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COMMITMENT & INTEGRITY DRIVE RESULTS

# Monthly Operating REPORT

Monmouth, Illinois

Department of  
Public Works

June 2018



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## EXECUTIVE SUMMARY

The June Public Works monthly report provides an overview of the month's activities and statistical data including: 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.

Street and Grounds keeping crews were busy with normal routine activities. Crews repaired 8 water main breaks in June due to the hot dry weather.

Water and Wastewater Treatment plants continue to function well without any major issues.

The North Plant Clarifier project is about 95% completed through June which is well ahead of schedule.

Feel free to stop by the office or give me a call, 309-734-4026 if you have any questions or comments.

Regards, Andy

## 1. HEALTH AND SAFETY/STAFF

Staff completed the annual Fire Extinguisher training. There were no safety incidents or near misses in June.

## 2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 110 million gallons of wastewater in the month of June. There was 3 combined sewer overflow events in June. The weather station at the plant reported 3.95” 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)	3.67	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	2	10
Total Phos	1.0	1
Chlorides mg/l	349	500
Suspended Solids mg/l	5	12

## 3. WATER TREATMENT

The water treatment plants produced 92 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	2.85 MG	85 MG
Poly Phosphate Usage-lbs.	9	2,740 lbs
Salt Usage — tons	5.5	166 tons
Chlorine Usage - lbs.	113	3,384 lbs



## 5. TOTAL ANNUAL COST

Table 5-1: Annual Budget – Year 5

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget	over(under)
Labor (D.L. + FB)	\$126,442	\$146,684	\$252,885	\$244,703	\$1,517,309	(\$8,182)
Utilities	\$3,175	\$3,747	\$6,350	\$4,199	\$38,100	(\$2,151)
Chemicals Costs	\$25,250	\$44,054	\$50,500	\$55,713	\$303,000	\$5,213
Maintenance\Repair	\$27,642	\$53,896	\$55,283	\$72,999	\$331,700	\$17,716
Sludge Disposal Costs	\$500	\$0	\$1,000	\$0	\$6,000	(\$1,000)
Lab Supplies\Equip	\$3,479	\$5,064	\$6,958	\$6,425	\$41,750	(\$533)
Office Supplies	\$1,504	\$3,139	\$3,008	\$5,589	\$18,050	\$2,581
Miscellaneous Expenses	\$4,058	\$4,864	\$8,117	\$8,611	\$48,700	\$494
Other Operating Costs	\$12,529	\$19,707	\$25,058	\$32,023	\$150,350	\$6,965
Overhead (G.A.)	\$28,552	\$33,122	\$57,103	\$55,256	\$342,618	(\$1,847)
Subtotal Year 5	<b>\$233,131</b>	<b>\$314,278</b>	<b>\$466,263</b>	<b>\$485,518</b>	<b>\$2,797,577</b>	\$19,255
Fixed Fee Year 5	\$16,785	\$22,628	\$33,571	\$34,957	\$201,426	\$1,386
<b>Total</b>	<b>\$249,917</b>	<b>\$336,905</b>	<b>\$499,834</b>	<b>\$520,475</b>	<b>\$2,999,003</b>	<b>\$20,641</b>

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## 6. MAINTENANCE/REPAIR ACTIVITIES

### A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

#### Water/Street Facilities

Maintenance staff completed 74 routine/preventative and 41 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in June. 85 requests for service were responded to by service personnel. 93 requests for City utility locates from the J.U.L.I.E. call center was completed.

Water distribution system and sewer collection system items:

- Installed rebuild kit on brine pump at North Water Plant
- Replaced 20 water meters
- Repaired water main 300 East Euclid
- Repaired water main and replaced 60' of water main pipe 700 block West 6<sup>th</sup> Avenue
- Repaired water main 600 East Franklin
- Repaired water main 100 West Detroit
- Repaired water main 800 South 3<sup>rd</sup>
- Repaired water main 1200 North 6<sup>th</sup>
- Repaired water main 300 East Girard, 15' of new pipe and fittings
- Repaired water main at Cramer Court
- Tested 5 large water meters at Monmouth College, 3 of them were at or above 99.6% accurate, 2 were repaired and re-tested at 100% accurate
- Replaced chlorine booster pump piping at North Water Plant

#### Wastewater Facilities

Maintenance staff performed 118 routine/preventative work orders and 4 corrective work orders at the Consolidated Plant and North Pretreatment Plant.

#### Street/Grounds/Right of Way/Fleet

- Various tree removal and trimming, pot hole patching, street sweeping
- Scheduled vehicle service work (lube, oil, filters)
- Repaired intake and curbing 200 West 1<sup>st</sup> Avenue
- Replaced rotors, calipers, pads and hoses on T11 (2008 F450)
- Replaced tires on the bat wing mower
- Replaced the batteries on the Komatsu end loader
- Replaced tail lights and wiring on T1

## 7. CAPITAL PROJECTS

### North Plant Clarifier:

Project at 95% completion, clarifier is operable and on-line. Just a few punch list items remaining including installation of the safety railing once it arrives. The new clarifier is producing excellent effluent.