

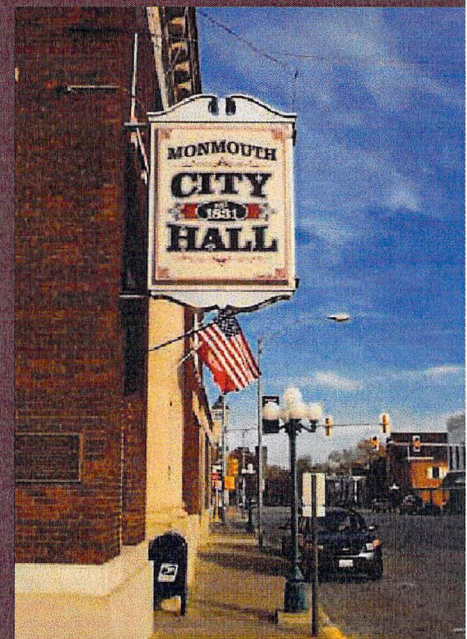
[woodardcurran.com](http://woodardcurran.com)  
COMMITMENT & INTEGRITY DRIVE RESULTS

# Monthly Operating REPORT

Monmouth, Illinois

Department of  
Public Works

November 2018



## TABLE OF CONTENTS

**SECTION**

---

**Executive Summary**.....

**1. HEALTH AND SAFETY/STAFF**.....

**2. WASTEWATER TREATMENT** .....

**4. REVENUE COLLECTION** .....

**5. ESTIMATED ANNUAL COST**.....

**6. MAINTENANCE/REPAIR ACTIVITIES**.....

**7. CAPITAL PROJECTS**.....

## LIST OF TABLES

**TABLE**

---

**Table 1-1:** Water Quality vs. NPDES Permit Limits .....

**Table 2-1:** Monthly Chemical Usage for Ion Exchange Softening .....

**Table 3-1:** Revenue Collection .....

**Table 4-1:** Estimated Annual Budget – Year 5 .....





---

## EXECUTIVE SUMMARY

The November 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.

November's main activities centered around the installing of new valves on the 12" water main on North 5<sup>th</sup> Street and the blizzard on November 25-26<sup>th</sup>.

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 hand, wrist and finger safety training. There were no safety incidents or near misses in November.

## 2. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 118 million gallons of wastewater in the month of November. There were no combined sewer overflow events in November. The weather station at the plant reported 2.2” of rain and 10.1” 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)	3.93	4.62
Ammonia N mg/l	0.2	1.5
CBOD5 mg/l	2	10
Total Phos	0.9	1
Chlorides mg/l	338	500
Suspended Solids mg/l	7	12

## 3. WATER TREATMENT

The water treatment plants produced 86 million gallons of finished water in November. 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	2.85 MG	86 MG
Poly Phosphate Usage-lbs.	85 lbs	2,536 lbs
Salt Usage -- tons	5.3	158 tons
Chlorine Usage - lbs.	115	3,441 lbs





## 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	\$109,849	\$885,097	\$835,898	\$1,517,309	(\$49,199)
Utilities	\$3,175	\$2,100	\$22,225	\$18,363	\$38,100	(\$3,862)
Chemicals Costs	\$25,250	\$25,448	\$176,750	\$180,897	\$303,000	\$4,147
Maintenance\Repair	\$27,642	\$19,420	\$193,492	\$204,460	\$331,700	\$10,968
Sludge Disposal Costs	\$500	\$0	\$3,500	\$1,671	\$6,000	(\$1,829)
Lab Supplies\Equip	\$3,479	\$3,466	\$24,354	\$26,456	\$41,750	\$2,102
Office Supplies	\$1,504	\$1,125	\$10,529	\$11,243	\$18,050	\$714
Miscellaneous Expenses	\$4,058	\$3,456	\$28,408	\$28,487	\$48,700	\$79
Other Operating Costs	\$12,529	\$7,393	\$87,704	\$119,743	\$150,350	\$32,039
Overhead (G.A.)	\$28,552	\$24,805	\$199,861	\$188,751	\$342,618	(\$11,109)
Subtotal Year 5	<b>\$233,131</b>	<b>\$197,061</b>	<b>\$1,631,920</b>	<b>\$1,615,969</b>	<b>\$2,797,577</b>	<b>(\$15,951)</b>
Fixed Fee Year 5	\$16,785	\$14,188	\$117,498	\$116,350	\$201,426	(\$1,148)
<b>Total</b>	<b>\$249,917</b>	<b>\$211,249</b>	<b>\$1,749,418</b>	<b>\$1,732,319</b>	<b>\$2,999,003</b>	<b>(\$17,099)</b>

## 6. MAINTENANCE/REPAIR ACTIVITIES

### A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

#### Water/Street Facilities

Maintenance staff completed 69 routine/preventative and 21 corrective work orders for the water plants, distribution system, sewer collection system, and fleet in November. 89 requests for service were responded to by service personnel. 85 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 100 West 2nd
- Repaired water main 700 block of South B
- Laverdiere Construction installed 2 – 12” water main valves, 1 – 8” water main valve, and 1-6” water main valve on North 5<sup>th</sup> Street and East Euclid Avenue
- Replaced 6’ of 8” sewer on North 5<sup>th</sup> and Detroit

#### Wastewater Facilities

Maintenance staff performed 101 routine/preventative and 13 corrective work orders at the Consolidated Plant and North Pretreatment Plant.

- Install new control switches at the North 6<sup>th</sup> Street lift station
- Repaired water softener at the Consolidated WWTP
- Install new LP gas line for the HVAC unit at the chemical feed building
- Replaced scrapers on the bar screen
- Install snow plow bracket and wiring harness on the 4WD pickup truck
- Replaced air line on the phos plant air compressor
- Replaced breakers on the flare controls
- Cleaned RAS sludge piping
- Replaced gas blower
- Installed new VFD for gas blower
- Replaced chain links on skimmer at phos plant
- Install new purge blower on HVAC system at phos plant

#### Street/Grounds/Right of Way/Fleet

- Various tree removal and trimming, utility patching, street sweeping
- Scheduled vehicle service work (lube, oil, filters)
- Snow removal from blizzard of 11-25/26
- Replaced hydraulic hose and fittings on leaf truck
- Installed new water pump on T18
- Replaced hydraulic line on the Komatsu Endloader
- Serviced wind row turner

- Replaced power steering hose, wiring, and 1 tire on T14
- Repaired plow wiring and switch on T19
- Repaired plow on T18



## 7. CAPITAL PROJECTS

Several capital projects in the que include the design and construction of the remaining North Pre-Treatment Plant once the financing arrangements with Smithfield have been agreed upon and executed, and, Phase 2 design of the CSO Long Term Control Plan which is due to IEPA next spring.