

Planning Operations Engineering Committee

(Directors Thomas and Peters)

SPECIAL MEETING

July 22, 2022

8:30 a.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:

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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. **WATER TREATMENT PLANTS – WTP CAPACITY UPDATE**
5. **RAMMCO WATER USAGE**
6. **AWA POLICY REGARDING ADUs**
7. **FUTURE WATER TRANSFERS**
8. **COORDINATING WATER RIGHTS WITH JVID**
9. **OPERATIONS & ENGINEERING MANAGER REPORT**
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.

STAFF REPORT

PROJECTS UPDATE

AWA Projects

1. Pioneer Rehabilitation Phase 3 (USDA)
 - a. The Contractor is onsite installing water piping and preparing the ringwall for the second tank.
2. Tanner Water Treatment Plant PLC Upgrade Project
 - a. See Tim for update.
3. Tanner Water Treatment Plant Filter Media Replacement Project
 - a. 100% project plans and bid documents are being prepared.
4. Lone Clearwell Cover Hypalon Replacement Project
 - a. Final project plans and bid documents are being reviewed by AWA and the State for permit approval.
5. Lone Hydro
 - a. The final reimbursement request is being reviewed by the CEC.
6. Martell Lift Station #2
 - a. The project is awaiting shipment of the pumps and electrical components, which may be months away. Staff is proceeding with the PG&E electrical design.
7. Tiger Creek Regulator & Afterbay
 - a. Bailey Civil Engineering prepared a draft technical memo and alternatives report for the Tiger Creek Regulator backup intake. Equipment is being ordered.

AWA Studies and Applications

8. Wastewater Master Plan Study
 - a. Staff is reviewing a draft of the updated Sanitary Sewer Management Plan.
9. Wastewater Capacity Fee Update
 - a. The Hansford Economic Consulting draft study is scheduled for Board presentation on July 14 and possible adoption on July 28 .
10. HMGP Grant Applications

- a. Stantec, Landstedt & AWA are working on numerous RFIs on each the five previously submitted HMGP applications.

11. La Mel Booster Station

- a. AWA submitted a budget request to CalOES/HMGP for a total project cost of \$2,266,750 (75% grant) and is awaiting FEMA's response. Initiation of the project design may depend on a favorable CalOES review and AWA acceptance of the changes. Staff is proceeding with the PG&E electrical design.

12. 2022 Annual Water Supply and Demand Assessment

- a. The final report was submitted to DWR.

Notable Developer Projects

13. Pine Grove Bypass & WW Improvement Project

- a. Awaiting County response indicates AWA is 100% liable for project costs.

14. Castle Oaks Village 9

- a. Project plans are being reviewed and updated.

15. Wildflower Unit 2 & Foothill Boulevard

- a. Developer is working on completing the semi-final punchlist.

16. Wildflower Unit 1

- a. Development commitments and contracts are being worked on.

17. Caltrans storm drain project on Maine Street lone

- a. Staff is working with Caltrans on utility conflict resolution.

18. Wicklow Way

- a. Staff met with Amador County to discuss wastewater service options.

Prepared by: Brandt Cook, Resident Engineer

STAFF REPORT

RAMMCO WATER USAGE

Recommended Action:

Receive informational report from staff and provide any appropriate direction.

Background:

Rammco is a commercial laundry operating at 75 Church Street in Sutter Creek. They currently have a 1-inch service connection with AWA. Our Water Code associates a commercial 1-inch meter with usage up to 2.5 EDUs. Rammco's current water usage is 41 EDUs. Per our Water Code, this level of usage requires a 6-inch meter.

The consequences of this level of usage for AWA include foregone capacity fees, undercharged monthly service charges, and rapid failure of meters, requiring frequent replacement.

Rammco established service with AWA in 2016. In its first year of operation, its usage was 7 EDUs, which would require a 2-inch meter. The next year, it used 18 EDUs, which would require a 4-inch meter. From 2018 until now, its usage has been at the level associated with a 6-inch meter.

A letter from Rammco, attached, describes its plan to construct and operate a recycling system to reduce its usage 80%. That level of reduction from current usage would still require a 3-inch meter. Because of the lead time to establish the electrical service to operate the recycling system it envisions, Rammco proposes to add an additional 1.5-inch service now and to meet reduction targets over the next year. Rammco also requests a payment plan for the capacity fee for the 1.5-inch connection (\$119,002).

