



Monthly Operating Report

JULY 2018

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So. Sangamon

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woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

TABLE OF CONTENTS



SECTION	PAGE NO.
Executive Summary.....	ES-1
1. SAFETY	1-1
1.1 Safety Training	1-1
1.2 Lost time Accidents	1-1
1.3 Safety Audit	1-1
1.4 Miscellaneous Safety.....	1-1
2. COMPLIANCE, FLOWS AND LOADINGS	2-2
2.1 Compliance	2-2
2.2 Influent flows and loadings	2-2
2.3 Effluent Concentrations	2-2
2.4 Lagoon Discharge Concentrations	2-3
3. OPERATIONS.....	3-1
3.1 Events impacting operations	3-1
3.2 Emergency & Service calls	3-1
3.3 Emergency Call-outs	3-1
3.4 Customer Inquiries	3-1
4. MAINTENANCE AND REPAIR.....	4-2
4.1 Preventative and predictive maintenance.....	4-2
4.2 Corrective repairs	4-2
5. PROJECT MANAGEMENT & SUPPORT	5-1
5.1 Staffing & Training.....	5-1
5.2 Corporate Support.....	5-1
5.3 Budget	5-2
6. CAPITAL PLANNING	6-1
6.1 Approved CIP Projects Current status.....	6-1
6.2 Draft Capital Improvement Plan	6-1

LIST OF TABLES

TABLE	PAGE NO.
Table 2.2 Influent Concentrations and Flow.....	2-2
Table 2.3 Finished Water Quality.....	2-2
Table 2.4 Weekly Grab Sample Analysis Results.....	2-3
Table 4.1 Budget Table.....	5-2

EXECUTIVE SUMMARY

Safety. Safety is the number one priority at Woodard and Curran. We continue to provide monthly training for operations staff at the plant, provide weekly safety updates and safety videos are assigned to all employees. The safety topic for this month was “Incident Reporting and Evaluation”. There were no lost time accidents in the month of July 2018. 100 percent of the items identified in the combined list of safety items have been completed.

Compliance. The finished water quality was within regulatory limits and all reporting and sampling requirements were met for the month. A copy of the Operations Report submitted to the Illinois Environmental Protection Agency is available at www.sswc.us.

During the month of July 2018, the plant pumped 52.453 million gallons from the well field and 41.178 million gallons of finished water. For the period of August 2017 through July 2018, the plant has pumped 11.224 Million less gallons of water then during the same period one year ago.

The SSWC plant has been placed on Critical Review status. Systems on Critical Review will be evaluated for enough capacity before issuance of water main extension permits.

Operations. There was 8 emergency call-outs for the month. There were 1 customer inquiries for the month.

Maintenance and Repair. For the month of July 2018, there were 10 inspections, 4 preventative and 14 corrective maintenance activities completed.

Budget. Through the end of the third year plus two month of contract extension, we are \$27,221 under budget for the period. Please note that not all expenses for the 2017-2018 timeframe have been added to this summary.

Capital Planning. Woodard and Curran is working with MECO Engineering to update and prioritize the Capital Improvement Plan. The CIP is a planning document that includes all projects anticipated to exceed \$5,000 in cost over the next five years. The CIP is an ongoing process and will be refined from time to time as projects are completed and new issues are identified.

1. SAFETY

1.1 SAFETY TRAINING

Woodard and Curran continue to provide safety training for personnel at the plant. This is accomplished by requiring daily safety meetings, weekly safety updates are available to the plant, and safety videos are assigned to all employees and are required to be completed. The June 2018 safety training topic was “

1.2 LOST TIME ACCIDENTS

There were 0 lost time accidents in the month of July 2018.

1.3 SAFETY AUDIT

Since Woodard and Curran assumed operational responsibility for the SSWC plant, two safety audits have been completed. The first audit was conducted in May 2015 and identified 89 items needing to be addressed. Approximately 86 percent of those items identified had been addressed when a second audit occurred in November 2016.

