

MEMORANDUM



TO: Kelcey Young, City Manager
 FROM: Greg Springman, Public Works Director
 DATE: October 11, 2022
 SUBJECT: Public Works Activities Report – September 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	September, 2022	August, 2022	2022 YTD	2021	3 Yr Avg
Bathrooms/Garbage	9	15	140	169	503
Catch Basin Inspection/cleaning	0	0	3	6	28
Leaf Collection	0	0	0	1637	666
Hydrant Flushing	129	0	198	324	302
Locates	74	94	475	491	486
Meter Re-Read	75	60	552	1060	777
Mowing	5	14	112	40	84
Playground EQ Inspection	8	4	58	49	56
Pothole Repair	0	11	339	514	597
Sewer CCTV Miles	0.00	0.00	0.40	0.16	2.48
Street Sweeping Miles	15	0	733	893	2374
Water Main Repair	0	0	10	9	10
Water Service Repair	1	7	36	20	41
Water Turn Ons/Offs	57	57	499	677	877
Total Completed Work Orders	655	739	5217	6050	6973

WWTP and WTP Key Performance Indicators (KPIs)

	September, 2022	August, 2022	2022 YTD	2021	5 Yr Avg
Potable					
MG Treated	32.52	37.96	262.57	363.99	406.97
Backwash Water in MG	1.03	1.32	11.93	30.07	19.92
Ave daily demand in MG	1.08	1.23	0.96	1.00	1.12
Sanitary					
MG Treated	22	26.31	541.36	641.31	586.99
Max Daily Flow in MG	1.18	1.14	6.01	5.89	6.08
Average Flow in MG	0.73	0.85	1.98	1.76	1.61

* MG is Million Gallons

Note: Sweet Home Wastewater treatment plant experienced 43 exceedances for the month of August 2022.

- For August daily TSS pounds we exceeded 7 times with highest being 2017.6 on a permit of 240
- For August Weekly Avg TSS pounds we exceeded 4 times with the highest being 1193.2 on a permit of 180
- For August Monthly Avg TTS pounds was 567.5 on a permit of 120 pounds
- For August Monthly TTS mg/l was 81.9 on a permit of 10 mg/L
- For August Weekly TTS mg/l we exceeded 4 times with the highest being 178.5 on a permit of 15mg/L
- For August daily cBOD pounds we exceeded 8 times with the highest being 1101.7 on a permit of 240
- For August Weekly Avg cBOD pounds we exceeded 4 times with the highest being 1003.1
- For August Monthly Avg cBOD pounds was 592.7 on a permit of 120
- For August Monthly cBOD mg/L was 82.9 on a permit of 10 mg/L
- For August Weekly cBOD mg/L we exceeded 5 times with the highest being 137.5mg/L on a permit of 15mg/L
- For August we exceeded our e-coli daily limit of 406 4 times with the highest being >2419.6
- For August we exceeded our e-coli geomean with 136 on a limit of 126
- For August we failed to meet our TSS %removal with 75.9% with a threshold of 85%
- For August we failed to meet our cBOD %removal with 64.8% with a threshold of 85%

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.

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. Pac Excavation has ordered all materials and will schedule to install once materials are received.

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.