









SSWC

Monthly Operating Report

March:2025

So. Sangamon
Water Commission
April 21st, 2025

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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

		Tab	le 2.2 Infl	uent Conce	entrations a	and Flow		
	рН	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 Fir	nished Wat	er Qualit	у		
	Free CL2	Total CL2	рН	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	-	-	-	ı	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 per	iod last year	2.4 MG	-7.5 MG

	FINISHED WA	TER PUMPING	G HISTORY		
2024-25	2023 -24	2022-23	2021-22	2020-21	2019-20
31,707,537	36,832,617	31,991,050	33,214,211	31,542,650	28,418,249
36,629,959	43,484,155	37,459,417	35,932,776	34,673,848	33,045,927
40,285,085	22,455,176	38,496,145	37,616,256	17,414,377	33,460,303
38,944,142	41,565,811	38,861,790	39,001,640	44,237,066	23,742,374
38,576,284	39,770,720	36,977,913	39,953,900	39,638,063	25,018,633
37,258,390	38,677,420	32,355,302	38,935,839	38,674,095	34,234,782
34,907,003	32,733,224	29,576,287	34,918,955	34,597,739	30,769,238
28,768,567	30,061,570	35,563,717	31,181,005	32,325,040	30,877,400
32,675,158	31,818,986	30,450,255	31,391,459	31,582,311	29,703,954
33,741,476	33,807,516	37,721,005	32,322,270	31,456,987	30,073,516
29,167,378	29,777,768	33,481,076	32,451,653	30,638,842	28,797,693
31,913,792	31,222,925	36,781,261	33,909,417	33,633,244	30,339,298
414,574,771	412,207,888	419,715,218	420,829,381	400,416,262	358,481,367
1.13 MGD	1.13 MGD	1.15 MGD	1.15 MGD	1.09 MGD	.982 MGD
	31,707,537 36,629,959 40,285,085 38,944,142 38,576,284 37,258,390 34,907,003 28,768,567 32,675,158 33,741,476 29,167,378 31,913,792	2024-25 31,707,537 36,832,617 36,629,959 43,484,155 40,285,085 22,455,176 38,944,142 41,565,811 38,576,284 39,770,720 37,258,390 34,907,003 28,768,567 32,675,158 31,818,986 33,741,476 29,167,378 31,913,792 31,222,925 414,574,771 412,207,888	2024-25 2023 -24 2022-23 31,707,537 36,832,617 31,991,050 36,629,959 43,484,155 37,459,417 40,285,085 22,455,176 38,496,145 38,944,142 41,565,811 38,861,790 38,576,284 39,770,720 36,977,913 37,258,390 38,677,420 32,355,302 34,907,003 32,733,224 29,576,287 28,768,567 30,061,570 35,563,717 32,675,158 31,818,986 30,450,255 33,741,476 33,807,516 37,721,005 29,167,378 29,777,768 33,481,076 31,913,792 31,222,925 36,781,261	31,707,537 36,832,617 31,991,050 33,214,211 36,629,959 43,484,155 37,459,417 35,932,776 40,285,085 22,455,176 38,496,145 37,616,256 38,944,142 41,565,811 38,861,790 39,001,640 38,576,284 39,770,720 36,977,913 39,953,900 37,258,390 38,677,420 32,355,302 38,935,839 34,907,003 32,733,224 29,576,287 34,918,955 28,768,567 30,061,570 35,563,717 31,181,005 32,675,158 31,818,986 30,450,255 31,391,459 33,741,476 33,807,516 37,721,005 32,322,270 29,167,378 29,777,768 33,481,076 32,451,653 31,913,792 31,222,925 36,781,261 33,909,417	2024-25 2023 -24 2022-23 2021-22 2020-21 31,707,537 36,832,617 31,991,050 33,214,211 31,542,650 36,629,959 43,484,155 37,459,417 35,932,776 34,673,848 40,285,085 22,455,176 38,496,145 37,616,256 17,414,377 38,944,142 41,565,811 38,861,790 39,001,640 44,237,066 38,576,284 39,770,720 36,977,913 39,953,900 39,638,063 37,258,390 38,677,420 32,355,302 38,935,839 38,674,095 34,907,003 32,733,224 29,576,287 34,918,955 34,597,739 28,768,567 30,061,570 35,563,717 31,181,005 32,322,040 32,675,158 31,818,986 30,450,255 31,391,459 31,582,311 33,741,476 33,807,516 37,721,005 32,322,270 31,456,987 29,167,378 29,777,768 33,481,076 32,451,653 30,638,842 31,913,792 31,222,925 36,781,261 33,909,417 33,633,244

