

STAFF REPORT

City Council Consent Item

DATE: January 16, 2023

TO: Honorable Mayor and Council Members

FROM: Brendan Byrd, Public Works Director/City Engineer

SUBJECT: Public Works/Engineering Department Monthly Report

STAFF RECOMMENDATION:

Receive report as an informational item.

EXECUTIVE SUMMARY:

Public Works Director/City Engineer

Police Facility Remodel Project

The project is continuing to progress on schedule, and the current anticipated construction end date is March 2024. On the building interior, the drywall has been completed and all interior surfaces have been painted. The remaining work in January will principally include installing all of the built-in furniture and desks and installing the flooring. On the building exterior, the work is progressing as the weather allows.



(left) exterior painting

In early January the building will also receive the final gas and electrical power service connections. Remaining work on the building exterior over the next few months includes finishing the block wall along Rohnerville Road, site landscaping, paving, fencing and gates, and minor concrete work.

(right) Fortuna Police
Department Sign



12th Street Stormwater Project

The striping work has been completed, and the notice of completion has been filed for the project. With the rains picking up in recent months, the new basins have all performed well and have handled all gutter runoff in the area. Staff are currently working on closing out the grant with the State Water Resources Control Board.

Utilities Division- Utility Lead

Service Call Summary

- In the month of December the utilities division completed 72 service calls by operators. Figure 1 below shows the distribution of service calls by type.
- Underground Service Alert (USA) has changed its formatting, resulting in the inability to track how many marks and locates have been completed. There were two miss-marked lines in December, resulting in two broken water mains. Both breaks were contained and repaired quickly.

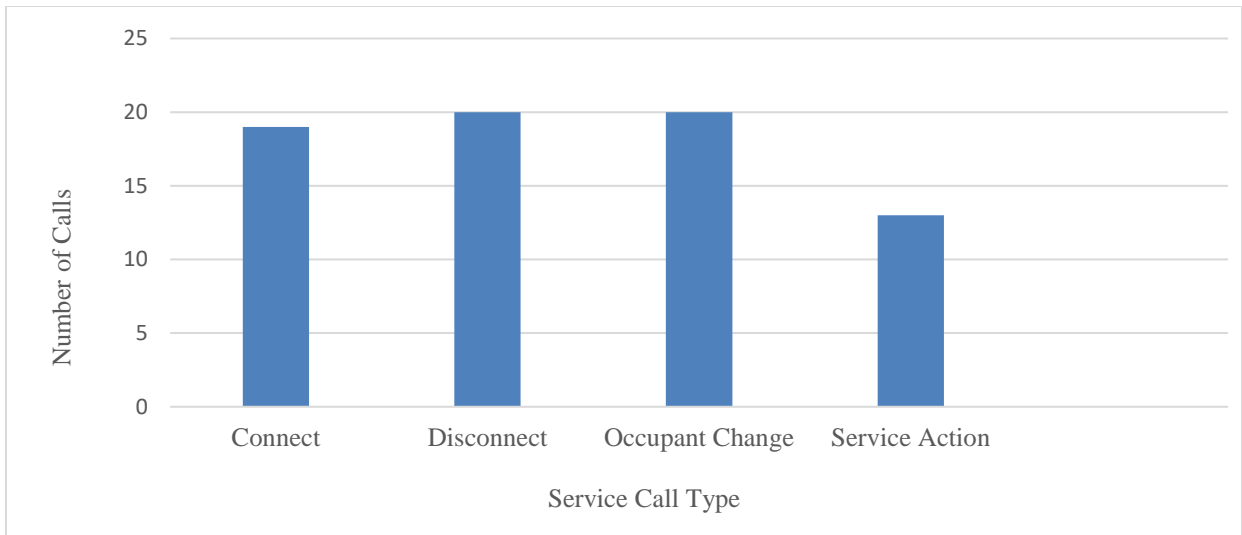


Figure 1. Utility division service calls by type in December.

Water Distribution System

- Read water meters and completed meter worksheet.
- The crew spent free-time testing backflows. We are trying to get ahead on backflow testing and hydrant flushing to allow more time for sewer camera work and the Carson Woods water line project later this year.
- Performed 21 water shut off for non-payments.
- The utilities team installed one new service in the month of December.
- In the month of December the utilities team changed out 7 dead water meters.
- Continued to check service lines for lead. The crew made great progress this month, and currently about 30% of the inventory has been completed.
- In December there were two water leaks. The estimated water loss of these leaks is 17,100 gallons.
- Installed an inline check valve on a meter in the 5000 block of Rohnerville Road to prevent a meter from spinning backwards.
- Fixed leaks on Bartlett and Webber Street.

