

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: August 6, 2026

MEMO TO: Board of Directors

THROUGH: Clifford C. Chan, General Manager CCC

FROM: Serge V. Terentieff, Director of Engineering and Construction ST

SUBJECT: Upper San Leandro (USL) Water Treatment Plant (WTP) Maintenance and Reliability and USL and Sobrante WTPs Chemical System Safety Improvements Project Update

This memorandum provides an update on construction of the USL WTP Maintenance and Reliability and USL and Sobrante WTPs Chemical System Safety Improvements Project (Project). The attached progress report includes accomplishments and progress since the March 26, 2026 update, including community outreach, fiscal status, and near-term planned work.

The USL WTP is currently out of service to support completion of critical project work, with the plant expected to return to service in October 2026. Work continues on the reclaim area improvements, Chlorine Contact Basin (CCB) exterior wall construction, and installation of a new PG&E feed. Work on the chemical system improvements at both USL and Sobrante WTPs is nearing completion.

Work will continue to focus on completing the remaining outage-dependent work and construction of the new CCB. Construction commenced on April 3, 2023 and contract completion is expected by September 12, 2028. The next update will be provided in an information memo on November 12, 2026.

CCC:SVT:mjh

Attachment: 2026 Triannual Progress Report No. 2 (Specification 2128)

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2026 Triannual Progress Report No. 2

Specification 2128: Upper San Leandro (USL) Water Treatment Plant (WTP) Maintenance and Reliability, and USL and Sobrante WTP Chemical Systems Safety Improvements Project (CSSIP).

The USL WTP entered a planned full-plant outage in March 2026 to support completion of critical construction activities. Significant progress has been made, including continued work in the reclaim area, rehabilitation of the Solid Pumping Plant, and construction of the new Chlorine Contact Basin (CCB). The contractor completed the CCB slab foundation, consisting of the two largest concrete placements for the project, and has continued construction of the basin walls. Permanent power was provided to the new Power Building by Pacific Gas and Electric (PG&E) in June 2026, allowing remaining electrical work and testing to proceed. Work on Phase 1.2 of the CSSIP, including the permanent facilities, has continued at both the USL and Sobrante WTPs, with completion anticipated by September 2026. A detailed summary of work progress is provided in this attachment.

Project Scope

The scope of work at the USL WTP includes:

- Replacement of the raw water control valve, demolition and replacement of existing flocculation baffle walls, and installation of a fifth stage of flocculation.
- Replacement of the solids removal system in the sedimentation basin.
- Demolition of filter No. 1 and demolition of the fluoride building.
- Demolition and replacement of the CCB.
- Demolition and replacement of the clear well wood-framed roof with an aluminum roof.
- Construction of a new spent wash water basin (No. 3), and associated improvements to existing spent wash water basins (No. 1 and No. 2), and the reclaim system.
- Construction of a new concrete gravity thickener and improvements to two existing steel detention basins.
- Demolition and replacement of main plant switchgear, installation of two new substations, a new power building, and other electrical improvements throughout the plant.
- Demolition and replacement of the chemical feed systems and other chemical systems safety improvements.
- Implementation of security improvements.

The scope of work at the Sobrante WTP includes:

- Demolition and replacement of the chemical feed system and other chemical system safety improvements.

The scope of work at the USL Reservoir Outlet Tower includes:

- Installation of a seismic accelerometer and uninterruptible power supply at the shore of USL Reservoir.

Community Outreach Update

- The District continued to provide advance notification to nearby residents of construction activities with the potential to generate noise, including early morning concrete placements and sheet pile installation.
- The District continued to address resident concerns, including inquiries regarding the project schedule, vegetation maintenance adjacent to the project site, and the planned replanting of trees removed for construction. Tree replanting is anticipated to begin in fall 2026.
- The District's website was previously updated to show worksite progress.

Progress Status Update

Safety

- Continued to promote an active safety culture that encourages everyone at the jobsite to identify safety hazards for immediate correction.