Rammco's letter is in response to meetings with AWA staff, and our requirement that Rammco provide a specific proposal for resolving its over use. Staff is trying to achieve a resolution that is fair to a local business and to other current and potential customers in the Tanner system.

At this time, staff proposes to require replacement of the existing 1-inch service with a 3-inch service, with the condition that the service will be up-sized, with additional charges owed, if usage is not brought down to at least 16 EDUs within one year. Considering Rammco's long usage in excess of its purchased capacity and the uncertainty of the timely implementation of its recycling project, staff views this as a generous approach.

To achieve its recycling goal, Rammco will need to acquire a capable recycling system, secure the electrical service from PG&E that is expected to take a year, and acquire wastewater capacity from the City of Sutter Creek. Whether Rammco has acquired the appropriate wastewater capacity for its operations from the City is unknown, and whether the City can accept brine waste from a reverse osmosis recycling system is also unknown. Thus, uncertainty with Rammco's plan and timeline is high.

While AWA is supportive of water use efficiency improvements, especially considering our treatment plant capacity limitations, staff does not propose to help finance Rammco's recycling project or to provide special treatment regarding capacity fees, other than requiring a 3-inch connection rather than a 6-inch connection immediately.

If staff proceeds as described, it is likely that Rammco will seek relief from the AWA Board.

Fiscal Impact:

The capacity fee difference between a 1-inch meter and a 6-inch meter is currently \$1,130,515. The difference between a 1-inch meter and a 3-inch meter is \$321,304. The monthly service charge for a larger meter is significantly higher.

Prepared by: Larry McKenney, General Manager

rammco

Dear Brandt,

I really appreciate the opportunity to let us work on a detailed plan to resolve the usage of water at Rammco.

Based on the conversation we had on June 8th, we have come up with a plan to save water usage and buy an additional meter for more water flow. The details follow: Rammco has met with Kemco, the company providing the reclaim system and PG&E. The system we are inquiring about will save approximately 80% of total water usage through recycling and RO. The issue we have run into is the power needed to run the total system exceeds our current power availability. This wouldn't normally be an issue, but PG&E is 12 months out approximately to completion. With that in mind we have devised a short-term plan and a long-term plan. The short term is we will be putting in the water reclaim system without the RO until enough power is equipped. The date for that will be by the end of the year. So, December we should be at a 50% savings of overall water usage. During that time, we will be adding more power to power the whole system and by next August we will be at a total savings of the 80%.

Part of the initial plan in conjunction with the water savings will be to have Amador Water Agency add an additional 1.5" line to the property to add the additional water usage needed for the future. We would like to discuss a payment plan before doing as the cost upfront will be too much to pay all at once.

Please let me know if this plan meets the requirements, as the Kemco is on standby to start the build and we do not want to be shut off moving forward.

Regards,

Brian Ramm



MEMORANDUM

Date: July 1, 2022

Subject: Accessory Dwelling Units (ADUs) within the AWA Service Areas

DISCUSSION:

Accessory Dwelling Units (ADUs) are additional living quarters on single-family lots that are independent of the primary dwelling unit. Also known as secondary dwelling units, mother-in-law units, or granny flats, ADUs are either attached or detached to the primary dwelling unit, and provide complete independent living facilities including permanent provisions for living, sleeping, eating, cooking, and sanitation. Note that Accessory Dwelling Units (ADU)s may not be separated from a primary residence through lot split or other land division.

On October 8, 2017, Governor Brown approved Senate Bill 229 which included new requirements for special districts to provide water and sewer service to Accessory Dwelling Units on residential properties under certain conditions. On October 9, 2019, Governor Newsom approved AB68 and SB13 which included additional requirements and clarifications.

AWA will follow State law applicable to Accessory Dwelling Unit (ADU) connections, however all service connections remain subject to periodic Agency review of metered usage as compared to the capacity purchased and allotted to the parcel. ADUs shall be treated as and shall follow the same requirements as new service connections, including but not limited to utility application, service, fees and capacity. ADU connections are subject to capacity availability and Capacity Fee payment per UN-4 Capacity Fee Equivalents, unless specifically exempt. AWA will have no duty to serve any ADU until after the owner has paid all required connection, capacity and other permitted fees, and obtains a will-serve from AWA. AWA retains the right to require payment in arrears for such fees from an owner who did not pay them upfront.

