



woodardcurran.com
COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

October 2017



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	

|

EXECUTIVE SUMMARY

The October 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.

Highlighted activities for the month are listed below:

- Bid opening and award to Leander Construction for the North Pre-Treatment Plant clarifier rehabilitation project, Leander was low responsible bid at \$519,000.
- Design work on the replacement of the force main from Smithfield Lift Station to the pre-treatment plant has concluded. The project has received a construction permit from IEPA and will be advertised for bid in late November early December.
- Advanced Plumbing started the water and sewer installation at the campground for the new and existing campsites.
- Leaf pickup began around the last week of October.
- CSO project slightly ahead of schedule, anticipating startup the first or second week of January, substantial completion March 1st.
- CDBG grant application for replacement of the water main along East 9th and South 5th is on schedule for submittal by mid-December. The project design and permitting is currently under review by IEPA
- ITEP grant application is in progress for submittal by early December. WIRC and Barry Sheff from Woodard Curran are working together to meet the requirements of the grant application.

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 through our PureSafety online interactive program. There were no safety incidents or near misses in October. One recordable lost time accident for the year involving a minor hand injury.

No new staff issues or items

2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 114 million gallons of wastewater in the month of October. There were 2 combined sewer overflow events in October. The weather station at the plant reported 5.7" of rainfall 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)	3.7	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	1	10
Total Phos	0.8	1
Chlorides mg/l	353	500
Suspended Solids mg/l	3	12

3. WATER TREATMENT

The water treatment plants produced 85 million gallons of finished water in October. 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	2.78 MG	86 MG
Poly Phosphate Usage-lbs.	85	2,639 lbs
Salt Usage — tons	5.1	159 tons
Chlorine Usage - lbs.	105	3,249 lbs

4. REVENUE COLLECTION

Table 4-1: FY to date

The table below outlines the revenue collected through the month of October from the Municipal Services billings.

PAYMENT TOTALS 2017-2018 FISCAL YEAR									
MONTH	WATER	SEWER	LANDFILL	RECYCLE	GARBAGE	YARD WASTE	FARM BONDS	FARM SURCHARGE	PENALTY
MAY '17	\$215,671.89	\$181,412.62	\$22,531.07	\$15,217.48	\$36,009.98	\$2,817.50	\$15,886.40	\$0.00	\$2,111.84
JUNE	\$229,035.75	\$185,314.05	\$21,675.38	\$14,587.52	\$34,276.33	\$2,676.41	\$15,886.40	\$0.00	\$2,415.97
JULY	\$226,645.63	\$177,343.57	\$20,382.92	\$13,761.42	\$33,176.67	\$2,586.98	\$15,886.40	\$0.00	\$2,521.86
AUGUST	\$239,768.02	\$184,406.12	\$21,489.03	\$14,114.30	\$33,102.77	\$2,609.82	\$15,886.40	\$0.00	\$2,301.30
SEPTEMBER	\$230,056.22	\$177,006.99	\$20,634.09	\$13,930.35	\$33,406.80	\$2,589.03	\$15,886.40	\$0.00	\$3,730.94
OCTOBER	\$245,396.03	\$191,069.72	\$21,617.65	\$14,594.06	\$35,101.23	\$2,719.71	\$15,886.40	\$963.64	\$3,074.76
NOVEMBER	\$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
JANUARY	\$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
MARCH	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
APRIL '18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
YEAR TO DATE	\$1,386,573.54	\$1,096,553.07	\$128,330.14	\$86,205.13	\$205,073.78	\$15,999.45	\$95,318.40	\$963.64	\$16,156.67

