

Planning Operations Engineering Committee

(Directors Thomas and Peters)

January 24, 2022 3:00 p.m.

Amended to Add Zoom Meeting Login Information

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:

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Meeting ID: 820 9667 3086

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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 (attached)**
4. **GRANTS (oral update)**
 - Camanche 6
 - IRWM Camanche Laterals
 - Hazard Mitigation Grant Program
 - La Mel -- CalOES
5. **PG&E SPILLWAY PROJECT TIGER CREEK REGULATOR (oral report)**
6. **CASTLE OAKS 10 (oral report)**
7. **LIFT STATION 2 (attached)**
8. **OTHER COMMITTEE INFORMATION REQUESTS**
9. **OPERATIONS & ENGINEERING MANAGER REPORT (attached)**

10. 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.

Projects Update

Covering December 1 – December 31, 2021

AWA Capital Projects

1. Pioneer Rehabilitation Phase 3 (USDA)
 - a. Tank A coating will continue when weather allows. The project site is currently inaccessible.
2. Tanner Water Treatment Plant PLC Upgrade Project
 - a. Project design is underway. Procurement of long lead time electrical components has started.
3. Tanner Water Treatment Plant Filter Media Replacement Project
 - a. Preliminary planning and conceptual design is in progress.
4. Ione Clearwell Cover Hypalon Replacement Project
 - a. Preliminary planning and conceptual design is in progress.
5. Ione Hydro
 - a. The final CEC report is being prepared.
6. Pine Grove Bypass & Wastewater Improvement Project
 - a. Plan review is in progress.

AWA Studies

7. Tanner & Ione WTP Capacity Study
 - a. A staff level draft report is being reviewed. Alternatives for further development are being worked on. The final report is planned for the end of March.
8. Wastewater Master Plan
 - a. Water flow projections and alternatives are being wrapped up. A staff level draft report is due in January. The final report is planned for the end of March.
 - b. 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.

Notable Developer Projects:

9. Castle Oaks Village 10
 - a. Plan review is in progress.
10. Wildflower Unit 2
 - a. Construction will continue when weather allows.
11. Camanche 3B (water)
 - a. Project has been on hold due to non-payment since 9/28/21.

Prepared by: Brandt Cook, Resident Engineer

Reviewed and edited by: Rick Ferriera, Operations & Engineering Manager

STAFF REPORT

Lift Station 2

Lift Station 2 is the final station in a series of lift stations to take wastewater across Martell and to Sutter Creek's treatment plant. The Agency identified it as a problem in need of a solution for some time. The facility is old and needs either to be rehabilitated or replaced.

We have been trying to avoid repair expenditures until the completion of the Wastewater Master Plan Study in order to be strategic about investments in this facility, i.e. whether to continue to make repairs or to comprehensively replace the facility. Unfortunately, recent failures at the station are requiring immediate action to repair. One of the station's two pumps failed. A rented replacement pump was brought in, but we have had problems with the generator. Each attempt to make a repair reveals more problems.

The failed pump is not simple to replace. The industry has moved to a different standard voltage, and having PG&E change our electrical service connection could take many months. A replacement pump using the current voltage is not available, and neither are parts for the existing pump. We have sent the pump to a shop in Sacramento to be rebuilt with replicated parts. We expect this to take at least two months. Meanwhile, the second regular pump is operating, but is the same age and in the same condition as the one that failed.

Staff reported on this at the most recent Board meeting. At this meeting, the Committee will receive additional and updated information on staff's planned course of action.

Prepared by: Larry McKenney, General Manager

Operations & Engineering Manager's Report

Covering December 1 – December 31, 2021

ACGMA:

1. Attended a Cosumnes Groundwater Authority (CGA). Discussed JPA formation forms update, Conflict of Interest Policy, Fiscal Year 2021 – 2022 Budget, Approved Staff Support Agreements for Sloughhouse RCD and Southeast Sacramento County Ag. Authority, discussed Long Term Funding and approved banking with Five Star Bank. Citizen Advisory Committee, South American Subbasin Interbasin coordination letter.

Regulatory Compliance Specialist:

1. Submitted monthly water and wastewater reports for November
2. Cross Training Admin 2 back up on water and wastewater reporting
3. Attended webinars: Conservation Conversations- Tapping Data to Meet water Use Objectives and Monthly DWR Water Loss
4. Working with ProIT to reestablish one of the computers affected by power outage. Waiting on replacement parts from Dell.
5. Working with Distribution to get all of our backflow devices and non-compliant customer backflow devices tested before year end. 30 AWA customers did not test on their own this year.

Safety:

Staff conducted Safety Tailgate Meetings on the following subjects:

- Working Alone
- Covid19
- Protection Yourself Against Battery Hazards
- Hazardous Chemicals
- Taking Care of Your Body at Work
- Staying Safe While Working in Inclement Weather
- Trenching
- Accident Prevention
- Winter Driving
- Construction Site Safety

Distribution:

1. Completed six leak repairs.
2. Replaced the pump on Well 9.
3. Storm preparation and management.
4. Multiple power outages due to weather.

Canal:

1. Storm preparation and management.
2. Removed 47 downed trees due to the recent storms.
3. Deployed a generator at Lake Tabeaud during power outage due to winter storm.