The finding for these two audits were combined to produce a list of 40 items needing to be addressed. As of November 30, 2017, 100 percent of the items have been addressed.

1.4 MISCELLANEOUS SAFETY

There were no Miscellaneous Safety items for the month.

2. COMPLIANCE, FLOWS AND LOADINGS

2.1 COMPLIANCE

The finished water quality was within regulatory limits and all reporting and sampling requirements were met for April. A copy of the Operations Report to the Illinois Environmental Protection Agency (IEPA) is available on the SSWC website.

2.2 INFLUENT FLOWS AND LOADINGS

The total gallons pumped from the well field was 52.453 MG. The influent parameters were all within the normal range.

The influent flow and loadings are summarized below in Table 2.2

Table 2.2 Influent Concentrations and Flow								
	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Well Flow Gals (k)
Max.	7.89	15.7	1.41	.287	-	370	290	1.893
Min.	7.04	14.0	.30	0.195	-	350	268	1.234
Avg.	7.30	14.8	.78	0.220	-	360	279	1.692
Total	-	-	-	-	-	-	-	52.453

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 47.769 MG during the month with a daily average of 1.541 MG and a min/max 1.163/1.719 MG.

Table 2.3 Finished Water Quality										
	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	1.9	2.0	8.40	15.8	.22	0.07	1.18	240	284	1.60
Min.	1.0	1.0	7.04	14.3	0.00	0.004	0.62	108	250	.61
Avg.	1.5	1.7	7.50	15.2	0.01	0.020	0.81	148	275	1.28
MCL	-	-	-	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-

Finished Water Flow Comparison for FY 2018

Time Period	2017-2018	2016-2017	2015-2016
August-July	389,615,528	400,839,173	386,463,475
Increase for the same period last year		-11.224 MG	

FINISHED WATER PUMPING HISTORY						
	2017-2018	2016-2017	2015-2016	2014-2015	2013-2014	2012-2013
August	38,760,634	35,401,490	38,109,033	33,748,543	42,999,243	42,398,528
September	39,896,986	36,325,215	36,546,171	29,763,075	37,597,085	32,510,603
October	33,506,605	34,374,820	34,783,455	28,803,052	33,916,594	30,278,765
November	28,617,333	30,478,309	27,217,293	28,426,579	31,615,459	27,114,479
December	28,808,037	32,525,530	27,788,637	28,656,869	32,697,551	29,014,035
January	30,556,824	30,449,215	28,510,121	30,346,721	32,499,427	28,007,432
February	25,617,914	27,373,232	26,095,228	26,336,077	28,745,378	25,763,807
March	28,217,699	30,068,363	27,851,811	28,729,919	31,217,486	28,130,190
April	27,110,578	29,625,797	29,292,618	29,270,184	31,690,073	27,991,597
May	33,304,196	32,120,873	33,349,391	33,371,016	31,157,411	29,592,356
June	34,040,000	39,931,402	41,541,321	31,092,539	38,462,951	36,530,691
July	41,178,722	42,164,927	35,378,396	33,123,375	38,674,894	40,908,704
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Totals	389,615,528	400,839,173	386,463,475	367,844,636	421,326,405	378,241,187
Average	1,067,439	1,098,190	1,058,804	1,007,794	1,154,319	1,036,277
Maximum	2,220,362	2,061,098	2,177,926	1,837,344	2,010,587	2,546,901
Minimum	423,165	275,315	-	349,690	363,767	142,411

2.4 LAGOON DISCHARGE CONCENTRATIONS

The results for the NPDES lagoon discharge permit are summarized below.

