Monthly Operating Report

February:2024

So. Sangamon Water Commission

March 18th, 2024

SSWC

9199 Buckhart Rd Rochester IL 62563

TABLE OF CONTENTS

LIST OF TABLES

TABLE **PAGE NO.**

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 February 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 February 2024, the plant pumped 39.085 million gallons from the well field and 34.536 million gallons of finished water. This is 3.2 million gallons less than February 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 February 2024, there were 29 inspections, 3 preventative and multiple corrective maintenance activity completed. There was 2 repair activities performed .

Budget. Passed at April 17th 2023 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 February 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 February. 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 39.085 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.	7.2	15.2	4.32	.363	-	380	320	1.531
Min.	6.8	12.9	.21	.123	-	340	300	1.135
Avg.	7.0	13.7	.87	.196	-	358	308	1.348
Total	-	-	-	-	-	-	-	39.085

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 32.098 MG during the month with a daily average of 1.191 MG and a min/max .982/ 1.342 MG.

Table 2.3 Finished Water Quality

	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	0.14	3.78	7.8		0.02	0.048	1.03	130	322	1.82
Min.	0.04	2.98	7.2		0.01	0.001	0.55	100	202	1.52
Avg.	0.08	3.47	7.5		0.01	0.018	0.76	111	300	1.71
MCL	-	-	-	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-

Finished Water Flow Comparison for FY 2022-23

Time Period	23-24	22-23	21-22
Mar 2023- Feb 2024	417,766,224	416,843,374	420,553,208
Increase for the same period last year		.923 MG	-3.7 MG

FINISHED WATER PUMPING HISTORY

	2023-24	2022-23	2021-22	2020-21	2019-20	2018-19
Mar	36,781,261	33,909,417	33,633,244	30,339,298	31,237,000	28,217,699
Apr	36,832,617	31,991,050	33,214,211	31,542,650	28,418,249	27,110,578
May	43,484,155	37,459,417	35,932,776	34,673,848	33,045,927	33,304,196
June	22,455,176	38,496,145	37,616,256	17,414,377	33,460,303	34,040,000
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
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Totals	417,766,224	416,843,374	420,553,208	397,120,316	359,379,069	383,977,721
Avg	1.14 MGD	1.14 MGD	1.15 MGD	1.09 MGD	.982 MGD	1.05 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)**
February 27th, 2024						
Minimum	.15	.384	440.3	.01	7.6	6.4
Maximum	.15	.384	440.3	.01	7.6	6.4
Average	.15	.384	440.3	.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 February 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

Backwash Low Flow alarms

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
Tractor Maintenance
New scada computers
Well Cleanings
Well Pump Cleaning

After cleaning, well 1 water main was back flushed before being put back online.

Well #7 was backflushed before being put back on line

Brotke pulling well #5 before starting the clean.

When well #1 was cleaned the pump was so clogged with iron that it wouldn't pump. The pump was replaced with a new pump and the clogged pump was brought to the plant where it was cleaned by the plant staff.

Over the last few months we have noticed the plant outfall began washing out. Once the weather has cleared up staff plans on addressing the issue.

4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of February 2024, there were 29 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 Repair

Pneumatic Tank Repair

Well #1 comm loss repair

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 February 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. Petersburg Plumbing is waiting on the valve to arrive. Once the valve is on site SCADAware can begin the programming.

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.

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

South Sangamon Water Commission

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY — MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT

