

South Sangamon Water Commission - IL 1670080
March 2019

Date	Time Meter Read	Hours Filter Ran	Pumping Totals						Chemicals Applied										UF Filters						Softeners											
			Raw Well Prod. (M gal)	UF Filtered (M gal)	Plant Water (M gal)	HS Pumpage (M gal)	Lagoon Effluent Pumpage (M gal)	Sodium Permanganate		Sodium Bisulfite BW		Sodium Hypochlorite		Ammonium Sulfate		Fluorosilicic Acid		Phosphate		Sodium Bisulfite Pond		Hours since previous backwash			Wash Water Gal. (M gal)	Water Softened Gal. (M gal)	Water Bypassed Gal. (M gal)	Each day indicate total number of hours since previous regeneration. If regeneration at mid-day, indicate hours previous/hours following.				Regeneration				
								Am't Used lbs.	Calc mg/l as NaMnO4	Am't Used lbs.	Calc mg/l	Am't Used lbs.	Calc mg/l as Cl	Am't Used lbs.	Calc mg/l as NH3	Am't Used lbs.	Calc mg/l as F	Am't Used lbs.	Calc mg/l as PO4	Am't Used lbs.	Calc mg/l	Bank #						1	2	3	1	2	3	4	Salt Used lbs.	Washed Water Gal.
																						1	2	3												
1	7:00	18.0	1.257	1.138	0.005	0.961	21	0.40	0.00	155	2.04	0.00	37	0.88	46	1.89	9	#DIV/0!	0.66	0.66	0.66	0.125	0.743	0.395	42.0			37.0	4562	20700						
2	7:00	20.5	1.385	1.250	0.007	1.044	20	0.35	0.00	136	1.63	0.00	31	0.68	43	1.63	12	#DIV/0!	0.66	0.66	0.66	0.135	0.820	0.430	66.0	42.0	39.0	6843	31050							
3	7:00	17.6	1.204	1.082	0.012	0.915	21	0.42	0.00	155	2.15	0.00	36	0.90	51	2.21	10	#DIV/0!	0.66	0.66	0.66	0.120	0.706	0.376	48.0			2281	10350							
4	7:00	21.4	1.436	1.305	0.004	1.095	23	0.38	0.00	159	1.83	0.00	38	0.79	52	1.88	6	#DIV/0!	0.66	0.66	0.66	0.140	0.779	0.526	49.0	36.0	47.0	6843	31050							
5	7:00	21.6	1.480	1.341	0.012	1.098	22	0.36	0.00	157	1.75	0.00	37	0.77	49	1.77	9	#DIV/0!	0.66	0.66	0.66	0.141	0.850	0.491	55.0		39.0	4562	20700							
6	7:00	20.8	1.361	1.230	0.008	0.998	19	0.33	0.00	150	1.83	0.00	32	0.73	44	1.74	9	#DIV/0!	0.66	0.66	0.66	0.134	0.796	0.434	59.0		37.0	4562	20700							
7	7:00	20.2	1.311	1.197	0.008	0.984	17	0.31	0.00	141	1.77	0.00	33	0.76	44	1.77	12	#DIV/0!	0.66	0.66	0.66	0.124	0.777	0.420	42.0		42.0	6843	31050							
8	7:00	18.7	1.283	1.148	0.012	0.967	19	0.36	0.00	153	2.00	0.00	35	0.82	49	2.01	6	#DIV/0!	0.66	0.66	0.66	0.121	0.732	0.416				0	0							
9	7:00	20.9	1.378	1.242	0.003	1.019	17	0.30	0.00	133	1.60	0.00	30	0.67	40	1.55	10	#DIV/0!	0.66	0.66	0.66	0.136	0.731	0.511	61.0	37.0	40.0	6843	31050							
10	7:00	17.7	1.180	1.061	0.009	0.891	19	0.39	0.00	153	2.16	0.00	37	0.95	50	2.22	9	#DIV/0!	0.66	0.66	0.66	0.118	0.707	0.354	70.0	24.0	40.0	34.0	6843	31050						