Maintenance and Reliability Improvements

- Completed the work in the north flocculation-sedimentation basin; both basins are now complete.
- Completed the mechanical and instrumentation installation and testing work at Detention Basins No. 1 and No. 2; both basins are now in service.
- Completed instrumentation installation and testing at Spent Washwater Basins No. 1, No. 2, and No. 3. Mechanical improvements are ongoing. Spent Washwater Basins No. 1 and No. 2 are now in service.
- Completed construction of the new gravity thickener tank, leak testing, and associated piping work are underway. Completed the CCB slab foundation, including the two largest concrete placements of the project.
- Continued construction of the CCB, with 6 of the 11 exterior wall concrete placements completed.
- Completed major electrical duct bank installations and permanent power energization of the new power building, allowing electrical testing and startup activities to proceed.
- Continued the installation of the electrical duct banks throughout the site and other improvements.

Chemical Safety System Improvements

- Completed the mechanical and electrical internal demolition for the first phase of chemical systems at the USL and Sobrante WTP – primary coagulant (PC), cationic polymer (CP), and caustic soda (CS).
- Continued CSSIP Phase 1.2 work at the USL and Sobrante WTPs, including installation of new chemical facilities, chemical piping, tanks, and associated equipment for PC, CP, and CS systems Continued startup and commissioning activities for newly installed chemical systems, including coordination to resolve installation issues associated with chemical building components and equipment.

Scheduled Work

Maintenance and Reliability Improvements

- Continue construction of the CCB, including completion of remaining exterior wall concrete placements and interior wall construction. Complete remaining mechanical improvements and commissioning activities for the spent washwater basins. Complete installation of piping and vault work in the reclaim area.
- Complete remaining reclaim area improvements, including leak testing of the new gravity thickener and associated piping work.
- Complete gravity thickener testing and startup activities. Continue construction of site improvements, including the bioretention area that will reduce stormwater runoff.
- Complete installation of remaining electrical duct banks, remaining electrical work, and testing following energization of permanent power.
- Complete installation and testing of the new raw water control valve.
- Continue installation and testing of remaining process equipment improvements.
- Complete testing of medium voltage power infrastructure, including cabling and the power building, unit substation 02.

Chemical Safety Systems Improvements

Significant progress has been made on the chemical system improvements. This portion of the work has experienced schedule delays due to differing site conditions, operational constraints, and supply chain impacts.

- Continue CSSIP Phase 1 work at the USL WTP and Sobrante WTP, including installation, testing, and startup of new chemical facilities and associated systems for PC, CP, and CS chemicals.

Fiscal Update

Budget Category	Spent To Date	Budget	% Spent
Construction Contract (base)	\$ 182,953,842	\$237,332,710	77.1%
Construction Contract (change order contingency – see Note 1)	\$ 24,713,077	\$30,853,252	80.1%
Engineering Support and Construction Management Costs	\$33,395,188	\$26,098,599	128%

Notes:

1. The current approved change order contingency budget is 13% of the original contract amount. It is anticipated that this change order contingency will need to be increased before the end of 2026, due to challenges encountered during the construction of the shoring support system for the CCB, which is on the project's critical path and is the subject of a substantial contractor delay dispute.

Schedule Update

Schedule Category	Days Elapsed	Contract Days	% Elapsed
Construction Contract Calendar Days	1,210	1,310* (3.6 years)	92.4%

*The latest schedule update from the District's contractor forecasts that the project will reach Ready for Service after 1,900 days (5.2 years), approximately 600 days (1.6 years) behind schedule. The District is actively working with the contractor to address the overall construction schedule and will continue to develop and implement a recovery plan.

Construction Progress Photos



Figure 1 – USL WTP – Installation of new USS-01 Gear in Electrical Room. This electrical equipment provides primary power to the WTP from PG&E.



Figure 2 – USL WTP – Ongoing work on USS-01 equipment. This electrical equipment provides primary power to the WTP from PG&E.



Figure 3 – Placement of North and South 30 Piping in the future CCB. This piping supplies water to the distribution system when the CCB operates as a clearwell for planned maintenance.