ADU applicants are required to obtain AWA Will Serve Letter(s) before permitting an ADU.

Applicants wishing to apply for a building permit for an ADU must first meet with the County or City for planning approval. Though AWA does not have the authority to regulate zoning or issue building permits, AWA is responsible for providing water and sewer service to AWA customers within AWA service areas. It is AWA's duty to be sure that there is safe and reliable water supply to meet its customers' needs and as such, an AWA Will Serve Letter is required prior to issuance of any County or City ADU building permit.

If additional connection(s) to a lot are required due to insufficient capacity or at the request of the Owner, then the equivalent water capacity fees and actual costs of construction will be charged. If an upsized of the existing service is required due to insufficient capacity or at the request of the property owner, the applicable water capacity fee and actual costs of construction for the new service size will be charged, less any previous water capacity fees paid.



The types of ADUs are as follows:

- 1) Type 1: Any new or expanded ADU within an existing single family residential unit, that would not expand the existing structure's footprint more than 150 square feet for the sole purpose of permitting ingress and egress to the ADU (CA Gov. § 65852.2, subdivision (e)(1)(A)).
 - a. ADUs must apply for service, are subject to capacity restrictions and must obtain a Will Serve from AWA, prior to obtaining a building permit.
 - b. ADUs in this category are exempt from being required to install a separate connection, and pay any water or sewer capacity fees.
 - c. ADUs may be billed additional billing and service fees for each additional unit associated with the account.
- 2) Type 2: All other ADUs, not specifically addressed in Type 1 above. Type 2 includes all ADUs constructed at the same time or in conjunction with new single-family homes.
 - a. ADUs must apply for service, are subject to capacity restrictions and must obtain a Will Serve from AWA, prior to obtaining a building permit.
 - b. ADUs in this category are treated as a new residential use and AWA will require the installation of individual water meters, sewer laterals, service lines and service connections directly between the ADU and AWA's main lines for both the new primary residence and the ADU, in addition to other standard requirements for the primary residence.
 - c. ADUs in this category are required to pay a reduced capacity fee specifically for ADUs per UN-4 Capacity Fee Equivalents. The Capacity Fee for an ADU shall be a percentage of the appropriate Capacity Fee applicable to a customer, per AWA Code Section 3, multiplied by the square footage of the ADU divided by 2,200 square feet, being the average size of a new single family residential unit. The ADU Capacity Fee shall be in addition to other required capacity fees and other fees.
 - d. New water and sewer service accounts shall be established for the ADU, separate from the primary residence account.

ADUs or other accessory structures will not be served prior to serving the primary residence. The primary residence is the first premises to which service shall be applied for, have fees paid and otherwise be provided. Additional structures may be required to install a separate connection or meter and pay the appropriate fees, as provided under AWA Water Code, especially section 1.10 Separate Premises and Multiple Premises.

Rates and fees are subject to change.

STAFF REPORT

OPERATIONS MANAGER REPORT

ACGMA:

1. Discussed Governor's Executive Order N-22, update on CGA Citizen Advisory Committee (CAC) appointments, Discussed City of Lone Joining the ACGMA JPA and possible future well for Castle Oaks Golf course.
2. No CGA Meeting in June Link to the New CGA Website - [About - Cosumnes Groundwater Authority](#)

REGULATORY COMPLIANCE SPECIALIST:

1. Water, Drought/Conservation and Wastewater reporting completed.
2. Completed and submitted 6 Electronic Annual water reports (EAR).

SAFETY TOPICS:

Staff conducted Safety Tailgate Meetings on the following subjects:

1. Take Action to Prevent Falls
2. Stretch Before Working
3. Safety on a New Job Site
4. Teamwork Prevents Accidents
5. Call Before You Dig
6. Forklift Safety
7. Heat Stress
8. Lockout / Tagout
9. Prevent Heat Illness At Work
10. The Safe Use of Compressed Air

DISTRIBUTION:

1. Two main line break repairs
2. Three service line break repairs
3. Two main valve repairs
4. Three fire hydrant replacements
5. One fire hydrant repair
6. Completed Ridgeway and Pine Acres Tanks warranty work
7. Upsized the propane tanks at Mason Pump Station

CANAL:

1. Twelve berm leak repairs on the Amador Canal
2. Four berm leak repairs on the Lone Canal

WATER TREATMENT PLANTS:

Lone Water Treatment Plant:

1. Plant now running on hydro bypass from reservoir.
2. Sludge continues to accumulate in both backwash tanks as staff has been unable to identify a contractor to de-sludge them.
3. Plant rate increased this month from 1400 gpm to 1500 gpm and is averaging 1.87 MGD.
4. Lone hydro has been running continuously for at least 9 days at about 1250-1300 gpm. This has been working well for the water quality of the WTP. During hydro shutdowns, the temperature of the raw water increases by about 2 degrees and the pH drops from 7.3 to 7.0 once we start exclusively pulling reservoir water to lone. As long as the hydro is running consistently it does not negatively impact the raw water quality.

Tanner Water Treatment Plant:

1. Staff has been working with the electrical department to integrate and test PLC replacement project. Continued testing and I/O cutover, assistance with plant facility interior construction work.

Buckhorn Water Treatment Plant:

1. The failures documented in months prior department reports including solenoids/actuators failure during clean-in-place and many other plant components are documented in the Pass 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. Currently the newest modules are now almost 6 years old and Pall Corp recommends that module life expectancy should be considered 7-9 years.

LaMel Water Treatment Plant:

1. Electrical Department determined pH probe cable had failed after operator called out for alarm, staff waiting on new cord to replace failed one.

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. Continue to spray and weed eat all sites.
2. Continue to monitor all bad areas in the collection system, jetting as needed.

ELECTRICAL / MECHANICAL:

1. Tanner PLC Upgrade – Staff is in the process of moving the field devices to the new PLC.
2. Remodeling the Tanner Water Treatment lab space as time allows.
3. Staff is working on installation for the network and electrical wiring for the boardroom remodel.
4. Staff worked with Distribution staff to locate and test the existing multi-conductor cable between Mt. Crossman Pump Station, Franks Tank and Ridgeway Tanks. This cable will be used in the future to allow independent level control for each tank.
5. Staff installed LED lighting in the upstairs storage area in the shop.
6. Staff replaced the failed exhaust fan motor in the Ridge Pump Station building.
7. Staff repaired the couplings on the #1 and #2 Backwash Recycle pumps at Lone Water Treatment Plant.

CONSTRUCTION:

1. Installed a 2" raw water service line off Eggiman Lane.
2. Repaired an 8" main line break on West Jackson Street in Lone.
3. Replaced 3 fire hydrants in the Camanche area.
4. Repaired a fire hydrant runner on Suncatcher Lane in Buckhorn.
5. Repaired an 8" water main line on Bryson Drive in Sutter Creek.
6. Repaired an 8" broken/leaking valve at Bryson Drive and Old Sutter Hill Road in Sutter Creek.

City of Plymouth Department Report

Covering June 1 – June 30, 2022

Regulatory Compliance Specialist-

- Monthly water reporting completed.
- Working on Inspection response to State.
- Electronic Annual Water report completed and submitted.

Wastewater-

- Continue to monitor collection system and lift station.
- Jetted where needed.
- Check all grease traps and issued pump orders as needed.

Water / Distribution–

- Commissioning and startup work on Plymouth pump station.
- Operations training of new Zinfandel pump station

Staff hours: 73.25 Water hrs. 2.5 Wastewater hrs.

Prepared by: Linda Nafus, Administrative Assistant II

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

River Pines Department Report

June 1 – June 30, 2022

Water Production/Sold

Well 2: 329,300 gallons	Total Produced: 1,052,246 gallons
Well 3R: 538,100 gallons	Total Sold: 750,330 gallons
Well 6R: 184,846 gallons	Unaccounted Loss: 29%

Regulatory Compliance Specialist-

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

Wastewater-

- Influent flow 1,276,700 gallons. Effluent Discharged 756,300 gallons.
- Replace mixer motor in Pond 1
- Met with State for annual inspection

Water Treatment / Distribution –

- Wells 2/3R continue to perform well with some but not significant aquifer drawdown.
- Staff has experienced 2 chlorine pump tubing failures this month resulting in additional operator time spent on site.
- Staff has experienced 2 Jaybird power fails resulting in operator response to reset tripped pumps.

Staff Hours: 58.25 Water hrs. 47 WW hrs.

Prepared by: Linda Nafus, Administrative Assistant II

Reviewed by: Rick Ferreira, Operations and Engineering Manager