









SSWC

Monthly Operating Report

June:2024

So. Sangamon
Water Commission
July 15th, 2024

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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 2024.

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 2024, the plant pumped 51.356 million gallons from the well field and 45.526 million gallons of finished water. This is 15.3 million gallons more than June 2023.

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 June 2024, there were 30 inspections, 3 preventative and multiple corrective maintenance activity completed. There was 2 repair activities performed.

Budget. Passed at May 20th 2024 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 June 2024.

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 June. 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 51.356 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.	7.2	19.8	5.31	.272	-	365	322	2.038
Min.	6.7	14.0	.37	.131	-	350	300	1.244
Avg.	6.96	15.2	1.16	.174	-	357	305	1.712
Total	-	-	-	-	-	-	-	51.356

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 45.526~MG during the month with a daily average of 1.518~MG and a $min/max\ 1.196/\ 1.821~MG$.

				Table	2.3 Fir	nished Wat	er Qualit	у		
	Free CL2	Total CL2	рН	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	0.16	4.02	7.6		0.03	0.021	1.09	120	310	3.09
Min.	0.01	3.00	7.0		0.02	0.001	0.35	100	280	1.51
Avg.	0.09	3.5	7.4		0.02	0.011	0.78	106	301	1.83
MCL	-	-	-	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-

Finished Water Flow Comparison for FY 2023-24

Time Period	23-24	22-23	21-22
July 2023- June 2024	418,058,521	414,540,554	422,012,750
Increase for the same per	iod last year	3.52 MG	-7.47 MG

		FINISHED WA	TER PUMPINO	G HISTORY		
	2023-24	2022-23	2021-22	2020-21	2019-20	2018-19
July	41,565,811	38,861,790	39,001,640	44,237,066	23,742,374	41,178,722
Aug	39,770,720	36,977,913	39,953,900	39,638,063	25,018,633	35,176,238
Sept	38,677,420	32,355,302	38,935,839	38,674,095	34,234,782	34,754,000
Oct	32,733,224	29,576,287	34,918,955	34,597,739	30,769,238	30,353,482
Nov	30,061,570	35,563,717	31,181,005	32,325,040	30,877,400	30,464,000
Dec	31,818,986	30,450,255	31,391,459	31,582,311	29,703,954	31,930,000
Jan	33,807,516	37,721,005	32,322,270	31,456,987	30,073,516	28,823,375
Feb	29,777,768	33,481,076	32,451,653	30,638,842	28,797,693	28,625,431
Mar	31,222,925	36,781,261	33,909,417	33,633,244	30,339,298	31,237,000
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
Totals	418,058,521	414,540,554	422,012,750	423,546,630	347,187,763	387,466,727
Avg	1.14 MGD	1.14 MGD	1.16 MGD	1.16 MGD	.949 MGD	1.06 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

	ı	Lagoon Eff	luent Results	;		
Date	Fe (mg/l)	Mn (mg/l)	Chloride (mg/l)	Cl ² (mg/l)	pH (S.U.)	TSS (mg/l)
June 11th, 2024						
Minimum	.06	.096	347.2	.01	7.5	<4
Maximum	.06	.096	347.2	.01	7.5	<4
Average	.06	.096	347.2	.01	7.5	<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 June 2024. 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.

Ion exchange alarm

Westech filters comm loss

Power surge

Power Sag

Power Outages

Ion Exchange Brine Pump

Well Comm loss

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

Air Compressor Mounting Platform

SCADA programming

Mower Maintenance

New scada computers

Interconnect Start Up

Well Transducer installation

Train #3 Repair

Well #5 reset

LCRR site plan

Source Water Protection Plan



We received a comm loss alarm from well #5 in the evening. Upon inspection it was found the battery had not charged properly and had to be reset.



When the panel was opened it was found to be extremely hot inside.



Upon closer inspection it was found the cooler has failed. Steps are being taken to remedy the issue.





