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COMMITMENT & INTEGRITY DRIVE RESULTS

# Monthly Operating REPORT

Monmouth, Illinois

Department of  
Public Works

July 2019



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## EXECUTIVE SUMMARY

The July 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.

Laverdiere Construction completed the Southeast water main replacement project in mid-August. The final construction cost was just under \$498,000. In working closely with the contractor, we were able to save about \$70,000 of cost by moving the pipe alignment into the boulevard vs in the street which saved approximately \$50,000 in street restoration. We were also able to eliminate four line stops and two 10" valves on the project creating the remainder of the savings. The good news is the grant will cover all the construction cost without any additional dollars from the water & sewer fund.

Street crew completed repairing of the intersection of South 6<sup>th</sup> and East 3<sup>rd</sup> including removal of 20 feet of the old brick and asphalt surface, installation of new base course, new concrete pavement, and new curb and gutter.

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 annual review of the respiratory protection program. There were no safety incidents or near misses in July.

## 2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 88 million gallons of treated wastewater in the month of July. There were no combined sewer overflow events in July. The weather station at the plant reported only 0.6” 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)	2.83	4.62
Ammonia N mg/l	<0.1	1.5
CBOD5 mg/l	2	10
Total Phos	0.9	1
Chlorides mg/l	376	500
Suspended Solids mg/l	10	12

## 3. WATER TREATMENT

The water treatment plants produced 93 million gallons of finished water in July. 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	2.99 MG	93 MG
Poly Phosphate Usage-lbs.	95 lbs.	2,944 lbs.
Salt Usage — tons	5.5	171 tons
Chlorine Usage - lbs.	119	3,678 lbs.



## 5. TOTAL ANNUAL COST

Table 5-1: Annual Budget – Year 7

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget	over(under)
Labor (D.L. + FB)	\$129,524	\$114,502	\$388,573	\$365,926	\$1,554,290	(\$22,647)
Utilities	\$3,217	\$4,552	\$9,652	\$8,945	\$38,608	(\$707)
Chemicals Costs	\$25,587	\$23,533	\$76,760	\$73,880	\$307,040	(\$2,880)
Maintenance\Repair	\$29,573	\$57,204	\$88,718	\$129,790	\$354,870	\$41,073
Sludge Disposal Costs	\$833	\$0	\$2,500	\$0	\$10,000	(\$2,500)
Lab Supplies\Equip	\$3,526	\$3,230	\$10,577	\$10,399	\$42,306	(\$178)
Office Supplies	\$1,524	\$2,967	\$4,573	\$5,202	\$18,291	\$629
Miscellaneous Expenses	\$4,113	\$3,719	\$12,338	\$11,576	\$49,351	(\$762)
Other Operating Costs	\$12,687	\$24,693	\$38,060	\$59,133	\$152,238	\$21,074
Overhead (G.A.)	\$29,247	\$25,855	\$87,742	\$82,628	\$350,969	(\$5,114)
Subtotal Year 7	<b>\$239,830</b>	<b>\$260,255</b>	<b>\$719,491</b>	<b>\$747,479</b>	<b>\$2,877,963</b>	\$27,988
Fixed Fee Year 7	\$17,268	\$18,738	\$51,803	\$53,818	\$207,213	\$2,015
<b>Total</b>	<b>\$257,098</b>	<b>\$278,993</b>	<b>\$771,294</b>	<b>\$801,297</b>	<b>\$3,085,177</b>	<b>\$30,003</b>

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## 6. MAINTENANCE/REPAIR ACTIVITIES

### A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

#### Water/Street Facilities

Maintenance staff completed 79 routine/preventative and 20 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in July. 78 requests for service were responded to by service personnel. 186 requests for City utility locates from the J.U.L.I.E. call center were completed.

Water distribution system and sewer collection system items:

- Replaced 11 water meters
- Repaired water main 1000 block South 8th
- Repaired water main 900 block East Euclid
- Repaired water main 300 block North 5th
- Repaired water main 600 block South B
- Repaired water main 200 block South D
- Replaced softener #1 air valve & manual valve

#### Wastewater Facilities

Maintenance staff performed 138 preventative work orders at the Consolidated Plant and North Pretreatment Plant.

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

- Various tree removal and trimming, pothole patching and utility repair patching
- Scheduled vehicle service work (lube, oil, filters)
- Repaired AC and power steering pump on T18
- Replaced coil pack T42
- Street crews removed old brick and asphalt pavement, replaced with concrete pavement, curb, and gutter at the intersection of South 6<sup>th</sup> Street and East 3<sup>rd</sup> Avenue.

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## 7. CAPITAL PROJECTS

Southeast Water Main project funded through CDBG has been completed.

The next round of CDBG grant applications with survey and design to replace the aged water main on East Euclid Avenue from North 1<sup>st</sup> Street to North 6<sup>th</sup> Street. Design is completed and awaiting permitting from IEPA. Jarred Dexter from WIRC will be sending in the grant application at the end of August.

Awaiting IEPA permitting for the North Pre-Treatment Plant and CSO Phase 2 projects.

The Love's Travel Stop utility extension project design is 75% complete. Design reviewed with Love's engineering group at our monthly call.