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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

August 2018



TABLE OF CONTENTS

SECTION

Executive Summary	
1. HEALTH AND SAFETY/STAFF	
2. WASTEWATER TREATMENT	
4. REVENUE COLLECTION	
5. ESTIMATED ANNUAL COST	
6. MAINTENANCE/REPAIR ACTIVITIES	
7. CAPITAL PROJECTS	

LIST OF TABLES

TABLE

Table 1-1:	Water Quality vs. NPDES Permit Limits	
Table 2-1:	Monthly Chemical Usage for Ion Exchange Softening	
Table 3-1:	Revenue Collection	
Table 4-1:	Estimated Annual Budget – Year 5	

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EXECUTIVE SUMMARY

The August 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.

Public Works activities centered around the August community events including:

- Car Show
- Bacon Fest
- Prime Beef Festival

Brockte Well and Pump replaced the motor, adapter, and added a check valve on the column piping on Well #9. Wastewater Treatment Plant continues to operate without any major incidents or issues. The new screw pumps are also worked well in handling the big rain events on the 24th and 28th of the month.

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 eye wash/emergency shower training. There were no safety incidents or near misses in August.

2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 101 million gallons of wastewater in the month of August. There were 2 combined sewer overflow events in August. The weather station at the plant reported 5.6" 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)	3.25	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	2	10
Total Phos	1	1
Chlorides mg/l	349	500
Suspended Solids mg/l	6	12

3. WATER TREATMENT

The water treatment plants produced 88 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	2.8 MG	88 MG
Poly Phosphate Usage-lbs.	94 lbs	2,922 lbs
Salt Usage = tons	5.4	168 tons
Chlorine Usage - lbs.	109	3,375 lbs

5. TOTAL ANNUAL COST

Table 5-1: Annual Budget – Year 6

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget	over(under)
Labor (D.L. + FB)	\$126,442	\$119,900	\$505,770	\$471,625	\$1,517,309	(\$34,145)
Utilities	\$3,175	\$2,076	\$12,700	\$8,676	\$38,100	(\$4,024)
Chemicals Costs	\$25,250	\$17,353	\$101,000	\$108,364	\$303,000	\$7,364
Maintenance\Repair	\$27,642	\$28,902	\$110,567	\$137,350	\$331,700	\$26,783
Sludge Disposal Costs	\$500	\$0	\$2,000	\$0	\$6,000	(\$2,000)
Lab Supplies\Equip	\$3,479	\$6,232	\$13,917	\$17,549	\$41,750	\$3,632
Office Supplies	\$1,504	\$40	\$6,017	\$6,727	\$18,050	\$710
Miscellaneous Expenses	\$4,058	\$3,235	\$16,233	\$16,279	\$48,700	\$46
Other Operating Costs	\$12,529	\$16,105	\$50,117	\$73,178	\$150,350	\$23,061
Overhead (G.A.)	\$28,552	\$27,074	\$114,206	\$106,496	\$342,618	(\$7,710)
Subtotal Year 5	\$233,131	\$220,918	\$932,526	\$946,244	\$2,797,577	\$13,718
Fixed Fee Year 5	\$16,785	\$15,906	\$67,142	\$68,130	\$201,426	\$988
Total	\$249,917	\$236,824	\$999,668	\$1,014,373	\$2,999,003	\$14,706

6. MAINTENANCE/REPAIR ACTIVITIES

A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

Water/Street Facilities

Maintenance staff completed 82 routine/preventative and 20 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in August. 104 requests for service were responded to by service personnel. 196 requests for City utility locates from the J.U.L.I.E. call center was completed. Water distribution system and sewer collection system items:

- Replaced RPZ at North Water Plant
- Replaced 9 water meters
- Repaired water main 700 North B
- Repaired water main 300 North 5th
- Repaired water main 500 East 1st
- Repaired water main 500 South 9th
- Repaired curb stop 215 North 10th
- Repaired curb stop 402 North 2nd
- Repaired soft starter on high service pump at North Water Plant

Wastewater Facilities

Maintenance staff performed 121 routine/preventative 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)
- Replaced hydraulic lines on street sweeper

7. CAPITAL PROJECTS

Several capital projects in the que include the design and construction of the remaining North Pre-Treatment Plant once the financing arrangements with Smithfield have been agreed upon and executed, and, Phase 2 design of the CSO Long Term Control Plan which is due to IEPA next spring.