



MONTHLY OPERATION REPORT

Monmouth, Illinois

Department of
Public Works

August 2023



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EXECUTIVE SUMMARY

The August 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.

The Euclid/North 6th Street project is 100% completed and East Euclid is back open to traffic. All punch list items have been completed and the final pay application has been processed to close out that project.

Congressman Eric Sorenson toured the water treatment plant, observed a lead water service line, and toured the City in conjunction with the \$950,000 grant he has awarded the City to replace lead water service lines to comply with the EPA ruling.

The City received 2 bids at the bid opening for the mandated disinfection project at the wastewater treatment plant. Illinois EPA has mandated this project to seasonally, (from April through November) disinfect the discharge water from the wastewater treatment plant. The project must be completed by December 2024 and is funded through an Illinois EPA revolving loan. The bids are currently in review and will be presented to the council for action at the October 16th City Council meeting.

The city-wide power outage of September 22nd caused by the traffic accident whereby a primary power pole was struck by a semi resulted in an electrical surge that damaged electrical components at Well number 10. Well number 9 was struck by lightning during the storm of September 16-17 which damaged the electric motor. Both of these incidents will be turned into the City's insurance carrier for reimbursement of those repair costs once all repairs have been completed and invoiced.

Please contact me at 309-734-4026 if you have any questions,

Andy J

1. HEALTH & SAFETY

There were no safety incidents or near misses in August. Staff continues to complete monthly and annual training on the required OSHA topics.



2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 121 million gallons of treated wastewater in the month of August . There were 5 combined sewer overflow events in August . The weather station at the plant reported 4.1" of rain during the month. There were 5 combined sewer overflows 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)	3.9	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	2	10
Total Phos	0.4	1
Chloride's mg/l	268	500
Suspended Solids mg/l	5	12

3. WATER TREATMENT

The water treatment plants produced 99 million gallons of finished water in August. 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	3.2 MG	99 MG
Poly Phosphate Usage-lbs.	92 lbs.	2,850 lbs.
Salt Usage — tons	5.1 Tons	159 tons
Chlorine Usage - lbs.	116 lbs.	3,605 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 2023-2024 FISCAL YEAR										
MONTH	WATER	SEWER	INFRASTRUCTURE	RECYCLE	GARBAGE	YARD WASTE	FARM BONDS	FARM SURCHARGE	OTHER	PENALTY
MAY '22	\$254,618.67	\$194,597.61	\$21,776.84	\$17,258.21	\$40,753.52	\$3,014.13	\$73,712.48	\$0.00	\$25.00	\$2,143.72
JUNE	\$306,748.36	\$215,042.28	\$20,455.77	\$16,525.79	\$38,457.22	\$3,475.31	\$73,545.48	\$876.71	\$125.00	\$2,472.98
JULY	\$311,499.08	\$209,473.53	\$21,176.82	\$16,925.78	\$39,309.81	\$3,726.01	\$73,545.48	\$330.20	\$130.59	\$2,777.33
AUGUST	\$316,148.55	\$216,056.15	\$22,487.58	\$18,368.16	\$40,304.47	\$3,671.52	\$73,545.48	\$311.02	\$30.78	\$1,759.27
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	\$1,189,014.66	\$835,169.57	\$85,897.01	\$69,077.94	\$158,825.02	\$13,886.97	\$294,348.92	\$1,517.93	\$311.37	\$9,153.30
TOTAL REVENUE	\$2,657,202.69									

5. ANNUAL BUDGET – YEAR 11

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)	\$130,569	\$133,608	\$553,397	\$543,504	\$1,697,394	(\$9,893)
Utilities	\$3,100	\$465	\$13,138	\$9,431	40,296	(\$3,707)
Chemicals Costs	\$28,359	\$43,328	\$120,195	\$126,043	368,667	\$5,848
Maintenance\Repair	\$29,017	\$22,914	\$122,984	\$144,204	377,220	\$21,220
Sludge Disposal Costs	\$0	\$0	\$0	\$0	0	\$0
Lab Supplies\Equip	\$4,092	\$2,557	\$17,342	\$17,646	53,193	\$304
Office Supplies	\$1,776	\$1,368	\$7,527	\$6,760	23,087	(\$767)
Miscellaneous Expenses	\$4,541	\$5,183	\$19,247	\$19,596	59,036	\$349
Other Operating Costs	\$16,755	\$19,486	\$71,014	\$101,280	217,815	\$30,266
Overhead (G.A.)	\$29,483	\$30,170	\$124,961	\$122,727	\$383,283	(\$2,234)
Subtotal Year 11	\$247,692	\$259,079	\$1,049,805	\$1,091,191	\$3,219,990	\$41,386
Fixed Fee Year 11	\$17,834	\$18,654	\$75,586	\$78,566	\$231,839	\$2,980
Carryover Year 10						\$16,723
Total	\$265,525	\$277,733	\$1,125,391	\$1,169,757	\$3,451,829	\$61,089