2.4 LAGOON DISCHARGE CONCENTRATIONS

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

Table 2.4 Weekly Grab Sample Analysis Results

	l	agoon Eff	luent Results	3		
Date	Fe (mg/l)	Mn (mg/l)	Chloride (mg/l)	CI 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

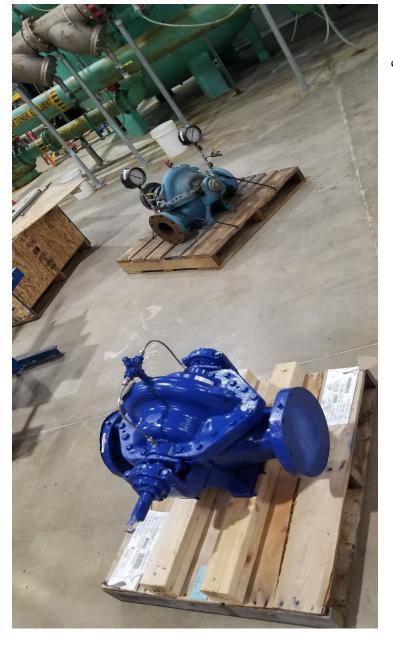
There was 1 emergency call out for the month.

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



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	ENVIRC	JUMENT,	AL PROT	TECTION TO THE	N AGEN	≿		\vdash	\perp		Ø	THY	SON REIN	OVAL A	D ION E	XCHANG	E SOFT	MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT	EPORT											
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																													Pag	Page 1 of 2
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	of 2	egrity	Ļ		Bank 3	psi			T		pass					П							000	c cond								#DIV/0!	0.00	0.00		
	Page 2 of 2	ane Int	Post Filter		Bank 2	psi	7	1	T		pass			T		П	1	T	1				600	cepd.	П	T	T			1	T	#DIVIOI #DIVIO	00'0	00'0		
	ш.	Membrane Integrity	g		Bank 1	-isd			Ť		pass				l			Ì		t			-	ceph			t					#DIV/0i	0.00	0.00		
				5		mg/L			T																		t					#DIVIO	0.00	0.00		
				Tine	-	mg/l m																					+					#DIV\0i		00:00		
			ä	Chlorine	mg/L		3.74	3.58	3.00	3.56	4.10	3.64	3.41	3.28	3.42	3.26	3.40	3.29	3.42	3.76	3.64	2.92	3.82	3.37	3.42	3.31	2.11	3.90	3.52	3.64	3.74			2.11		
					_		0.11	0.10	0.09	0.10	60:0	0.10	0.07	0.11	0.11	60:0	90:0	0.08	0.10	0.14	0.11	0.12	0.95	90:0	0.11	3.48	0.03	0.12	0.11	0.10	1.97	0.30	3.48	0.07	Remarks:	
			-	Mbno- Chloramine			3.62	3.46	3.85	3.23	3.43	3.37	3.44	3.23	3.14	3.18	3.42	3.22	3.34	3.30	3.57	3.25	3.90	3.61	3.71	3.79	3.15	3.22	3.78	3.58	0.14	3.32	3.90		Sulfate Re	25
				Free Ammonia Cl			0.01	0.01	10.0	0.0	0.04	0.01	0.03	0.07	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.03	000	0.01	0.02	0.01	0.01	0.01	0.04		Chloiride ma/l	46
			<u> </u>	Ortho			2.14	2.01	777	1.93	2.34	2.35	2.28	2.35	2.36	2.24	2.40	2.34	2.36	2.33	2.18	2.01	2.31	2.14	2.22	0.80	2.33	2.24	2.27	2.23	2.40	2.22	2.49	_		240
			ᇤ	Fluoride	Τ.		0.72	0.69	0.35	0.69	0.51	69.0	0.57	0.72	09:0	0.76	0.78	0.82	0.74	0.54	0.27	0.63	0.40	0.56	0.49	0.52	0.76	0.61	0.64	0.70	0.97	99.0	1.10	0.27	Akalinity	27 P
				Total H	٠.		0.028	0.034	17000	0.007	0.015	0.026	0.018	0.014	0.012	0.012	0.018	0.019	0.022	0.041	0.031	0.042	0.012	0.013	0.021	0.025	0.031	0.027	0.043	0.032	0.000	0.022	0.043)		450
0			 -	Total	٠.		0.01	0.01	0.0	0.0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.01	0.01	0.01	0.01	0.01	0.03	_		107