11	7:00	21.8	1.440	1.310	0.012	1.100	21	0.35	0.00	158	1.81	0.00	37	0.77	52	1.87	8	#DIV/0!	0.66	0.66	0.66	0.139	0.873	0.437				2281	10350							
12	7:00	22.4	1.503	1.324	0.004	1.142	19	0.30	0.00	155	1.75	0.00	35	0.70	48	1.66	14	#DIV/0!	0.66	0.66	0.66	0.123	0.883	0.441	52.0	46.0	41.0	4562	20700							
13	7:00	14.4	1.017	0.903	0.008	0.852	16	0.38	0.00	130	2.16	0.00	32	0.86	43	2.00	12	#DIV/0!	0.66	0.66	0.66	0.103	0.602	0.301	70.0			4562	20700							
14	7:00	21.8	1.521	1.367	0.007	1.170	21	0.33	0.00	170	1.86	0.00	35	0.68	52	1.76	16	#DIV/0!	0.66	0.66	0.66	0.148	0.911	0.456		34.0	34.0	4562	20700							
15	7:00	20.4	1.401	1.320	0.009	1.008	19	0.33	0.00	148	1.68	0.00	34	0.77	47	1.84	5	#DIV/0!	0.66	0.66	0.66	0.140	0.880	0.440	54.0	56.0	43.0	43.0	6845	31050						
16	7:00	15.8	1.026	0.926	0.013	0.779	17	0.40	0.00	126	2.04	0.00	32	0.94	43	2.18	8	#DIV/0!	0.66	0.66	0.66	0.103	0.617	0.309				2281	10350							
17	7:00	21.7	1.505	1.378	0.003	1.113	22	0.35	0.00	170	1.85	0.00	38	0.78	50	1.78	15	#DIV/0!	0.66	0.66	0.66	0.148	0.889	0.489	66.0	37.0	38.0	6843	31050							
18	7:00	21.8	1.481	1.309	0.012	1.066	20	0.32	0.00	160	1.83	0.00	37	0.79	45	1.67	7	#DIV/0!	0.66	0.66	0.66	0.151	0.873	0.436	72.0			2281	10350							
19	7:00	21.8	1.432	1.302	0.007	1.092	21	0.35	0.00	165	1.90	0.00	37	0.77	52	1.88	7	#DIV/0!	0.66	0.66	0.66	0.141	0.868	0.434	43.0	37.0	36.0	6843	31050							
20	7:00	21.6	1.464	1.326	0.009	1.095	21	0.34	0.00	163	1.84	0.00	34	0.71	51	1.84	14	#DIV/0!	0.66	0.66	0.66	0.138	0.884	0.442		37.0	40.0	4562	20700							
21	7:00	21.8	1.469	1.317	0.008	1.095	20	0.33	0.00	159	1.81	0.00	38	0.79	11	0.40	14	#DIV/0!	0.66	0.66	0.66	0.138	0.878	0.439	64.0	41.0		4562	20700							
22	7:00	21.5	1.476	1.337	0.008	1.094	20	0.32	0.00	152	1.70	0.00	33	0.69	16	0.58	12	#DIV/0!	0.66	0.66	0.66	0.142	0.891	0.446		40.0	38.0	4562	20700							
23	7:00	21.0	1.296	1.163	0.008	0.947	18	0.33	0.00	145	1.87	0.00	34	0.82	35	1.46	7	#DIV/0!	0.66	0.66	0.66	0.125	0.775	0.388	54.0	37.0		4562	20700							
24	7:00	18.7	1.230	1.114	0.004	0.922	20	0.39	0.00	165	2.22	0.00	36	0.89	49	2.10	12	#DIV/0!	0.66	0.66	0.66	0.120	0.820	0.294			40.0	2281	10350							
25	7:00	20.8	1.373	1.229	0.004	1.023	19	0.33	0.00	142	1.73	0.00	34	0.76	45	1.74	19	#DIV/0!	0.66	0.66	0.66	0.127	0.915	0.314	95.0	41.0	40.0	6843	20700							
26	7:00	21.6	1.435	1.264	0.016	1.085	19	0.32	0.00	152	1.80	0.00	34	0.71	41	1.50	19	#DIV/0!	0.66	0.66	0.66	0.131	0.953	0.311				51.0	2281	10350						