Table 1. Water leak rate and water loss estimates for 2023.

Date	Location	Pipe Information	Estimated Leak Rate (Gallons per Minute)	Leak Duration	Total Estimate Leak Volume (Gallons)
12/4/2023	Bartlett Drive	2'' PVC	70	30 Min	2,100
12/14/2023	Webber St.	6'' PVC	800	30 Min	15,000

Wastewater Collections System

- Utilities cleaned 10,000 feet of sewer main.
- We had one sewer plug in the month of December resulting in no spills or overflows.
- We had a sinkhole appear over a sewer main in an ally at 15th and L Street. The sewer lateral and main were repaired and service maintained.

Miscellaneous Tasks

- The utilities division performed monthly maintenance on the division's heavy equipment, including greasing and checking all fluids

Water Treatment/Wastewater Division- Chief Plant Operator

Wastewater Treatment

Table 2. December wastewater plant effluent flows for the past five years in Million Gallons (MG) and Million Gallons per Day (MGD).

Year	2019	2020	2021	2022	2023
Total Monthly Flow, MG	44.189	31.116	48.950	50.700	48.590
Maximum Daily Flow, MGD	2.916	1.218	3.260	3.510	3.410
Average Monthly Flow, MGD	1.472	1.004	1.579	1.635	1.476

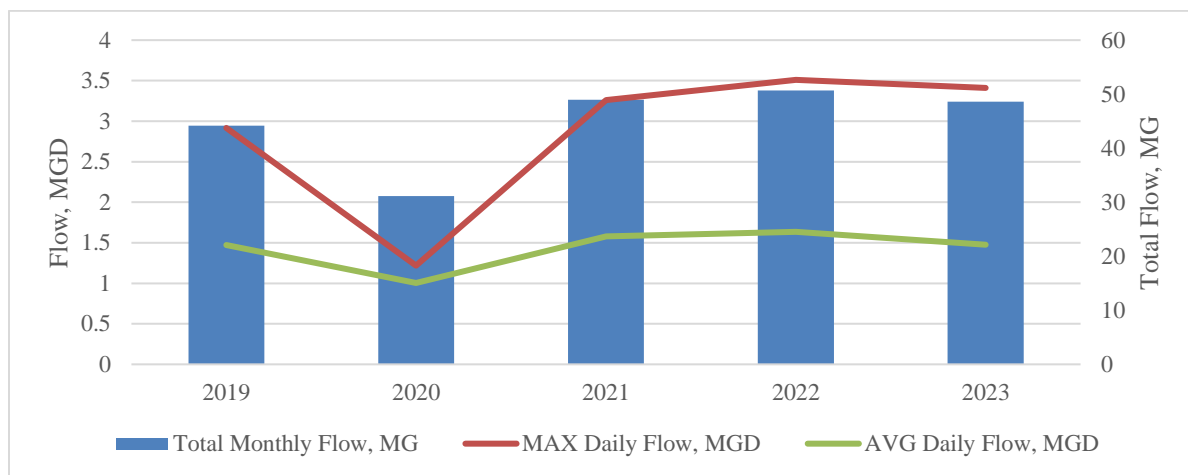


Figure 2. December wastewater plant effluent flows for the past five years in Million Gallons (MG) and Million Gallons per Day (MGD).

Wastewater Events & Maintenance Tasks Completed

- A contractor with help from staff completed the annual maintenance on the chlorine and sulfur dioxide feed system.
- A contractor with help from staff replaced the gas leak detection system.
- As noted in previous monthly reports, in May of 2023 the City's WWTP was inspected by Cal OSHA. Through the remainder of the year staff worked with the OSHA inspection

team to address the findings of the inspection, and in December staff completed all items listed in the final Cal OSHA Citation.

- A contractor installed security fencing around the chemical cylinder storage area (see photo inset below).



- Staff tore down and rebuilt wet well pump P-150. This pump had been in service daily at the plant since the 1970s, pumping approximately 1 million gallons per day.
- Staff held compost giveaway and dispensed approximately 500 cubic yards of Class A compost to citizens and farmers in the Fortuna area.
- Staff replaced belts and adjusted clearances on all Strong’s Creek Lift station pumps.
- Staff replaced belts and serviced pumps at Nob Hill lift station.

