Monthly Operating Report

December:2024

So. Sangamon Water Commission

January 21st, 2025

SSWC

9199 Buckhart Rd Rochester IL 62563

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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 December 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 December 2024, the plant pumped 42.295 million gallons from the well field and 37.735 million gallons of finished water. This is 5.56 million gallons less than December 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 December 2024, there were 31 inspections, 3 preventative and multiple corrective maintenance activity completed. There was 1 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 December 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 December. 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 42.295 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.	7.50	15.8	1.32	.214	-	380	312	1.609
Min.	7.10	13.3	.05	.150	-	352	280	1.062
Avg.	7.42	14.2	.62	.182	-	367	302	1.364
Total	-	-	-	-	-	-	-	42.295

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 37.735 MG during the month with a daily average of 1.217 MG and a min/max .926/ 1.459 MG.

Table 2.3 Finished Water Quality

	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	0.17	3.72	8.0		0.01	0.440	0.97	220	312	3.25
Min.	0.06	1.48	7.7		0.01	0.032	0.48	100	280	0.72
Avg.	0.09	3.06	7.9		0.01	0.093	0.75	130	298	1.94
MCL	-	-	-	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-

Finished Water Flow Comparison for FY 2024

Time Period	2024	2023	2022
Jan 2024-Dec 2024	414,560,334	425,383,021	410,415,216
Increase for the same period last year		-10.8 MG	15.0 MG

FINISHED WATER PUMPING HISTORY

	2024	2023	2022	2021	2020	2019
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
Sept	37,258,390	38,677,420	32,355,302	38,935,839	38,674,095	34,234,782
Oct	34,907,003	32,733,224	29,576,287	34,918,955	34,597,739	30,769,238
Nov	28,768,567	30,061,570	35,563,717	31,181,005	32,325,040	30,877,400
Dec	32,675,158	31,818,986	30,450,255	31,391,459	31,582,311	29,703,954
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Totals	414,560,334	425,383,021	410,415,216	417,875,114	393,895,696	357,956,666
Avg	1.13 MGD	1.17 MGD	1.12 MGD	1.14 MGD	1.08 MGD	.981 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)**
Dec 20th,2024						
Minimum	.23	.267	460.3	.02	7.8	<4
Maximum	.23	.267	460.3	.02	7.8	<4
Average	.23	.267	460.3	.03	7.8	<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 December 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

Power surge

Power Sag

Ion Exchange Brine Pump

Well Comm loss

Well check valves

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 #11 construction
Train #3 repair
Cardinal Hill leak repair
SWPP
FOIA Request

When E.L.Pruitt was on site excavating to find our water leak a buried valve pit was discovered.

The valve pit was found to be flooded and during pump down it was found that the leak was in the pit.

The leak on Cardinal Hill Road was found to be a sample tap that had blown out.

The piping for well #11 raw main has been excavated and the piping is being plumbed to tie well #11 into the rest of the wells.

With the check valve at well #9 being bad when the plant lost power it caused the other wells to backfeed through well #9. We currently have well #9 valved out.

The new computers were setup and installed last month In tandem with the original scada computers. This was done so that the new computers could be debugged if need be, but still have uninterupted scada usage. The original computers were disconnected in December.

4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of December 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

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

Well Maintenance

Train #1 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 December 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. all cell meters have been installed.

Well #11 platform has been rough installed. Pits, bypass piping and hydrant are installed. Excavating the raw water main is the next step in the process.

Joe Lee Electric and Dan from scadaware have been onsite site to inspect and plan their portion of the construction.

