



MONTHLY OPERATION REPORT

Monmouth, Illinois

Department of
Public Works

June 2022



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EXECUTIVE SUMMARY

The June Public Works monthly report provides an overview of the month's activities and statistical data including safety training, wastewater treatment effluent quality, water production, billing and collection statistics for municipal services, maintenance activities, maintenance and repair costs vs. monthly thresholds, water treatment chemical costs, overall project cost and performance to annual budget.

Jennifer's engineering group has begun the data gathering work on the required Capacity, Management, Operations & Maintenance program , (CMOM) as laid out in the City's NPDES permit from Illinois EPA.

As required by the same permit, the Phosphorous Removal Feasibility Study was completed by Woodard Curran and sent to IEPA in late July.

The SCADA upgrade project build out is nearly completed, the schedule is to migrate the information into the new system at the Water Treatment and Wastewater Treatment plants by October.

Advanced Plumbing has all material on order for the Bio-retention basin installation at the Monmouth Roseville D238 parking lot with hopes of breaking ground by the end of July. All stakeholders are aware of the schedule and adjustments of bus and vehicle traffic that will be required during construction.

Our 2022 Road improvement project funded by local fuel tax and state motor fuel tax has been submitted to IDOT for their review and approval. We hope to have a bid letting in August and construction in September/October. Approximately 45 blocks of streets will be affected with a variety of work including milling, base repair, ADA sidewalks where necessary, curb repair where necessary, improved drainage on West Euclid by Walgreens, and new asphalt surface on those selected blocks. Cost is estimated at just under \$1.3M dollars for the project. Once we have IDOT approval we will provide council a location map of the streets and work to be completed.

We are hoping to complete all of the downtown street painting prior to the annual Car Show if we don't run out of paint !!

Also, on the agenda is a departmental request to purchase a new trailer hydro vacuum machine for use at street, water, and sewer departments. The multifunctional machine can be used to suck out sewer drains, hydro excavate for water leaks, and includes a hydraulic valve operator. This machine will pay for itself over time as normally we have to hire out that work to a contractor which gets even more expensive during off hour emergencies. The Department much appreciates council's support in this purchase request.

Brockte Well and Pump are onsite to pull and televise Well 5. This Well has been out of service since COVID awaiting to be pulled as there were some issues with it right during the pandemic. Televising the bore hole will give us the information we need to get it back into service.

The first 2 loads of softener media have been delivered to the water plant in anticipation of starting the softener refurbish process at the North Water Treatment Plant.

We have begun investigation into switching over our disinfection product for drinking water to sodium hypochlorite, (bleach essentially), instead of gas chlorine. Many water plants have successfully transitioned to this instead of gas chlorine for safety reasons and long-term cost. We will need permission and permitting from IEPA, and also vendor set up costs to consider before we would make the switch. Superintendent Richard Nelson has brought forth this suggestion to me as an action item worthy of investigation.

Please contact me at 309-734-4026 with any questions.

Regards, Andy

1. HEALTH & SAFETY

There were no safety incidents or near misses in June. With the COVID 19 pandemic affected everyone, our staff is updated regularly on any new policy change, preventative measures, and PPE. All staff members are practicing social distancing while at work to help prevent the spread of the virus.



2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 140 million gallons of treated wastewater in the month of June . There were three combined sewer overflow events in June . The weather station at the plant reported 3.8” of rain during the month. The Consolidated Plant continues to produce excellent effluent quality. The table below outlines the water quality vs. NPDES permit limits.

Table 2-1: Water Quality vs. NPDES Permit Limits

	Monthly Average	Permit Limit
Flow (MGD)	4.7	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	2	10
Total Phos	0.8	1
Chloride's mg/l	316	500
Suspended Solids mg/l	10	12

3. WATER TREATMENT

The water treatment plants produced 99 million gallons of finished water in June. Finished water quality met all standards per the Clean Water Act for drinking water. The table below outlines the chemical usage for ion exchange softening for the month.

Table 3-1: Monthly Chemical Usage for Ion Exchange Softening

	Daily Average	Monthly Total
Treated Water to System	3.3 MG	99 MG
Poly Phosphate Usage-lbs.	112 lbs.	3,243 lbs.
Salt Usage — tons	5.1	147 tons
Chlorine Usage - lbs.	130	3,772 lbs.

4. REVENUE COLLECTION

The table below outlines the revenue collected from the Municipal Services billings for the fiscal year.

Table 4-1: FY to Date

PAYMENT TOTALS 2022-2023 FISCAL YEAR										
MONTH	WATER	SEWER	INFRASTRUCTURE	RECYCLE	GARBAGE	YARD WASTE	FARM BONDS	FARM SURCHARGE	OTHER	PENALTY
MAY '22	\$238,138.83	\$182,768.79	\$20,903.44	\$16,627.00	\$37,535.70	\$2,947.42	\$73,395.48	\$0.00	\$0.00	\$1,276.70
JUNE	\$249,234.42	\$191,852.17	\$20,204.37	\$15,763.89	\$36,738.52	\$2,672.17	\$73,712.48	\$0.00	\$50.00	\$1,717.98
JULY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
AUGUST	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SEPTEMBER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
OCTOBER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
NOVEMBER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
DECEMBER	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
JANUARY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
FEBRUARY	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
MARCH	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
APRIL '23	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
YEAR TO DATE	\$487,373.25	\$374,620.96	\$41,107.81	\$32,390.89	\$74,274.22	\$5,619.59	\$147,107.96	\$0.00	\$50.00	\$2,994.68
TOTAL REVENUE	\$1,165,539.36									

