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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

December 2019



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EXECUTIVE SUMMARY

The December 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 has mobilized and beginning construction on the CSO Phase 2 project. We continue to have discussions with Smithfield on a new service agreement that includes financing for the North Pre-Treatment Plant improvements. The project was approved by IEPA via receipt of the construction permit from them.

Upon approval by the City Council, IMEG, (formerly Missman Stanley), will begin performing a Phase 1 Environmental Study on West Harlem Avenue for the road reconstruction project. This is a requirement when using Federal-aid Urban, (FAU), funds for road construction projects. The West Harlem Avenue project is on the IDOT Local Multi-Year Highway Improvement Plan for state fiscal year 2022.

Brian Glasgow accepted an opportunity to become a professional musician in Nashville Tennessee and announced his resignation from the City after 18 years of service reading water meters. We wish Brian the best of luck in his new career.

The City received a construction permit to extend a new water main to the site of the new Love's Travel Stop. Joe Clark and I continue to have monthly progress calls with Love's, the City did receive a full set of site plans and building plans to review for the new Travel Stop. Construction is expected to start in the spring.

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 all the annual trainings and tasks for the safety program. There were no safety incidents or near misses in December. Brian Glasgow announced his resignation to pursue an opportunity career as a professional musician.

2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 129 million gallons of treated wastewater in the month of December. There were 1 combined sewer overflow event in December. The weather station at the plant reported 1.5” of rain and 3.4” 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)	4.17	4.62
Ammonia N mg/l	0.5	1.5
CBOD5 mg/l	3	10
Total Phos	0.9	1
Chlorides mg/l	330	500
Suspended Solids mg/l	8	12

3. WATER TREATMENT

The water treatment plants produced 92 million gallons of finished water in December. 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	2.95 MG	92 MG
Poly Phosphate Usage-lbs.	100 lbs.	3,108 lbs.
Salt Usage — tons	4.8	149 tons
Chlorine Usage - lbs.	122	3,773 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	\$132,838	\$1,036,194	\$1,000,000	\$1,554,290	(\$36,194)
Utilities	\$3,217	\$3,551	\$25,739	\$21,352	\$38,608	(\$4,387)
Chemicals Costs	\$25,587	\$35,496	\$204,693	\$208,442	\$307,040	\$3,749
Maintenance\Repair	\$29,573	\$32,348	\$236,580	\$299,449	\$354,870	\$62,869
Sludge Disposal Costs	\$833	\$0	\$6,667	\$0	\$10,000	(\$6,667)
Lab Supplies\Equip	\$3,526	\$6,777	\$28,204	\$40,019	\$42,306	\$11,815
Office Supplies	\$1,524	\$170	\$12,194	\$11,605	\$18,291	(\$589)
Miscellaneous Expenses	\$4,113	\$3,322	\$32,901	\$33,997	\$49,351	\$1,096
Other Operating Costs	\$12,687	\$10,910	\$101,492	\$129,130	\$152,238	\$27,638
Overhead (G.A.)	\$29,247	\$29,996	\$233,979	\$225,806	\$350,969	(\$8,173)
Subtotal Year 7	\$239,830	\$255,408	\$1,918,642	\$1,969,800	\$2,877,963	\$51,158
Fixed Fee Year 7	\$17,268	\$18,389	\$138,142	\$141,826	\$207,213	\$3,683
Total	\$257,098	\$273,797	\$2,056,784	\$2,111,625	\$3,085,177	\$54,841

6. MAINTENANCE/REPAIR ACTIVITIES

A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

Water/Street Facilities

Maintenance staff completed 73 routine/preventative and 21 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in December. 60 requests for service were responded to by service personnel. 56 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
- Repaired water main 1000 North Main
- Repaired water main 1300 North 11th
- Repaired water main 600 South 6th
- Repaired water main 1100 East 11th
- Repaired water main 1000 South 4th
- Repaired water main 100 North A
- Repaired water main 1100 North 6th
- Repaired water main 800 North 2nd
- Replaced curb stop 729 North G
- Replaced curb stop 412 East Girard
- Replaced curb stop 1124 South Main
- Replaced curb stop 716 North 6th
- Repaired 6' trash pump
- Televised storm sewer 1100 block East 1st
- Replaced softener valve on #2, #3, and #4 Softeners at South Plant
- Advanced Plumbing cleaned sewer on South 9th at Lincoln Homes

Wastewater Facilities

Maintenance staff performed 130 preventative work orders and 5 corrective work orders at the Consolidated Plant and North Pretreatment Plant.

- Installed new VFD on Gas Blower #2
- Replaced air line on GEMS phos removal plant
- Replaced air relief valve at raw wastewater pump station
- Installed new electric heat in Chemical Feed building at Consolidated Plant
- Repaired raw wastewater force main leak

Street/Grounds/Right of Way/Fleet

- Various tree removal and trimming, pothole patching and utility repair patching
- Scheduled vehicle service work (lube, oil, filters)
- Leaf pickup

- Replaced battery on T42
- Replaced rear tires on T1
- Replaced brakes on T11

7. Capital Projects

1. CSO Phase 2 construction commenced.
2. City notified of a successful award from CDBG for \$500,000 grant to replace the water main on East Euclid Avenue from North 1st Street to North 6th Street.
3. Information and data gathering to prepare preliminary engineering report, (PER), for USDA loan application on the downtown sewer replacement project.
4. Engage IMEG to begin performing a Phase 1 Environmental Study on West Harlem Avenue. This is a requirement when using Federal-aid Urban, (FAU), funds for road construction projects.
5. West 11th Avenue water main extension construction permit received from IEPA.