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
6. SCADA computer upgrade

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

December 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	16.9	1.295	1.171	0.014	1.073	0.053	0	0.00	0	0.00	332	4.25	15	0.31	30	0.64	66	2.43	0	0.00	0.66	0.66	0.66	0.043	0.765	0.406	32.0	34.0			4562	21700
2	7:00	17.9	1.395	1.379	0.013	1.155	0.069	0	0.00	0	0.00	364	3.96	17	0.30	34	0.67	71	2.43	0	0.00	0.66	0.66	0.66	0.055	0.901	0.478	35.0		33.0	48.0	6843	32550
3	7:00	16.7	1.276	1.236	0.013	1.069	0.051	0	0.00	0	0.00	330	4.00	14	0.27	30	0.64	3	0.11	0	0.00	0.66	0.66	0.66	0.041	0.808	0.428		36.0	32.0		4562	21700
4	7:00	16.7	1.274	1.124	0.013	1.078	0.065	0	0.00	0	0.00	294	3.92	12	0.26	27	0.57	7	0.26	0	0.00	0.66	0.66	0.66	0.046	0.735	0.389	39.0	34.0	35.0	44.0	9124	43400
5	7:00	20.1	1.541	1.177	0.020	1.301	0.053	0	0.00	0	0.00	340	4.33	18	0.37	31	0.54	6	0.18	0	0.00	0.66	0.66	0.66	0.043	0.769	0.408	35.0			40.0	4562	21700
6	7:00	18.0	1.407	1.216	0.010	1.213	0.053	0	0.00	0	0.00	344	4.24	15	0.30	31	0.58	8	0.26	0	0.00	0.66	0.66	0.66	0.043	0.795	0.421		35.0	30.0		4562	21700
7	7:00	14.0	1.097	1.239	0.011	0.854	0.063	0	0.00	0	0.00	288	3.48	13	0.25	27	0.72	6	0.28	0	0.00	0.66	0.66	0.66	0.049	0.810	0.429	42.0	39.0		45.0	6843	32550
8	7:00	17.9	1.344	0.950	0.050	1.186	0.044	0	0.00	0	0.00	388	6.12	2	0.05	36	0.69	8	0.27	0	0.00	0.66	0.66	0.66	0.034	0.621	0.329	30.0		55.0		4562	21700
9	7:00	20.2	1.609	1.415	0.014	1.286	0.063	0	0.00	0	0.00	306	3.24	19	0.32	28	0.50	9	0.28	0	0.00	0.66	0.66	0.66	0.053	0.925	0.490			29.0	45.0	4562	21700
10	7:00	17.6	1.311	1.180	0.010	1.170	0.047	0	0.00	0	0.00	344	4.37	14	0.28	32	0.62	9	0.30	0	0.00	0.66	0.66	0.66	0.042	0.771	0.409	39.0				2281	10850
11	7:00	18.4	1.390	1.232	0.005	1.165	0.062	0	0.00	0	0.00	322	3.92	16	0.31	33	0.65	10	0.34	0	0.00	0.66	0.66	0.66	0.048	0.805	0.427		77.0	33.0	40.0	6843	32550
12	7:00	16.0	1.240	1.329	0.015	0.997	0.065	0	0.00	0	0.00	330	3.72	18	0.32	32	0.73	11	0.44	0	0.00	0.66	0.66	0.66	0.046	0.869	0.460	37.0	36.0	36.0	38.0	9124	43400
13	7:00	21.0	1.606	1.194	0.023	1.327	0.055	0	0.00	0	0.00	326	4.09	15	0.30	27	0.46	13	0.39	0	0.00	0.66	0.66	0.66	0.050	0.780	0.414	37.0				2281	10850
14	7:00	16.8	1.261	1.137	0.005	1.070	0.052	0	0.00	0	0.00	334	4.40	14	0.30	30	0.64	48	1.78	0	0.00	0.66	0.66	0.66	0.038	0.743	0.394		37.0	38.0	40.0	6843	32550
15	7:00	20.7	1.597	1.423	0.016	1.103	0.060	0	0.00	0	0.00	322	3.39	-5	-0.08	28	0.58	67	2.40	0	0.00	0.66	0.66	0.66	0.055	0.930	0.493	34.0				2281	10850
16	7:00	15.4	1.150	1.060	0.010	0.904	0.048	0	0.00	0	0.00	264	3.73	11	0.25	27	0.68	58	2.54	0	0.00	0.66	0.66	0.66	0.038	0.693	0.367	43.0		43.0		4562	21700
17	7:00	21.4	1.576	1.454	0.008	1.207	0.071	0	0.00	0	0.00	366	3.77	16	0.26	33	0.62	18	0.59	0	0.00	0.66	0.66	0.66	0.057	0.950	0.504		81.0	32.0	63.0	6843	32550
