

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
 MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT
 ON South Sangamon Water Commission
 FOR MONTH OF August 2017

Pumping Totals										Chemicals Applied										UF Filters				Softeners				Chloride						
Date	Time Meter Read	Hours	UF Gal. Filtered (M gal)	Water Treated (M gal)	Plant Water (M gal)	Chlorine		Fluoride		Phosphate		NanMO4		Bi-Sulfite		UF Filters				Softeners				Soft. Regen Used lbs.	Washed Water Gal.	In mg/L								
						Amt Used lbs.	Calc mg/l	Amt Used lbs.	Calc mg/l	Amt Used lbs.	Calc mg/l	Amt Used lbs.	Calc mg/l	Amt Used lbs.	Calc mg/l	1	2	3	4	1	2	3	4			EX 1	EX 2	EX 3	EX 4					
1	7:00	20.5	1.586	1.391	0.014	209.0	1.98	36.0	1.02	46.0	1.31	28.00	1.97			0.75	0.75	0.75	0.75	0.184	1.047	0.539	31	32	4,562	20,700								
2	7:00	19.0	1.487	1.366	0.013	160.0	1.61	30.0	0.87	36.0	1.04	21.00	1.56			0.75	0.75	0.75	0.75	0.140	0.981	0.506	37	31	6,843	31,050								
3	7:00	15.8	1.230	1.082	0.009	229.0	2.79	37.0	1.35	48.0	1.76	31.00	2.82			0.75	0.75	0.75	0.75	0.101	0.812	0.418	37	37	6,843	31,050								
4	7:00	18.4	1.429	1.279	0.014	246.0	2.58	46.0	1.42	53.0	1.64	32.00	2.55			0.75	0.75	0.75	0.75	0.128	0.943	0.486	35	36	4,562	20,700								
5	7:00	18.5	1.415	1.272	0.009	219.0	2.32	39.0	1.21	46.0	1.43	28.00	2.21			0.75	0.75	0.75	0.75	0.130	0.934	0.481	36	36	6,843	31,050								
6	7:00	18.5	1.463	1.288	0.014	122.0	1.25	23.0	0.71	26.0	0.80	16.00	1.27			0.75	0.75	0.75	0.75	0.153	0.966	0.497	33	35	6,843	31,050								
7	7:00	18.4	1.394	1.283	0.013	233.0	2.51	36.0	1.11	49.0	1.51	28.00	2.20			0.75	0.75	0.75	0.75	0.123	0.920	0.474	35	36	9,124	41,400								
8	7:00	18.3	1.476	1.313	0.018	235.0	2.39	46.0	1.39	51.0	1.54	32.00	2.48			0.75	0.75	0.75	0.75	0.138	0.974	0.502	33	28	4,562	20,700								
9	7:00	21.1	1.584	1.421	0.009	231.0	2.19	41.0	1.14	49.0	1.36	30.00	2.08			0.75	0.75	0.75	0.75	0.163	1.045	0.539	31	31	4,562	20,700								
10	7:00	20.7	1.587	1.443	0.009	212.0	2.00	40.0	1.10	46.0	1.26	28.00	0.44			0.75	0.75	0.75	0.75	0.161	1.047	0.540	31	32	9,124	41,400								
11	7:00	20.1	1.619	1.465	0.018	235.0	2.18	41.0	1.11	52.0	1.40	31.00	2.19			0.75	0.75	0.75	0.75	0.148	1.069	0.550	31	32	9,124	41,400								
12	7:00	20.0	1.538	1.372	0.018	117.0	1.14	22.0	0.63	25.0	0.72	16.00	1.16			0.75	0.75	0.75	0.75	0.154	1.015	0.523	30	27	2,281	10,350								
13	7:00	12.6	0.914	0.781	0.005	223.0	3.66	35.0	1.77	48.0	2.43	29.00	3.69			0.75	0.75	0.75	0.75	0.090	0.603	0.311	47	44	6,843	31,050								
14	7:00	17.2	1.351	1.275	0.015	253.0	2.81	48.0	1.49	53.0	1.64	33.00	2.68			0.75	0.75	0.75	0.75	0.139	0.892	0.459	26	27	9,124	41,400								
15	7:00	20.9	1.851	1.638	0.016	227.0	1.84	38.0	0.92	40.0	0.97	30.00	1.81			0.75	0.75	0.75	0.75	0.216	1.222	0.629	28	23	4,562	20,700								
16	7:00	19.4	1.610	1.429	0.009	153.0	1.42	29.0	0.80	33.0	0.91	19.00	1.34			0.75	0.75	0.75	0.75	0.154	1.063	0.547	30	30	6,843	31,050								