5. ESTIMATED ANNUAL COST

Table 5-1: Estimated Annual Budget – Year 5

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget	over(under)
Labor (D.L. + FB)	\$125,165	\$114,847	\$750,988	\$721,334	\$1,501,976	(\$29,654)
Utilities	\$2,542	\$2,620	\$15,250	\$11,409	\$30,500	(\$3,841)
Chemicals Costs	\$23,044	\$18,323	\$138,267	\$139,884	\$276,533	\$1,618
Maintenance\Repair	\$28,297	\$16,212	\$169,784	\$182,328	\$339,567	\$12,545
Sludge Disposal Costs	\$2,069	\$2,200	\$12,415	\$2,200	\$24,830	(\$10,215)
Lab Supplies\Equip	\$3,431	\$3,335	\$20,588	\$19,457	\$41,175	(\$1,131)
Office Supplies	\$1,525	\$214	\$9,150	\$9,081	\$18,300	(\$69)
Miscellaneous Expenses	\$12,201	\$4,105	\$73,204	\$35,711	\$146,408	(\$37,493)
Other Operating Costs	\$5,912	\$14,293	\$35,474	\$111,920	\$70,947	\$76,447
Overhead (G.A.)	\$28,263	\$25,933	\$169,578	\$162,882	\$339,156	(\$6,696)
Subtotal Year 5	\$232,449	\$202,083	\$1,394,696	\$1,396,206	\$2,789,392	\$1,510
Fixed Fee Year 5	\$16,736	\$14,550	\$100,418	\$100,527	\$200,836	\$109
Total	\$249,186	\$216,632	\$1,495,114	\$1,496,733	\$2,990,229	\$1,619

6. MAINTENANCE/REPAIR ACTIVITIES

A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

Water/Street Facilities

Maintenance staff completed 123 preventatives and 18 corrective work orders for the water plants, distribution system, and fleet in October. 92 requests for service were responded to by service personnel. 149 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 16 water meters
- Repaired water main 200 East 2nd Ave
- Repaired water main 300 North 2nd
- Repaired water main 200 North I
- Repaired water main 400 North 2nd
- Repaired water main 1000 South 4th
- Repaired curb stop 1100 West Harlem
- Repaired curb stop 306 South G
- Repaired curb stop 1123 North Main
- Repaired curb stop 816 East 5th
- Cleaned sewer on West 4th Avenue between South G and South H
- Repaired chlorine line at South Water Plant
- Repaired brine valve South Water Plant

Wastewater Facilities

Maintenance staff performed 101 preventatives and 9 corrective work orders at the Consolidated Plant, and, 45 preventatives work orders and 4 corrective work orders at the Pre-Treatment plant.

- Installed rebuild kit for force main relief valve along airport right of way
- Replaced 2 circuit breakers at North Lift Station
- Advanced Plumbing vacuumed wet wells and valve vaults at all 7 lift stations
- Installed new 2" discharge piping on Parkway Manor lift station pump
- Installed new surge protector at the Phos Removal plant (lightening damage)
- Installed new PLC card for monitoring levels and flow on GEMS unit
- Replaced worn chain links on GEMS unit skimmer
- Replaced temp sensor on HVAC unit in phos removal plant building

Street/Grounds/Right of Way/Fleet

- Various tree removal and trimming
- Scheduled vehicle service work (lube, oil, filters)
- Street sweeping

- Patching of utility excavations
- Replaced water heater at Street Department garage
- Repaired brakes on water service van
- Replaced battery on the meter car
- Replaced transmission pan, oil, filter on T19
- Replaced 2 batteries on T15
- Replaced broken brake spring on T14
- Repaired rear brake cylinder and brake line on T4
- Leaf pickup

7. CAPITAL PROJECTS

CSO project update –

- All structural components for the actual screw pumps have been poured and cured out, ready to accept the pumps.
- New electrical MCC and CT cabinets have been installed
- Generator pad installed, underground wiring to generator installed
- Screw pumps delivered to site November 28

Upcoming tasks:

- Set and grout screw pumps
- Install gear reducers and motors
- Install wiring and controls
- Install manholes and piping to connect to existing splitter box

Leander hopes to have these items completed by year end and startup scheduled for early January