18	7:00	20.6	1.535	1.391	0.014	1.185	0.070	0	0.00	0	0.00	342	3.69	17	0.29	31	0.60	6	0.20	0	0.00	0.66	0.66	0.66	0.056	0.909	0.482	39.0		33.0	32.0	6843	32550
19	7:00	16.5	1.254	1.259	0.019	1.098	0.049	0	0.00	0	0.00	336	4.00	17	0.32	29	0.60	6	0.22	0	0.00	0.66	0.66	0.66	0.044	0.823	0.436		36.0			2281	10850
20	7:00	16.4	1.258	0.946	0.004	1.087	0.043	0	0.00	0	0.00	316	5.01	17	0.43	30	0.63	6	0.22	0	0.00	0.66	0.66	0.66	0.038	0.618	0.328				34.0	2281	10850
21	7:00	16.9	1.304	1.130	0.008	1.081	0.047	0	0.00	0	0.00	322	4.27	15	0.32	29	0.61	7	0.26	0	0.00	0.66	0.66	0.66	0.047	0.739	0.391					0	0
22	7:00	16.6	1.279	1.156	0.006	1.098	0.046	0	0.00	0	0.00	358	4.64	17	0.35	33	0.68	9	0.32	0	0.00	0.66	0.66	0.66	0.041	0.756	0.400			84.0		2281	10850
23	7:00	18.2	1.449	1.411	0.007	1.099	0.066	0	0.00	0	0.00	300	3.19	14	0.24	29	0.60	7	0.25	0	0.00	0.66	0.66	0.66	0.056	0.922	0.489	121.0	116.0			4562	21700
24	7:00	16.0	1.204	0.946	0.022	1.117	0.041	0	0.00	0	0.00	334	5.29	19	0.48	31	0.63	9	0.32	0	0.00	0.66	0.66	0.66	0.036	0.618	0.328	31.0				2281	10850
25	7:00	20.8	1.577	1.414	0.013	1.252	0.069	0	0.00	0	0.00	380	4.03	17	0.29	32	0.58	10	0.32	0	0.00	0.66	0.66	0.66	0.055	0.924	0.490		33.0	86.0	118.0	6843	32550
26	7:00	15.8	1.226	1.085	0.010	1.042	0.056	0	0.00	0	0.00	340	4.70	41	0.91	32	0.70	11	0.42	0	0.00	0.66	0.66	0.66	0.042	0.709	0.376	38.0	36.0		33.0	6843	32550
27	7:00	19.8	1.548	1.459	0.014	1.198	0.067	0	0.00	0	0.00	314	3.23	15	0.25	27	0.51	12	0.40	0	0.00	0.66	0.66	0.66	0.057	0.954	0.505			33.0	32.0	4562	21700
28	7:00	18.4	1.341	1.140	0.008	1.191	0.050	0	0.00	0	0.00	324	4.26	13	0.27	29	0.55	11	0.37	0	0.00	0.66	0.66	0.66	0.040	0.745	0.395	39.0	44.0			4562	21700
29	7:00	13.9	1.062	0.926	0.013	0.906	0.037	0	0.00	0	0.00	334	5.41	13	0.34	24	0.60	7	0.31	0	0.00	0.66	0.66	0.66	0.037	0.605	0.321					0	0
30	7:00	17.7	1.314	1.154	0.009	1.039	0.061	0	0.00	0	0.00	336	4.36	13	0.27	31	0.68	7	0.27	0	0.00	0.66	0.66	0.66	0.047	0.754	0.400		38.0	74.0	74.0	6843	32550
31	7:00	21.6	1.575	1.402	0.014	1.292	0.059	0	0.00	0	0.00	344	3.68	20	0.34	31	0.55	8	0.25	0	0.00	0.66	0.66	0.66	0.045	0.916	0.486	81.0	35.0	33.0		6843	32550
Total		554.9	42.295	37.735	0.411	34.843	1.733	0	0.00	0	0	10274	128.68	472	9.46	934	19.07	534	19.37	0	0.00				1.422	24.663	13.072	752	747	739	726	148265	705250
Ave.		17.9	1.364	1.217	0.013	1.124	0.056	0.0	0.00	0	0	331	4.15	15	0.31	30.1	0.62	17.2	0.62	0.0	0.00	0.66	0.66	0.66	0.046	0.796	0.422	44.2	46.7	43.5	48.4	4782.74	22750
Max		21.6	1.609	1.459	0.050	1.327	0.071	0.0	0.00	0	0	388	6.12	41	0.90619	36	0.73	71	2.54	0	0.00	0.66	0.66	0.66	0.057	0.954	0.505	121.0	116.0	86.0	118.0	9,124	43,400
Min		13.9	1.062	0.926	0.004	0.854	0.037	0.0	0.00	0	0	264	3.19	-5	-0.08	24	0.46	3	0.11	0	0.00	0.66	0.66	0.66	0.034	0.605	0.321	30.0	33.0	29.0	32.0	0	0