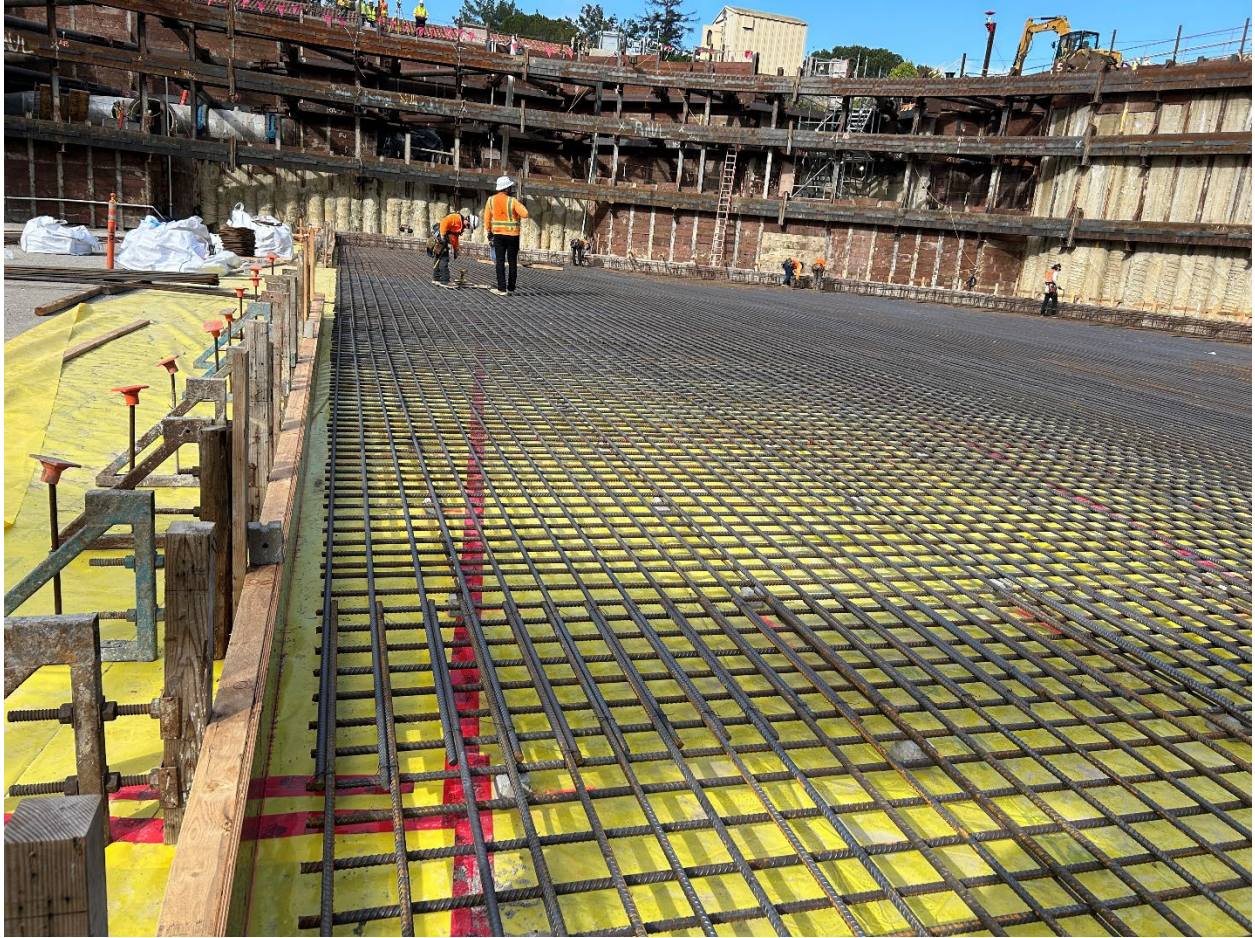


Figure 4 – Chlorine Contact Basin (CCB) -Rebar mat for first half of the CCB concrete slab.



Figure 5 – CCB progress photo of the first half concrete slab pour.