17	7:00	15.2	1.156	1.013	0.014	222.0	2.88	31.0	1.21	47.0	1.84	30.00	2.91			0.75	0.75	0.75	0.75	0.130	0.763	0.393	40	43	9,124	41,400								
18	7:00	20.4	1.543	1.347	0.019	270.0	2.62	48.0	1.41	57.0	1.67	35.00	2.55			0.75	0.75	0.75	0.75	0.168	1.018	0.525	32	29	4,562	20,700								
19	7:00	19.1	1.405	1.235	0.008	255.0	2.72	41.0	1.31	55.0	1.76	33.00	2.58			0.75	0.75	0.75	0.75	0.163	0.927	0.478	34	35	4,562	20,700								
20	7:00	20.1	1.575	1.411	0.009	159.0	1.51	31.0	0.87	34.0	0.95	20.00	1.42			0.75	0.75	0.75	0.75	0.169	1.040	0.536	29	32	9,124	41,400								
21	7:00	21.2	1.710	1.500	0.019	218.0	1.91	32.0	0.84	44.0	1.16	28.00	1.85			0.75	0.75	0.75	0.75	0.180	1.129	0.581	29	30	9,124	41,400								
22	7:00	20.8	1.679	1.511	0.019	183.0	1.63	32.0	0.84	40.0	1.05	24.00	1.59			0.75	0.75	0.75	0.75	0.187	1.108	0.571	35	29	4,562	20,700								
23	7:00	16.6	1.238	1.062	0.009	198.0	2.40	31.0	1.16	43.0	1.60	27.00	2.48			0.75	0.75	0.75	0.75	0.125	0.817	0.421	37	36	6,843	31,050								
24	7:00	19.0	1.337	1.197	0.013	181.0	2.03	34.0	1.12	27.0	0.89	24.00	2.00			0.75	0.75	0.75	0.75	0.137	0.882	0.455	38	35	4,562	20,700								
25	7:00	18.8	1.335	1.196	0.014	270.0	3.03	39.0	1.29	55.0	1.82	37.00	3.10			0.75	0.75	0.75	0.75	0.120	0.881	0.454	41	32	4,562	20,700								
26	7:00	18.8	1.320	1.186	0.004	165.0	1.87	31.0	1.03	36.0	1.20	21.00	1.78			0.75	0.75	0.75	0.75	0.123	0.871	0.449	38	34	9,124	41,400								
27	7:00	18.7	1.379	1.234	0.018	182.0	1.98	25.0	0.80	37.0	1.19	25.00	2.07			0.75	0.75	0.75	0.75	0.128	0.910	0.469	38	36	6,843	31,050								
28	7:00	21.5	1.369	1.258	0.014	212.0	2.32	39.0	1.23	45.0	1.42	22.00	2.27			0.75	0.75	0.75	0.75	0.137	0.904	0.465	36	37	2,281	10,350								
29	7:00	20.6	1.433	1.229	0.005	172.0	1.80	24.0	0.77	38.0	1.22	28.00	1.72			0.75	0.75	0.75	0.75	0.153	0.946	0.487	36	32	9,124	41,400								
30	7:00	18.8	1.375	1.222	0.018	195.0	2.13	35.0	1.13	42.0	1.36	26.00	2.14			0.75	0.75	0.75	0.75	0.118	0.908	0.468	37	33	6,843	31,050								
31	7:00	20.7	1.409	1.207	0.014	202.0	2.15	36.0	1.18	43.0	1.41	27.00	2.15			0.75	0.75	0.75	0.75	0.147	0.930	0.479	37	32	2,281	10,350								
Total			39.91																															
Max			1.64																															
Min			0.78																															
Ave.			1.29																															
RTW Sample																																		
Temp			15.0																															
TDS			434.0																															
pH			7.91																															
SU																																		
Calcium																																		
Hardness																																		
Chloride																																		
Alkalinity			262.0																															
Sulfate			67.1																															
mg/L																																		
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DIVISION OF PUBLIC WATER SUPPLIES

MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPC
ON
FOR MONTH OF August 2017
South Sangamon Water Commission

Time Meter Read	Hours Filter Ran	Total Well (M gal)	UF Filtered (M gal)	Water Treated (M gal)	Plant Water (M gal)	pH	Temp deg. C	Raw			Pre Filter			Post Filter			Post LEX			Finished			Membrane Integrity Test						
								Total Alk. mg/L	Total Hard. mg/L	Total Fe mg/L	Total Mn mg/L	Tot Fe mg/L	Tot Mn mg/L	Sol Mn mg/L	Total Fe mg/L	Total Mn mg/L	Mem Turb. NTU	Total Fe mg/L	Total Mn mg/L	pH	Total Alk. mg/L	Total Hard. mg/L	Total Fe mg/L	Total Mn mg/L	F mg/L	Dist. Cl res F = Free T = Total	PO4 3-	Bank 1	Bank 2
1	7:00	20.5	1,724	1,586	1,391	0.014	7.49	14.8	290	374	0.89	0.226	0.385	0.031	0.040	0.17	7.98	260	120	0.01	0.014	0.66	1.2	1.4	1.36				
2	7:00	19.0	1,627	1,487	1,366	0.013	7.54	14.8	292	370	1.22	0.235	0.377	0.023	0.034	0.13	7.94	268	120	0.01	0.016	0.80	1.2	1.3	1.67				
3	7:00	15.8	1,336	1,230	1,082	0.009	7.77	15.4	292	376	0.89	0.234	0.389	0.038	0.035	0.13	8.03	276	108	0.01	0.013	0.77	1.2	1.4	1.32				
4	7:00	18.4	1,531	1,429	1,279	0.014	7.46	14.8	294	364	1.10	0.235	0.380	0.034	0.037	0.10	7.99	290	110	0.01	0.013	0.76	1.3	1.4	1.13				
5	7:00	18.5	1,537	1,415	1,272	0.009	7.52	14.6	296	370	1.03	0.227	0.393	0.031	0.033	0.11	7.98	274	110	0.01	0.011	0.78	1.2	1.4	1.14				
6	7:00	18.5	1,528	1,463	1,288	0.014	7.49	14.6	292	368	1.07	0.224	0.378	0.036	0.033	0.14	7.99	262	120	0.01	0.014	0.86	1.2	1.4	1.18				
7	7:00	18.4	1,545	1,394	1,283	0.013	7.66	14.6	292	364	1.07	0.223	0.360	0.039	0.022	0.11	8.01	278	112	0.00	0.006	0.78	1.0	1.3	1.22				
8	7:00	18.3	1,568	1,476	1,313	0.018	7.70	14.9	290	362	1.01	0.224	0.392	0.033	0.032	0.14	8.00	266	106	0.00	0.015	1.24	1.2	1.3	1.18				
9	7:00	21.1	1,744	1,584	1,421	0.009	7.54	15.8	290	360	1.07	0.224	0.382	0.025	0.034	0.12	8.04	268	116	0.01	0.012	0.82	0.9	1.2	1.34				
10	7:00	20.7	1,730	1,587	1,443	0.009	7.45	15.1	292	364	1.01	0.228	0.402	0.026	0.038	0.15	7.94	270	112	0.01	0.017	0.75	1.2	1.4	1.34				
11	7:00	20.1	1,716	1,619	1,465	0.018	7.45	14.6	296	376	0.97	0.228	0.379	0.035	0.032	0.11	7.95	280	110	0.01	0.017	1.19	1.3	1.4	1.30				
12	7:00	20.0	1,681	1,538	1,372	0.018	7.47	15.3	290	364	1.21	0.223	0.368	0.029	0.027	0.12	7.92	256	118	0.01	0.014	0.80	1.2	1.4	1.36				
13	7:00	12.6	0,959	0,914	0,781	0.005	7.58	14.8	294	364	0.88	0.217	0.383	0.036	0.039	0.15	7.95	268	114	0.01	0.015	0.83	1.2	1.4	1.25				
14	7:00	17.2	1,493	1,351	1,275	0.015	7.47	14.6	292	376	1.02	0.221	0.410	0.034	0.035	0.21	7.92	280	110	0.01	0.017	0.78	1.2	1.4	1.28				
15	7:00	20.9	2,007	1,851	1,638	0.016	7.59	14.8	282	372	1.21	0.231	0.389	0.026	0.029	0.12	7.85	282	118	0.01	0.013	0.82	1.3	1.4	1.16				
16	7:00	19.4	1,712	1,610	1,429	0.009	7.50	15.6	290	374	1.06	0.225	0.378	0.027	0.029	0.14	7.91	286	120	0.01	0.012	0.70	1.2	1.4	1.25				
17	7:00	15.2	1,258	1,156	1,013	0.014	7.48	15.2	284	378	0.68	0.229	0.370	0.033	0.028	0.17	7.89	286	122	0.01	0.012	0.99	1.2	1.4	1.33				
