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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

February 2019



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EXECUTIVE SUMMARY

The February 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.

CDBG water main project bid letting was held March 13th. The city received 6 bids with Laverdiere Construction submitting the low responsible bid at \$567,593.00.

BNSF completed repairs to their tracks at the South 6th Street crossing and the street was opened to through traffic.

Well 4 has been pulled, we found 11 sections of the column pipe that had deteriorated threads and several holes in them. The replacement column pipe has been ordered and hopefully arrive the first week of April.

Crews installed 2 valves on the water main that lies underneath one of the buildings at the Ross Litton property on West 10th Avenue. The main had been leaking underneath the wall and once the valves were installed, that section was shut down to stop the leak.

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 review of driver fatigue training. There were no safety incidents or near misses in February.

2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 178 million gallons of wastewater in the month of February. There were 2 combined sewer overflow events in February. The weather station at the plant reported 2.6” of rain and 8” 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)	6.37	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	2	10
Total Phos	0.9	1
Chlorides mg/l	347	500
Suspended Solids mg/l	12	12

3. WATER TREATMENT

The water treatment plants produced 86 million gallons of finished water in February. 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	3.09 MG	86 MG
Poly Phosphate Usage-lbs.	98 lbs.	2,755 lbs.
Salt Usage — tons	5.9	166 tons
Chlorine Usage - lbs.	122	3,415 lbs.

4. REVENUE COLLECTION

Table 4-1: FY to date

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

PAYMENT TOTALS 2018-2019 FISCAL YEAR										
MONTH	WATER	SEWER	LANDFILL	RECYCLE	GARBAGE	YARD WASTE	FARM BONDS	FARM SURCHARGE	OTHER	PENALTY
MAY '18	\$223,175.52	\$182,177.89	\$21,254.42	\$14,775.79	\$34,593.81	\$2,802.00	\$34,065.81	\$329.60	\$154.22	\$2,969.59
JUNE	\$243,900.96	\$191,773.28	\$20,996.37	\$14,578.83	\$35,059.08	\$2,801.42	\$34,065.81	\$425.02	\$50.00	\$2,782.76
JULY	\$252,903.95	\$191,101.15	\$21,601.59	\$15,033.34	\$35,932.18	\$2,808.27	\$34,065.81	\$274.83	\$50.00	\$3,021.89
AUGUST	\$254,552.50	\$202,407.33	\$22,132.81	\$15,357.54	\$36,523.99	\$2,900.33	\$49,952.21	\$79.52	\$0.00	\$2,668.54
SEPTEMBER	\$230,824.54	\$171,906.02	\$18,460.93	\$12,837.41	\$30,827.09	\$2,434.80	\$34,065.81	\$0.00	\$50.00	\$2,519.13
OCTOBER	\$250,867.01	\$199,042.50	\$22,360.06	\$15,547.83	\$36,760.41	\$2,940.34	\$34,065.81	\$0.00	\$0.00	\$2,767.07
NOVEMBER	\$249,445.61	\$195,181.61	\$20,512.02	\$14,263.06	\$34,668.49	\$2,694.17	\$18,179.41	\$390.41	\$0.00	\$2,277.87
DECEMBER	\$219,148.66	\$169,847.93	\$20,346.69	\$14,195.64	\$33,428.02	\$2,636.47	\$34,065.81	\$1,886.16	\$0.00	\$2,697.79
JANUARY	\$241,187.80	\$189,383.81	\$21,077.78	\$15,099.82	\$34,674.66	\$2,729.07	\$49,952.21	\$565.64	\$175.00	\$2,890.77
FEBRUARY	\$226,216.85	\$177,706.86	\$20,606.17	\$14,809.42	\$34,531.81	\$2,718.90	\$18,179.41	\$4,675.81	\$0.00	\$2,626.07
MARCH	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
APRIL '19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
YEAR TO DATE	\$2,392,223.40	\$1,870,528.38	\$209,348.84	\$146,498.68	\$346,999.54	\$27,465.77	\$340,658.10	\$8,626.99	\$479.22	\$27,221.48

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	\$112,511	\$1,264,424	\$1,206,559	\$1,517,309	(\$57,865)
Utilities	\$3,175	\$7,917	\$31,750	\$34,831	\$38,100	\$3,081
Chemicals Costs	\$25,250	\$25,900	\$252,500	\$262,916	\$303,000	\$10,416
Maintenance\Repair	\$27,642	\$26,649	\$276,417	\$307,229	\$331,700	\$30,812
Sludge Disposal Costs	\$500	\$0	\$5,000	\$1,671	\$6,000	(\$3,329)
Lab Supplies\Equip	\$3,479	\$3,422	\$34,792	\$37,909	\$41,750	\$3,117
Office Supplies	\$1,504	\$45	\$15,042	\$15,626	\$18,050	\$584
Miscellaneous Expenses	\$4,058	\$4,839	\$40,583	\$41,497	\$48,700	\$914
Other Operating Costs	\$12,529	\$7,257	\$125,292	\$140,915	\$150,350	\$15,623
Overhead (G.A.)	\$28,552	\$25,406	\$285,515	\$272,449	\$342,618	(\$13,066)
Subtotal Year 5	\$233,131	\$213,946	\$2,331,314	\$2,321,602	\$2,797,577	(\$9,713)
Fixed Fee Year 5	\$16,785	\$15,404	\$167,855	\$167,155	\$201,426	(\$699)
Total	\$249,917	\$229,350	\$2,499,169	\$2,488,757	\$2,999,003	(\$10,412)

6. MAINTENANCE/REPAIR ACTIVITIES

A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

Water/Street Facilities

Maintenance staff completed 73 routine/preventative and 25 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in February. 72 requests for service were responded to by service personnel. 38 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 10 water meters
- Repaired water main 600 South B
- Repaired water main 900 East Euclid
- Repaired water main 600 East Clinton
- Advanced Plumbing cleaned sewer 400 block West 2nd
- Repaired sewer lateral 100 block East Archer

Wastewater Facilities

Maintenance staff performed 125 preventative and 7 repair work orders at the Consolidated Plant and North Pretreatment Plant.

- Repaired HVAC furnace on building and building 800
- Install fan motor on shop furnace
- Replaced shear pin on clarifier #2
- Installed new motor on clarifier drive at pre-treatment plant
- Replaced batteries on emergency generator at pre-treatment plant
- Replaced air solenoid and skimmer attachment link on phos removal plant

Street/Grounds/Right of Way/Fleet

- Various tree removal and trimming, utility patching
- Scheduled vehicle service work (lube, oil, filters)
- Replaced hydraulic hose on Backhoe
- Replaced hydraulic hose on Komatsu loader
- Repaired fuel line T14
- Replaced brake sensors T4
- Replaced rocker switch, wiring, and wiper motor T16
- Replaced wiring harness and control lever T19
- Replaced dip stick tube T11
- Replaced front tires and aligned front end T42

7. CAPITAL PROJECTS

North WWTP design at 60%, undergoing review and comment from operations

CSO Phase 2 design schedule – project is at 60% design, final design for IEPA review by early April.

CDBG water main project bid letting March 13th, 6 bidders, Laverdiere Construction was low bid at \$567,593.00

MFT Street maintenance, (overlay program), for FY 2019-20 is in development. Representatives from IMEG were in town on Friday to go over the preliminary list and develop a cost estimate.