South Sangamon Water Commission - IL1670080			lŀ	Total	_		140	160	210 4 80	180	220	160	100	180	160	130	140	118	120	180	280	220	180	104	102	140	200	160	180	500	210	166	280	8	됩	7 66
ion -			-	Total	+	as CaCO3	280	280	300	300	300	300	294	300	300	290	300	296	300	300	300	300	290	294	306	308	300	280	280	280	300	295	308	280	ests	105
ommis	C707	Tests		Turbidity	UTN		0.22	0.24	0.40	0.18	0.22	0.26	0.22	0.25	0.22	0.23	0.20	0.18	0.20	0.22	0.18	0.20	0.18	0.19	0.20	0.20	0.18	0.24	0.20	0.22	0.22	0.21	0.26	0.18	Distribution Stability Tests	7/10/2025
Nater Comm	2	mical		Ŧ			7.90	7.80	7 00	7.80	7.80	7.80	7.70	7.90	7.80	7.80	7.80	7.80	7.80	7.80	7.70	7.30	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.80	7.79	7.90	7.30	istributic	46
No W	Ē	Physical and Chemical Tests		4	mg/L																											###	0	0		
gam		sicala	ݓ	2 3 Chloride	mg/L mg/L				1																					4		##### ##### #####	0	0 0		
h Sar		Phy	H	-				-	+	-			_	+					4		H		+	-	H	_	╀		H	4	+	##	0	0	+	H
Sout			Η.	dify 1	U mg/L		0.18	0.20	81.0	070	0.20	0.22	0.20	0.21	0.18	0.20	0.22	121	0.24	0.20	0.22	0.20	0.15	0.18	0.16	0.19	0.18	0.22	0.15	0.18	0.16	0.19 #####	0.26	0.15	+	H
-			embran	Turbidity	L M					0.038			0.050						0.046				0.015			0.050		0.120			0.138			0.015	+	H
			∋⊦	Total Total	Η.		0.01							0.01					0.01				0.01			0.01			.001		0.01			0.01	+	H
				_						0.051				0.049			0.038		0.052				0.010			0.162			0.147		0.170			0	TSS	1 9 4
			⊂ -	al Soluble	+-	Н	0.271 0		- 1	0.297 0				0.303					0.280 0										0.185 0		0.176 0				d)	
				Total Total	١.	\vdash	0	0 0	5 6	5 0	0	0	0 0	5 0	0	0	0	0	0 0	0	0	0	0 0	5 0	0	0 0	5 0	0	0	0 1	0 0	#DIVIOI 0		9	Fe Chloiride	+=
			Pre	Turbidity					+					+		Н			+					-	H	+	+			+	+	#DIV/0i #C		9	+	+
-					N NI		0.150	0.121	0.110	0.158	0.201	0.182	0.199	0.182	0.198	0.178	0.186	0.166	0.172	0.206	0.159	0.189	0.129	0.217	0.206	0.162	0.201	0.171	0.179	0.162	0.164					+
			 -	Total	_					0.32 0.			0.66						0.56 0.				0.43 0.			0.35 0.				0.60					p TChlor	- 4
			H	Total			400 0.			400				360 0.			400 0.		400 0.					364 0		390 0.			410 0.						g S	76 15
			− تضا	Total	_	S	300 4(300 40				300 36		300 40								288			280 4		280 47						됩	_
				Total																														.9 28	rt Tests	3/18/2025
				Temp	deg. C				7.40 15.7		7.40 14.4	7.40 13.4		7.40 15.1		7.40 14.8			7.40 14.4				7.30 14.0			7.40 12.9					0 14.9			7.30 12.9	Lagoon Effluent Tests Monthly	
											· =	≓ I	# I 3	∓ I ∺	7.30	. =	~ 1	= 1	∓ ≿	7.30	1 2	ĭ ⊼ I	ಷ∣≿		- =	718	33	7.30	7.40	∓ 1 3	7.40	~~~	- =	8	ء د	a de