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COMMITMENT & INTEGRITY DRIVE RESULTS

# Monthly Operating REPORT

Monmouth, Illinois

Department of  
Public Works

June 2020



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## EXECUTIVE SUMMARY

The June 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.

The City received the renewed National Pollutant Discharge Elimination Program (NPDES) permit from the Illinois Environmental Protection Agency that governs the City's wastewater treatment plant effluent discharge. A number of new requirements are included in the permit including seasonal disinfection, nutrient removal optimization & reduction plans, capacity management operations and maintenance program for the sewer collection system, along with the existing parameters and discharge limits.

The CSO Phase 2 project lift station and pumps are installed and completed, the electrical control panel and electrical service to the site are completed. Upgraded disinfection equipment including a larger gas chlorinator, new gas chlorine feed system, and required safety equipment is currently being installed. Commissioning and start up should take place by mid-August.

The East Euclid CDBG water main project started on July 13<sup>th</sup>. To date the water main is installed, connected at North 1<sup>st</sup> Street and North 6<sup>th</sup> Street, and disinfection is completed. Laverdiere can now begin service connections and cross main tie ins. The road paving project to follow will be let for bid in early August.

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 June. 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 134 million gallons of treated wastewater in the month of June. There were 5 combined sewer overflow events in June. The weather station at the plant reported 4.6” 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)	4.48	4.62
Ammonia N mg/l	0.2	1.5
CBOD5 mg/l	1	10
Total Phos	0.8	1
Chlorides mg/l	299	500
Suspended Solids mg/l	6	12

## 3. WATER TREATMENT

The water treatment plants produced 93 million gallons of finished water in June. 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	3.08 MG	93 MG
Poly Phosphate Usage-lbs.	97 lbs.	2,914 lbs.
Salt Usage — tons	4.8	143 tons
Chlorine Usage - lbs.	123	3,675 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)	\$139,913	\$145,680	\$226,613	\$239,613	\$1,455,092	\$13,000
Utilities	\$3,756	\$2,774	\$6,083	\$4,424	\$39,058	(\$1,659)
Chemicals Costs	\$29,868	\$19,877	\$48,376	\$49,890	\$310,622	\$1,514
Maintenance\Repair	\$35,117	\$25,846	\$56,878	\$37,125	\$365,219	(\$19,753)
Sludge Disposal Costs	\$0	\$0	\$0	\$0	\$0	\$0
Lab Supplies\Equip	\$4,068	\$3,351	\$6,589	\$4,991	\$42,307	(\$1,598)
Office Supplies	\$1,764	\$3,340	\$2,857	\$4,689	\$18,344	\$1,832
Miscellaneous Expenses	\$4,678	\$3,683	\$7,576	\$6,231	\$48,648	(\$1,345)
Other Operating Costs	\$11,020	\$20,054	\$17,848	\$33,413	\$114,604	\$15,565
Overhead (G.A.)	\$31,593	\$32,895	\$51,171	\$54,106	\$328,569	\$2,936
Subtotal Year 7	<b>\$261,775</b>	<b>\$257,500</b>	<b>\$423,990</b>	<b>\$434,482</b>	<b>\$2,722,463</b>	\$10,492
Fixed Fee Year 7	\$18,848	\$18,540	\$30,527	\$31,283	\$196,017	\$755
<b>Total</b>	<b>\$280,623</b>	<b>\$276,040</b>	<b>\$454,517</b>	<b>\$465,765</b>	<b>\$2,918,480</b>	<b>\$11,247</b>

## 6. MAINTENANCE ACTIVITIES

Utilizing the Utility Cloud maintenance management program, below is a summary of the months' activities:

- 276 preventative and corrective maintenance workorders were completed by water, wastewater, and street department personnel