6. MAINTENANCE ACTIVITIES

Utilizing the Utility Cloud maintenance management program, staff completed 194 preventative, corrective, and inspection work orders in August.

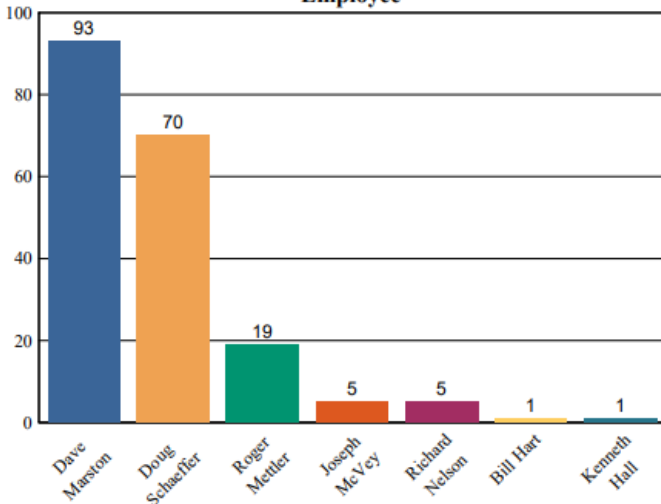


Maintenance History Report Monmouth

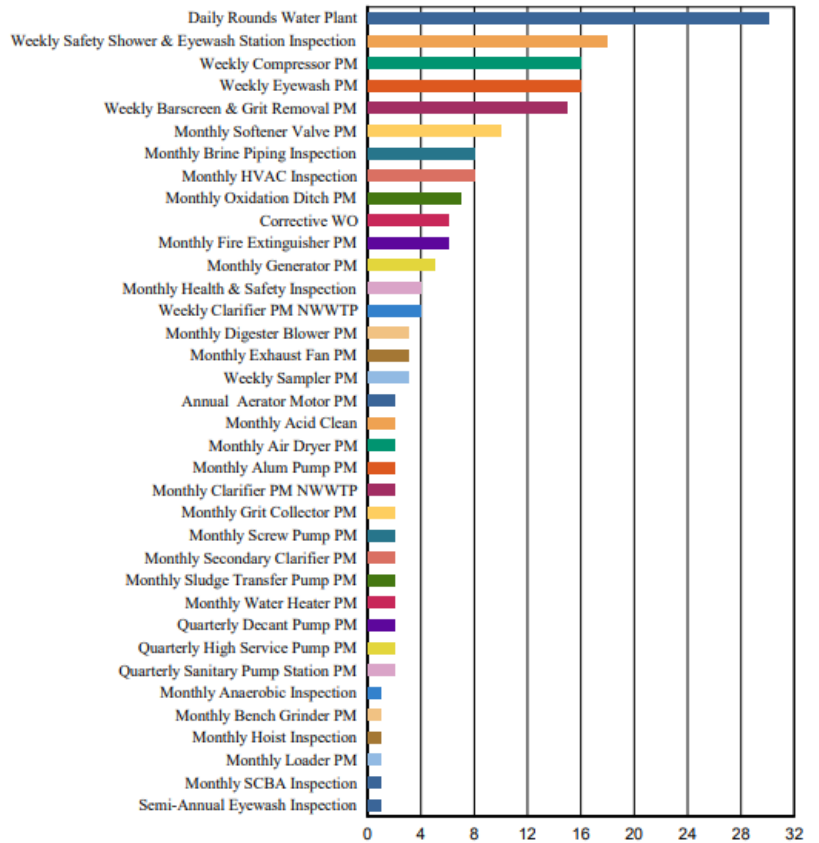
Report Start 8/1/2023
Report End 8/31/2023

Work Orders by Type	Total
Corrective Maintenance	54
Inspections	47
Preventative Maintenance	93
Total	194

Work Orders by Employee



Work Orders by Description





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