DIVISION OF PUBLIC WATER SUPPLIES

South Sangamon Water Commission - IL 1670080

February 2024

		Pumping Totals						Chemicals Applied														UF Filters					Softeners							
			Raw				Lagoon	Sodium Permanganate		Sodium Bisulfite BW		Sodium Hypochlorite		Ammonium Sulfate		Fluorosilicic Acid		Phosphate		Sodium Bisulfite Pond		Hours since previous backwash				Wash	Water	Water	Each day indicate total number of				Regeneration	
	Time	Hours	Well	UF	Plant	HS	Effluent	Am't		Am't		Am't		Am't		Am't		Am't		Am't						Water	Softened	Bypassed	hours since previous regeneration.				Salt	Washed
Date	Meter	Filter	Prod.	Filtered	Water	Pumpage	Pumpage	Used	Calc	Used	Calc	Used	Calc	Used	Calc	Used	Calc	Used	Calc	Used	Calc					Gal.	Gal.	Gal	If regeneration at mid-day, indicate				Used	Water
	Read	Ran	(Mgal)	(Mgal)	(Mgal)	(Mgal)	(Mgal)	lbs.	mg/l as NaMnO4	lbs.	mg/l	lbs.	mg/l as Cl	lbs.	mg/l as NH3	lbs.	mg/l as F	lbs.	mg/l as PO4	lbs.	mg/l	Bank # 1	Bank # 2	Bank # 3		(Mgal)	(Mgal)	(Mgal)	hours previous/hours following. 1	2	3	4	lbs.	Gal.
1	7:00	18.7	1.487	1.325	0.019	1.230	0.059	15	0.24	0	0.00	370	4.19	15	0.27	33	0.61	4	0.13	0	0.00	0.66	0.66	0.66		0.059	0.866	0.459					0	
2	7:00	18.0	1.374	1.232	0.000	1.133	0.109	13	0.23	0	0.00	276	3.36	10	0.19	27	0.54	4	0.14	0	0.00	0.66	0.66	0.66		0.066	0.805	0.427	38.0	37.0	46.0	37.0	9124	43400
3	7:00	16.3	1.265	1.125	0.019	1.055	0.083	14	0.27	0	0.00	262	3.49	14	0.30	28	0.60	5	0.19	0	0.00	0.66	0.66	0.66		0.050	0.735	0.390	41.0	32.0		33.0	6843	32550
4	7:00	16.6	1.326	1.163	0.015	1.122	0.066	15	0.27	0	0.00	291	3.75	16	0.33	31	0.63	5	0.18	0	0.00	0.66	0.66	0.66		0.055	0.760	0.403			46.0		2281	10850
5	7:00	18.2	1.455	1.311	0.008	1.203	0.106	15	0.25	0	0.00	390	4.46	16	0.29	33	0.62	6	0.20	0	0.00	0.66	0.66	0.66		0.063	0.857	0.454	39.0	30.0	30.0	35.0	9124	43400
6	7:00	19.2	1.531	1.330	0.017	1.235	0.096	14	0.22	0	0.00	320	3.61	15	0.27	30	0.55	6	0.19	0	0.00	0.66	0.66	0.66		0.063	0.869	0.461	36.0	33.0		30.0	6843	32550
7	7:00	16.3	1.299	1.164	0.015	1.086	0.088	14	0.26	0	0.00	271	3.49	16	0.33	30	0.63	7	0.26	0	0.00	0.66	0.66	0.66		0.055	0.761	0.403		31.0	38.0	29.0	6843	32550
