









SSWC

Monthly Operating Report

August:2024

So. Sangamon
Water Commission
September 16th, 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 August 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 <a href="www.sswc.us">www.sswc.us</a>

During the month of August 2024, the plant pumped 48.109 million gallons from the well field and 44.058 million gallons of finished water. This is 1.2 million gallons less than August 2023.

The SSWC plant has been removed from Critical Review status.

**Operations.** There was 0 emergency call-outs for the month. There were numerous customer inquiry for the month.

**Maintenance and Repair.** For the month of August 2024, there were 31 inspections, 3 preventative and multiple corrective maintenance activity completed. There was 1 repair activities performed.

**Budget.** Passed at May 20<sup>th</sup> 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 August 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 August. 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 48.109 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.	7.74	17.3	3.01	.232	-	362	320	1.851
Min.	6.9	14.3	.41	.099	-	348	280	1.424
Avg.	7.15	15.6	.72	.181	-	355	302	1.604
Total	-	-	-	-	-	-	-	48.109

#### 2.3 EFFLUENT CONCENTRATIONS

The facility filtered 44.058~MG during the month with a daily average of 1.421~MG and a  $min/max\ 1.256/\ 1.659\ MG$ .

				Table	2.3 Fir	nished Wat	er Qualit	у		
	Free CL2	Total CL2	рН	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	0.90	3.64	7.9		0.06	0.071	.99	300	320	2.39
Min.	0.05	2.54	7.2		0.02	0.003	0.45	100	272	.09
Avg.	0.14	3.10	7.5		0.02	0.025	0.74	127	297	1.86
MCL	-	ı	ı	-	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
Sep 2023- Aug 2024	414,242,416	420,037,382	418,896,913
Increase for the same per	iod last year	-5.79 MG	1.14 MG

		FINISHED WA	TER PUMPIN	G HISTORY		
	2023-24	2022-23	2021-22	2020-21	2019-20	2018-19
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
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
Totals	414,242,416	420,037,382	418,896,913	418,627,041	382,301,885	359,872,774
Avg	1.13 MGD	1.15 MGD	1.15 MGD	1.15 MGD	1.05 MGD	.986 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** 

	L	_agoon Eff	luent Results	;		
Date	Fe (mg/l)	Mn (mg/l)	Chloride (mg/l)	Cl <sup>2</sup> (mg/l)	pH (S.U.)	TSS (mg/l)
Aug 26th, 2024						
Minimum	.05	.117	420.8	.03	7.3	22
Maximum	.05	.117	420.8	.03	7.3	22
Average	.05	.117	420.8	.03	7.3	22
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 August 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 0 emergency call out for the month.

#### 3.4 CUSTOMER INQUIRIE

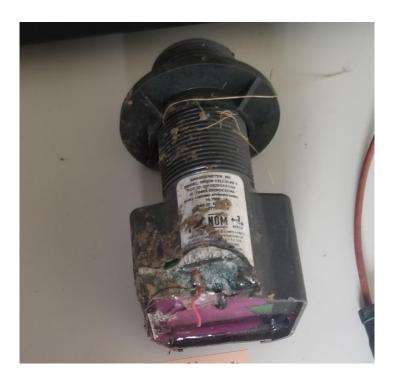
There were numerous customer inquiries.

#### 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
Source Water Protection Plan
Well #11 drilling
Train #2 repair



Pump #3 with the bad impellar was pulled and sent to Bodine services to be evaluated and possibly repaired. We are currently awaiting an evaluation and possible repair quote.



