

STAFF REPORT

Projects Update

AWA Capital Projects

1. Pioneer Rehabilitation Phase 3 (USDA)

75% of the long awaited 12" butterfly valves have arrived, allowing piping work to continue. The Contractor is offsite again awaiting material. Change Order #3 has been signed and is awaiting USDA approval.

2. Tanner Water Treatment Plant PLC Upgrade Project

The Tanner PLC and electrical panels are being installed and programmed by by AWA Electrical Staff and ATEEM.

3. Tanner Water Treatment Plant Filter Media Replacement Project

100% project plans and bid documents are being prepared.

4. Ione Clearwell Cover Hypalon Replacement Project

100% project plans and bid documents are being prepared.

5. Ione Hydro

The final report presentation to CEC was held on 3/30/22. The final cost accounting and reimbursement request will be prepared.

6. Martell Lift Station #2

The electrical plans have been completed and mechanical plans are being prepared. The 480v replacement pumps have been ordered. The PG&E service upgrade application has been submitted and is proceeding.

7. LaMel Booster Station

- AWA submitted a budget request to CalOES for a total project cost of \$2,266,750 (75% grant). Initiation of the project design may depend on a favorable CalOES review and AWA acceptance of the changes.
- The electrical single plans have been completed, and the PG&E service upgrade application has been submitted and is proceeding.
- This is the booster station portion of the LAMEL 1A.2 (B & WTP) LaMel Booster Station and Water Treatment Upgrades project ranked at priority #12 in the water master plan. The treatment upgrades portion of the master plan project may have to be completed as a separate project due to HMGP eligibility.

8. Tiger Creek Regulator and Afterbay

Bailey Civil Engineering prepared preliminary drafts of a 20 year CIP addendum for the Buckhorn raw water supply, and a preliminary engineering and alternatives report for the Tiger Creek Afterbay backup intake.

AWA Studies and Applications

9. Tanner & Lone WTP Capacity Study

The report was scheduled for review at the Planning, Operations and Engineering Committee in March, followed by Board review in April.

10. Wastewater Master Plan

- a. The complete draft report and capital improvement program have been prepared. The report is scheduled to be presented to the Board after POE review in April.
- b. Preparation of AWA's Sanitary Sewer Management Plan update has started and will follow wastewater master plan approval.

11. Wastewater Capacity Fee Study

- a. The Hansford Economic Consulting study is being prepared and will be brought to the Board following wastewater master plan approval..

12. Stantec, Landstedt and AWA prepared 5 HMGP applications and preliminary engineering reports, due 4/8/22.

Notable Developer Projects:

13. Pine Grove Bypass and WW Improvement Project
 - a. AWA is preparing a claim letter in coordination with Amador County.

14. Castle Oaks Village 9
 - a. Development applications have been received and are being reviewed.

15. Castle Oaks Village 10
 - a. Plan review is in progress.

16. Wildflower Unit 2 and Foothill Boulevard
 - a. Construction continues as weather allows.
 - b. Development applications have been received and are being reviewed.

Prepared by: Brandt Cook, Resident Engineer

STAFF REPORT

Operations & Engineering Manager's Report March 2022

ACGMA:

1. Attended a March 21, 2022 Cosumnes Groundwater Authority (CGA) meeting. Update on Annual Report status. Reviewed Prop. 68 well cost-share. Discussed the status of the 2021 Cosumnes GSP report. In Governance and Outreach, discussed the role of the CGA, GSA, staff and public involvement. Update on the DWR facilities support application, some board policies and CGA committees as well as grant applications and support letters. Update on DWR North Central Regional Office and discussed Director comments.
2. Link to the New CGA Website - [About - Cosumnes Groundwater Authority](#)

Regulatory Compliance Specialist:

1. Drought reporting for February.
2. Water and Wastewater reporting for February.
3. Webinars on Water Loss (3), Lead Service Lines (1) and Unregulated Contaminates Monitoring Reporting (UCMR5) on PFAS for Ione and Tanner Systems.
4. Submitted water right diversion reports for CAWP and Sutter Creek.
5. Submitted Conserved water numbers to PG&E.

Safety:

Staff conducted Safety Tailgate Meetings on the following subjects:

- Focus to Avoid Distracted Work
- Contamination Prevention
- Cleaning Products Safety
- Temperature Extremes
- Construction Site Safety
- Setting up a Traffic Control Zone
- Safe Fuel Handling

Distribution:

1. 2 main break repairs
2. 5 service line leak repairs
3. Camanche Annual State inspection

Canal:

1. Spring canal cleaning work continues.
2. Upper and lower canal spring-cleaning work continues.

Water Treatment Plants:

lone Water Treatment Plant:

1. Some chemical costs continue to increase.
2. Sludge continues to accumulate in both backwash tanks, as staff has been unable to identify a contractor to de-sludge them.
3. Staff continues to efficiently manage the formation of DBP's from the Water Treatment Plant, this month included increased coagulant dosage, chlorine residual reduction, additional filter monitoring.