8	7:00	17.6	1.370	1.215	0.015	1.123	0.080	13	0.23	0	0.00	118	1.46	12	0.24	28	0.57	7	0.25	0	0.00	0.66	0.66	0.66		0.058	0.794	0.421	42.0		37.0		4562	21700
9	7:00	15.3	1.174	1.033	0.010	0.958	0.068	13	0.27	0	0.00	298	4.32	13	0.30	28	0.67	8	0.33	0	0.00	0.66	0.66	0.66		0.046	0.675	0.358		33.0		36.0	4562	21700
10	7:00	17.7	1.365	1.209	0.010	1.111	0.082	16	0.28	0	0.00	368	4.56	16	0.32	34	0.70	12	0.43	0	0.00	0.66	0.66	0.66		0.060	0.790	0.419	40.0		39.0		4562	21700
11	7:00	17.3	1.344	1.174	0.010	1.095	0.090	12	0.21	0	0.00	280	3.57	12	0.25	26	0.54	10	0.36	0	0.00	0.66	0.66	0.66		0.057	0.767	0.407	35.0	48.0		48.0	6843	32550
12	7:00	15.9	1.243	1.109	0.012	1.075	0.083	14	0.27	0	0.00	326	4.41	14	0.30	31	0.66	30	1.10	0	0.00	0.66	0.66	0.66		0.050	0.725	0.384		35.0	35.0	29.0	6843	32550
13	7:00	19.7	1.480	1.342	0.016	1.151	0.098	15	0.24	0	0.00	342	3.82	18	0.32	32	0.63	4	0.14	0	0.00	0.66	0.66	0.66		0.065	0.877	0.465	40.0		34.0	27.0	6843	32550
14	7:00	20.4	1.502	1.316	0.020	1.260	0.069	11	0.18	0	0.00	270	3.08	12	0.22	25	0.45	3	0.09	0	0.00	0.66	0.66	0.66		0.058	0.860	0.456		43.0			2281	10850
15	7:00	15.9	1.137	1.008	0.007	0.899	0.084	15	0.32	0	0.00	340	5.06	16	0.38	31	0.79	4	0.18	0	0.00	0.66	0.66	0.66		0.051	0.659	0.349	47.0		38.0	30.0	6843	32550
16	7:00	19.4	1.352	1.172	0.020	1.099	0.091	12	0.21	0	0.00	286	3.66	12	0.25	27	0.56	4	0.14	0	0.00	0.66	0.66	0.66		0.068	0.766	0.406		37.0	39.0	37.0	6843	32550
17	7:00	18.3	1.277	1.130	0.011	1.053	0.079	11	0.21	0	0.00	258	3.42	13	0.28	25	0.54	4	0.15	0	0.00	0.66	0.66	0.66		0.057	0.739	0.391	45.0	44.0			4562	21700
18	7:00	15.8	1.135	0.982	0.010	0.960	0.077	15	0.32	0	0.00	356	5.43	21	0.51	35	0.83	5	0.21	0	0.00	0.66	0.66	0.66		0.044	0.642	0.340	35.0		38.0	41.0	6843	32550
19	7:00	19.6	1.459	1.308	0.016	1.195	0.092	13	0.21	0	0.00	320	3.67	16	0.29	27	0.51	6	0.20	0	0.00	0.66	0.66	0.66		0.059	0.855	0.453		32.0	35.0	34.0	6843	32550
20	7:00	18.8	1.391	1.225	0.016	1.098	0.080	13	0.22	0	0.00	318	3.89	17	0.33	30	0.62	6	0.22	0	0.00	0.66	0.66	0.66		0.058	0.801	0.424	39.0	37.0			4562	21700
21	7:00	20.8	1.481	1.324	0.009	1.245	0.080	13	0.21	0	0.00	300	3.40	13	0.24	28	0.51	8	0.25	0	0.00	0.66	0.66	0.66		0.058	0.865	0.459			38.0	33.0	4562	21700