27	7:00	19.3	1.263	1.136	0.004	0.933	17	0.32	0.00	131	1.73	0.00	29	0.71	40	1.70	17	#DIV/0!	0.66	0.66	0.66	0.126	0.841	0.295	44.0	50.0		6843	20700							
28	7:00	12.0	0.784	0.707	0.004	0.654	13	0.40	0.00	104	2.20	0.00	28	0.98	36	2.18	12	#DIV/0!	0.66	0.66	0.66	0.084	0.521	0.186	74.0			48.0	4562	20700						
29	7:00	21.8	1.475	1.340	0.008	1.114	22	0.36	0.00	174	1.95	0.00	38	0.78	53	1.88	22	#DIV/0!	0.66	0.66	0.66	0.146	0.983	0.357	50.0	39.0	37.0	6843	31050							
30	7:00	21.7	1.494	1.348	0.012	1.074	18	0.29	0.00	145	1.61	0.00	32	0.68	11	0.41	18	#DIV/0!	0.66	0.66	0.66	0.147	0.996	0.352				0	0							
31	7:00	18.1	1.233	1.116	0.000	0.907	20	0.39	0.00	159	2.14	0.00	37	0.93	15	0.65	20	#DIV/0!	0.66	0.66	0.66	0.114	0.815	0.301	56.0	47.0		4562	20700							
Total		619.2	41.593	37.530	0.240	31.237	0.000	601	10.82	0	0	4665	58.25	0	0.00	1070	24.42	1303	51.75	370	#DIV/0!		4.028	25.309	12.221	686	762	723	718	143705	631350					
Ave.		20.0	1.342	1.211	0.008	1.008	#DIV/0!	19.4	0.35	#DIV/0!	0	150	1.88	#DIV/0!	0.00	34.5	0.79	42.0	1.67	11.9	#DIV/0!	0.66	0.66	0.66	#DIV/0!	0.130	0.816	0.394	62.4	50.8	40.2	39.9	4635.6	20366		
Max		22.4	1.521	1.378	0.016	1.170	0.000	23.0	0.42	0	0	174	2.22	0	0	38	0.98	53	2.22	22	#DIV/0!	0.66	0.66	0.66	0	0.151	0.996	0.526	95.0	66.0	50.0	51.0	6.845	31.050		
Min		12	0.784	0.707	0.000	0.654	0.000	13.0	0.29	0	0	104	1.60	0	0.00	28	0.67	11	0.40	5	#DIV/0!	0.66	0.66	0.66	0	0.084	0.521	0.186	42.0	24.0	34.0	34.0	0	0		

1	20	% Sodium Permanganate	Pre-aerator	CHLORINATION	FLUORIDATION	I certify that the information in this report is complete and accurate to the best of my knowledge. Reported by: _____ Illinois Operator Certification ID: _____ Date: _____ Date Bacterials Sent: _____
2	40	% Bisulfite Solution	Membrane Backwash	Type of Chlorine Used	Type of Fluoride Used	
3	12.5	% Sodium Hypochlorite Solution	Post Softener	Sodium Hypochlorite 12.5 %	Hydrofluosilicic Acid 19% F	
4	20	% Ammonium Sulfate Solution	Post Softener	Chlorine Analyzers Used: Hach CL17 (2) & 5500sc	Fluoride Analyzer Used: Hach 2200, SPADNS method	
5	19	% Fluorosilicic Acid Solution	Post Clearwell			
6	33	% Phosphate Solution	Post Clearwell			
7	40	% Bisulfite Solution	Lagoon Effluent			

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Date	Physical and Chemical Tests																					Membrane Integrity							
	Raw						Pre UF Membrane			Post UF Membrane			Finished										Post Filter						