SSWC, Petersburg Plumbing, scadaWARE and Benton and Associates attempted the start up procedure for the new interconnect again The last time a startup was attempted was the first time power was put to the valve so debugging was required. This attempt at startup we were actually able to actuate the valve and move water. Startup was not completed due to pressure sensors that came from the factory defective.



South Sangamon had an inquiry about the possibility of providing water to a residence on Country Trail south of Rochester off of Cardinal Hill Rd.



4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of June 2024, there were 30 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

Air Compressor service

Raw water line flushing

Detention tank flush

Flushing Air Lines

Maintenance of New Berlin Booster Station

Meter Transmitter Replacement

Air compressor Maintenance

Pneumatic Tank Maintenance

Train #3 Repair

Transducer Install

Tractor Warranty Repair Delivery



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 June 2024.

- Kevin Canham
- Stephen Bivin
- Katie Krall
- Dan (SCADAware)
- Joe Lee Electric
- Kevin Garmin (SCADAware)



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. Awaiting first pigging before completely releasing contractor.

The Chatham /South Sangamon emergency interconnect construction is mostly complete. The valve has arrived and has been installed. Multiple startups have been attempted. Due to various issues start up has not been completed. A new startup date is being planned.

Meter Project progressing, All meter bases and registers are on site. 31 cell meters have been installed.

Meco Engineering has provided us with initial plans for well #11. Well #11 construction permit has been approved and has been received at the plant. Flood Plain Permit has been received and is posted. MECO Engineering has been on site and sample wells have been drilled.

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 has been completed
- 3. Second raw water detention tank
- 4. SSWC/Chatham interconnect
- 5. Well #11

Pumping Totals Pump	Lagoon HS Efflent Pumpage Pumpage Pumpage (Mgal) (Mgal) (Mgal) (1217 0.086 1,237 0.089 1,404 0.089 1,110 0.073 0,506 0.101 1,285 0.096 1,285 0.096 1,285 0.097 1,171 0.091	Sodii Permang Am't Used Ibs.			Š	South Sangamon Water Commission - IL 1670080	mon W	ater Corr	mission	- IL 1670(80				-						
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Total 576.2 51.356 45.526 0.479	42.952	2.908 545 #DIW0I	0	#DIW0! 126	12692 #DIV/0!	1594 #DIW0!	1162	#DIW0i	808 #DIW0!	0 #D	#DIV\01			2.3	2.520 29.756	15.770		708	723	699 20	203009 965650
1.712 1.518	1.432	18.2	0	#DIW0! 4		53 #DIVI01	38.7	#DIW0i	26.9 #DIW0!	0:0 #DI			99'0	#DIW0! 0.0					28.9	30.4 676	6766.97 32188.
1.821	1.737		0	#DIW0! 5		79 #DIVI0!		#DIM0!	84 #DIW0!	0 #DI	#DIV/0! 0.66		99'0 9	0 0,	0.650 1.190		1 42.0		39.0	66.0	9,124 43,400
Min 14.4 1.244 1.196 0.009	0.996	0.064 11.0 #DIW0!	0 100	#DIW0! 2	246 #DIV/0!	19 #DIV/0!	1 20	#DIM/0i	5 #DIW0!	0 #D	#DIV/0! 0.66	99.0		0 00	0.045 0.782	.82 0.000		28.0	22.0		2281 10850
1 20 % Sortium Permanganata	Pre-aerathr	2	CHI ORINATION				HIORIDATION	NOIL			\parallel	Contifue	optify that the information in this reportis complete	on in this re-	ortis como	qiq					
% BisulfteSolution	Membrane Backwash						ב ב	5				andacci	and accurate to the best of my knowledge	of my knowl	edge.	D					
% Sodium Hypochlorite Solution	Post Softener	Type o	Type of Chlorine Used		Sodium Hypochlorie 12.5 %	e 12.5 %	Type of FIL	Type of Fluoride Used	Hydrofluos	Hydroffuosificic Acid 19%	ш.	Reported by	d by:			Illinois 0	Ilinois Operator Certification	ification II	253419999	66	
4 20 % Ammonium Sulfate Solution 5 10 % Fluoresilisis Asid Solution	Post Softener	Chloris	all anapyleuf at	Chloring Analyzers Head: Hach Cl 17 (9) & 55(1) 6.5	7 (2) & 5500e		Fluorido år	Jahran I lead: 1	Flindide Analyzer I lead: Hach 2200 SP ADNS mathod	NONS method		Date:	7/3	/2024	+					ł	
33 % Phosphate Solution	Post Clearwell	5	o storal years	2000	(z) x 22000		2	alyzol Oscar	10,00			Date Bacterials	cterials Ser		6/24/2024						+
% Bis ulfiteSolution	Lagoon Effluent	t																		_	