Corrective workorders are listed below

WorkOrderID	AssetDescription	AssetID	WorkFlow Title	WorkOrderDescription	WorkOrder	WorkOrder	WorkOrderType	DateCreated
270574304	CUST-19480000	MON-CUST-19480000-1714	Corrective WO	5/8 radio read pit meter.	High	Closed	Corrective Maintenance	6/2/2020 1:55:37 PM
270575632	North Wastewater Treatment Plant	WWTP-2	Corrective WO	RAS pump controls repaired	Normal	Closed	Corrective Maintenance	6/3/2020 1:01:51 PM
270575637	GEM Polymer Feed System	340-P-0501	Corrective WO	Install new brushes, polymer feed motor	Normal	Closed	Corrective Maintenance	6/3/2020 1:05:16 PM
270576728	Well 9	WL-Well 9	Corrective WO	Replace motor and cable - well failed March 30	High	Closed	Administrative	6/4/2020 8:34:56 AM
270576740	Well 8	WL-Well 8	Corrective WO	leaking column pipe - Brockte Well & Pump replaced top section of column pipe	High	Closed	Administrative	6/4/2020 8:43:30 AM
270576791	North Wastewater Treatment Plant	WWTP-2	Corrective WO	Install new drive on 200hp blower	Normal	Closed	Corrective Maintenance	6/4/2020 9:15:26 AM
270582523	Customer Location	MON_CS4070	Corrective WO	1037 east 5th curb stop repair	Normal	Closed	Administrative	6/8/2020 11:15:41 AM
270586224	NW 4-in lines	MON-WTR-PIPE-2601	Corrective WO	829 north E street water main repair	Normal	Complete	Administrative	6/11/2020 10:38:07 AM
270586476	2nd Ave Lift Station	2AVAL-50	Corrective WO	Install repaired pump number 2. Electric pump, no charge.	Normal	Closed	Corrective Maintenance	6/11/2020 2:09:48 PM
270591049	NW 4-in lines	MON-WTR-PIPE-2601	Corrective WO	829 north E street water main repair	Normal	Complete	Administrative	6/15/2020 9:43:18 AM
270591063	Street Sweeper	VEH-8	Corrective WO	Blowed hydraulic line	Normal	Complete	Administrative	6/15/2020 9:52:08 AM
270740457	SCUM PUMP #2	230-P-0752	Corrective WO	Replace bad float	Normal	Closed	Corrective Maintenance	6/26/2020 10:56:41 AM
270743492	CB-145	MON_CB-145	Corrective WO	Loose bricks	Normal	Complete	Administrative	6/29/2020 7:29:54 AM
270743609	CB-144	MON_CB-144	Corrective WO	Loose missing bricks	Normal	Complete	Administrative	6/29/2020 7:37:23 AM
270743690	CB-444	MON_CB-444	Corrective WO	Loose and missing bricks	Normal	Complete	Administrative	6/29/2020 7:47:12 AM

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## 7. Capital Projects

North Pre-Treatment Plant upgrade:

- a. Clarifier concrete work has been completed.
- b. Fiber work by City is done.
- c. Trailer on site with electrical, internet, and phone.
- d. Roofer has material ordered for Smithfield LS. That should be in the next two weeks.
- e. Lift Station work is planned to start at the end of August contingent on precast structures and MCC/electronic components.
- f. EPA Bureau of Air permit to replace the cover has been approved and received by the City
- g. Baffle wall removal and cover replacement will hopefully start in September – contractor estimates about 6 weeks to complete that task.

CSO Phase 2 construction :

The CSO Phase 2 project lift station and pumps are installed and completed, the electrical control panel and electrical service to the site are completed. Upgraded disinfection equipment including a larger gas chlorinator, new gas chlorine feed system, and required safety equipment is currently being installed. Commissioning and start up should take place by mid-August.

East Euclid water main replacement :

The East Euclid CDBG water main project started on July 13<sup>th</sup>. To date the water main is installed, connected at North 1<sup>st</sup> Street and North 6<sup>th</sup> Street, and disinfection is completed. Laverdiere can now begin service connections and cross main tie ins. The road paving project to follow will be let for bid in early August.