	pH	Temp deg. C	Total Alk. mg/L as CaCO3	Total Hard. mg/L	Total Fe mg/L	Total Mn mg/L	Turbidity NTU	Total Fe mg/L	Total Mn mg/L	Soluble Mn mg/L	Total Fe mg/L	Total Mn mg/L	Turbidity NTU	pH	Turbidity NTU	Total Alk. mg/L as CaCO3	Total Hard. mg/L	Total Fe mg/L	Total Mn mg/L	Fluoride F mg/L	Ortho Phosphate mg/L	Free Ammonia mg/l	Mono-Chloramine mg/l	Chlorine		Bank 1 psi	Bank 2 psi	Bank 3 psi	
																								F mg/l	T mg/L				
																							F mg/L	T mg/L	Distribution				
																							mg/l		mg/L				
1	7.60	12.9	290	370	1.03	0.218	3.850		0.321	0.031		0.040	0.57	8.22	0.37	290	100	0.01	0.011	0.84	1.73			1.10	1.27				
2	7.73	13.3	292	360	1.01	0.200	3.450		0.325	0.040		0.042	0.45	8.35	0.30	280	120	0.02	0.012	0.69	1.62			1.05	1.20				
3	7.49	12.8	286	358	0.74	0.200	3.880		0.330	0.043		0.050	0.46	8.04	0.39	282	126	0.02	0.011	0.82	1.80			1.10	1.28				
4	7.76	11.7	290	356	0.55	0.222	3.930		0.392	0.039		0.071	0.37	7.99	0.36	288	130	0.02	0.014	0.86	1.14			0.97	1.09				
5	7.65	12.1	282	356	1.06	0.207	3.840		0.315	0.023		0.039	0.31	8.00	0.32	260	120	0.01	0.009	0.83	1.84			0.93	1.04				
6	7.38	12.8	290	362	0.66	0.212	5.670		0.329	0.061		0.069	0.29	8.06	0.28	280	110	0.02	0.016	0.85	1.69			1.18	1.25				
7	7.74	12.8	286	360	0.70	0.208	4.140		0.303	0.060		0.058	0.25	7.90	0.28	276	122	0.02	0.017	0.59	1.73			1.12	1.24				
8	7.52	13.4	310	360	0.52	0.196	3.850		0.311	0.048		0.031	0.34	8.19	0.36	272	112	0.02	0.008	0.91	1.75			1.13	1.26				
9	7.82	12.9	302	356	0.59	0.206	4.050		0.311	0.067		0.074	0.34	8.12	0.35	278	122	0.01	0.012	0.74	1.68			1.05	1.16				
10	7.44	12.6	300	352	0.90	0.205	3.800		0.313	0.074		0.060	0.34	7.73	0.40	260	134	0.01	0.014	0.74	1.89			1.09	1.32				
11	7.68	13.1	280	344	0.84	0.206	4.190		0.322	0.055		0.113	0.35	7.83	0.33	264	110	0.02	0.014	0.89	1.46			1.06	1.23				
12	7.06	12.5	300	360	1.04	0.212	5.700		0.345	0.055		0.063	0.42	7.40	0.35	280	120	0.02	0.014	0.94	1.84			1.03	1.10				
13	8.04	13.3	280	364	0.49	0.212	4.480		0.347	0.053		0.056	0.33	8.03	0.50	280	130	0.02	0.017	0.85	1.83			1.21	1.33				
14	7.84	13.5	276	360	1.09	0.210	3.790		0.328	0.053		0.067	0.41	7.91	0.34	276	130	0.02	0.016	1.18	2.03			1.22	1.30				
15	7.70	13.0	280	356	1.38	0.206	3.520		0.326	0.054		0.057	0.31	8.27	0.36	280	130	0.03	0.017	0.95	1.89			1.06	1.20				
16	7.61	13.0	276	358	0.89	0.210	6.620		0.337	0.095		0.093	0.38	8.04	0.35	282	12	0.03	0.028	0.84	1.72			1.22	1.34				
17	7.64	13.2	278	360	0.59	0.208	3.690		0.318	0.051		0.044	0.35	7.79	0.37	250	100	0.02	0.017	0.84	1.97			1.17	1.33				
