



Monthly Operating Report

March:2025

So. Sangamon
Water Commission
April 21st, 2025

SSWC

9199 Buckhart Rd Rochester 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 March 2025.

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 March 2025, the plant pumped 41.006 million gallons from the well field and 36.482 million gallons of finished water. This is .475 million gallons more than March 2024.

The SSWC plant has been removed from Critical Review status.

Operations. There was 1 emergency call-outs for the month. There were numerous customer inquiry for the month.

Maintenance and Repair. For the month of March 2025, there were 31 inspections, 3 preventative and multiple corrective maintenance activity completed. There was 1 repair activities performed.

Budget. Passed at March 17th 2025 meeting.

Capital Planning.

Chatham emergency interconnect

Onsite fuel storage tanks

Detention Tank

Well#11

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 March 2025.

1.3 SAFETY AUDIT

No safety audits to date.

1.4 MISCELLANEOUS SAFETY

No notable safety issues

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 March. 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 41.006 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 (MGD).
Max.	7.40	15.6	1.72	.218	-	410	312	1.508
Min.	7.30	12.9	.32	.110	-	358	280	.789
Avg.	7.36	14.2	.59	.178	-	380	294	1.323
Total	-	-	-	-	-	-	-	41.006

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 36.482 MG during the month with a daily average of 1.177 MG and a min/max .673/ 1.341 MG.

Table 2.3 Finished Water Quality										
	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	3.48	4.10	7.9		0.03	0.043	1.10	280	308	2.49
Min.	0.07	2.11	7.3		0.01	0.000	0.27	100	280	.80
Avg.	0.30	3.48	7.8		0.01	0.022	0.66	166	295	2.22
MCL	-	-	-	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-

Finished Water Flow Comparison for FY 2025

Time Period	2024-25	2023-24	2022-23
Apr 2024-Mar 2025	414,574,771	412,207,888	419,715,218
Increase for the same period last year		2.4 MG	-7.5 MG

FINISHED WATER PUMPING HISTORY						
	2024-25	2023 -24	2022-23	2021-22	2020-21	2019-20
Apr	31,707,537	36,832,617	31,991,050	33,214,211	31,542,650	28,418,249
May	36,629,959	43,484,155	37,459,417	35,932,776	34,673,848	33,045,927
June	40,285,085	22,455,176	38,496,145	37,616,256	17,414,377	33,460,303
July	38,944,142	41,565,811	38,861,790	39,001,640	44,237,066	23,742,374
Aug	38,576,284	39,770,720	36,977,913	39,953,900	39,638,063	25,018,633
Sept	37,258,390	38,677,420	32,355,302	38,935,839	38,674,095	34,234,782
Oct	34,907,003	32,733,224	29,576,287	34,918,955	34,597,739	30,769,238
Nov	28,768,567	30,061,570	35,563,717	31,181,005	32,325,040	30,877,400
Dec	32,675,158	31,818,986	30,450,255	31,391,459	31,582,311	29,703,954
Jan	33,741,476	33,807,516	37,721,005	32,322,270	31,456,987	30,073,516
Feb	29,167,378	29,777,768	33,481,076	32,451,653	30,638,842	28,797,693
Mar	31,913,792	31,222,925	36,781,261	33,909,417	33,633,244	30,339,298
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Totals	414,574,771	412,207,888	419,715,218	420,829,381	400,416,262	358,481,367
Avg	1.13 MGD	1.13 MGD	1.15 MGD	1.15 MGD	1.09 MGD	.982 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)
March 18 th , 2025						
Minimum	.11	.361		.01	7.6	6.4
Maximum	.11	.361		.01	7.6	6.4
Average	.11	.361		.01	7.6	6.4
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, performed by the Springfield Metropolitan Sanitary District, was below 30,000 mg/l for the month of March 2025. The limit for chloride discharge to the sanitary district is 30,000 mg/L.

3. OPERATIONS

3.1 EVENTS IMPACTING OPERATIONS

There were over 50 incident that impacted the operation of the plant.

Power surge

Power Sag

Well check valves

Power Outage

Permanganate Pumps

Ion Exchange Troubleshooting

Backwash Low Flow Alarms

Ion Exchange Alarms

Well #9

Comm Loss Alarms

3.2 EMERGENCY & SERVICE CALLS

Service Calls:

- There was 0 emergency call out for the month.

3.3 EMERGENCY CALL-OUTS

There was 1 emergency call out for the month.

3.4 CUSTOMER INQUIRIE

There were numerous customer inquiries.

OTHER WORK PERFORMED

Inspected distribution mains

Inspected booster station

Customer service

SCADA programming

Well #11 construction

Softener Repairs

Filter Train Repair



The new HSP has arrived on site earlier than expected.



E.L. Pruitt was called to do the install. E.L. Pruitt was the contractor that was recommended by the manufacturer



Kuritas, our Tonka representative, was on site to do an evaluation of our softening system. Some deficiencies were identified and plant staff are in the process of addressing these issues.



Well #11 construction site has been backfilled and rough graded.



The serviceable check valve that had arrived on site was installed.



Well 11 sample has been installed



Joe Lee Electric trenched in power in power from well #7. Bringing power over from well #7 has saved time and construction costs.

4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of March 2025, there were 31 inspections, 3 preventative and multiple corrective maintenance activities completed.

4.2 CORRECTIVE REPAIR AND MAINTENANCE

Pulling and cleaning pre filters on all 3 filter trains on weekly basis

CIP train 1,2 and 3

Purged air control system

Raw water line flushing

Detention tank flush

Flushing Air Lines

Maintenance of New Berlin Booster Station

Air compressor Maintenance

Pneumatic Tank Maintenance

Well Maintenance

5. PROJECT MANAGEMENT & SUPPORT

5.1 STAFFING & TRAINING

- Staff member training has been continuous and ongoing.
- Operator and Asst. Operator have been studying for EPA licensing test.

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 March 2025.

- Kevin Canham
- Stephen Bivin
- Katie Krall
- Dan (SCADAware)
- Joe Lee Electric
- Kevin Garmin (SCADAware)
- Brotke Well and Pump

5.3 BUDGET

Table 5.3 Operating Budget

Table 5.3 Budget Table

Budget Table was removed: see clerks report

6. CAPITAL PLANNING

6.1 APPROVED CIP PROJECTS CURRENT STATUS

Pigging project construction complete. First pig was scheduled. Issues were discovered. First pig was attempted but was not able to be performed.

The Chatham /South Sangamon emergency interconnect construction is complete. After many failed attempts; start has been completed.

Meter Project progressing, All meter bases and registers are on site. all cell meters have been installed.

Brotke has made the changes that MECO brought to their attention. Construction site has been back filled.

Lee Electric has trenched in the conduit for power to well #11. Control panels have been mounted.

HSP #3 replacement has arrived on site earlier than expected and has been installed.

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.

1. Onsite fuel storage tanks have arrived on site and pumps have been installed-completed
2. BOP CPU upgrade-completed
3. Second raw water detention tank
4. SSWC/Chatham interconnect-completed
5. Well #11-underway
6. SCADA computer upgrade-90% complete
7. Well #12

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