22	7:00	17.6	1.183	1.047	0.009	0.967	0.072	14	0.28	0	0.00	338	4.84	19	0.44	33	0.78	9	0.37	0	0.00	0.66	0.66	0.66		0.050	0.684	0.363	47.0	39.0		39.0	6843	21550
23	7:00	18.9	1.321	1.198	0.017	1.056	0.067	11	0.20	0	0.00	266	3.33	9	0.18	23	0.50	8	0.30	0	0.00	0.66	0.66	0.66		0.056	0.783	0.415			36.0		2281	10850
24	7:00	17.9	1.284	1.060	0.005	1.075	0.091	15	0.28	0	0.00	336	4.75	21	0.48	32	0.68	11	0.40	0	0.00	0.66	0.66	0.66		0.048	0.693	0.367	48.0	49.0	41.0	40.0	9124	43400
25	7:00	17.1	1.213	1.083	0.022	1.010	0.061	15	0.30	0	0.00	370	5.12	20	0.44	35	0.79	34	1.33	0	0.00	0.66	0.66	0.66		0.050	0.708	0.375				11.0	2281	10850
26	7:00	21.1	1.497	1.331	0.004	1.241	0.094	11	0.18	0	0.00	256	2.88	9	0.16	23	0.42	42	1.34	0	0.00	0.66	0.66	0.66		0.061	0.870	0.461	39.0	38.0	33.0		6843	32550
27	7:00	18.9	1.329	1.148	0.018	1.064	0.079	14	0.25	0	0.00	332	4.33	15	0.31	33	0.71	1	0.04	0	0.00	0.66	0.66	0.66		0.057	0.750	0.398			40.0	57.0	4562	21700
28	7:00	18.4	1.288	1.196	0.013	1.052	0.089	14	0.26	0	0.00	310	3.88	11	0.22	28	0.61	3	0.11	0	0.00	0.66	0.66	0.66		0.056	0.782	0.414	46.0	46.0		34.0	6843	32550
29	7:00	21.3	1.523	1.275	0.011	1.247	0.097	12	0.19	0	0.00	278	3.27	13	0.24	25	0.46	3	0.10	0	0.00	0.66	0.66	0.66		0.064	0.833	0.442	36.0	44.0	38.0		6843	32550
30									#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!	0.66	0.66	0.66				0.000						
31									#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!	0.66	0.66	0.66				0.000						
Total		527	39.085	34.535	0.374	32.098	2.402	392	#DIV/0!	0	#DIV/0!	8846	#DIV/0!	424	#DIV/0!	851	#DIV/0!	259	#DIV/0!	0	#DIV/0!					1.642	22.572	11.963	693	688	681	660	164232	770200
Ave.		18.2	1.348	1.191	0.013	1.107	0.083	13.5	#DIV/0!	0	#DIV/0!	305	#DIV/0!	15	#DIV/0!	29.3	#DIV/0!	8.9	#DIV/0!	0.0	#DIV/0!	0.66	0.66	0.66	#DIV/0!	0.057	0.778	0.386	40.8	38.2	37.8	34.7	5663.17	27507.1
Max		21.3	1.531	1.342	0.022	1.260	0.109	16.0	#DIV/0!	0	#DIV/0!	390	#DIV/0!	21	#DIV/0!	35	#DIV/0!	42	#DIV/0!	0	#DIV/0!	0.66	0.66	0.66	0	0.068	0.877	0.465	48.0	49.0	46.0	57.0	9,124	43,400
Min		15.3	1.135	0.982	0.000	0.899	0.059	11.0	#DIV/0!	0	#DIV/0!	118	#DIV/0!	9	#DIV/0!	23	#DIV/0!	1	#DIV/0!	0	#DIV/0!	0.66	0.66	0.66	0	0.044	0.642	0.000	35.0	30.0	30.0	11.0	0	10850