South Sangamon Water Commission - IL1670080 June 2024	South Sangaribhi Water Collinission - IL 107 June 2024	South Sangamon Water Commission - IL167 June 2024	South Sangamon Water Commission - IL167 June 2024	South Sangamon Water Commission - IL 167 June 2024	South Sangamon Water Commission - IL167 June 2024	uth Sangamon Water Commission - IL167 June 2024	angamon Water Commission - IL167 June 2024	Imon Water Commission - IL167 June 2024	Water Commission - IL167 June 2024	er Commission - IL167 ne 2024	mmission - IL167 024	sion - IL167	-IL167		8	-		-														
									Н	Н													\sqcup	\vdash								Page 2 of 2
													hysica	al and	Cher	Physical and Chemical Tests	sts														Membrane Integrity	ane In
		re UF Membrane	re UF Membrane					ا <u>بر</u>	년	Post UF Membrane	e .	-	Post EX	₩.	-	ľ				į				F	H	ŀ					٣	Post Filter
Mn Mn Fe	Mn Mn Fe	Mh Mh Fe	Fe Mn Mn Fe	Mn Mn Fe	Soluble lotal	Soluble lotal	Fe lota	_	ુ∣≥	M M	(Includity	-	2 3 Chloride	ո թ	<u> </u>	= 동	npiquì	Joba Ak	Hard.	- Ba	oga W ⊸	Fluoride	ide Ormo Phosphat	(0)	Ammonia Chi	Mono- Chloramine	L	Chlorine	ine Distrbution	fion		
mg/L mg/L mg/L	mg/L mg/L mg/L	. mg/L mg/L mg/L	mg/L mg/L mg/L	mg/L mg/L mg/L	mg/L mg/L	mg/L mg/L	mg/L	_	Ĕ		EN I	mg/L m	mg/L mg/L	m √gr	mg/L	Н	Ę	mg/L	mg/L	mg/L		mg/L		_ پ	l/gm		u l/gm	mg/L	<u></u>	_	~	Bank 2
0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.03	- 1	10		0.00	\dagger	+	+	+	7 40	0.20	300	as CaCU3	000	2 0.013		0.70	174	0.01		0.40	3.72	mg/l	mg/L	lsd.	bs
0.02	0.028 0.02	0.028 0.02	0.028 0.02	0.028 0.02	0.028 0.02	0.028 0.02	0.02		, 10		0.22				+	7.40	0.18	300						1.68	0.01		0.10	3.84				
0.032 0.03	0.032 0.03	0.032 0.03	0.032 0.03	0.032 0.03	0.032 0.03	0.032 0.03	0.03		0		0.32				H	7.50	0.20	300		0.03			0.75	1.65	20:0		0.11	4.02			pass	pass
0.061 0.03	0.061 0.03	0.061 0.03	0.061 0.03	0.061 0.03	0.061 0.03	0.061 0.03	0.03				0.25	H		H	H	7.50	0.18	300					1.09	1.77	0.10		0.10	3.80				
0.050 0.03	0.050 0.03	0.050 0.03	0.050 0.03	0.050 0.03	0.050 0.03	0.050 0.03	0.03		\circ		0.27	\dagger	\dashv	$^{+}$	+	7.50	0.20	300					0.79	1.76	90:0		0.07	3.62				
0.283 0.028 0.03 0.022	0.028 0.03	0.028 0.03	0.028 0.03	0.028 0.03	0.028 0.03	0.028 0.03	0.03		2 5		0.30	\dagger	+	+	+	7 00	0.22	302	104	0.02	3 0.008		103	1.07	1 14		0.00	3. 6.				