Staff went out to verify programming and flow settings on installed registers and endpoints. This "newly" installed was found to be damaged and had to be replaced



Brotke setting up to begin drilling well #11



New screen and media on site



Brotke setting the screen in place for well #11



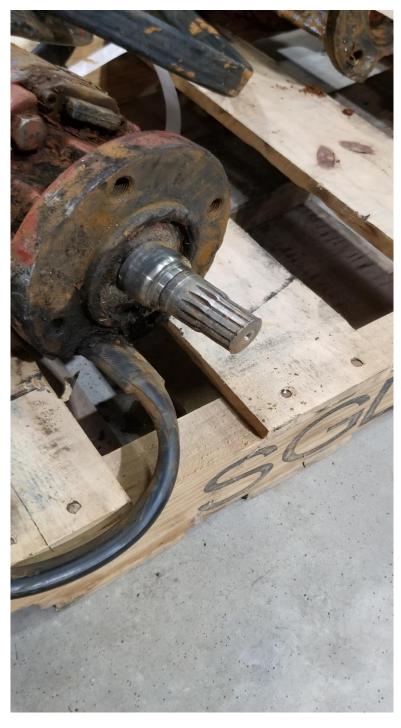
Leveling and centering the screen.



Once the screen was level and centered Brotke staff began installing the well media.



Well 6 went offline We had a pump and motor on the shelf for just this emergency. Fortunately Brotke was already here drilling well 11 and we were able to get them to pull well 6 and replace the pump and motor.



Upon inspection the spines on the shaft of the motor have been damaged. We will investigate to see if the pump can be salvaged.

## 4. MAINTENANCE AND REPAIR

#### 4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of August 2024, 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

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

**Pump Diagnostics** 

Well Maintenance

Well #6 pump and motor replacement



## 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 August 2024.

- 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. 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