1	20	% Sodium Permanganate	Pre-aerator
2	40	% Bisulfite Solution	Membrane Backwash
3	12.5	% Sodium Hypochlorite Solution	Post Softener
4	20	% Ammonium Sulfate Solution	Post Softener
5	19	% Fluorosilicic Acid Solution	Post Clearwell
6	33	% Phosphate Solution	Post Clearwell
7	40	% Bisulfite Solution	Lagoon Effluent

CHLORINATION

Type of Chlorine Used: Sodium Hypochlorite 12.5 %

Chlorine Analyzers Used: Hach CL17 (2) & 5500sc

FLUORIDATION

Type of Fluoride Used: Hydrofluosilicic Acid 19% F

Fluoride Analyzer Used: Hach 2200, SPADNS method

I certify that the information in this report is complete and accurate to the best of my knowledge.

Reported by: _____ Illinois Operator Certification ID: 253149999

Date: 3/7/2024

Date Bacterials Ser: 2/26/2024

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES

South Sangamon Water Commission - IL1670080

February 2024

Physical and Chemical Tests

	Raw						Pre UF Membrane				Post UF Membrane			Post IEX				Finished														Membrane Integrity
																																Post Filter
			Total	Total	Total	Total	Turbidity	Total	Total	Soluble	Total	Total	Turbidity	1	2	3	4		Turbidity	Total	Total	Total	Total	Fluoride	Ortho	Free	Mono-	Chlorine					
Date	pH	Temp	Alk.	Hard.	Fe	Mn		Fe	Mn	Mn	Fe	Mn		Chloride				pH		Alk.	Hard.	Fe	Mn	F	Phosphate	Ammonia	Chloramine	F	T	Distrbution				
		deg. C	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L		NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/l	mg/l	mg/l	mg/L	F	T	Bank 1	Bank 2	Bank 3
			as CaCO3																	as CaCO3										mg/l	mg/L	psi	psi	psi
1	7.20	15.2	310	345	0.35	0.210			0.291	0.058	0.01	0.054	0.30					7.80	0.28	310	120	0.01	0.013	0.85	1.66	0.01	3.43	0.14	3.46					
2	7.00	14.6	310	350	0.41	0.216			0.316	0.058	0.01	0.076	0.30					7.60	0.26	310	120	0.01	0.027	0.65	1.71	0.01	3.53	0.08	3.44					
3	7.20	14.4	318	348	0.44	0.209			0.284	0.048	0.01	0.071	0.27					7.70	0.26	322	110	0.01	0.020	0.79	1.74	0.01	3.29	0.05	3.41					
4	7.20	14.5	312	352	0.51	0.218			0.299	0.054	0.01	0.077	0.28					7.60	0.24	316	106	0.01	0.016	0.77	1.76	0.02	3.59	0.06	3.51					
5	7.00	13.6	300	360	0.23	0.212			0.313	0.051	0.02	0.038	0.36					7.60	0.30	290	120	0.02	0.017	0.66	1.72	0.01	3.54	0.07	3.42					
6	7.00	13.4	310	340	0.82	0.229			0.349	0.043	0.02	0.038	0.32					7.30	0.32	310	100	0.01	0.009	0.79	1.65	0.06	3.55	0.04	3.78					
7	7.00	13.1	320	348	0.21	0.182			0.291	0.042	0.01	0.023	0.26					7.60	0.27	318	104	0.01	0.002	0.74	1.68	0.05	3.44	0.04	3.36					
8	6.90	13.5	300	355	0.57	0.211			0.485	0.050	0.02	0.036	0.28					7.50	0.26	300	100	0.01	0.005	1.00	1.68	0.01	3.84	0.06	3.08					
9	7.10	14.3	300	360	4.32	0.304			0.260	0.045	0.02	0.028	0.30					7.60	0.28	310	100	0.02	0.006	0.89	1.82	0.04	3.65	0.06	3.68				pass	pass
10	7.00	14.0	300	360	2.30	0.252			0.301	0.052	0.02	0.030	0.32					7.60	0.28	300	110	0.01	0.010	0.72	1.78	0.06	3.58	0.08	3.70					
11	7.00	14.1	310	360	0.82	0.231			0.289	0.048	0.01	0.026	0.30					7.60	0.30	310	110	0.01	0.013	0.82	1.69	0.04	3.52	0.06	3.62					
12	7.00	13.6	310	360	1.42	0.160			0.688	0.001	0.01	0.039	0.34					7.40	0.30	310	110	0.02	0.001	0.74	1.52	0.03	3.56	0.07	3.54				pass	
