

Woodard and Curran September Report.pdf

Woodard and Curran Engineering projects update (11-4-22).pdf



MONTHLY OPERATION REPORT

Monmouth, Illinois

Department of
Public Works

September 2022



woodardcurran.com



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EXECUTIVE SUMMARY

The September 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.

Leaf pickup started on October 31st and will continue until everything is cleaned up weather providing. Yardwaste bag pickup will continue through November 30 with an option for an additional 2 weeks of service if the weather remains decent and residents are still setting them out.

The public parking lot development at the old Dairy location on South A has been completed and is in use.

The bio-retention basins project has been completed and is in use at the Monmouth Roseville High School parking lot.

Brandt Construction will be starting the concrete work portion of our street program the week of November 7th.

Inflation continues to have a negative impact for this fiscal year as cost is running about 8% over the project budget through September. Fuel costs, material costs for repairs and general maintenance, supply chain problems driving up costs, and chemical costs are the items mainly being impacted by the nationwide inflation issue.

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

Regards, Andy

1. HEALTH & SAFETY

There were no safety incidents or near misses in September. 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 106 million gallons of treated wastewater in the month of September . There were no combined sewer overflow events in September . The weather station at the plant reported 4.2" 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)	3.5	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	1	10
Total Phos	0.8	1
Chloride's mg/l	353	500
Suspended Solids mg/l	6	12

3. WATER TREATMENT

The water treatment plants produced 96 million gallons of finished water in September. 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	92 MG
Poly Phosphate Usage-lbs.	98	2,828 lbs.
Salt Usage — tons	5T	146 tons
Chlorine Usage - lbs.	120	3,477 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	\$252,784.63	\$194,196.43	\$20,831.30	\$16,275.74	\$37,909.78	\$2,754.18	\$73,712.48	\$0.00	\$50.00	\$1,717.98
JULY	\$258,021.50	\$202,500.53	\$20,167.27	\$15,865.46	\$36,806.86	\$2,707.88	\$73,712.48	\$0.00	\$100.00	\$2,031.32
AUGUST	\$274,851.26	\$205,046.08	\$21,898.91	\$17,425.06	\$39,956.16	\$2,859.64	\$73,712.48	\$322.89	\$50.00	\$2,751.97
SEPTEMBER	\$273,088.98	\$200,824.79	\$21,048.49	\$16,556.20	\$37,604.00	\$2,731.24	\$73,712.48	\$0.00	\$160.00	\$2,420.30
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	\$1,296,885.20	\$985,336.62	\$104,849.41	\$82,749.46	\$189,812.50	\$14,000.36	\$368,245.40	\$322.89	\$360.00	\$10,198.27
TOTAL REVENUE	\$3,052,760.11									

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	\$149,846	\$661,724	\$637,665	\$1,568,372	(\$24,059)
Utilities	\$3,795	\$5,558	\$16,654	\$16,324	\$39,471	(\$330)
Chemicals Costs	\$29,534	\$21,040	\$129,595	\$152,209	\$307,158	\$22,614
Maintenance\Repair	\$35,917	\$29,929	\$157,604	\$170,022	\$373,541	\$12,418
Sludge Disposal Costs	\$687	\$0	\$3,012	\$0	\$7,140	(\$3,012)
Lab Supplies\Equip	\$3,874	\$6,225	\$16,999	\$23,874	\$40,290	\$6,875
Office Supplies	\$2,118	\$2,182	\$9,295	\$11,695	\$22,031	\$2,400
Miscellaneous Expenses	\$4,678	\$5,069	\$20,525	\$26,488	\$48,648	\$5,963
Other Operating Costs	\$18,097	\$21,758	\$79,409	\$124,719	\$188,209	\$45,310
Overhead (G.A.)	\$34,053	\$33,836	\$149,422	\$143,989	\$354,149	(\$5,433)
Subtotal Year 9	\$283,559	\$275,444	\$1,244,239	\$1,306,985	\$2,949,009	\$62,746
Fixed Fee Year 9	\$20,416	\$19,832	\$89,585	\$94,103	\$212,329	\$4,518
Total	\$303,975	\$295,275	\$1,333,825	\$1,401,088	\$3,161,338	\$67,264

6. MAINTENANCE ACTIVITIES

Utilizing the Utility Cloud maintenance management program, staff completed 155 preventative and corrective workorders in September