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Date	pH Temp		_			-	æ	$\rightarrow$	W	æ	Æ		Chi		둅		Alk.	Hard.	æ			유	.00	9	-	_	Distrbution			
	6e0	deg.C mg/L	g/L mg/L	mg/L	- mg/L	Ē	mg/L	mg/L	mg/L	mg/L	mg/L	Ē	mg/L mg/L	mg/L mg/L mg/L	۰	Ē	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	l/gm	mg/l	mg/l mg/L	_		Bank 1	Bank 2	Bank 3
-	7.30	14.3	310 362		1.73 0.181	Ļ	1	0.238	3 0.054	0.03	0.052	0.15			7.40	0.32	308		0.02	0.053	0.88	2.11	0.02	2.84	0.13	3.24 mg/l	J. III D. II	3.	ls/	3
+						. 00		0.22	-		0.050	0.13	-		7.20		300	130	0.00	0.020	0.91	2.13	0.01			308		Dass	pass	Dass
+						_		0.211			0.041	01.0			7.30		300	110	0.02	0.019	0.89	5.06	0.01			3.11				
4	7.18					6	Ц	0.291	1 1		0.067	0.40			7.50		240	100	0.03	0.019	0.73	2.06	0.16		0.13	3.02				
2 2	7.74				0.41 0.171	_		0.278	3 0.065		0.072	0.62			7.85		270	100	0.01	0.015	99.0	1.90	0.01			3.12				
$\dashv$						0		0.238			0.065	0.18			7.80		230	100	0.01	0.017	0.72	1.87	0.03			3.48				
+						0		0.318			0.028	0.23			7.80			110	0.0	0.001	0.78	1:30	0.03			2.82		_		
-+						- C2	$\downarrow$	0.298			0.032	020			7.60		300	110	0.01	0.012	0.72	<u>8</u> . 5	0.02			2.98				
_						7 0	$\downarrow$	0.303	0.047		0.045	0.25			78.7		310	110	0.0	0.018	76:0	2.01	10.0			2.74				
_	7 40	15.5 30	300 350		0.53 0.213	20 4	$\downarrow$	697'0		0.01	0.048	970			77.7	0.24	340	m ş	0.0	0.010	68.0	/8:1	0.01	507	0.15	3.22				
= \$						- 1	1	0.244		╙	0.000	0.70			7.40		300	100	0:0	0.020	0.80	76.1	0.01			3.12				
+							$\downarrow$	0.243			0.00	0.20			7.40		000	3 5	0.0	0.013	000	96.	0.0			4.7 5.04	-			
5 4	7.00					- 0	$\downarrow$	0.300			0.000	0.0			7.40		790	3 (2	0.0	0.010	08.0	2 00	0.00			2.76				
+					- 1	> 66		0000			0.00	0.25	-		7.80		002	3 5	5 6	0.00	0.00	32,4	100			2 8	_			
+						2 10	$\perp$	0.276			0.071	0.11			7.30		292	3 (0	0.0	0.024	0.81	1.88	0.01			2.76		pass	pass	pass
+						7		0.295			0.067	0.14			7.30			104	0.0	0.020	0.74	192	0.01	1.97		2.79				
+-			300 352			-		0.318			0.074	0.20			7.20		300	100	0.01	0.022	0.74	1.7	0.01			2.82				
19 7					59 0.199	6		0.36	0.066		0.070	0.28			7.60			100	0.01	0.033	0.71	2.16	90.0			2.86				
$\vdash$						2		0.262			0.080	0.25			7.40		300	120	0.01	0.013	1.00	2.18	0.05			2.58				
$\rightarrow$					- 1	8		0.237			990:0	0.22			7.50			120	0.01	0.026	0.80	2.18	0.01			3.84				
$\rightarrow$						4	$\downarrow$	0.234			0.079	0.20			7.30			130	0.01	0.029	0.91	5.09	0.02			3.77				
23	6.90	15.3 30	300 350		0.68 0.174	4 0	$\downarrow$	0.497	7 0.091	0.01	0.088	022	+		7.30	0.19		130	0.0	0.038	0.82	2.19	90.0	333	0.14	3.66	_	_		
_						0 0		0.361		1	0.070	0.28			7.60		300	100	0.0	0.033	0.71	2.16	0.05			2.86				
-			300 360		0.46 0.182	2		0.284			0.000	0.28			7.40	0.25	300	220	0.01	0.074	0.95	2.07	10.0		0.14	3.30				
ш						4		0.26			0.077	0.25			7.70		300	100	0.01	0.029	0.41	2.09	0.02			2.82				
-						9		0.288			0.071	0.27			7.50		300	140	0.01	0.035	0.26	2.06	0.02			3.18				
_						7		0.256			0.062	0.25			7.50		300	100	0.01	0.026	0.74	2.10	0.01			2.94				
30 20	7 30 7	15.6 300	300 355		0.64 0.188	∞ l=	$\perp$	0.274	0.053	0.01	0.052	0.28			7.40	27.0	300	9 \$	D:0	0.022	0.49	202	0.02	330	0.14	3.80		9960	bass	pass
+											0.00	170					010	5 5	0.0	120.0	170	10.7	10:0						0	4
_	Cl./	15.6 30	302 355		204 0.787	1 #DIVU:	#DIWU!	0.230	0.005	0.0	0.063	0.24	#####	##### #####	1.50	0.22	/RZ	811	5.0	0.024	7.0	2.01	0.02	2.65	0.00	- 1	Ħ	#	#	#DIWU:
Min			280 348								0.030	0.10	0 0	0 0			240	100	0.00	0.074	0.26	1.76	01.10			254	000	0.00 0.00	0.00	000
_	you Effuc	ests	٩	ř	_			ਠ	1.						Distribut	5	y Tests	돕	Temp		Alkalinity Calcium	_		Sulfate Rem						
2	Monthly						l/gm		mg						Every TM	Every Two Weeks			°°		mg/L as CaCO3	_								
ă	Date 8	8/26/2024	7.3	3 23.4	.4 0.03	3 0.117		5 420.8							Date	8/27/	8/27/2024	7.69	16.9	460	280		40	25						
	$\dashv$	+	4	4	4	4	_	_			$\uparrow$	7	+		Date		$\dagger$	7	$\uparrow$			+	_	1						
	-	-			_								_		Date		1	1	٦			1	_	+						7