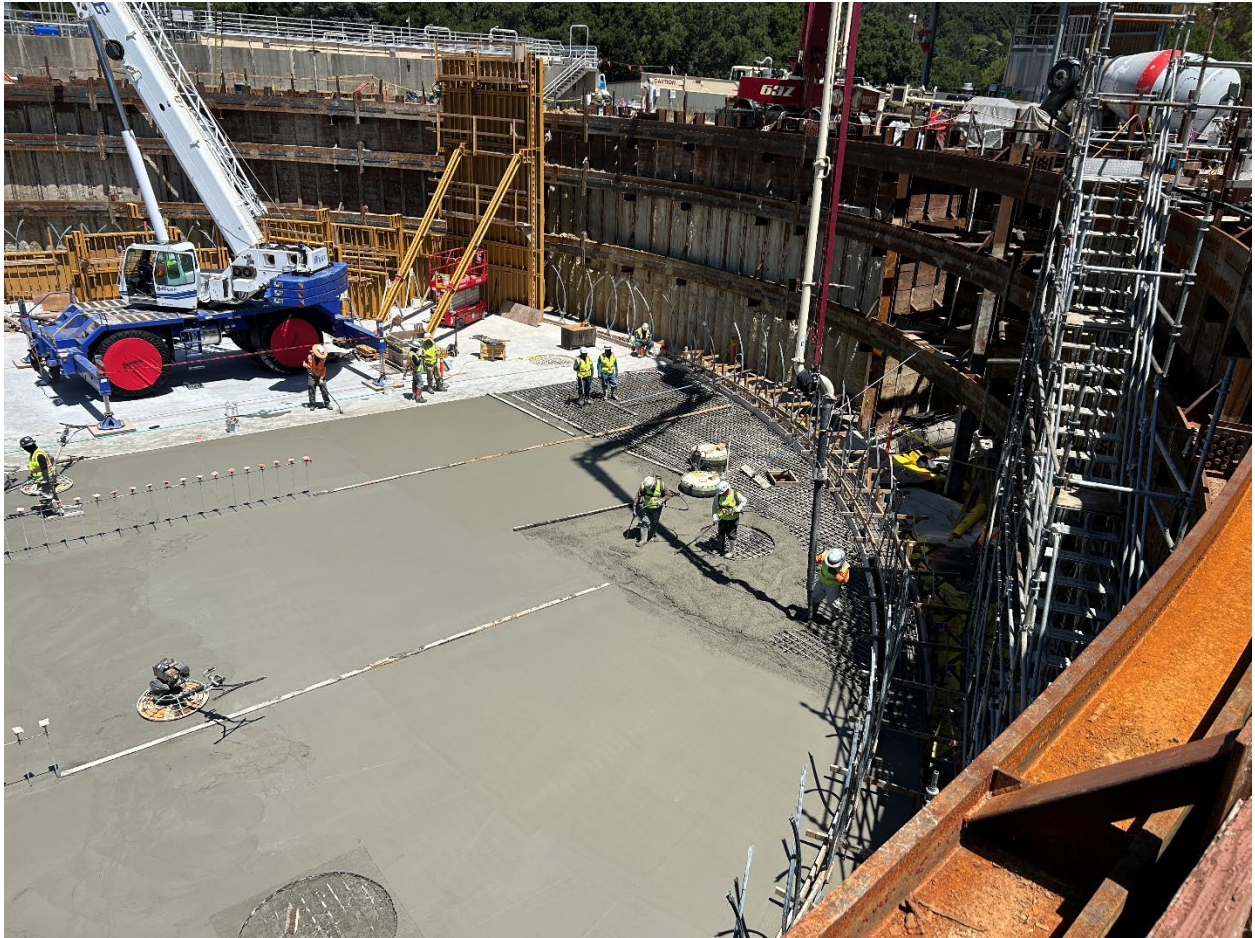


Figure 6 – CCB progress photo of the second half concrete slab pour.



Figure 7 – CCB – Construction of exterior concrete walls.



Figure 8 - Combined Filter Effluent - Workers installing the final connection to the Filter effluent. This piping connects the filtered water to the new CCB which will provide primary disinfection for the WTP.



Figure 9 – Gravity Thickener – in progress concrete pour of Gravity Thickener Launde. This gravity thickener will reduce water loss at the WTP by up to 90% by reducing the amount of spent residuals to the sewer system.



Figure 10 – Gravity Thickener completed structure. This gravity thickener will reduce water loss at the WTP by up to 90% by reducing the amount of spent residuals to the sewer system.



Figure 11 – USL Chemical Building - roadway prep for upcoming canopy work.



Figure 12 – USL Chemical Building - pour of new canopy footings and sidewalks.



Figure 13 – USL Chemical Building – Installation of new truck unloading area canopy. The canopy will protect the environment by preventing rainwater from mobilizing chemical spills.

