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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

April 2021



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EXECUTIVE SUMMARY

The April 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.

Representatives of Lakeshore Recycling and myself met with Jones Surveying at the transfer station site to set the property boundaries. Jones should complete the survey within the next few weeks. Lakeshore Recycling equipment appraisers were on site to list out what equipment will be involved in the purchase agreement as it moves forward; the two 37-yard containers, the compactor, 2 buildings, and the 300-gallon fuel tank will be included along with the land in the purchase agreement. Lakeshore Recycling will be conducting a Phase 1 environmental next week as part of the purchase process.

Laverdiere crew installed 2 valves on the water main on West Broadway between C street and D street, my crew will replace the leaking section of pipe. The cemetery mowing crew were able to get everything mowed and trimmed at the cemetery, ready for Memorial Day despite the 6" of rain we've received in the past 10 days.

Woodard Curran's American Water Infrastructure Act compliance team have been working on the report for the Risk and Resiliency Assessment that is due to IEPA by June 30th. Our current SCADA system is not up to the latest specifications for cyber security. Recommendations from the Risk and Resiliency Assessment will be forthcoming once the report is completed.

WIRC is re-submitted our CDBG application for a \$500,000 grant to assist with the cost of replacing the water main on West Harlem.

The Federal Government has re-instituted the earmark program, formerly known as the STAG grant program, whereby we can apply directly to our Congressional Senator and Representative for an earmark grant. Working with the Woodard Curran Funding Team the City has applied to Senator Durbin for a \$600,000 earmark grant to assist in the cost of the West Harlem water main replacement.

I will be re-submitting the West Harlem Road Reconstruction project to FY 2021 REBUILD AMERICAN INFRASTRUCTURE WITH SUSTAINABILITY AND EQUITY (RAISE) PROGRAM again this year. Last year we submitted the same project to the Federal BUILD program but were unsuccessful in our application. IMEG is preparing the documents to re-submit this project to President Biden's RAISE program, deadline for the submittal is July 31st. This grant application is for \$1.2 million dollars to help fund the reconstruction of West Harlem Avenue Road from North Main Street to the Highway 34/67 bypass including new concrete pavement, curb, gutter, and sidewalks, and traffic control at the Community Pool and Water Park.

Please contact me at 309-734-4026 with any questions.

Regards, Andy

1. HEALTH AND SAFETY/STAFF

There were no safety incidents or near misses in April . With the COVID 19 pandemic affected everyone, our staff is updated regularly on any new policy change, preventative measures, and PPE. All staff members are practicing social distancing while at work to help prevent the spread of the virus.

2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 183 million gallons of treated wastewater in the month of April . There was 1 combined sewer overflow event in April . The weather station at the plant reported 4.7” 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)	6.1	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	3	10
Total Phos	0.9	1
Chlorides mg/l	306	500
Suspended Solids mg/l	11	12

3. WATER TREATMENT

The water treatment plants produced 87 million gallons of finished water in April . 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	2.9 MG	87 MG
Poly Phosphate Usage-lbs.	104 lbs.	3,131 lbs.
Salt Usage = tons	4.8	135 tons
Chlorine Usage - lbs.	114	3,685 lbs.

5. TOTAL ANNUAL COST

Table 5-1: Annual Budget – Year 8

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget	over(under)
Labor (D.L. + FB)	\$125,079	\$155,135	\$1,455,092	\$1,469,653	\$1,455,092	\$18,536
Utilities	\$1,955	\$2,678	\$39,058	\$36,051	\$39,058	(\$2,900)
Chemicals Costs	\$28,682	\$40,182	\$310,622	\$314,577	\$310,622	\$4,804
Maintenance\Repair	\$39,766	\$62,955	\$365,219	\$312,215	\$365,219	(\$52,006)
Sludge Disposal Costs	\$0	\$0	\$0	\$813	\$0	\$813
Lab Supplies\Equip	\$1,421	\$1,840	\$42,307	\$39,326	\$42,307	(\$2,865)
Office Supplies	\$2,354	\$2,374	\$18,344	\$20,692	\$18,344	\$2,398
Miscellaneous Expenses	\$6,960	\$7,215	\$48,648	\$47,244	\$48,648	(\$1,271)
Other Operating Costs	\$7,409	\$7,649	\$114,604	\$147,874	\$114,604	\$33,583
Overhead (G.A.)	\$28,244	\$35,031	\$328,569	\$331,857	\$328,569	\$4,186
Subtotal Year 8	\$241,869	\$315,058	\$2,722,463	\$2,720,302	\$2,722,463	(\$2,161)
Fixed Fee Year 8	\$17,415	\$22,685	\$196,017	\$195,862	\$196,017	(\$335)
Total	\$259,284	\$337,743	\$2,918,480	\$2,916,163	\$2,918,480	(\$2,317)

6. MAINTENANCE ACTIVITIES

Utilizing the Utility Cloud maintenance management program, staff completed 250 preventative and 21 corrective workorders in April . Below is a summary of the months' corrective activities:

272392896	CUST-3582	MON-CUST				Corrective	5/8 meter	Normal	Closed	Corrective
272392983	CUST-1706	MON-CUST				Corrective	5/8 radio read	Normal	Closed	Corrective
272393085	CUST-8100	MON-CUST				Corrective	5/8 radio read	Normal	Closed	Corrective
272393200	CUST-9046	MON-CUST				Corrective	3" compound meter	Normal	Closed	Corrective
272393279	CUST-2757	MON-CURB				Corrective	5/8 radio read	Normal	Closed	Corrective
272393386	CUST-1541	MON-CURB				Corrective	3/4 radio read	Normal	Closed	Corrective
272393485	CUST-1585	MON-CURB				Corrective	1" radio read	Normal	Closed	Corrective
272435612	NW 4-in lin	MON-WTR				Corrective	Abandon service line repair 800 north A st	Normal	Closed	Corrective
272470144	Wastewater	WWTP-4				Corrective	Repair leaking pressure tank	Normal	Closed	Corrective
272470234	GEM	340-GEM B	dschaeffer			Corrective	Replace worn skimmer chain gear	Normal	Closed	Corrective
272470283	SCREW PUN	6007				Corrective	VFD air filters replaced	Normal	Closed	Corrective
272470323	SCREW PUN	6008	dschaeffer			Corrective	VFD air filters replaced	Normal	Closed	Corrective
272595745	CUST-2569	MON-CURB				Corrective	317 west archer curd stop repair	Normal	Closed	Corrective
272612951	CUST-4035	MON-CURB				Corrective	1249 hillcrest circle curd stop repair	Normal	Closed	Corrective
272629478	MH-554	MON_MH-5				Corrective	Installed new 15in plastic sewer into manho	Normal	Closed	Corrective
272637541	Lift Station	WWTP-5	dschaeffer			Corrective	Install new #2 pump	Normal	Closed	Corrective
272637590	Industrial	INPK-LS00	dschaeffer			Corrective	Replace bad float	Normal	Closed	Corrective
272637594	Wastewater	WWTP-4	dschaeffer			Corrective	Water softener repair	Normal	Closed	Corrective
272669924	MH-176	MON_MH-5				Corrective	Replacing existing manhole	Normal	Closed	Corrective
272670104	Combined	MON_COM				Corrective	Replacing existing combined sewer from ma	Normal	Closed	Corrective
272678126	MH-552	MON_MH-5				Corrective	Replace manhole combined sewer	Normal	Closed	Corrective