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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

May 2021



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EXECUTIVE SUMMARY

The May 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.

North D Street sewer replacement and customer lateral connections is completed and in service. Some additional cleanup and re-seeding should be completed by the end of the week. I have asked the County to look at the road and see if it can be seal coated for restoration.

Crews have been picking up brush and cleaning storm drains for most of the week from the weekend storms and rains this week, plus repaired the 12" water main on North 6th across from the cemetery. We were notified that our street paint order will hopefully be delivered around the 3rd or 4th week of July. Supply chains have been stressed for all materials, hopefully things will return to somewhat normal sooner rather than later for parts and materials.

Richard Nelson is recommending installation of several distribution pressure gauges in various areas on the water distribution system to determine if there are any large pressure zones whereby pressure differentials or spikes in pressure are causing main breaks. Those gauges will include a data logger to continuously record pressure so we can see if we are having spikes and when. This will be a useful tool to see what is happening within our system in problem areas.

I have been working with Koenig Body and Equipment from Peoria, and Enterprise on converting the 12-volt electric snowplow package hydraulic system to a PTO driven hydraulic system on the 2 leased F750 dump trucks. The electronic system has not been reliable and has had numerous issues as far as working properly. Koenig sent a representative to meet with myself and Joe McVey last week to look at the existing setup. Koenig is recommending going to a live hydraulic system driven by the truck engine. I have a call next week with Enterprise to discuss and move forward with the conversion to ensure reliability for snow removal.

The Risk & Resiliency Assessment report for the City's drinking water system has been certified with the United States Environmental Protection Agency as a requirement of the American Water Infrastructure Act of 2018.

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

Regards, Andy

1. HEALTH AND SAFETY/STAFF

There were no safety incidents or near misses in May . 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 208 million gallons of treated wastewater in the month of May . There were 2 combined sewer overflow events in May . The weather station at the plant reported 7” 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)	6.72	4.62
Ammonia N mg/l	0.2	1.5
CBOD5 mg/l	2	10
Total Phos	0.8	1
Chlorides mg/l	252	500
Suspended Solids mg/l	9	12

3. WATER TREATMENT

The water treatment plants produced 86 million gallons of finished water in May . 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	2.8 MG	86 MG
Poly Phosphate Usage-lbs.	101 lbs.	3,157 lbs.
Salt Usage = tons	4.5	139 tons
Chlorine Usage - lbs.	109	3,374 lbs.

5. TOTAL ANNUAL COST

Table 5-1: Annual Budget – Year 8

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget	over(under)
Labor (D.L. + FB)	\$88,166	\$94,242	\$87,925	\$94,242	\$1,528,218	\$6,317
Utilities	\$2,263	\$171	\$2,257	\$171	\$39,222	(\$2,086)
Chemicals Costs	\$18,159	\$8,094	\$18,110	\$8,094	\$314,763	(\$10,016)
Maintenance\Repair	\$21,070	\$14,809	\$21,013	\$14,809	\$365,220	(\$6,204)
Sludge Disposal Costs	\$0	\$0	\$0	\$0	\$0	\$0
Lab Supplies\Equip	\$2,473	\$2,159	\$2,467	\$2,159	\$42,871	(\$308)
Office Supplies	\$1,069	\$2,565	\$1,066	\$2,565	\$18,526	\$1,499
Miscellaneous Expenses	\$2,807	\$3,481	\$2,799	\$3,481	\$48,648	\$682
Other Operating Costs	\$8,146	\$16,731	\$8,124	\$16,731	\$141,199	\$8,607
Overhead (G.A.)	\$19,909	\$21,280	\$19,854	\$21,280	\$345,081	\$1,426
Subtotal Year 8	\$164,062	\$163,532	\$163,613	\$163,532	\$2,843,748	(\$81)
Fixed Fee Year 8	\$11,812	\$11,774	\$11,780	\$11,774	\$204,750	(\$6)
Total	\$175,875	\$175,306	\$175,393	\$175,306	\$3,048,498	(\$87)

6. MAINTENANCE ACTIVITIES

Utilizing the Utility Cloud maintenance management program, staff completed 264 preventative and 13 corrective workorders in May . Click the file below to see the months activities.



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May 2020.pdf