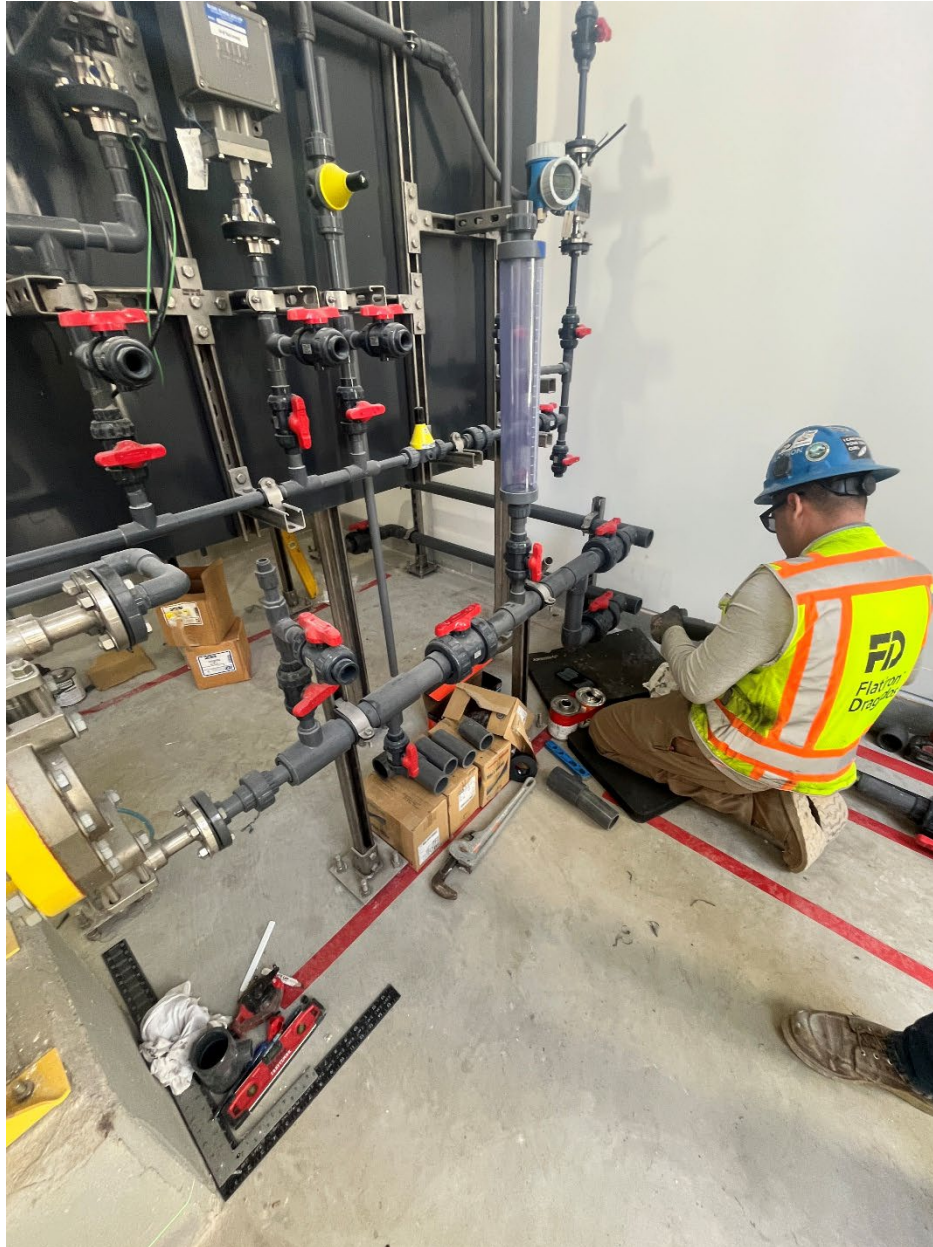


Figure 14 – USL Chemical Building – ongoing work for new chemical feed systems.



Figure 15 – Sobrante WTP Chemical Building – ongoing work for new chemical feed systems.



Figure 16 – Sobrante WTP newly installed chemical pipe runs in pipe gallery.



Figure 17 – Sobrante WTP Chemical Building – ongoing installation of new truck unloading area canopy. The canopy will protect the environment by preventing rainwater from mobilizing chemical spills.



Figure 18 – Sobrante WTP Chemical Building Roof – ongoing work on electrical system for HVAC equipment.