ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES

MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT
South Sangamon Water Commission
FOR MONTH OF November 2018 CORRECTED

		Pumping Totals				Chemicals Applied										UF Filters					Softeners								Chloride			
						Chlorine		Fluoride		Phosphate		NaMnO4		Bi-Sulfite		Each day indicate total number of hours since previous backwash. If backwashed at mid-day indicate "hours previous" / "hours following."				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.				Soft. Regen		In mg/L			
Date	Time Meter Read	Hours Filter Ran	UF Gal. Filtered (M gal)	Water Treated (M gal)	Plant Water (M gal)	Am't Used lbs.	Calc mg/l as Cl	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 as NaMnO4	Am't Used lbs.	Calc mg/l	1	2	3	4				1	2	3	4	Salt Used lbs.	Washed Water Gal.	IEX 1	IEX 2	IEX 3	IEX 4
1	7:00	18.7	1.281	1.028	0.008	210	3.06	27	0.39	37	0.82	16	0.30	17		0.66	0.66	0.66	0.66	132	0.846	0.435	630			1,058						
2	7:00	18.7	1.163	0.995	0.008	205	2.99	27	0.39	30	0.66	18	0.34	16		0.66	0.66	0.66	0.66	132	0.768	0.395	2,244	1643	521							
3	7:00	17.5	1.168	0.931	0.012	210	3.06	27	0.39	37	0.82	19	0.36	21		0.66	0.66	0.66	0.66	119	0.771	0.397			2208	653						
4	7:00	17.8	1.097	0.989	0.008	240	3.50	27	0.39	43	0.95	17	0.32	18		0.66	0.66	0.66	0.66	121	0.724	0.373	2132	1,810		2,255						
5	7:00	18.2	1.230	0.987	0.012	196	2.86	32	0.47	7	0.16	18	0.34	16		0.66	0.66	0.66	0.66	136	0.812	0.418			1305							
6	7:00	21.0	1.324	1.121	0.004	212	3.09	28	0.41	12	0.27	19	0.36	7		0.66	0.66	0.66	0.66	154	0.874	0.450	1559	1431		1913						
7	7:00	18.4	1.189	0.947	0.011	225	3.28	29	0.42	12	0.27	19	0.36	6		0.66	0.66	0.66	0.66	128	0.785	0.404			452							
8	7:00	18.6	1.155	1.005	0.005	218	3.18	26	0.38	23	0.51	19	0.36	9		0.66	0.66	0.66	0.66	129	0.762	0.393	833	1515	1958	1,641						
9	7:00	18.4	1.198	0.974	0.016	201	2.93	29	0.42	39	0.86	21	0.39	10		0.66	0.66	0.66	0.66	128	0.791	0.407										
10	7:00	18.5	1.158	0.937	0.000	221	3.22	31	0.45	38	0.84	18	0.34	9		0.66	0.66	0.66	0.66	126	0.764	0.394	219	1946	1541	1300						
11	7:00	17.1	1.116	0.971	0.016	194	2.83	30	0.44	37	0.82	16	0.30	6		0.66	0.66	0.66	0.66	119	0.737	0.379	2,057									
12	7:00	18.8	1.195	0.990	0.004	203	2.96	28	0.41	38	0.84	18	0.34	7		0.66	0.66	0.66	0.66	131	0.789	0.406		1735	533	51						
13	7:00	21.3	1.370	1.147	0.012	219	3.19	30	0.44	35	0.78	18	0.34	9		0.66	0.66	0.66	0.66	146	0.904	0.466	852		1949	1,239						
14	7:00	19.3	1.208	1.002	0.011	241	3.51	27	0.39	36	0.80	18	0.34	6		0.66	0.66	0.66	0.66	129	0.797	0.411		2056								
15	7:00	18.0	1.137	0.972	0.003	230	3.35	28	0.41	38	0.84	18	0.34	6		0.66	0.66	0.66	0.66	128	0.614	0.387	604		1,400	838						
16	7:00	18.1	1.158	0.974	0.013	213	3.11	29	0.42	11	0.24	19	0.36	6		0.66	0.66	0.66	0.66	127	0.764	0.394		2221								
17	7:00	18.8	1.151	0.996	0.004	245	3.57	26	0.38	4	0.09	19	0.36	13		0.66	0.66	0.66	0.66	122	0.760	0.391	624		816	939						
