

# Planning Operations Engineering Committee

(Directors Peters and Farrington)

May 19, 2022  
3:00 p.m.

**Public Notice:** Members of the public will have the opportunity to directly address the Committee on any item listed on the Agenda below before or during consideration of that item.

***This meeting will be conducted entirely by videoconference. Members of the public may participate in the meeting by using the dial in information below:***

### **Join Zoom Meeting**

<https://us06web.zoom.us/j/82091226610>

Meeting ID: 820 9122 6610  
833 548 0276 US Toll-free  
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1. **CALL TO ORDER**  
Remote meeting authorized by prior action of the Board of Directors.
2. **PUBLIC COMMENT**
3. **PROJECTS UPDATE**
4. **WASTEWATER MASTER PLAN STUDY**  
All information is located at <https://amadorwater.org/board-directors/board-committees/committee-agendas/>. Files are very large.
5. **OPERATIONS & ENGINEERING MANAGER REPORT**
6. **ADJOURNMENT**

*In compliance with the Americans with Disabilities Act, if you are a disabled person and you need a disability-related modification or accommodation to participate in this meeting, then please contact Karen Gish at (209) 257-5234. Requests must be made as early as possible, and at least two-full business days before the start of the meeting.*

# STAFF REPORT

## Projects Update

### AWA Capital Projects:

1. Pioneer Rehabilitation Phase 3 (USDA)  
The contractor is onsite installing the storm drain and limited water piping.
2. Tanner Water Treatment Plant PLC Upgrade Project  
See the Electrical Supervisor for update.
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 cost accounting and reimbursement request is being prepared.
6. Martell Lift Station #2  
The project is awaiting PG&E service upgrade plans and shipment of the pumps, which may be months away.
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.

8. Tiger Creek Regulator and Afterbay

Bailey Civil Engineering prepared a draft technical memo and alternatives report for the Tiger Creek Regulator backup intake. Staff is reviewing.

**AWA Studies and Applications:**

9. Tanner & Ione WTP Capacity Study

The report was review by the Planning, Operations and Engineering Committee and accepted by the Board.

10. Wastewater Master Plan

The draft study and capital improvement program have been prepared by Lumos & Associates. The draft study is scheduled to be reviewed by the Planning, Operations and Engineering Committee on 5/19/22 and presented to the Board on 6/9/22.

Preparation of AWA's Sanitary Sewer Management Plan update has started and will follow wastewater master plan approval.

A nitrate and pH violation and correction letter from the RWQCB was received for the Wildwood wastewater system. AWA has requested deferring improvements until completion of the Wastewater Master Plan.

11. Wastewater Capacity Fee Study

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 are working on additional requests for information on the previously submitted HMGP applications.

**Notable Developer Projects:**

13. Pine Grove Bypass and WW Improvement Project

- a. AWA submitted a claim letter and has met several time with the County's consultant.

14. Castle Oaks Village 9

- a. AWA entered into a system extension agreement for the project and plan review has been scheduled.

15. Castle Oaks Village 10

- a. The project is on hold pending developer action

16. Wildflower Unit 2 and Foothill Boulevard

- a. Construction continues as weather allows.

17. Wildflower Unit 1

- a. Development applications have been received and responses are being prepared.

**Prepared by:** Brandt Cook, Resident Engineer

# STAFF REPORT

## Operations Report April 2022

### ACGMA:

1. Project Management Action (PMA) Committee as well as the Citizen Advisory Committee were discussed and assignments made. Discussed long term financing of the CGA and went the Governor's Executive Order N-7-22. Several information items were presented, 2021 Cosumnes GSP annual report update and the Cosumnes Subbasin Watershed Coordinator report.
2. Link to the New CGA Website - [About - Cosumnes Groundwater Authority](#)

### Regulatory Compliance Specialist:

1. Drought reporting for March.
2. Water and Wastewater reporting for 1<sup>st</sup> quarter and month of March
3. Set up new hire Shane Rose (timecard, computer access and set up defaults)
4. Set up Brian Hess with computer access in Operations
5. Working on Annual water reports (6), Consumer Confidence Report and Arrearages report.

### Safety Topics:

Staff conducted Safety Tailgate Meetings on the following subjects:

- Brush and Vegetation Removal
- Be kind to your body and stretch
- Confined Spaces: There is not room for error
- Hazards of Confined Spaces
- Contamination Prevention
- PPE: First Line of Defense Against Corrosive Hazards
- Accident Investigation: Key to Preventing Future Accidents

### Distribution:

1. Three service line leak repairs.
2. Wildflower PSI testing.
3. Wildflower irrigation monitoring.
4. Camanche Pump Station 10 rehab.
5. Began draining Pine Acres/Ridgeway tanks for 1 year warranty inspections.