Water Treatment

Table 3. December potable water production for the past five years in Million Gallons (MG).

Year	2019	2020	2021	2022	2023
Total Production, MG	30.986	29.846	29.374	30.689	27.4724
Maximum Daily, MG	1.154	1.547	1.21	1.894	1.0907
Average Daily, MG	0.999	0.962	0.947	0.989	0.886

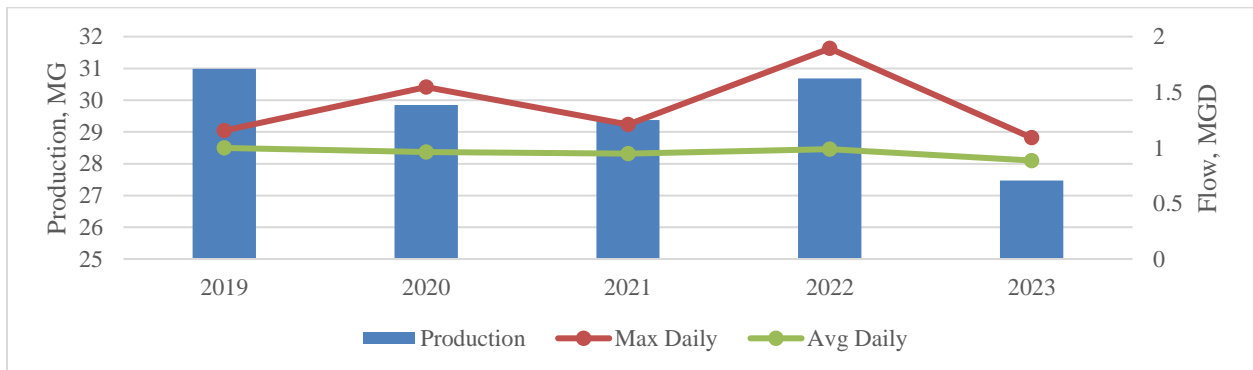


Figure 3. December potable water production for the past five years in Million Gallons (MG).

Water Events & Maintenance Tasks Completed

- Contractors completed replacing the gate and front fencing at Vancil reservoir.

- Staff finished hauling ground-up wood waste from the Vancil reservoir site down to the WWTP to use in compost operations. Logging contractors had left this byproduct material at the site upon completion of their recent timber operation there.

General Services and Streets - General Services Superintendent

The following is a list of scheduled assignments completed by the General Services staff in December:

- Staff prepared and maintain traffic control for the Downtown Merchants Open House and Al Gray Lighted Truck Parade.
- Staff provided traffic control for Crawford Drilling taking core samples at multiple locations for the Mill Creek Habitat Connectivity project.
- Staff assisted the Utility Crew for a broken water main on Weber Street.
- Staff cleared vegetation and muck at the outlet of a culvert on Kenmar Road. Staff also used the vacuum truck to clean drain inlets at multiple locations.
- Staff removed clutter and miscellaneous material from the Corporation Yard Building, and assisted Community Service Officers clearing the storage unit at the Corporation Yard.
- Staff cleared and maintained drain inlets while performing storm patrol.
- Staff extended a red curb on Smith Lane and Fortuna Boulevard.
- Staff installed a 35 MPH AHEAD sign on Kenmar Road in between Crestview and Pineview Drive.
- Staff relocated the radar trailer to Rohnerville Road near Kestrel.
- Staff assisted Business Improvement District with removing city items from a storage unit.
- Staff repaired the lift at City Hall and reposition other miscellaneous items.
- Staff removed trash debris at the Park and Ride.
- Staff removed debris and vegetation at the end of the street of Cheryl Lane that was blocking a storm water into the drain inlet.
- Brandon Craig was recently hired as a new Street II Maintenance Worker.
- In addition to the special tasks noted above, staff also engaged in the following regular routine maintenance activities including USA's, street sweeping, recycling and trash management, collect batteries at City Hall, road maintenance, Dog Park maintenance, vegetation management including sniping of curbs, and safety training and inspections. Staff is available for questions, requests, and emergency responses to the community.

RECOMMENDED COUNCIL ACTION:

Receive Public Works Department Monthly Report. Consent Agenda vote.