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COMMITMENT & INTEGRITY DRIVE RESULTS

Monthly Operating REPORT

Monmouth, Illinois

Department of
Public Works

May 2016



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EXECUTIVE SUMMARY

The May Public Works monthly report provides an overview of the month's activities and statistical data including: 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.

If you have any questions please stop by the office or give a call, 309-734-4026.

Regards, Andy

1. WASTEWATER TREATMENT

The Consolidated WWTP treated and discharged 165 million gallons of wastewater in the month of May. There were 5 combined sewer overflow events in May. The weather station at the plant reported 3.8” of rainfall during the month. The Consolidated Plant continues to produce excellent effluent quality. The table below outlines the water quality vs. NPDES permit limits.

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

	Monthly Average	Permit Limit
Flow (MGD)	5.33	4.62
Ammonia N mg/l	0.1	1.5
CBOD5 mg/l	1	10
Chlorides mg/l	244	500
Suspended Solids mg/l	6	12
Total Phosphorus	0.8	1.0

2. WATER TREATMENT

The water treatment plants produced 80 million gallons of finished water in May. 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 2-1: Monthly Chemical Usage for Ion Exchange Softening

	Daily Average	Monthly Total
Treated Water to System	2.59 MG	80 MG
Poly Phosphate Usage - lbs.	81	2,521 lbs.
Salt Usage — lbs.	10,086	312,680 lbs.
Chlorine Usage - lbs.	99	3,072

3. BILLING AND COLLECTION

Table 3-1: Billing/Collection

The table below outlines the revenue collected for the month of May from the Municipal Services billings.

DATE	PAYMENTS	PAYMENTS MAY 2016						FARM BONDS	FARM SURCHARGE	OTHER / OLD DEBT	PENALTY
		WATER	SEWER	LANDFILL	RECYCLE	GARBAGE	YARD WASTE				
05/02/16	\$27,192.85	\$12,055.83	\$7,991.88	\$2,171.29	\$1,431.06	\$3,334.72	\$208.05	\$0.00	\$0.00	\$0.00	\$0.02
05/03/16	\$14,151.48	\$5,857.06	\$4,093.27	\$1,156.83	\$761.69	\$2,148.73	\$133.90	\$0.00	\$0.00	\$0.00	\$0.00
05/04/16	\$17,090.75	\$7,436.89	\$5,037.00	\$1,381.29	\$903.32	\$2,193.82	\$137.03	\$0.00	\$0.00	\$0.00	\$1.40
05/05/16	\$44,897.89	\$20,324.51	\$14,200.35	\$3,043.69	\$2,008.34	\$5,001.88	\$313.20	\$0.00	\$0.00	\$0.00	\$5.92
05/06/16	\$23,642.59	\$10,760.48	\$8,484.46	\$1,431.93	\$928.19	\$1,914.50	\$119.05	\$0.00	\$0.00	\$0.00	\$3.98
05/09/16	\$41,553.14	\$20,098.32	\$12,468.76	\$2,673.16	\$1,740.84	\$4,301.87	\$267.60	\$0.00	\$0.00	\$0.00	\$2.59
05/10/16	\$95,413.62	\$37,531.48	\$30,567.64	\$3,561.65	\$2,316.98	\$5,220.71	\$328.10	\$15,886.40	\$0.00	\$0.00	\$0.66
05/11/16	\$3,875.90	\$1,456.12	\$1,085.05	\$349.46	\$226.54	\$594.77	\$37.31	\$0.00	\$0.00	\$0.00	\$126.65
05/12/16	\$6,239.06	\$2,670.44	\$1,963.42	\$410.74	\$266.27	\$650.43	\$40.80	\$0.00	\$0.00	\$0.00	\$236.96
05/13/16	\$8,852.89	\$3,593.75	\$2,571.62	\$707.48	\$462.39	\$1,142.06	\$70.70	\$0.00	\$0.00	\$0.00	\$304.89
05/16/16	\$15,118.65	\$6,402.31	\$4,602.82	\$1,052.29	\$682.21	\$1,750.37	\$109.05	\$0.00	\$0.00	\$0.00	\$519.60
05/17/16	\$125,487.16	\$59,341.23	\$60,816.40	\$360.62	\$233.75	\$562.97	\$35.75	\$0.00	\$3,944.71	\$0.00	\$191.73
05/18/16	\$3,196.86	\$1,288.18	\$927.44	\$254.01	\$164.66	\$429.85	\$26.65	\$0.00	\$0.00	\$0.00	\$106.07
05/19/16	\$2,340.76	\$931.74	\$701.46	\$179.20	\$116.17	\$310.29	\$19.50	\$0.00	\$0.00	\$0.00	\$82.40
05/20/16	\$4,889.84	\$2,222.58	\$1,717.43	\$221.73	\$147.45	\$363.73	\$22.10	\$0.00	\$0.00	\$0.00	\$194.82
05/27/16	\$7,930.38	\$3,178.20	\$2,185.39	\$732.35	\$474.55	\$1,187.01	\$73.90	\$0.00	\$0.00	\$0.00	\$98.98
05/31/16	\$16,994.24	\$7,022.37	\$4,763.00	\$1,472.14	\$974.06	\$2,581.08	\$161.55	\$0.00	\$0.00	\$20.04	\$0.00
	\$0.00										
	\$0.00										
TOTAL	\$458,868.06	\$202,171.49	\$164,177.39	\$21,159.86	\$13,838.47	\$33,688.79	\$2,104.24	\$15,886.40	\$3,944.71	\$20.04	\$1,876.67