Table 2.4 Weekly Grab Sample Analysis Results

Lagoon Effluent Results						
Date	Fe (mg/l)	Mn (mg/l)	Chloride (mg/l)	Cl ² (mg/l)	pH (S.U.)	TSS (mg/l)
						0
Minimum		1.0	192			6.0
Maximum		1.0	192			6.0
Average						
Monthly Avg Limit	2.000	1.000				15
Daily Limit	4.000	2.000	500	0.05	6.0-9.0	30

The Chloride sample for the month of May 2018, performed by the Springfield Metropolitan Sanitary District, was unknown as of July 15, 2018. The limit for chloride discharge to the sanitary district is 30,000 mg/L.



3. OPERATIONS

3.1 EVENTS IMPACTING OPERATIONS

SOFTENER SHUTDOWN- During the month of July softener number 3 had a valve malfunction which caused all backwashes and regens to stack up, which interfered with routine maintenance and cleaning, which interfered with our normal operations.

3.2 EMERGENCY & SERVICE CALLS

Service Calls:

- There were no emergency call outs for the month.

3.3 EMERGENCY CALL-OUTS

There was 8 emergency call-out for the month requiring operational personnel at the plant after normal business hours

3.4 CUSTOMER INQUIRIES

There was 1 customer inquiry for the month.

OTHER WORK PERFORMED

Chemically treated Lagoons for vegetation and algae growth.

4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of July 2018, there were 10 inspections, 5 preventative and 1 corrective maintenance activity completed.

4.2 CORRECTIVE REPAIR

Ultra-filters- Received final shipment of Ultra-Filters on July 6th, 2018. Began the installation process. The afternoon of July 11th all new filter modules were installed and operational.

SCADA ISSUES – There have been multiple issues with the SCADA programming that has been trouble shot by SCADASERV.

5. PROJECT MANAGEMENT & SUPPORT

5.1 STAFFING & TRAINING

- Woodard and Curran continue to train and provide staffing to the plant as needed. With Stephen Bivin providing training and support to Operator in Training Kevin Canham

5.2 CORPORATE SUPPORT

The following individuals, either on-site or remotely, provided assistance in operation and/or maintenance of the plant during the month.

- Marc Thomas
- Kevin Canham
- Ray Giguere
- Stephen Bivin
- Greg Frieden
- David Kraus

5.3 BUDGET

Table 5.3 below is a breakdown of the current budget as of May 25, 2018. Please note that not all expenses for the 2017-2018 timeframe have been added to this summary.

Table 5.3 Budget Table

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget
Labor (D.L. + OH)	\$24,213	\$13,892	\$363,190	\$306,830	\$387,408
Utilities	\$8,150	\$594	\$122,250	\$124,291	\$130,400
Chemicals	\$14,583	\$8,985	\$218,745	\$222,424	\$233,328
Maintenance & Repair	\$9,102	\$5,648	\$127,429	\$149,702	\$145,632
Chloride	\$13,522	\$12,727	\$202,830	\$179,714	\$216,352
Lab Supplies and Equipment	\$1,882	\$1,763	\$28,230	\$19,632	\$30,112
Office Supplies	\$216	\$0	\$3,240	\$3,974	\$3,456
Miscellaneous Expenses	\$1,141	\$1,072	\$17,115	\$17,700	\$18,256
Other Operating Costs	\$1,398	\$1,268	\$20,970	\$26,749	\$22,368
Subtotal of Costs for Contract Year 3	\$74,206	\$45,950	\$1,104,018	\$1,051,004	\$1,187,312
Fixed Fee for Contract Year 3	\$7,421	\$4,595	\$110,402	\$105,100	\$118,731
Year One Transition			\$17,755	\$17,755	\$17,755
Total	\$81,627	\$50,545	\$1,232,175	\$1,173,859	\$1,323,798

6. CAPITAL PLANNING

6.1 APPROVED CIP PROJECTS CURRENT STATUS

No new information is available.

6.2 DRAFT CAPITAL IMPROVEMENT PLAN

The CIP is a planning document that includes all projects anticipated to exceed \$5,000 in cost over the next five years. The CIP is an ongoing process and will be refined from time to time as projects are completed and new issues are identified.

The most recent Capital List was included in the Year 2 Annual Report.