Water Treatment Plants:

1. Lone Water Treatment Plant:

- a. The last week of November the City of Lone drew about 600,000 gallons of water for their processes which increased the plant rate by 200 gallon per minute to offset the draw.
- b. The week of December 7-9th the Clarifier was cleaned.
- c. Due to the heavy wind storm on December 13th there were multiple short power outages, lost communications to tanks repeatedly. The generator worked well during this time.
- d. Keller flow testing on December 14th with Engineering and Distribution. We ran multiple scenarios.

2. Tanner Water Treatment Plant:

- a. Tanner hydro remains offline and not in use.
- b. Continuing the beginning phases of the Tanner Upgrade Project, relocating the electrical, lab and process control equipment to make room for new infrastructure.
- c. Media samples from the clarifiers were sent for analysis to define future usable life expectancy and determine appropriateness of this specific media.

3. Buckhorn Water Treatment Plant:

- a. Multiple power outages due to winter storms.
- b. Backwash Recycle Plant offline due to frozen motors and VFD faults.

4. LaMel Water Treatment Plant:

- a. 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.

5. PG & E Tiger Creek Water Treatment Plant:

- a. Plant is operating well with new parameters and controls.

Wastewater:

1. AWA Systems

- a. The Booster Pump at Lift Station 2 in Martell failed and we rented a bypass pump.
- b. The generator at Lift Station 2 in Martell is not working properly and had to rent a replacement one.
- c. Had to call out the electrical technician to work on the generator and are in the process of making upgrades.
- d. A major amount of trees fell throughout all of the systems.
- e. After the storms at the end of the month power was out for an extended amount of time and many facilities were running on generators.
- f. With the amount of snow that fell we had to call on Construction to come in and assist with snow removal to access plants and lift stations.

Electrical / Mechanical:

1. Tanner PLC Upgrade – The majority of the parts for the control panel have arrived. Staff is in the process of building the PLC control panel.
2. Responded to multiple power outages and communication failures in the Lone and Camanche areas over several days of high winds earlier in the month.
3. Assisted with the replacement of the Well 9 pump and motor.
4. The main network switch at Tanner Shop failed after being powered down to replace the rack UPS. The switch failure affected all network connectivity at the Shop, Administration Building, and the Tanner Water Treatment Plant. All of the ports on the failed switch were moved to available ports on the other two switches in the rack.
5. The main breaker at Lift Station 2 has tripped several times without any apparent cause. A replacement breaker has arrived and is scheduled to be replaced the first week of January.
6. The generator at Lift Station 2 ran poorly during the power outage on 12/27/21. It was surging and finally died. A portable generator has been connected at the site. We are waiting for a reply from the Generac service contractor to schedule a service visit.
7. Responded to many power issues the last week of December due to the heavy snow and extended PG&E outages.
8. Replaced the conduit, wire, and weatherhead, on the power pole at the Toma Lane fire pump station. The damage was from a falling tree that took down the PG&E lines.

Construction:

1. Leak repair on abandoned service line on Cole Street in Sutter Creek. Permanently abandoned.
2. Leak repair on 1" service line on West Marlette Street in Lone.
3. Emergency repair on 4" main on Cole Street in Sutter Creek.
4. Assisted with Well 9 pump replacement.
5. Installed conduit and lights in the equipment storage shed.
6. Plowed snow and hauled fuel to generators during the storms.
7. Leak on GSL line, 1" unknown service connection.

Prepared by: Linda Nafus, Administrative Assistant II

Reviewed and edited by: Rick Ferriera, Operations & Engineering Manager

City of Plymouth Department Report

Covering December 1 – December 31, 2021

Regulatory Compliance Specialist-

- Monthly water reporting completed.
- Disinfection By-Products citation received. Letter went out to all customers served by Plymouth explaining the exceedance. A few calls have been received regarding the letter. Sent the following to DDW- Acknowledgment of receipt of citation, letter of willingness to comply, letters to customers and proof of notification including posting in a public place and on website for 7 consecutive days.

Wastewater-

- Continue to monitor collection system and all grease traps.
- Issued grease trap pump orders as needed.
- Monitored all collection lines.
- No major issues.

Water Distribution–

- Disinfected new pump station and took water quality samples
- Routine flushing

Staff hours: Water hrs. 30 Wastewater hrs. 4

Prepared by: Linda Nafus, Administrative Assistant II

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

River Pines Department Report

December 1 – December 31, 2021

Water Production/Sold

Well 2	199,000 gallons	Total Produced:	738,193 gallons
Well 3R:	352,400 gallons	Total Sold:	450,909 gallons
Well 6R:	186,793 gallons	Unaccounted Loss:	39%

Regulatory Compliance Specialist-

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

Wastewater-

- Influent flow **1,159,900 gallons**. Effluent Discharged **522,800 gallons**.
- No power loss due to the recent storms.
- Checked and monitored the collection systems.

Water Treatment / Distribution –

- Wells 2/3R had power failures due to the winter storms which caused generator issues. These issues have been resolved and things are running smoothly at this time.

Staff Hours: Water hrs. 31 WW hrs. 21

Prepared by: Linda Nafus, Administrative Assistant II

Reviewed by: Rick Ferriera, Operations and Engineering Manager