## **Canal:**

1. Replaced old Cuneo service.
2. Repaired three berm leaks on the Upper Canal.
3. Removed six fallen trees on the Upper Canal.
4. Rebuilt Waste Gate #2 on the lone Canal.
5. Removed four fallen trees on the lone Canal.
6. Repaired three berm leaks on the lone Canal.

## **Water Treatment Plants:**

### **lone Water Treatment Plant:**

1. 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.
2. Staff worked with Electrical staff and contractor to finish additional programming from rehabilitation project.
3. Staff completed quarterly clarifier cleaning with good results.

### **Tanner Water Treatment Plant:**

1. Staff working with electrical department and contractor to implement and test PLC replacement project. Continued testing and I/O cutover, assistance with plant facility interior construction work.
2. Staff began coordinating with electrical department to operate and test hydro facility. Troubleshooting of operational problems continues.

### **Buckhorn Water Treatment Plant:**

1. The failures documented in months prior department reports including solenoids/actuators failures during CIP and many other plant components are documented in the Pall Health Check, which was completed in 2019, as areas of future degradation and in need of evaluation and possible upgrade. Staff strongly recommends that these upgrades are prioritized and completed.
2. Staff 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 recommends that AWA prioritize the preventive replacement of modules.
3. Staff had to take the recycle facility offline during the month of April due to operational failures caused by changing water quality and environmental conditions.
4. Staff worked to cleanup location and remove/burn debris prior to start of fire season.

### **LaMel Water Treatment Plant:**

1. Facility has been running well with nothing to report other than the long standing known VFD intermittent failing condition which will cause the inability to provide fire flow into the distribution system.
2. Generator was removed from the Water Treatment Plant site approximately 2 months ago for use at another AWA facility and has not been returned.

### **PG & E Tiger Creek Water Treatment Plant:**

1. Plant is operating well with new parameters and controls. Remote SCADA access equipment has been completed, however, access is not yet available.

### **Wastewater:**

1. **AWA Systems**
  - a. Sewer Force main break in Martell.
  - b. Continue to monitor the collection system, jetting as needed.
  - c. Sprayed and weed- eated all sites

### **Electrical / Mechanical:**

1. Tanner PLC Upgrade – In the process of moving the field devices to the new PLC.
2. Staff is in the process of remodeling the Tanner Water Treatment Plant lab space and adding a restroom.
3. We are running the Tanner Hydro only during the day to troubleshoot an issue with power fluctuations when a turbine starts or shuts down. After a week of testing, we have not been able to reproduce the problem. We will return the hydro to full operation after another week of testing.
4. Staff replaced the inlet pressure transmitter at Tanner Water Treatment Plant.
5. Control changes were made to the backwash recycle system at Tanner Water Treatment Plant to improve backwash tank level control and reduce the likelihood of tank overflow.

### **Construction:**

1. Martell Wastewater Sewer Force main break repair
2. Replaced service leak line in Castle Oaks
3. Relocated ARV for customer on Pebble Beach Ct Castle Oaks
4. Water leak repair River Pines
5. Water leak repair Volcano
6. Began construction of the emergency overflow retention basin at Tanner

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

## River Pines Department Report

April 1 – April 30, 2022

### Water Production/Sold

Well 2: 318,600 gallons	Total Produced: 1,008,396 gallons
Well 3R: 517,400 gallons	Total Sold: 526,153 gallons
Well 6R: 172,396 gallons	Unaccounted Loss: 48%

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### **Regulatory Compliance Specialist-**

- Submitted March monthly water report
- Submitted March monthly wastewater reports and no spill report for CIWQS
- Working on Consumer Confidence Report
- Working Annual Water report

### **Wastewater-**

- Influent flow 1,219,200 gallons. Effluent Discharged 357,400 gallons.
- Continue to monitor the collection system.
- Jetted where necessary.
- Removed the mixer in Pond A as a bracket that holds the motor on broke. It is in the process of being repaired.

### **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 completed annual inspection with the RWQCB district engineer. We visited the 6R, 2/3R, Jaybird and Circle tank facilities.

Staff Hours: 151 Water hrs. 40 WW hrs.

Prepared by: Linda Nafus, Administrative Assistant II

Reviewed by: Rick Ferriera, Operations and Engineering Manager