

Monthly Operating Report

JUNE: 2019



So. Sangamon
Water Commission
July 15, 2019

SSWC

9199 Buckhart Rd Ochester IL 62563

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EXECUTIVE SUMMARY

Safety. Safety is the number one priority at South Sangamon. We have instituted a monthly safety meeting for operations staff at the plant,. There were no lost time accidents in the month of June 2019.

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 June 2019, the plant pumped 45.090 million gallons from the well field and 34.523 million gallons of finished water. This is .483million gallons more than June of 2018.

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

Operations. There were 4 emergency call-outs for the month. There were 3 customer inquiries for the month.

Maintenance and Repair. For the month of June 2019, there were 30 inspections, 12 preventative and 2 corrective maintenance activity completed.

Budget. Passed at May 20th meeting.

Capital Planning. Chloramines Project

Toray filter Project

New Berlin Meter relocation.

1. SAFETY

1.1 SAFETY TRAINING

At South Sangamon we strive to provide a safe working environment for all employees. This is accomplished with daily safety meetings and open communication.

1.2 LOST TIME ACCIDENTS

There were 0 lost time accidents in the month of June 2019.

1.3 SAFETY AUDIT

No safety audits to date.

1.4 MISCELLANEOUS SAFETY

No usable Fall Arrestors on premises

2. COMPLIANCE, FLOWS AND LOADINGS

2.1 COMPLIANCE

The finished water quality was within regulatory limits and all Bacteriological testing was completed for the month of 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 were 45.090 MGs. 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 (mgd).
Max.	7.72	19.4	1.45	.243	-	378	300	1.729
Min.	7.03	12.4	.34	.209	-	340	260	1.236
Avg.	7.42	16.4	.84	.222	-	350	285	1.503
Total	-	-	-	-	-	-	-	45.090

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 38.825 MG during the month with a daily average of 1.228 MG and a min/max .412/ 1.467 MG.

Table 2.3 Finished Water Quality										
	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	2.3	2.36	8.02		0.02	0.06	1.64	180	310	2.20
Min.	.91	1.40	7.23		0.01	0.007	0.1	100	250	.73
Avg.	1.5	1.70	7.77		0.02	0.018	0.92	122	279	1.62
MCL	-	-	-	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-

Finished Water Flow Comparison for FY 2018

Time Period	2018-2019	2017-2018	2016-2017
July-June	387,466,730	390,601,733	394,052,642
Increase for the same period last year		-3.135 MG	

FINISHED WATER PUMPING HISTORY						
	2018-19	2017-18	2016-17	2015-16	2014-15	2013-14
July	41,178,722	42,164,927	35,378,396	33,123,375	38,674,894	40,908,704
Aug	35,176,238	38,760,634	35,401,490	38,109,133	33,748,543	42,999,243
Sept	34,754,000	39,896,986	36,325,215	36,546,171	29,763,075	37,597,085
Oct	30,353,482	33,506,605	34,374,820	34,783,455	28,803,052	33,916,594
Nov	30,464,000	28,617,333	30,478,309	27,217,293	28,426,579	31,615,459
Dec	31,930,000	28,808,037	32,525,530	27,788,637	28,656,869	32,697,551
Jan	28,823,375	30,556,824	30,449,215	28,510,121	30,346,721	32,499,427
Feb	28,625,431	25,617,914	27,373,232	26,095,228	26,336,077	28,745,378
March	31,237,000	28,217,699	30,068,363	27,851,811	28,729,919	31,217,486
April	28,418,249	27,110,578	29,625,797	29,292,618	29,270,184	31,690,073
May	33,045,927	33,304,196	32,120,873	33,349,391	33,371,016	31,157,411
June	33,460,303	34,040,000	39,931,402	41,541,321	31,092,539	38,462,951
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Totals	387,466,730	390,601,733	394,052,642	384,208,554	367,219,468	413,507,362
Avg	1.06 MGD	1.07 MGD	1.08 MGD	1.05 MGD	1.01 MGD	1.13 MGD

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)
June 13 th 2019	.27	..463	240	.04	7.65	U
Minimum	.27	.463	240	.04	7.65	U
Maximum	.27	.463	240	.04	7.65	U
Average	.27	.463	240	.04	7.65	U
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 June 2019, performed by the Springfield Metropolitan Sanitary District, was 10,000mg/l as of June 2019. The limit for chloride discharge to the sanitary district is 30,000 mg/L.

3. OPERATIONS

3.1 EVENTS IMPACTING OPERATIONS

On June 15th SSWC experienced a power outage. The outage caused SSWC employees have to reset all the equipment and stay later than normal.

3.2 EMERGENCY & SERVICE CALLS

Service Calls:

- There were no emergency call outs for the month.

3.3 EMERGENCY CALL-OUTS

There was 4 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 about water usage.

OTHER WORK PERFORMED

Prairie Analytical is closed on the weekends, took sample to PDC labs in Peoria IL to remain in compliance.



June 3rd new rack for Toray filters arrived



June 4th Toray filters arrived



During the month of June South Sangamon Water Commission purchased a new plant vehicle.

4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of June 2019, there were 30 inspections, 12 preventative and 2 corrective maintenance activity completed.

4.2 CORRECTIVE REPAIR

On June 17th Joe lee came out and “repaired” the transducers on the Lagoon effluent and the detention tank. The control panels on each transducer was damaged due to power surges. Mr. lee removed the control boxes and installed surge suppressors due to the fact that the surges also damaged nodes on the PLC card. We are currently using the floats for level control instead of the transducer.

5. PROJECT MANAGEMENT & SUPPORT

5.1 STAFFING & TRAINING

- South Sangamon Water Commission hired an Assistant Operator in Training

5.2 OPERATIONAL SUPPORT

The following individuals, either on-site or remotely, provided assistance in operation and/or maintenance of the plant during the month of June 2019.

- Kevin Canham
- Stephen Bivin
- Paul Hedstrom(AAC)
- Joe Lee (electrician)
- Katie Krall

5.3 BUDGET

Table 5.3 Operating Budget

Table 5.3 Budget Table

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget
Labor (D.L. + OH)	\$13,909.06				\$163,768
Utilities	\$8,306.30	\$2919.72			\$97,800
Chemicals	\$22,421	\$9560.68			\$264,000
Maintenance & Repair	\$13,668.62	\$11280.91			\$160,937
Chloride	\$13,421.38	\$11385.00			\$157,920
Lab Supplies and Equipment	\$1,918.09	\$723.01			\$22,584
Office Supplies	\$220.14				\$2,592
Miscellaneous Expenses	\$41	\$127.37			\$500
Other Operating Costs		\$10000			\$2500
Engineering Fees	\$2,500	\$1,239.30			\$30,000
Office Equipment rental	\$65	\$63.62			\$780
Locates	\$378	\$446.88			\$4536
Truck		\$40,050			\$40,000
Total	\$62939.53	\$87796.49			

6. CAPITAL PLANNING

6.1 APPROVED CIP PROJECTS CURRENT STATUS

Toray filter project is underway. Tentative completion date of July.

Chlormine conversion project is underway. Tentative completion date of mid July.

New Berlin Meter relocation project. We have received construction permit. We have received bids. SSWC is awaiting ground breaking.

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.