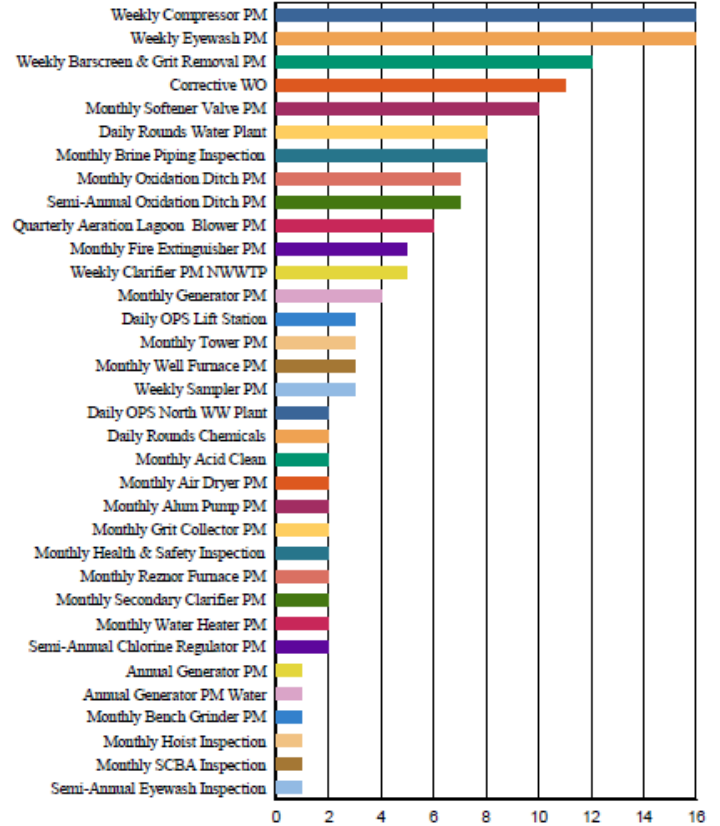


Maintenance History Report Monmouth

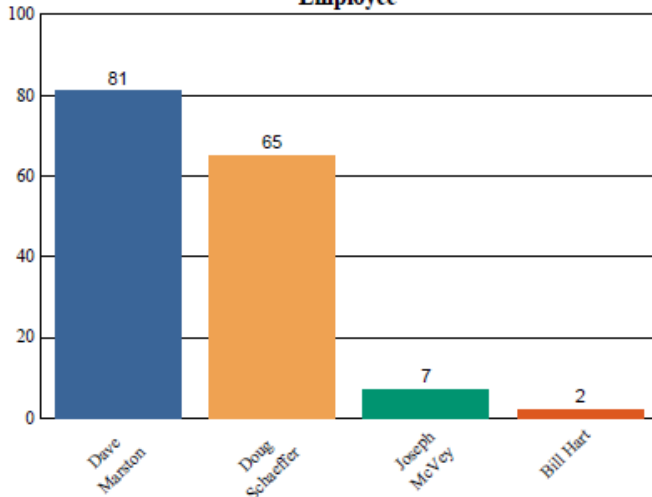
Report Start 9/1/2022
Report End 9/30/2022

Work Orders by Type	Total
Corrective Maintenance	26
Inspections	35
Preventative Maintenance	94
Total	155

Work Orders by Description



Work Orders by Employee





**Woodard
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Status Report

NOVEMBER 4, 2022

This memo is a status report of Project Team's efforts on the City Projects and describes:

- Highlights the work completed to date;
- Discussion of any outstanding issues that need to be addressed if applicable; and,
- Schedule update.

SCADA

Work & Activities to date

South Water Plant

Completed items:

- HMI application conversion to Ignition
- Ignition alarm notification with paging and phone callouts
- New SCADA computer installed
- Main PLC firmware upgrade

North Water Plant

Completed items:

- HMI application conversion to Ignition
- Ignition alarm notification with paging and phone callouts
- PLC and HMI programming for new well control. (Change Order)

Wastewater Plant

Completed items:

- HMI and PLC programming for new aeration equipment.
- Ignition alarm notification with paging and phone callouts
- Tablets for remote viewing

Schedule Update

South Water Plant

- Setup and test reports from Ignition. (In progress)
- Hand over 2 tablets for remote viewing of the water plants on my next onsite visit. (October 13 – 16)
- Install second monitor. (Had to order HDMI cables – will install on my next visit. October 13 – 16)

North Water Plant

- Main PLC firmware upgrade. Will need to shut down plant. (Sunday October 13)
- Convert main PLC program to use with the new firmware. (Sunday October 13)
- Install new SCADA computer with 2 monitors on my next onsite visit. (October 13 – 16)

- Setup and test reports from Ignition. (In progress)

Wastewater Plant

- Integrate new blower into the SCADA system when installed.
- Convert the wastewater plant HMI to Ignition. (In progress, estimated completion date January 31st, 2023)
- Install new SCADA computers
- Setup and test reporting
- Install new PLC and I/O cards for Bar Screen

East Euclid/North 6th Water Main

Work & Activities to Date

Survey has been completed. Water main design is in final reviews.

Schedule Update

Coordinating dates to go out to bid with City. Will indicate in contract that construction is not to start until the spring.

Downtown Sewer (USDA)

Work & Activities to Date & Outstanding Issues

Funding application submitted. Waiting for USDA approval

Downtown Water Main and Sewer Replacement (ARPA)

Work & Activities to Date & Schedule Update

RFP for survey work has been sent out. It is due to Don on 11/11. Plan to get surveyor under contract in November.

Well No. 11

Work & Activities to Date

C-I permit application submitted to IEPA. Design is starting. Currently updating cost estimate and assisting Jarred with application for CDBG grant. Provided Jarred with updated cost estimate and project description for water treatment plant only.

Schedule Update

- Develop plans and specs by May 2023. Contact potential contractors to get project on their radar.
- Bid in May 2023. Award in June 2023.
- Construction July to October 2023.
- C-II permit application and review period October 2023 to January 2024.

Closing

Please contact Jack Troidl (jtroidl@woodardcurran.com) if you have any questions or concerns, (781) 613-0457.