

MEMORANDUM



TO: Ray Towry, City Manager
 FROM: Greg Springman, Public Works Director
 DATE: February 8, 2022
 SUBJECT: Public Works Activities Report – January 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	January, 2022	December, 2021	2022 YTD	2021	3 Yr Avg
Bathrooms/Garbage	19	11	19	169	503
Catch Basin Inspection/cleaning	1	2	1	6	28
Leaf Collection	0	182	0	1637	666
Hydrant Flushing	0	35	0	324	302
Locates	45	28	45	491	486
Meter Re-Read	74	76	74	1060	777
Mowing	0	0	0	40	84
Playground EQ Inspection	5	2	5	49	56
Pothole Repair	86	47	86	514	597
Sewer CCTV Miles	0.00	0.02	0	0.16	2
Street Sweeping Miles	130	115	130	893	2374
Water Main Repair	1	1	1	9	10
Water Service Repair	7	0	7	20	41
Water Turn Ons/Offs	43	62	43	677	877
Total Completed Work Orders	411	477	411	6050	6973

WWTP and WTP Key Performance Indicators (KPIs)

	December, 2021	November, 2021	2021 YTD	2020	2019	5 Yr Avg
Potable						
MG Treated	28.56	26.12	363.99	345.13	444.48	414.47
Backwash Water in MG	2.86	2.71	30.07	18.42	22.90	17.91
Ave daily demand in MG	0.92	0.87	1.00	0.95	1.21	1.12
Sanitary						
MG Treated	117.38	77.19	641.31	596.71	547.14	593.79
Max Daily Flow in MG	5.89	5.12	5.89	6.66	7.30	5.81
Average Flow in MG	3.79	2.57	1.76	1.63	1.50	1.63

* MG is Million Gallons

Note: Sweet Home Wastewater treatment plant experienced 6 exceedances and a SSO event for the month of December 2021.

- On 12/19/2021 at 12:15pm heavy rains, I&I greatly increased the incoming flow to the treatment plant. Approximately 2.657 million gallons of rain-diluted wastewater flowed to the designed Ames Creek bypass structure. Our treatment facility was running at or above the continuous design capacity of 6.0MGD during the event, which ended on 12/19/2021 at 5:00 AM.
- On 12/12/2021 we experienced a pH violation 6.2 on a permit minimum of 6.3, training on our limits followed the following week, along with clear signage.
- On 12/29/2021 Max daily TSS pounds was 2247.7 on a permit limit of 690 pounds
- On 12/29/2021 Weekly Avg TTS pounds was 1381.2 on a permit limit of 520 pounds
- On 12/29/2021 Weekly Avg TTS mg/L was 40 on a permit limit of 30.0
- Monthly Average TSS pounds was 803.7 on a permit limit of 350 pounds
- Monthly Average TSS mg/L was 24.2 on a permit limit of 20.0

Additionally, on 12/15/2021 we had an E-coli MPN of 665.3, on the 5 subsequent resamples we had a geomean of 99.4 which allowed us to not count the 665.3 as a violation on the max limit of 406.

Current & Upcoming Projects

Wastewater Treatment Plant Improvement Project

Scope: Upgrades to equipment & processes for DEQ Compliance

Status: Engineer of Record (West Yost) is conducting a 30-day review of the WWTP Improvement Project. West Yost will assume the WWTP Final Design and Construction Services. WWTP Improvement Project update will be present to Council in March 2022.

Small Diameter Water Main Replacement

Scope: Engineer of Record and Staff will identify aged water mains throughout the 54 miles of water distribution system. Staff has identified 5 miles of small diameter water mains requiring replacement.

Status: Phase I & Phase II project documents will be presented to Council in February 2022. Engineer of Record and Staff will continue to provide updates as available.

Sankey Park Improvements

Scope: Install new paths, lighting, and playground equipment.

Status: Project was completed by January 2022. Minor punch list of items remaining to be finished PW Staff.

2021 Overlay Project

Scope: Overlay multiple streets through the community.

Status: Phase I and Phase II construction has been completed.

Water & Stormwater Master Plans – West Yost

Scope: Develop Water & Stormwater Master Plans to support development

Status: Kick off meetings for both projects commence October 2021. Staff will provide periodic updates. Projects scheduled for completion in July 2022.

Backwash Pump Evaluation – West Yost

Scope: Evaluate feasibility of adding a backwash pump and using clearwell for filter backwashes and the corresponding effects on the distribution system and treatment.

Status: Design completed by West Yost, materials starting to be ordered for 1st stage of project. Contract approved by council to Pacific Excavation, pre-construction meeting occurred in January 2022.

Finished Water Pump 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 Pump.

Status: Design completed by West Yost, materials starting to be ordered for 1st stage of project. Contract approved by council to Pacific Excavation, pre-construction meeting occurred in January 2022.

Fluoride at WTP

Scope: Fluoride system at WTP has failed/End of life budgeted for replacement FY21/22.

Status: PW Staff obtaining quotes for replacement. Staff will present topic to Council in February 2022 for discussion.

Streaming Current Monitors Replacement

Scope: The Streaming Current Monitors (SCMs) have failed at the WTP and are at end of life.

Status: PW staff have obtained a quote from our Integrator of Record and are proceeding on this project utilizing that contract. Work underway with substantial completion scheduled for February 2022.

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.