1	20	% Sodium Permanganate	Post-aerator
2	40	% BisulfiteSolution	Membrane Backwash
3	12.5	% Sodium Hypochlorite Solution	Post Softener
4	20	% Ammonium Sulfate Solution	Post Clearwell
5	19	% Fluorosilicic Acid Solution	Post Clearwell
6	33	% Phosphate Solution	Post Clearwell
7	40	% BisulfiteSolution	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: 253419999

Date: 1/9/2025

Date Bacterials Se: 12/27/2024

South Sangamon Water Commission

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES

South Sangamon Water Commission - IL1670080

December 2024

Physical and Chemical Tests | **Membrane Integrity**

	Raw						Pre UF Membrane				Post UF Membrane			Post IEX				Finished														Post Filter		
			Total	Total	Total	Total																											
Date	pH	Temp	Alk.	Hard.	Fe	Mn	Turbidity	Total Fe	Total Mn	Soluble Mn	Total Fe	Total Mn	Turbidity	1	2	3	4	pH	Turbidity	Total Alk.	Total Hard.	Total Fe	Total Mn	Fluoride F	Ortho Phosphate	Free Ammonia	Mono-Chloramine	Chlorine F	Chlorine T	Distrbution F	Distrbution T	Bank 1	Bank 2	Bank 3
		deg. C	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	Chloride mg/L	Chloride mg/L	Chloride mg/L	Chloride mg/L		NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/l	mg/l	mg/l	mg/L	mg/l	mg/L	psi	psi	psi
			as CaCO3																	as CaCO3													
1	7.10	13.7	310	370	0.71	0.214			0.190	0.169	0.01	0.148	0.20					7.70	0.21	280	106	0.01	0.440	0.97	2.04	0.04	3.30	0.08	3.09					
2	7.50	15.8	300	370	0.38	0.175			0.169	0.145	0.01	0.135	0.20					8.00	0.21	300	120	0.01	0.040	0.76	2.14	0.02	3.14	0.07	3.08					
3	7.50	13.7	300	380	0.54	0.174			0.294	0.163	0.01	0.158	0.22					7.90	0.25	280	140	0.01	0.053	0.77	2.18	0.10	2.76	0.07	2.64					
4	7.50	13.7	300	375	0.05	0.180			0.222	0.155	0.01	0.146	0.27					8.00	0.23	300	120	0.01	0.044	0.71	2.39	0.14	2.78	0.07	3.18					
5	7.50	14.0	300	370	0.63	0.150			0.282	0.144	0.01	0.158	0.22					7.90	0.20	300	140	0.01	0.043	0.79	2.13	0.05	3.05	0.10	3.34					
6	7.50	14.0	280	370	0.51	0.182			0.173	0.158	0.01	0.160	0.25					7.90	0.22	280	120	0.01	0.056	0.56	1.74	0.02	2.97	0.07	2.93			pass	pass	pass
