	-	-	-
15091	West Point/Wilseyville Consolidation Project	10,000,000	10,000,000	5,000,000	5,000,000	-	-	-	-
15094	CC Tertiary, DAF, and UV Improvements	10,100,000	10,100,000	600,000	2,000,000	5,000,000	2,500,000	-	-
15095	Arnold Secondary Clarifier/WWTP Improvements	8,000,000	8,000,000	500,000	4,500,000	3,000,000	-	-	-
15097	LC Biolac, Clarifier, & UV Improvements	10,000,000	500,000	-	-	500,000	-	-	-
15101	La Contenta Spray Fields	1,200,000	-	-	-	-	-	-	-
15106	FM UV Disinfection System Replacement	500,000	500,000	200,000	300,000	-	-	-	-
15109	Collections System Rehab and I&I Mitigation	1,300,000	800,000	150,000	-	150,000	-	-	500,000
15111	Valecito WWTP - System Improvements	100,000	100,000	100,000	-	-	-	-	-
15112	CC Pond 6 Dam Raise	11,500,000	11,500,000	500,000	1,000,000	5,000,000	5,000,000	-	-
TBD	CC Lower/Upper X-Country Gravity/Force Main	3,250,000	1,000,000	-	-	-	500,000	500,000	-
TBD	Huckleberry Lift Station Improvements	1,123,038	1,123,038	-	-	1,123,038	-	-	-
TBD	Arnold Lift Station 2 & 3 Rehab	3,500,000	500,000	-	-	-	-	500,000	-
TBD	Copper Cove Lift Station Rehabilitation	1,000,000	-	-	-	-	-	-	-
Total Wastewater Projects		70,723,038	\$ 53,273,038	\$ 11,100,000	\$ 17,900,000	\$ 14,773,038	\$ 8,000,000	\$ 1,000,000	\$ 500,000

Agenda Item

DATE: February 28, 2023

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

FROM: Damon Wyckoff, Director of Operations

RE: Sewer System Management Plan (SSMP) Update

SUMMARY

The State Water Resources Control Board (Water Board) adopted a new Waste Discharge Requirement General Order (General Order - replacing the 2006 Order and 2013 Monitoring and Reporting Plan) that approves changes to the District's Sanitary Sewer Management Plan (SSMP) requirements.

The new requirements for the SSMP become effective June 4, 2023. There are multiple changes with which the District will be required to comply, yet the District has time to meet the requirements, some of which are beneficial.

Updates to the General Order which affect the SSMP include:

- Expands the scope to include discretionary regulation of privately-owned sewer systems if required by the Water Board.
- Clarifies that sewer spill regulations include spills to water of the State – both surface and groundwater.
- Reduces the frequency of SSMP Audits from every two years to every three years. And the frequency of complete SSMP updates from every five years to every six years.
- Increases the requirements for Districts to conduct system condition assessments, prioritizing remediation.
- Emphasizes system resilience by requiring enrollees to prioritize rehabilitation and repair of problematic infrastructure and areas.
- Requires electronic submittal of updated Collections Systems Boundary Maps
- Incentivizes Operator certification and improved system performance.

Overall, the District feels these updates are timely and will work to help the District an improved SSMP.