5. ANNUAL BUDGET – YEAR 10

The table below outlines the month and annual cost summary

Table 5-1: Annual Budget

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget	Over (Under)
Labor (D.L. + FB)	\$150,805	\$151,244	\$270,705	\$269,075	\$1,568,372	(\$1,630)
Utilities	\$3,795	\$2,444	\$6,813	\$3,753	\$39,471	(\$3,060)
Chemicals Costs	\$29,534	\$30,050	\$53,016	\$57,974	\$307,158	\$4,958
Maintenance\Repair	\$35,917	\$28,270	\$64,474	\$50,651	\$373,541	(\$13,823)
Sludge Disposal Costs	\$687	\$0	\$1,232	\$0	\$7,140	(\$1,232)
Lab Supplies\Equip	\$3,874	\$3,904	\$6,954	\$10,852	\$40,290	\$3,898
Office Supplies	\$2,118	\$16	\$3,803	\$3,702	\$22,031	(\$101)
Miscellaneous Expenses	\$4,678	\$4,404	\$8,397	\$10,122	\$48,648	\$1,725
Other Operating Costs	\$18,097	\$20,507	\$32,485	\$29,176	\$188,209	(\$3,309)
Overhead (G.A.)	\$34,053	\$34,152	\$61,127	\$60,759	\$354,149	(\$368)
Subtotal Year 9	\$283,559	\$274,991	\$509,007	\$496,064	\$2,949,009	(\$12,943)
Fixed Fee Year 9	\$20,416	\$19,799	\$36,649	\$35,717	\$212,329	(\$932)
Total	\$303,975	\$294,791	\$545,656	\$531,781	\$3,161,338	(\$13,875)

6. MAINTENANCE ACTIVITIES

Utilizing the Utility Cloud maintenance management program, staff completed 210 preventative and corrective workorders in June

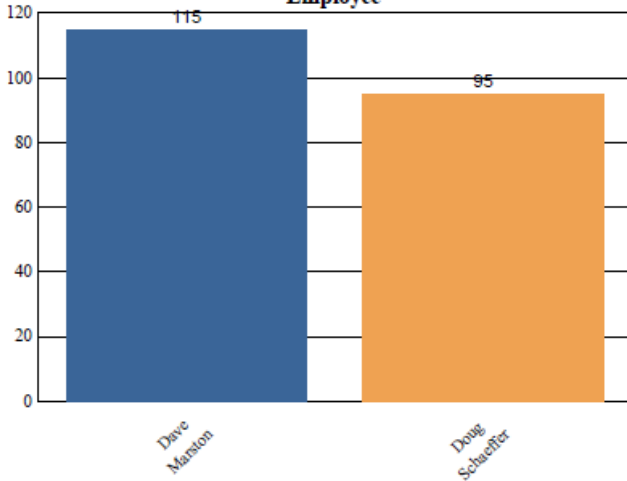


Maintenance History Report Monmouth

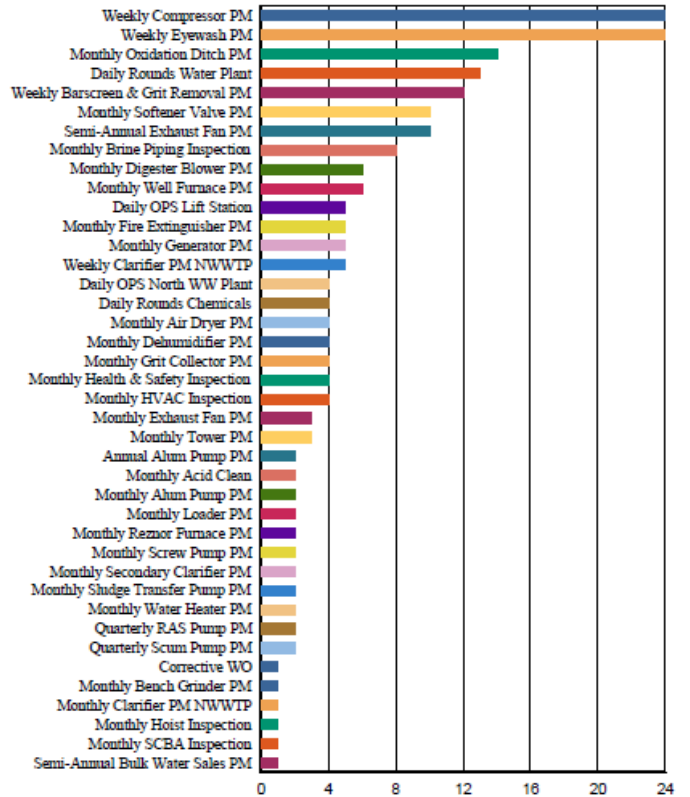
Report Start 6/1/2022
Report End 6/30/2022

Work Orders by Type	Total
Corrective Maintenance	27
Inspections	49
Preventative Maintenance	134
Total	210

Work Orders by Employee



Work Orders by Description





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