7	7.50	14.1	300	360	0.58	0.170			0.177	0.152	0.01	0.162	0.22					7.90	0.25	300	110	0.01	0.047	0.70	2.10	0.03	3.10	0.10	3.20					
8	7.50	14.2	300	370	0.63	0.187			0.203	0.156	0.01	0.148	0.24					7.90	0.21	300	100	0.01	0.051	0.68	2.12	0.02	3.04	0.10	3.32					
9	7.40	15.1	300	370	0.39	0.201			0.131	0.108	0.01	0.142	0.27					7.90	0.20	300	100	0.01	0.066	0.84	1.27	0.10	2.80	0.12	3.12					
10	7.40	14.3	300	370	0.40	0.180			0.143	0.130	0.01	0.127	0.18					7.80	0.22	300	140	0.01	0.051	0.66	2.01	0.02	2.74	0.17	3.04					
11	7.40	14.1	300	370	0.91	0.206			0.241	0.154	0.01	0.144	0.20					7.90	0.23	300	140	0.01	0.056	0.67	1.72	0.03	3.24	0.11	2.66					
12	7.50	14.1	300	370	0.52	0.182			0.219	0.145	0.01	0.137	0.22					7.90	0.25	300	120	0.01	0.032	0.93	2.09	0.03	2.97	0.08	3.08					
13	7.50	14.1	300	370	0.27	0.168			0.131	0.111	0.01	0.124	0.19					7.90	0.23	300	120	0.01	0.046	0.63	0.72	0.01	1.19	0.06	1.48					
14	7.40	13.9	308	362	0.21	0.179			0.181	0.141	0.01	0.130	0.19					7.80	0.23	290	110	0.01	0.039	0.71	1.18	0.02	1.41	0.08	3.11					
15	7.40	14.0	306	366	0.41	0.181			0.216	0.144	0.01	0.137	0.20					7.90	0.21	292	108	0.01	0.400	0.81	1.64	0.03	2.12	0.06	3.01					
16	7.40	14.6	300	370	1.07	0.188			0.205	0.157	0.01	0.151	0.25					7.80	0.28	300	120	0.01	0.076	0.71	1.75	0.05	3.01	0.09	2.78					
17	7.40	14.4	300	370	0.76	0.181			0.189	0.158	0.01	0.159	0.25					7.80	0.30	300	140	0.01	0.076	0.70	1.98	0.04	3.38	0.12	3.64					
18	7.40	14.3	300	370	0.67	0.187			0.201	0.153	0.01	0.146	0.27					7.90	0.30	300	120	0.01	0.039	0.87	2.08	0.07	3.35	0.10	3.50					
19	7.40	14.2	300	370	0.31	0.165			0.146	0.101	0.01	0.125	0.28					7.90	0.25	300	140	0.01	0.039	0.85	3.25	0.04	3.18	0.08	2.68					
20	7.40	13.3	312	358	0.51	0.164			0.150	0.169	0.01	0.491	0.13					7.90	0.29	292	110	0.01	0.063	0.81	2.28	0.05	3.06	0.06	3.46					
21	7.40	13.8	300	360	0.60	0.170			0.148	0.124	0.01	0.180	0.23					7.90	0.27	300	110	0.01	0.042	0.80	2.20	0.03	3.12	0.08	3.30					
22	7.40	13.7	300	360	0.55	0.179			0.236	0.137	0.01	0.168	0.26					7.90	0.25	300	120	0.01	0.051	0.77	2.16	0.04	3.20	0.08	3.36					