4. ESTIMATED ANNUAL COST

Table 4-1: Estimated Annual Budget – Year 4

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget
Labor (D.L. + FB)	\$124,386	\$106,806	\$124,386	\$106,806	\$1,492,633
Utilities	\$2,500	\$2,301	\$2,500	\$2,301	\$30,000
Chemicals Costs	\$22,667	\$10,726	\$22,667	\$10,726	\$272,000
Maintenance and Repair Costs	\$27,833	\$5,256	\$27,833	\$5,256	\$334,000
Sludge Disposal Costs	\$0	\$0	\$0	\$791	\$0
Lab Supplies & Equipment	\$3,375	\$796	\$3,375	\$796	\$40,500
Office Supplies	\$1,500	\$3,431	\$1,500	\$3,431	\$18,000
Miscellaneous Expenses	\$5,017	\$3,992	\$5,017	\$3,992	\$60,200
Other Operating Costs	\$12,494	\$4,193	\$12,494	\$4,193	\$149,927
Overhead (G&A of D.L.)	\$28,087	\$24,117	\$28,087	\$24,117	\$337,046
Subtotal of Costs for Contract Year 4	\$227,859	\$161,618	\$227,859	\$162,409	\$2,734,306
Fixed Fee for Contract Year 4	\$16,406	\$11,637	\$16,406	\$11,693	\$196,870

5. MAINTENANCE/REPAIR COST DETAIL

5.1 MAINTENANCE AND REPAIR COSTS

Maintenance and Repair costs as compared to the monthly threshold

Table 5-1: Maintenance and Repair Costs

	Month	YTD
Grounds	1,206	1,206
Electrical	0	0
Street	48	48
Water Distribution	661	661
Sewer Collection	0	0
Instrumentation	0	0
Mechanical	708	708
Vehicle	110	110
Tools	0	0
Janitorial/Misc.	193	193
HVAC Maintenance	2,268	2,268
Maintenance Agreements	45	45
Snow Removal	0	788
Total Expenditures	5,256	5,256
Threshold	\$27,833	\$27,833
Over (Under)	\$(22,577)	\$(22,577)

A SUMMARY OF MAINTENANCE & REPAIR ACTIVITIES:

Water/Street Facilities

Maintenance staff completed 73 preventative and 24 corrective work orders for the water plants, distribution system, and fleet in May. 115 requests for service were responded to by service personnel. 194 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 7 water meters
- Repaired curb stop 206 South 7th
- Repaired curb stop 400 West Archer
- Repaired curb stop 315 South 1st
- Repaired curb stop 1134 East 11th
- Repaired curb stop 308 South D
- Repaired curb stop 1035 East 5th
- Repaired water main 900 South 2nd

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- Repaired water main 200 East 2nd Ave.
 - Repaired water main 500 North 5th
 - Repaired water main 800 South 2nd
 - Repaired leak in raw water line at Well 4
 - Replaced chlorine scales at South WTP
 - Cleaned sewer 800 North F

Wastewater Facilities

Maintenance staff performed 102 preventative work orders at the Consolidated Plant, and, 34 preventative and 1 corrective work orders at the Pre-Treatment plant.

- Installed rebuilt storm water return pump
- Rotor #4 VFD will need replaced
- Installed new alarm dialer at Smithfield Lift Station

Street/Grounds/Right of Way/Fleet

- Various tree removal
- Street patching
- Sign work
- Scheduled vehicle service work (lube, oil, filters)
- Replaced starter on T19
- Backfilled, tilled, and seeded graves at the Cemetery
- Seasonal mowing started at the Cemetery May 11th, currently 7 seasonal employees and 1 full time employee are performing all of the City grounds keeping including 2 cemeteries, all City owned lots, private lots as directed by Code Enforcement Officer, City right of ways, Water Plants, Wastewater Treatment Plants, City garage, Fountain maintenance, and downtown beautification

5.2 CHEMICAL COST DETAIL

Process chemical costs for water treatment

Table 5-2: Process Chemical Costs


	Month	YTD
Chlorine	2,010	2,010
Salt	8,716	8,716
Polyphosphate	0	0
Total	\$10,726	\$10,726
Threshold	\$22,667	\$22,667
Over (Under)	\$(11,941)	\$(11,941)

6. HEALTH & SAFETY

Monthly training topic was review of guarding openings. Staff has worked 216 consecutive days without a safety incident.

7. CAPITAL PROJECTS

See the status report below from the consulting group

	ST. CHARLES, MO OFFICE - ENGINEERING PROJECTS							
	MAY 2016 STATUS REPORT							
	DATE: 5/27/2016		This chart is a status report of all projects coordinated by the St. Charles office and includes the following information for each project in both the Water Service Line and Sanitary Wastewater Service Line:					
	<ul style="list-style-type: none"> • Highlights of the work completed over the past month; • Identification of the work anticipated over the next month; • Discussion of any outstanding issues that need to be addressed; and • Schedule update and target dates. 							
PROJECT #	PROJECT NAME	SERVICE LINE	PM	Work Completed Over Previous Month	Anticipated Work Over Next Month	Outstanding Issues	Schedule Update / Target Dates	
229692.00	Monmouth, IL - CSO Upgrades Design	SANITARY WASTEWATER	Dennis	1. Completed geotech and survey. 2. Execution of 30% Pre-design submittal.	1. Submit 30% Pre-design submittal to the City on 6/2.	None	None	
229078.00	Monmouth - New Water Well	WATER	Dennis	1. Received 85% design comments from City. 2. Incorporated City's comments and issued bid documents on May 18.	1. Pre-bid Meeting at City Hall on 6/6. 2. Bid Opening on 6/16.	None	None	