18	7.87	14.6	280	356	0.68	0.208	4.360		0.341	0.004		0.082	0.36	7.50	0.36	270	140	0.02	0.019	0.91	1.79			1.15	1.34				
19	7.64	13.4	290	360	0.77	0.202	3.690		0.319	0.056		0.045	0.41	8.09	0.35	270	120	0.02	0.015	0.93	1.78			1.25	1.33				
20	7.48	12.8	300	370	0.64	0.204	4.180		0.324	0.057		0.055	0.39	7.51	0.36	268	120	0.02	0.016	0.72	1.70			1.20	1.31				
21	7.70	13.2	300	362	0.63	0.202	5.310		0.399	0.056		0.057	0.40	7.75	0.35	270	140	0.02	0.023	0.95	1.51			1.27	1.42				
22	7.54	12.6	290	360	1.38	0.221	3.980		0.306	0.064		0.050	0.36	7.80	0.51	272	110	0.02	0.017	0.60	1.72			1.24	1.40				
23	7.45	14.1	280	360	1.00	0.202	3.000		0.329	0.093		0.062	0.27	7.86	0.30	266	140	0.02	0.035	0.78	1.73			1.17	1.27				
24	6.69	13.3	220	370	0.80	0.203	3.900		0.337	0.095		0.075	0.49	6.65	0.54	240	145	0.02	0.041	0.97	1.70			1.28	1.36				
25	7.38	12.7	350	350	0.60	0.197	4.480		0.344	0.067		0.055	0.45	7.68	0.40	276	136	0.02	0.014	0.92	1.70			1.42	1.44				
26	7.08	13.0	282	362	0.60	0.213	4.050		0.326	0.072		0.063	0.52	7.54	0.48	270	110	0.02	0.020	1.09	1.59			1.21	1.31				
27	7.41	12.8	290	366	0.72	0.204	3.720		0.375	0.073		0.060	0.32	7.39	0.40	272	120	0.02	0.016	0.85	1.58			1.09	1.30				
28	7.33	12.8	284	362	0.59	0.185	3.410		0.315	0.069		0.063	0.33	7.67	0.30	280	140	0.02	0.022	0.74	1.72			1.17	1.32				
29	7.20	13.2	290	344	0.50	0.208	2.890		0.325	0.076		0.063	0.45	7.65	0.36	270	110	0.01	0.016	0.97	1.93			1.30	1.41			pass	
30	7.54	12.9	286	352	0.46	0.208	3.540		0.312	0.067		0.067	0.41	7.45	0.40	280	120	0.02	0.012	0.60	2.02			1.18	1.27				
31	7.58	12.8	292	346	0.61	0.209	3.220		0.309	0.077		0.052	0.49	7.41	0.30	260	150	0.01	0.025	0.90	1.81			1.10	1.27				
Ave.	7.54	13.0	288	358	0.78	0.207	4.07	#DIV/0!	0.330	0.059		#DIV/0!	0.061	0.38	7.80	0.37	272	120	0.02	0.017	0.85	1.74	#DIV/0!	#DIV/0!	1.15	1.28	#DIV/0!	#DIV/0!	#DIV/0!
Max	8.04	14.6	350	370	1.38	0.222	6.62	0.00	0.399	0.095		0.00	0.113	0.57	8.35	0.54	290	150	0.03	0.041	1.18	2.03	0.00	0.00	1.42	1.44	0.00	0.00	0.00
Min	6.69	11.7	220	344	0.46	0.185	2.89	0.00	0.303	0.004		0.00	0.031	0.25	6.65	0.28	240	12	0.01	0.008	0.59	1.14	0.00	0.00	0.93	1.04	0.00	0.00	0.00
Lagoon Effluent Tests			pH	Temp °C	T Chlor mg/l	Mn mg/l	Fe mg/l	Chloride mg/L	TSS mg/L																				
Monthly			6.7	14	0.01	0.96	1.06	220	5.5																				
Date			3/20/2019																										
										RTW sample results																			
										pH	Temp °C	TDS mg/L	Alkalinity mg/L as CaCO3	Calcium mg/L	Chloride mg/L	Sulfate mg/L	Remarks:												
										Date																			