23	7.40	14.6	310	370	0.25	0.166			0.156	0.137	0.01	0.142	0.26					7.80	0.31	300	220	0.01	0.119	0.62	1.37	0.03	0.64	0.10	1.89					
24	7.40	14.4	300	360	0.89	0.207			0.280	0.166	0.01	0.142	0.28					7.80	0.30	300	200	0.01	0.086	0.72	2.20	0.07	3.20	0.08	3.62					
25	7.40	14.4	300	370	0.72	0.180			0.201	0.171	0.01	0.154	0.30					7.80	0.28	300	170	0.01	0.077	0.76	2.16	0.04	3.08	0.10	3.50					
26	7.40	15.2	300	370	0.79	0.179			0.168	0.136	0.01	0.116	0.28					7.80	0.26	300	160	0.01	0.130	0.66	1.90	0.05	2.49	0.09	2.84					
27	7.40	14.8	300	360	1.16	0.180			0.174	0.174	0.01	0.134	0.30					7.80	0.24	300	140	0.01	0.123	0.79	1.92	0.01	3.46	0.11	3.72			pass	pass	pass
28	7.40	13.9	312	352	0.86	0.191			0.194	0.159	0.01	0.121	0.24					7.70	0.21	308	120	0.01	0.128	0.84	1.84	0.03	3.26	0.08	3.56					
29	7.40	13.4	310	366	0.81	0.194			0.172	0.149	0.01	0.120	0.27					7.80	0.21	312	116	0.01	0.132	0.74	1.81	0.01	2.71	0.09	3.04					
30	7.40	14.9	300	360	1.32	0.212			0.213	0.146	0.01	0.142	0.25					7.80	0.23	300	120	0.01	0.122	0.48	2.07	0.01	3.17	0.13	3.10					
31	7.40	14.1	300	360	0.89	0.181			0.233	0.135	0.01	0.146	0.26					7.90	0.24	300	130	0.01	0.126	0.91	1.79	0.01	3.73	0.11	3.08					
Ave.	7.42	14.2	302	367	0.62	0.182	#DIV/0!	#DIV/0!	0.195	0.147	0.01	0.155	0.24	#####	#####	#####	#####	7.86	0.24	298	130	0.01	0.093	0.75	1.94	0.04	2.86	0.09	3.08	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Max	7.50	15.8	312	380	1.32	0.214	0.00	0.00	0.294	0.174	0.01	0.491	0.30	0	0	0	0	8.00	0.31	312	220	0.01	0.440	0.97	3.25	0.14	3.73	0.17	3.72	0.00	0.00	0.00	0.00	0.00
Min	7.10	13.3	280	352	0.05	0.150	0.00	0.00	0.131	0.101	0.01	0.116	0.13	0	0	0	0	7.70	0.20	280	100	0.01	0.032	0.48	0.72	0.01	0.64	0.06	1.48	0.00	0.00	0.00	0.00	0.00

Lagoon Effluent Tests	pH	Temp	TChlor	Mn	Fe	Chloiride	TSS
Monthly		°C	mg/l	mg/l	mg/l	mg/L	mg/L
Date 12/20/2024	7.8	13.7	0.02	0.267	0.23	460.3	<4

Distribution Stability Tests	pH	Temp	TDS	Alkalinity	Calcium	Chloiride	Sulfate
Every Two Weeks		°C	mg/L	mg/L as CaCO3		mg/L	mg/L
Date 12/20/2024	7.87	17.2	480	280		39	53
Date							
Date							

Remarks: