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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

March 2018



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EXECUTIVE SUMMARY

The March 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:

- Legacy Corporation has completed installation of the Smithfield force main from the wastewater plant south across County 210th Avenue and from the Smithfield Lift Station north to near the old hangar building.
- We had 1 snow removal event in March
- CSO project reached substantial completion on March 27th with only a handful of punch list items remaining. Expect final completion after seeding is done in early April.
- Manhole inspection crew completed 153 manhole inspections utilizing the Utility Cloud program in March and 284 completed inspections to date since January.
- Enterprise Fleet Management delivered 7 new vehicles in March including 2 cars, 1 pickup truck for the Fire Dept, 4 pickup trucks for Public Works.

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 Flammable and Combustible Liquids review and training. There were no safety incidents or near misses in March. One recordable lost time accident for the contract year involving a minor hand injury.

No new staff issues or items.

2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 182 million gallons of wastewater in the month of March and 300,000 gallons from the excess flow plant. There were 0 combined sewer overflow events in March. The weather station at the plant reported 3.6” of rain and 4” of snow 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)	5.86	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	1	10
Total Phos	0.8	1
Chlorides mg/l	265	500
Suspended Solids mg/l	4	12

3. WATER TREATMENT

The water treatment plants produced 94 million gallons of finished water in March. 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	3 MG	94 MG
Poly Phosphate Usage-lbs.	93	2,895 lbs
Salt Usage = tons	6	186 tons
Chlorine Usage - lbs.	122	3,780 lbs



4. REVENUE COLLECTION

Table 4-1: FY to date

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

PAYMENT TOTALS 2017-2018 FISCAL YEAR										
MONTH	WATER	SEWER	LANDFILL	RECYCLE	GARBAGE	YARD WASTE	FARM BONDS	FARM SURCHARGE	OTHER	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	\$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	\$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	\$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	\$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	\$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	\$0.00	\$3,074.76
NOVEMBER	\$255,413.40	\$191,805.94	\$20,807.47	\$14,057.33	\$33,625.95	\$2,599.28	\$15,886.40	\$485.63	\$0.00	\$2,973.09
DECEMBER	\$217,504.34	\$171,027.12	\$19,986.66	\$13,507.70	\$32,372.58	\$2,510.17	\$15,886.40	\$45.80	\$0.00	\$2,483.01
JANUARY	\$240,718.16	\$189,318.08	\$22,711.65	\$15,771.57	\$36,336.31	\$2,793.10	\$34,065.81	\$0.00	\$200.00	\$3,193.44
FEBRUARY	\$211,016.71	\$169,417.17	\$18,119.07	\$12,582.91	\$30,056.45	\$2,324.92	\$34,065.81	\$93.76	\$25.00	\$2,100.49
MARCH	\$227,565.20	\$184,690.50	\$22,206.29	\$15,420.68	\$35,267.38	\$2,743.25	\$34,065.81	\$69.21	\$219.73	\$2,339.10
APRIL '18	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
YEAR TO DATE	\$2,538,791.35	\$2,002,811.88	\$232,161.28	\$157,545.32	\$372,732.45	\$28,970.17	\$229,288.63	\$1,658.04	\$444.73	\$29,245.80

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	\$136,839	\$1,376,812	\$1,332,715	\$1,501,976	(\$44,097)
Utilities	\$2,542	\$7,308	\$27,958	\$36,419	\$30,500	\$8,461
Chemicals Costs	\$23,044	\$21,816	\$253,489	\$267,410	\$276,533	\$13,921
Maintenance\Repair	\$28,297	\$15,401	\$311,270	\$326,310	\$339,567	\$15,040
Sludge Disposal Costs	\$2,069	\$0	\$22,761	\$2,200	\$24,830	(\$20,561)
Lab Supplies\Equip	\$3,431	\$2,997	\$37,744	\$38,057	\$41,175	\$313
Office Supplies	\$1,525	\$3,001	\$16,775	\$18,230	\$18,300	\$1,455
Miscellaneous Expenses	\$12,201	\$6,706	\$134,207	\$62,719	\$146,408	(\$71,488)
Other Operating Costs	\$5,912	\$7,067	\$65,035	\$142,759	\$70,947	\$77,724
Overhead (G.A.)	\$28,263	\$30,899	\$310,893	\$300,936	\$339,156	(\$9,957)
Subtotal Year 5	\$232,449	\$232,034	\$2,556,943	\$2,527,754	\$2,789,392	(\$29,189)
Fixed Fee Year 5	\$16,736	\$16,706	\$184,100	\$181,998	\$200,836	(\$2,102)
Total	\$249,186	\$248,740	\$2,741,043	\$2,709,753	\$2,990,229	(\$31,290)

6. MAINTENANCE/REPAIR ACTIVITIES

A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

Water/Street Facilities

Maintenance staff completed 79 routine/preventative and 10 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in March. 78 requests for service were responded to by service personnel. 195 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 3 water meters
- Replaced coin operator on bulk water station
- Repaired curb stop 306 North 6th
- Repaired curb stop 841 North 2nd
- Repaired curb stop 727 South B
- Cleaned sewer 200 block South C

Wastewater Facilities

Maintenance staff performed 114 routine/preventative and 5 corrective work orders at the Consolidated Plant and North Pretreatment Plant

- Cleaned and jetted West Stormwater Clarifier
- Replaced breaker at Parkway Manor lift station
- Repairing excess flow lagoon lift station pump
- Replaced bearing housing on influent valve controller
- Replaced battery North Lift Station alternator controls
- 24 Manhole inspections were performed

Street/Grounds/Right of Way/Fleet

- Various tree removal and trimming
- Scheduled vehicle service work (lube, oil, filters)
- Snow removal from 1 storm
- Replaced battery T41
- Replaced brakes and tie rod on T1

7. CAPITAL PROJECTS

Force main replacement project:

Legacy Corporation has installed approximately 5,000 feet of pipe through the end of March (75% completed)

CSO Screw Pump:

Substantial completion on March 27th, final completion looks to be sometime in April after final seeding

North Plant Clarifier:

Leander has removed the old sludge collector, skimmer mechanism, and weirs from the concrete tank and is installing piping for the new skimmer system