13	7.00	13.7	310	360	0.27	0.138			0.287	0.014	0.01	0.018	0.32					7.30	0.26	310	110	0.01	0.015	0.66	1.62	0.05	3.58	0.08	3.66					
14	6.90	13.4	310	350	2.01	0.183			0.388	0.012	0.02	0.031	0.34					7.40	0.28	290	110	0.01	0.026	0.55	1.80	0.01	3.58	0.11	3.52					
15	6.90	13.7	310	365	0.33	0.141			0.225	0.014	0.01	0.021	0.36					7.50	0.32	300	110	0.02	0.012	0.55	1.70	0.01	3.24	0.13	3.42					
16	6.90	13.2	300	360	0.48	0.213			0.283	0.040	0.02	0.068	0.30					7.40	0.27	290	110	0.02	0.037	0.78	1.65	0.01	3.85	0.08	3.54					
17	7.10	13.3	308	358	0.44	0.197			0.264	0.028	0.01	0.028	0.27					7.30	0.28	298	104	0.01	0.021	0.64	1.72	0.02	3.71	0.06	3.51					
18	7.20	13.5	312	352	0.56	0.168			0.262	0.041	0.01	0.022	0.30					7.40	0.26	292	106	0.01	0.019	0.59	1.77	0.01	3.38	0.09	3.47					
19	7.10	13.5	300	358	0.39	0.141			0.380	0.014	0.01	0.026	0.29					7.20	0.29	202	102	0.01	0.014	0.69	1.71	0.01	3.29	0.05	3.51					
20	7.00	13.3	310	352	0.41	0.129			0.265	0.014	0.01	0.031	0.30					7.30	0.31	280	106	0.01	0.019	0.72	1.68	0.02	3.46	0.07	3.66					
21	7.00	13.6	300	350	0.56	0.123			0.240	0.011	0.01	0.020	0.34					7.60	0.30	280	100	0.02	0.017	1.03	1.73	0.02	3.67	0.08	3.64					
22	6.80	13.7	310	360	0.38	0.173			0.264	0.032	0.01	0.048	0.36					7.40	0.32	300	110	0.02	0.040	0.66	1.61	0.03	3.66	0.08	3.60					pass
23	6.80	13.6	310	375	3.42	0.363			0.582	0.026	0.01	0.032	0.37					7.50	0.30	300	100	0.02	0.016	0.89	1.81	0.01	3.78	0.08	2.98				pass	pass	
24	7.00	13.4	310	370	0.98	0.202			0.334	0.033	0.02	0.036	0.35					7.50	0.32	310	120	0.01	0.019	0.84	1.68	0.01	3.69	0.07	3.32					
25	7.00	13.6	310	365	0.47	0.212			0.306	0.021	0.01	0.032	0.32					7.50	0.32	310	120	0.01	0.014	0.78	1.70	0.01	3.48	0.08	3.36					
26	6.80	13.7	310	370	0.39	0.163			0.301	0.044	0.02	0.052	0.34					7.60	0.30	310	130	0.01	0.048	0.90	1.78	0.01	3.68	0.10	3.04					
27	6.80	14.2	310	365	0.53	0.173			0.402	0.016	0.02	0.036	0.35					7.40	0.32	310	120	0.02	0.012	0.71	1.66	0.03	3.40	0.10	3.38					
28	7.10	13.8	300	380	0.72	0.150			0.249	0.016	0.02	0.045	0.32					7.50	0.30	300	130	0.02	0.013	0.83	1.71	0.01	3.12	0.11	3.50				pass	
29	6.80	12.9	310	360	0.61	0.181			0.338	0.015	0.01	0.048	0.32					7.50	0.30	310	120	0.01	0.031	0.79	1.78	0.01	3.70	0.10	3.48					pass	pass
30																																		
31																																		
Ave.	6.99	13.7	308	358	0.87	0.196	#DIV/0!	#DIV/0!	0.329	0.032	0.01	0.039	0.32	#####	#####	#####	#####	7.49	0.29	300	111	0.01	0.018	0.76	1.71	0.02	3.54	0.08	3.47	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Max	7.20	15.2	320	380	4.32	0.363	0.00	0.00	0.688	0.058	0.02	0.077	0.37	0	0	0	0	7.80	0.32	322	130	0.02	0.048	1.03	1.82	0.06	3.85	0.14	3.78	0.00	0.00	0.00	0.00	0.00
Min	6.80	12.9	300	340	0.21	0.123	0.00	0.00	0.225	0.001	0.01	0.018	0.26	0	0	0	0	7.20	0.24	202	100	0.01	0.001	0.55	1.52	0.01	3.12	0.04	2.98	0.00	0.00	0.00	0.00	0.00

Lagoon Effluent Tests		pH	Temp	T Chlor	Mn	Fe	Chloiride	TSS
Monthly			°C	mg/l	mg/l	mg/l	mg/L	mg/L
Date	2/27/2024	7.6	17.2	0.01	0.384	0.15	440.3	6.4

Distribution Stability Tests		pH	Temp	TDS	Alkalinity	Calcium	Chloiride	Sulfate	Remarks:
Every Two Weeks			°C	mg/L	mg/L as CaCO3		mg/L	mg/L	
Date	2/27/2024	7.3	17	610	280		210	57	
Date									
Date									