



STAFF REPORT

TO: TOM DUBOIS, CITY MANAGER
MEETING DATE: NOVEMBER 18, 2024
FROM: DAN LAFONTAINE, PUBLIC WORKS DIRECTOR
SUBJECT: PUBLIC WORKS DEPARTMENT REPORT FOR OCTOBER 2024

Objective: The objective of this staff report is to provide a monthly status update regarding activities within the Public Works Department.

Executive Summary: As we get closer to winter, we are starting to see some signs of rain reoccurring in the forecast. At public works this means we are entering the busy time of year chasing after leaves and clearing drains. We are happy to report that Sutter Creek has been cleared from the flushing damn to the WWTP. We also managed to cut back the tributary at Karsan Dr. After the first rain of the year we cleaned up some leaves off the streets and sidewalks to try and keep our storm drains clean. We also finished with the installation of new thermo on the crosswalks on Gopher flat around the Primary school. We had to close the road but this installation will improve the safety of our children crossing Gopher flat for years to come.

On the treatment side of Public works we had a very busy month at the WWTP. We lost another roto strainer (shaft broke) leaving us with only one operational. As we enter the storm season this is a top priority to get numbers 3 and 4 back from the shops and installed ASAP. We did manage to repair the conveyor system in one month and will resume normal sludge wasting in the month of November. We managed to perform a cleaning of the chlorine contact chamber at the end of October that will keep our effluent samples clean. This is no small task as we have to shut the system off to isolate the chamber. Everything went well and the contact chamber was clean and back in service in a few days. Moving downstream further we completed the ROV inspection at the Henderson underdrain (a requirement of the Division of Damn Safety) and were able to get all the way to the face of the valve. WGA is currently reviewing the footage, and we will be sending that video to the DODS for comments.

Upcoming: In the next month PW will continue with the cleaning of the tributaries around town (with the help of Cal fire). The more we can clear out of the creeks the better prepared we are for any storms not backing up and alleviating any possible flooding. We will also be preparing for Christmas and the holiday season and by checking all out light strands in anticipation the lights going up the week of thanksgiving!

Detailed Summary: Below is a detailed summary and or status of the main PW responsibilities; Collection System, Wastewater Treatment Plant, Effluent Disposal, Streets and City Right of Way, Parks and Buildings, and Service Callouts.

Collection System Status:

CIP work

- The list of collection system repairs has been formalized for the 2024 calendar year. Currently we are scheduling to camera all of the lines that are on the list to make a final determination of repair or replacement. This work should be completed by the end of the year with cost estimates.

SSMP Activity

Calls for service

- 10/1/2024; 231 Mahoney Mill Rd, plugged private lateral.
- 10/28/2024; 57 Boston Alley, plugged City main. Approximately 75 gallons spilled and was cleaned up. A report was sent to CIWQS for the spill.

Sewer System Cleaning and Maintenance.

- For October 2024, there was 5,014 feet of sewer line cleaned. The total amount cleaned for the calendar year 2024 is 15,947 feet. The total for calendar year 2023 was 31,023 feet. This PW team focuses on the most pressing known problem areas. In October the PW team will focus on our typical problem areas ahead of the winter months.

Wastewater Treatment Plant Status:

The WWTP met all the effluent quality discharge requirements for the month of October.

Table 1. Monthly Status of required reporting constituents.

Constituent	Monthly Results	Monthly Limits
Monthly Influent Flow	10.968 MG 0.354 MGD daily avg	0.48mgd ¹
Effluent BOD, mg/L	14 mg/L	30 mg/l
Effluent Settleable Matter, mL/L	< 0.1 ml/L	0.5 ml/l
Effluent TSS, mg/L	5.5 mg/L	30 mg/l
Total Coliform, MPN	< 1.8 mpn	23 mpn
Sludge Wasted	5,950 gallons	
Rain	0.0 in.	0.0 in. YTD –27.52” Last YTD

¹ The .48 MGD is daily dry weather flow (May through October).

Plant Compliance Issues: The monthly September 2024 report was electronically submitted to the Regional Water Quality Control Board.

Operational Strategy Modifications:

- The rag bin was hauled on October 7, 2024.

- The conveyor system drum replacement has been installed and normal operation can be resumed. Sludge wasting was limited in October but did occur with 6K gallons dewatered.
- Roto strainers number 2 has broken the shaft leaving the WWTP with one operational strainer. The other two Roto Strainers are being worked on at the shop and are in constant contact to get these delivered back to the plant.
- The Aerator for the emergency pond has been disassembled and sent to the manufacturer to be repaired. We anticipate that we will have this back by the end of the year.
- On October 30, 2024, the Chlorin contact chamber was dewatered, cleaned of any sludge and put back into service. This cleaning will help keep our effluent samples in compliance with our permit.
- The chlorine pumps (lead and lag) have shown signs of failure (motor overheating and constant tripping). Two new pumps have been ordered through Grundfos on a rush basis.

Effluent Disposal

- Bowers and Hoskins irrigation were initiated for the season on June 3, 2024.
- Ione has received 250 acre-ft from the ARSA pipeline. Ione is requesting to switch back over to ARSA to take the remaining 50 acre-feet later in October.
- On October 30, 2024 representatives from ARSA met at the water board to discuss the water balances. Members from Ione and CDCR were in attendance also. The discussion centered around the upcoming deadline and no problems were noted for each agencies water balance.
- On October 22, 2024, an ROV inspection was performed on the Henderson underdrain. The ROV was able to get up the pipe all the way to the Henderson valve. WGA is currently reviewing the footage.
- Ongoing maintenance of the cattle water troughs along the pipeline. Irrigation sprinklers and valves are being repaired constantly
- Weed and rodent abatement at the three reservoirs.
- Send weekly updates to the Regional Board on reservoir levels and volumes.
- Daily flow checks and level readings.

Streets and City Right of Way.

- Red no parking curbs were painted on Boston Alley. We also managed to install a few parking spaces to better define the right places to park. We anticipate that this will inform our residents and visitors of the proper parking spaces. In November we will continue with curb markings on Eureka Street.
- Gopher flat cross walks. The public works team installed thermo on all crosswalks on Gopher flat and Broad St for children crossing Gopher flat to the primary school. See pictures below of the installation.



Parks and Buildings

- A fire broke out at the gateway property and scorched a portion of the irrigation piping and a few trees. Public works will work to clear the brush and reinstall irrigation to continue our beautification of that area.
- CalFire crews were onsite for a 4 days at in October to finish the creek clearing. The crew began where they left off in the creek and cleared down until they reached the WWTP. After the creek had been finished they had time to move to the Karsan Dr tributary and cleared that area. The City permit application has been submitted for the Creek cleaning. An update from Fish and Game, their staff review was complete, and it is now on the managers desk, and a determination was due at the end of August. To date, the determination has not been received but we have been told that it should be finished by the end of November.



Service Requests

Responded to eleven service requests in August.

- One was for street issue;
- Two were for facility issues;
- One was for drainage issue;
- Two were for a sewer issues.