0.030 0.02	0.030 0.02	0.030 0.02	0.030 0.02	0.030 0.02	0.030 0.02	0.030 0.02	0.02		039		0.24	t	1		+	7.10	0.18	300					0.97	181	1.04		90.0	3.49				
0.047 0.02	0.047 0.02	0.047 0.02	0.047 0.02	0.047 0.02	0.047 0.02	0.047 0.02	0.02		.036	l	0.27	H				7.10	0.19	306					0.84	1.88	1.10		0.07	3.62				
0.044 0.03	0.044 0.03	0.044 0.03	0.044 0.03	0.044 0.03	0.044 0.03	0.044 0.03	0.03		.056		0.18					7.60	0.19	300					0.71	1.80	0.01		0.11	3.72				
0.040 0.03	0.040 0.03	0.040 0.03	0.040 0.03	0.040 0.03	0.040 0.03	0.040 0.03	0.03		.029		0.23					7.40	0.18	310					0.79	1.51	0.11		0.11	3.04				
0.030 0.03	0.030 0.03	0.030 0.03	0.030 0.03	0.030 0.03	0.030 0.03	0.030 0.03	0.03		.024	- 1	0.19	\dagger	\dashv	†	+	7.50	0.15	300						1.75	0.02		0.09	3.28				
0.019 0.02	0.019 0.02	0.019 0.02	0.019 0.02	0.019 0.02	0.019 0.02	0.019 0.02	0.02		30.50		0.20	t			+	7.00	0.24	302						1.79	0.04		0.10	3.22	t		0000	9
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.02		2000		07:0	t	$^{+}$	+	+	7 60	0.25	300	110	0.02	3 0003			182	105		0.09	3.42			pass	SSP
	0.038 0.03	0.038 0.03	0.038 0.03	0.038 0.03	0.038 0.03	0.038 0.03	0.03		033		0.3 St. 0	t	-	+	╁	7.60	070	300			-		0.59	1,92	0.93		0.16	3.38				
0.047 0.03	0.047 0.03	0.047 0.03	0.047 0.03	0.047 0.03	0.047 0.03	0.047 0.03	0.03		.032	1	0.26					7.50	0.22	300	110	0.02	2 0.021		0.88	1.83	0.93		0.10	3.42				
0.031 0.03	0.031 0.03	0.031 0.03	0.031 0.03	0.031 0.03	0.031 0.03	0.031 0.03	0.03		.024	i I	0.28					7.60	0.20	300					99:0	1.79	1.16		0.13	3.60				
0.028 0.02	0.028 0.02	0.028 0.02	0.028 0.02	0.028 0.02	0.028 0.02	0.028 0.02	0.02		1017		0.22	t		+	4	7.60	0.18	310					0.71	1.61	1.01		0.11	3.46				
	0.018 0.03	0.018 0.03	0.018 0.03	0.018 0.03	0.018 0.03	0.018 0.03	0.03		20.02		0.17	t			+	7.30	0.16	306	104	0.03	3 0.006		0.38	1.74	99:		0.07	3.41				
	0.021 0.03	0.021 0.03	0.021 0.03	0.021 0.03	0.021 0.03	0.021 0.03	0:03		021	1	0.21	t	-	+	╁	7.30	0.18	306						1.77	1.42		60.0	3.55				
0.274 0.020 0.03 0.027	0.020 0.03	0.020 0.03	0.020 0.03	0.020 0.03	0.020 0.03	0.020 0.03	0.03		.027	1	0.18					7.30	0.18	302		0.02	2 0.009		0.89	1.69	1.26		0.01	3.44				
