

MEMORANDUM



TO: Kelcey Young, City Manager
FROM: Greg Springman, Public Works Director
DATE: December 13, 2022
SUBJECT: Public Works Activities Report – November 2022

This memorandum provides a brief periodic update of specific projects, WTP/WWTP O&M and Compliance status, and activities performed by the Public Works Department.

This table section summarizes work done on key maintenance activities.

Work Type	November, 2022	October, 2022	2022 YTD	2021	3 Yr Avg
Bathrooms/Garbage	9	11	160	169	503
Catch Basin Inspection/cleaning	0	0	3	6	28
Leaf Collection	621	285	906	1637	666
Hydrant Flushing	0	0	198	324	302
Locates	6	11	492	491	486
Meter Re-Read	6	31	589	1060	777
Mowing	0	5	117	40	84
Playground EQ Inspection	3	7	68	49	56
Pothole Repair	18	14	371	514	597
Sewer CCTV Miles	0	0.00	0.40	0.16	2.48
Street Sweeping Miles	216	147	1096	893	2374
Water Main Repair	0	1	11	9	10
Water Service Repair	1	1	38	20	41
Water Turn Ons/Offs	17	25	541	677	877
Total Completed Work Orders	467	486	6170	6050	6973

WWTP and WTP Key Performance Indicators (KPIs)

	November, 2022	October, 2022	2022 YTD	2021	5 Yr Avg
Potable					
MG Treated	28.01	29.83	320.41	363.99	406.97
Backwash Water in MG	2.00	0.81	14.74	30.07	19.92
Ave daily demand in MG	0.93	0.96	0.96	1.00	1.12
Sanitary					
MG Treated	45.59	22.14	609.09	641.31	586.99
Max Daily Flow in MG	2.81	1.04	6.01	5.89	6.08
Average Flow in MG	1.52	0.71	1.82	1.76	1.61

MG is Million Gallons

Note: Sweet Home Wastewater treatment plant experienced 5 exceedances for the month of October 2022.

- For October Weekly Avg TSS pounds we exceeded 1 time with 244.7 on a permit of 180
- For October Weekly Avg cBOD pounds we exceeded 1 time with 275.8 on a permit of 180.
- For October Weekly Avg TSS mg/L we exceeded 1 time with 44.3 mg/L on a permit of 15
- For October Weekly cBOD mg/L we exceeded 1 time with 50.0 mg/L on a permit of 15mg/L
- For October Monthly cBOD mg/L was 10.8 on a permit of 10 mg/L
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Our data shows that something came into the facility on August 9th and 23rd killing our biology both times. We are working with outside consultants and the DEQ to bring the plant back to normal operating parameters.

The weekly average exceedances were from data in September from before fully recovering the plant. The Monthly cBOD exceedance was from an inability to get enough O2 into the aeration basin for biological treatment. Aeration was at 100%, attempting to lower solids to raise DO residual.

Current & Upcoming Projects

Small Diameter Water Main Replacement

Scope: Engineer of Record and Staff has identified aged water mains throughout the 54 miles of water distribution system. Staff and West Yost will take a phase approach to replace the 5 miles of small diameter water mains.

Status: Project RFP bids from Contractors have been submitted. Staff awarded Project in September 2022. Pre-Construction meeting scheduled for October 2022.

Pleasant Valley Bridge Water Main Repair

Scope: Pac Excavation to repair a broken 12" water main, replace 22 pipe hangers, and provide additional supports inside Pleasant Valley Bridge.

Status: Pac Excavation repaired the water main in August, 2022. Project completed

Water Master Plan – West Yost

Scope: Develop Water Master Plan to support development.

Status: Water Master Plan is scheduled for completion in November 2022. Staff will provide updates as necessary.

Stormwater Master Plan – West Yost

Scope: Develop Stormwater Master Plan to support development

Status: Stormwater Master Plan is scheduled for completion in June 2023. Staff will provide updates as necessary.

Backwash Pump Evaluation – West Yost

Scope: Install backwash pump, utilizing the clearwell for filter backwashes and the corresponding effects on the distribution system and treatment.

Status: Project awarded to Pacific Excavation. Backwash pump has been back ordered, projected arrival date was changed from November 2022, until December 2022 due to back ordering from vendor. Construction started May 2022. Project on schedule, other than the arrival of the backwash pump.

Finished Water Pump VFD Evaluation – West Yost

Scope: Evaluate feasibility to add a Variable Frequency Drive (VFD) to the current finish water pumps to maintain a constant level in clearwell to help facilitate backwash pumping.

Status: Project awarded to Pacific Excavation, with VFD installation coordinated with The Automation Group (TAG). Projected pump arrival date was changed from November 2022, until December 2022 due to back ordering from vendor.

Fluoride at WTP

Scope: Fluoride system at WTP has failed/End of life budgeted for replacement this FY23.

Status: PW Staff ordered replacement parts. Arrival for replacement parts TBD. Staff will provide updates to Council as necessary.

Water Meter Modernization

Scope: Replace water meters through the entire water distribution system.

Status: Public Works staff purchased 3000 Kamstrup Smart Ultrasonic water meters. Public Works staff has installed 2400 meters to date, project is 80% complete.

Wastewater Filter Belt Press

Scope: Filter Belt Press was installed in approx. 1974 and is an operational and financial challenge to keep operating, looking to prepurchase new dewatering equipment for the wastewater treatment plant as part of the upgrade project.

Status: PW staff currently working with Engineer of Record to confirm sizing of dewatering equipment.