









SSWC

Monthly Operating Report

July:2024

So. Sangamon
Water Commission
August 19th, 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 July 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 July 2024, the plant pumped 50.182 million gallons from the well field and 44.721 million gallons of finished water. This is 1.4 million gallons less than July 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 July 2024, there were 31 inspections, 3 preventative and multiple corrective maintenance activity completed. There was 0 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 July 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 July. 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 50.182 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.	7.6	17.1	2.02	.198	-	365	320	2.022
Min.	6.8	14.4	.06	.140	-	312	270	1.266
Avg.	7.05	15.3	.72	.180	-	356	298	1.619
Total	-	1	-	-	-	-	-	50.182

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 44.721~MG during the month with a daily average of 1.443~MG and a $min/max\ 1.204/\ 1.798\ MG$.

				Table	2.3 Fir	nished Wat	er Qualit	у		
	Free CL2	Total CL2	рН	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	0.20	3.84	7.7		0.06	0.071	.99	300	320	2.39
Min.	0.06	2.50	7.0		0.02	0.003	0.45	100	272	.09
Avg.	0.11	3.22	7.4		0.02	0.025	0.74	127	297	1.86
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
Aug 2023- July 2024	415,436,852	417,244,575	421,872,900
Increase for the same per	iod last year	-1.81 MG	-4.63 MG

		FINISHED WA	TER PUMPIN	G HISTORY		
	2023-24	2022-23	2021-22	2020-21	2019-20	2018-19
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
July	38,944,142	41,565,811	38,861,790	39,001,640	44,237,066	23,742,374
Totals	415,436,852	417,244,575	421,872,900	418,311,204	367,682,455	370,030,379
Avg	1.14 MGD	1.14 MGD	1.16 MGD	1.15 MGD	1.01 MGD	1.01 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

	I	_agoon Eff	luent Results	;		
Date	Fe (mg/l)	Mn (mg/l)	Chloride (mg/l)	Cl ² (mg/l)	pH (S.U.)	TSS (mg/l)
July 22nd, 2024						
Minimum	.04	.148	317.6	.02	7.5	8.8
Maximum	.04	.148	317.6	.02	7.5	8.8
Average	.04	.148	317.6	.02	7.5	8.8
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 July 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
Train #3 Repair
Source Water Protection Plan



Staff was finally able to order chairs for the conference room



One of the chairs has been assembled for the board members to inspect for their approval before assembling the remaining conference room chairs



One day staff noticed the flow from the plant had decreased. As staff went to assess the situation, it was noticed that pump 3 had a violent shake to it.



Plant staff began disassembling the pump to see if a diagnosis could be made



Once the pump casing was opened up it was found that the impeller had degraded and pieces of the impeller had worn out and broken off. Bodine of Decatur will be to the plant to pick up the pump and install a new impeller.

4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of July 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



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 July 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

											Sout	h San	gamo	n Wate	er Com	South Sangamon Water Commission - IL1670080	-IL167	0800											
-									-					3	July 2024	4													<u> </u>
											-	Phys	calan	Chem	Physical and Chemical Tests													Page 2 of 2 Membrane Integrity	Page 2 of 2
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29 7:00		1.412 1.266			0.103	16	0.27	0	00.0			0.13				0	00.0			0.66	090'0	0.827	0.439	35.0	34.0	31.0		43400	8
30 7:00	17.8 1.5	1.516 1.463		1238	0.064	9	60.0	0		312 320	10	0.16	28 0	0.52	6 0.19	0	00.0			99:0	0.053	0.956	0.507			33.0	2281	10850	ß
31 7:00	15.4 1.3	1.349 1.204	4 0.008	1.115	0.091	0	0.00	0	0.00	316 3.93	- 1	96.0	14 0	0.29	3 0.11	0	0.00	99.0	0.66	99:0	0.048	0.787	0.417	41.0	37.0	_	28.0 9124	43400	8
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¥ i					0.058	0.0	000	, 0			2 67	90'0				, 0	000			0.66	0.032	0.787	0.417	30.0					820
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	% Sodium Permanganate	nanganate		Post-aerator	tor		CHLORINATION	Z	\parallel			교	F.UORIDATION					loer	ify that the i	certify that the information in this report is complete	this reporti	s complete							П
3 12.5%	% Sodium Hypochlorite Solution	non ochlorite Solu	noti	Nembrane ba PostSoftener	Membrane Backwash PostSoftener		Type of Chlorine Used	ne Used	Sodiun	Sodium Hypochlorile 12.5 %	9 12.5 %	ž	Type of Fluoride Used	e Used	Hydroffuo	Hydrofluosilicic Acid 19%	9% F	Rep and	accurate to orted by:	and accurate to the best of myknowledge. Reported by:	yknowledg		nois Opera	Illinois Operator Certification II		253419999			
20	% Ammonium Sulfate Solution	Sulfate Soluti.	ion	PostClearwell	well	ē				- 0				_	-	-	١,	Date		8/12/202	4					H			
6 33 %	% Huorosilior Acid Solution % Phosphate Solution	Acid Solution.	_	PostClearwell PostClearwell	well	5	Offine Anaily	yzers Usea.	Hach	Chlorine Analyzers Used: Hach CL17 (2) & 5500sc	0	2	oride Anaryz	er Used: na	Fluoride Analyzer Used: Hach 2200, SPADNS method	AUNS merr	B	Date	Date Bacterials Ser	Ser						+	+	ļ	\top
40	40 % Bisulfite Solution	tion		Lagoon Effluent	fluent		\parallel	\parallel				\forall	\parallel					H											П