0.052 0.03	0.052 0.03	0.052 0.03	0.052 0.03	0.052 0.03	0.052 0.03	0.052 0.03	0.03		.052		0.23					7.60	0.18	280					0.99	3.09	0.12		0.10	3.38				
0.057 0.02	0.057 0.02	0.057 0.02	0.057 0.02	0.057 0.02	0.057 0.02	0.057 0.02	0.02		.053		0.22					7.40	0.20	280					0.75	2.09	0.84		90:0	3.16				
0.064 0.02	0.064 0.02	0.064 0.02	0.064 0.02	0.064 0.02	0.064 0.02	0.064 0.02	0.02		8 8		0.25	†			+	7.50	0.23	300					99.0	1.73	0.99		0.05	3.30				
0.090 0.01	0.090 0.01	0.090 0.01	0.090 0.01	0.090 0.01	0.090 0.01	0.090 0.01	0.00	- 1	8 8		3.0	\dagger		+	+	7.40	0.20	300			2 0.010		1,10	171	130		70.0	37.50	t		nase	Sac
0.255 0.048 0.02 0.040	0.048 0.02	0.048 0.02	0.048 0.02	0.048 0.02	0.048 0.02	0.048 0.02	0.02		040		0.26	t	1		+	7.40	070	300	110	0.02			0.72	1.89	1.10		0.07	3.68				Ĺ
0.263 0.055 0.03 0.044	0.055 0.03	0.055 0.03	0.055 0.03	0.055 0.03	0.055 0.03	0.055 0.03	0.03		44	1 1	0.23				\vdash	7.40	0.18	310	120	0.03	3 0.021		0.69	1.94	1.33		90:08	3.70				
0.272 0.040 0.03	0.272 0.040 0.03	0.040 0.03	#DN/0! 0.272 0.040 0.03	0.272 0.040 0.03	0.272 0.040 0.03	0.040 0.03	0.03		.035		0.24 #	##########	##	####	####	7.41	0.19	301		0.02	2 0.011		0.78	1.83	0.71	#DIVIOI	0.09	3.50	#DIV/0i	#DIW0!	#DIV/01	#DIW0!
0.378 0.090	0.378 0.090 0.03	0.00 0.378 0.090 0.03	0.00 0.378 0.090 0.03	0.378 0.090 0.03	0.378 0.090 0.03	0.090 0.03	0.03		990		0.34	0	0	0	0	7.60	0.25	310	120					3.09	1.68	000	0.16		0.00	0.00		0.00
0.221 0.018 0.01	0.221 0.018 0.01	0.00 0.221 0.018 0.01	0.00 0.221 0.018 0.01	0.221 0.018 0.01	0.221 0.018 0.01	0.018 0.01	10.0		=		0.17	0	0	0	-	7.00	0.15	280						151	10:0	000	10.0	3.00	000	00'0	00'0	0.00
Chloride TSC	Chloride TSC	OCO CANANA TO	SOT Abirida	Chloride TSC	Jee Jee	Jee Jee	200					1	,	,	ž	noi#in-	C.o.hillip	Tacto	7	F	_		رادر ر	_	_		. orko	3	2		-	1
Chloinde mg/L	Chloinde	Chloinde mg/L	mg/l mg/L	Chloinde						+					E E	Distribution Stability Lests Every Two Weeks	Stability	/ lests	됩	d ပ			Alkalinity Calcium mg/L as CaCO3	_	Chloride S	Sulfate mg/L	Kemarks:					
347.2 <	347.2 <	6 0.06 347.2	0.06 347.2	347.2 <	347.2	×		H		H			H		_	Date	6/11/2024	2024	7.14			0	780		32	⇔						
								ŀ		H		H	H	H	٢	Date					Ļ	Ļ		H		Γ						
								+		+	+	+	+	+	5	nate					_	4		+	+	Ī						