18	7:00	20.4	1,654	1,543	1,347	0.019	7.48	14.6	292	368	1.03	0.237	0.381	0.034	0.035	0.24	7.89	290	110	0.01	0.012	0.86	1.2	1.4	1.14				
19	7:00	19.1	1,556	1,405	1,235	0.008	7.47	15.0	294	378	0.90	0.235	0.394	0.039	0.035	0.14	7.95	290	120	0.01	0.018	0.75	1.2	1.4	1.05				
20	7:00	20.1	1,712	1,575	1,411	0.009	7.45	15.1	288	372	1.14	0.227	0.393	0.039	0.032	0.26	7.88	284	120	0.01	0.014	0.43	1.3	1.4	1.12				
21	7:00	21.2	1,841	1,710	1,500	0.019	7.41	14.9	292	370	1.10	0.231	0.393	0.040	0.042	0.12	7.89	290	110	0.01	0.015	0.91	1.3	1.5	1.22				
22	7:00	20.8	1,833	1,679	1,511	0.019	7.41	15.4	294	364	1.12	0.231	0.398	0.038	0.038	0.16	7.85	290	120	0.01	0.016	1.06	1.2	1.4	1.27				
23	7:00	16.6	1,320	1,238	1,062	0.009	7.46	14.7	292	368	1.20	0.234	0.395	0.034	0.028	0.11	7.91	276	120	0.01	0.013	0.79	1.3	1.4	1.18				
24	7:00	19.0	1,459	1,337	1,197	0.013	7.49	14.8	294	374	1.25	0.241	0.393	0.041	0.034	0.15	7.91	272	116	0.01	0.015	0.69	1.2	1.4	1.39				
25	7:00	18.8	1,446	1,335	1,196	0.014	7.56	14.5	290	370	1.11	0.232	0.392	0.034	0.031	0.12	7.97	282	120	0.01	0.013	0.94	1.3	1.5	1.39				
26	7:00	18.8	1,438	1,320	1,186	0.004	7.43	15.0	296	370	1.23	0.231	0.388	0.032	0.023	0.12	7.92	268	120	0.01	0.014	0.78	1.3	1.4	1.21				
27	7:00	18.7	1,465	1,379	1,234	0.018	7.46	15.5	290	370	1.12	0.226	0.390	0.029	0.029	0.16	7.84	272	126	0.01	0.011	0.60	1.2	1.4	1.02				
28	7:00	21.5	1,501	1,369	1,258	0.014	7.43	14.9	290	364	0.88	0.229	0.386	0.030	0.028	0.16	7.91	282	120	0.01	0.014	0.72	1.3	1.4	1.18				
29	7:00	20.6	1,552	1,433	1,229	0.005	7.40	15.0	290	372	0.87	0.232	0.397	0.033	0.033	0.11	7.91	270	120	0.01	0.014	0.65	1.2	1.4	1.15				
30	7:00	18.8	1,475	1,375	1,222	0.018	7.46	15.0	294	368	1.13	0.231	0.392	0.029	0.030	0.13	7.82	284	118	0.01	0.015	0.82	1.2	1.4	1.25				
31	7:00	20.7	1,524	1,409	1,207	0.014	7.45	14.5	296	372	0.89	0.227	0.388	0.028	0.027	0.12	7.90	280	124	0.01	0.010	0.81	1.2	1.4	1.28				
Total			39,911																										
Max			1.64																										
Min			0.78																										
Ave.			1.29																										
*Enter Final Reading Last Month																													
POINT OF APPLICATION																													
METER LOCATION:																													
1. 12.5 % Chlorine Solution Fed		I certify that the information in this report is complete																											
2. 23 % Fluoride Solution Fed		and accurate to the best of my knowledge																											
3. 40 % Bisulfite Solution Fed		Reported by: _____ Cert or Req: _____																											
4. 33 % Phosphate Solution Fed		Bacterials Sent: _____																											
5. 20 % Sodium Permanganate Fed		Date: _____																											
CHLORINATION		Type of Chlorine Used _____																											
FLUORIDATION		Type of Fluoride Used _____																											
		Type of Test Instrument Used: _____																											