Tanner Water Treatment Plant:

1. Noted a stabilization of the polymer dosage and some indication leading to believe it is decreasing back closer to pre-October 2021 rates. Additionally, staff has begun the first 2 days of testing and analysis with the new ChemTrac UV254 monitor. This will help track the levels of TOC within the Raw/Finish water and give staff the ability to better understand our ability to adapt to disinfection byproduct formation.

Buckhorn Water Treatment Plant:

1. Identified that there is still need for additional module replacement of approximately 1/3 of the Buckhorn WTP membranes. Currently the newest modules are now almost 6 years old and Pall Corp recommends that module life expectancy should be considered 7-9 years. Staff was able to troubleshoot and get the recycle facility back online from previous failures

LaMel Water Treatment Plant:

1. Facility has been running well with nothing to report.

PG & E Tiger Creek Water Treatment Plant:

1. Plant is operating well with new parameters and controls; electrical staff is still waiting for connection to be completed for remote SCADA access.

Wastewater:

1. **AWA Systems**
 - a. Began masticating brush at Pine Grove Leach field.
 - b. Installed a new irrigation pump at Gayla Manor.
 - c. Continue to monitor areas in all collection systems.
 - d. Continue to monitor Lift Station 2 while running on one pump. Waiting on new pump to be delivered which is tentatively scheduled for the end of May.

Electrical / Mechanical:

1. Tanner PLC Upgrade – The new PLC panel was installed and the plant is now being controlled with the new PLC controller. All plant controls and critical alarms have been tested. The old PLC is now being used only as remote I/O. Moving the I/O from the old PLC to the new PLC will begin this week.
2. Began the remodel of Tanner WTP lab space by cutting in a door way between the plant control room area and new lab area.
3. Completed installation of the lighting and electrical circuits to the Construction department equipment shed.
4. Completed installation of a 120 VAC circuit from the Mason pump station to the Frank's Tank RTU panel. Previously the RTU panel was powered by solar only, which was unreliable during long periods of cloudy weather.
5. Replaced the backwash sump pump at the Tiger Creek PG&E WTP.

Construction:

1. Installed a new 18" culvert on Antelope Drive and road repair work to protect the Gravity Supply Line pipeline.
2. CHP BIT inspection was done on the AWA trucks – was given a satisfactory rating and all are good for an additional 3 years. Officer Bret Rosa did recommend the Agency sell or surplus the 1988 Ford dump truck and the 1974 Freightliner water truck due to age, safety and CARB compliance.
3. Repaired several system leaks
 - a. 1 on Eureka St. in Sutter Creek
 - b. 2 in Lone
 - c. 2 in River Pines
 - d. 1 in Plymouth
4. Worked on masticating brush on the Pine Grove Leachfield.

Prepared by: Linda Nafus, Admin Assistant II; Rick Ferreira, Operations & Engineering Manager

City of Plymouth Department Report

Covering March 1 – March 31, 2022

Regulatory Compliance Specialist-

- Monthly water reporting completed.
- Operational testing for Disinfection By-Products.
- Quarterly Update submitted to Division of Drinking Water regarding Disinfection By-Products. Second public notification sent out to their customers on 3/22/22.

Wastewater-

- Continue to monitor collection system.
- Jetted when and where needed.

Water Distribution–

- Nothing to report.

Construction –

- Repaired one leak.

Staff hours: 31.8 Water hrs. 58.5 Wastewater hrs.

Prepared by: Linda Nafus, Administrative Assistant II

Reviewed and edited by: Rick Ferreira, Operations and Engineering Manager

River Pines Department Report

March 1 - March 31, 2022

Water Production/Sold

Well 2: 253,300 gallons	Total Produced: 789,714 gallons
Well 3R: 408,500 gallons	Total Sold: 493,655 gallons
Well 6R: 127,914 gallons	Unaccounted Loss: 37%

Regulatory Compliance Specialist-

- Submitted December monthly water report
- Submitted December monthly wastewater reports and no spill report for CIWQS

Wastewater-

- Influent flow 1,001,900 gallons. Effluent Discharged 141,200 gallons.
- Checked and monitored the collection systems.
- Jetted where and when necessary.

Water Treatment / Distribution –

- Wells 2/3R continue to perform well with some but not significant aquifer drawdown. Water demand decrease with seasonal change is helping with this as well.
- Staff notified the Electrical Department of additional generator failure at 2/3R. Electrical staff met with Generac technician on site and are waiting for their scheduling of needed replacement part installation.
- Staff noted a couple of leaks, one at Circle Tank which is being investigated by Construction and Distribution, and one in the driveway leading to well 6R facility, which the Construction Department repaired.
- Construction repaired 2 leaks

Staff Hours: 75 Water hrs. 25 WW hrs.

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