18	7:00	18.6	1.155	0.938	0.012	219	3.19	29	0.42	7	0.16	18	0.34	9		0.66	0.66	0.66	0.66	116	0.762	0.393		804	2117	1800						
19	7:00	19.9	1.234	1.054	0.010	222	3.24	32	0.47	6	0.13	19	0.36	15		0.66	0.66	0.66	0.66	128	0.814	0.420	554									
20	7:00	21.5	1.358	1.137	0.006	227	3.31	30	0.44	7	0.16	19	0.36	12		0.66	0.66	0.66	0.66	155	0.896	0.462	2,047	317	931	1,033						
21	7:00	20.1	1.227	1.059	0.016	215	3.13	28	0.41	7	0.16	19	0.36	14		0.66	0.66	0.66	0.66	125	0.810	0.417										
22	7:00	19.0	1.143	0.971	0.000	210	3.06	29	0.42	9	0.20	17	0.32	12		0.66	0.66	0.66	0.66	129	0.754	0.389	1359	548	218	1033						
23	7:00	20.4	1.306	1.068	0.016	226	3.30	31	0.45	11	0.24	20	0.37	16		0.66	0.66	0.66	0.66	146	0.862	0.444			1454	2,249						
24	7:00	20.0	1.273	1.042	0.007	220	3.21	33	0.48	10	0.22	20	0.37	5		0.66	0.66	0.66	0.66	141	0.840	0.433	904	618								
25	7:00	19.3	1.225	1.030	0.007	210	3.06	29	0.42	1	0.02	18	0.34	14		0.66	0.66	0.66	0.66	137	0.809	0.416			424	1,228						
26	7:00	19.3	1.220	1.035	0.007	210	3.06	30	0.44	13	0.29	17	0.32	14		0.66	0.66	0.66	0.66	139	0.805	0.415	951	710	1516	1950						
27	7:00	21.0	1.392	1.170	0.016	232	3.38	29	0.42	13	0.29	18	0.34	12		0.66	0.66	0.66	0.66	154	0.919	0.473										
28	7:00	18.5	1.197	0.998	0.000	210	3.06	28	0.41	20	0.44	19	0.36	11		0.66	0.66	0.66	0.66	134	0.790	0.407	824	1059	658	1341						
29	7:00	18.8	1.229	1.020	0.016	213	3.11	27	0.39	35	0.78	18	0.34	15		0.66	0.66	0.66	0.66	132	0.811	0.418			2323							
30	7:00	18.9	1.163	0.976	0.003	224	3.27	27	0.39	39	0.86	9	0.17	12		0.66	0.66	0.66	0.66	134	0.768	0.395	540	942		1,702						
31	7:00																															
Total		572.5	36.42	30.464	0.263	6521	95.07	863	12.58	655	14.52	541	10.13	343	0					3977	23.902	12.382	18,933	19,355	22,324	24,223	0	0	0	0	0	0
Max		21.5	1.392	1.17	0.016	245	3.57	33	0.48	43	0.95	21	0.39	21	0					155	0.919	0.473	2,244	2,221	2,323	2,255	0	0	0	0	0	0
Min		17.1	1.097	0.931	0.000	194	2.83	26	0.38	1	0.02	9	0.17	5	0					116	0.614	0.373	219	317	218	51	0	0	0	0	0	0
Ave.		19.1	1.214	1.015	0.009	217	3.17	28.8	0.42	21.8	0.48	18.0	0.34	11.4333	#DIV/0!	0.66	0.66	0.66	0.66	133	0.797	0.413	1,114	1,290	1,240	1,346	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

*Enter Final Reading Last Month

POINT OF APPLICATION

METER LOCATION:

1	12.5	% Chlorine Solution Fed
2	19	% Fluoride Solution Fed
3	40	% BisulfiteSolution Fed
4	33	% Phosphate Solution Fed
5	20	% Sodium Permanganate Fed

I certify that the information in this report is complete
and accurate to the best of my knowledge
Reported by: _____ Cert or Req: 7337
Bacterials Sent: 11/5/2018
Date:

CHLORINATION
Type of Chlorine Used
Chlorine Gas
Calcium Hypochlorite ____%
Sodium Hypochlorite _12.5 %
Chlorine Test Kit Used: _____

FLUORIDATION
Type of Fluoride Used
Hydrofluosilicic Acid _19___%F
Sodium Fluoride ____%F
Other _____
Type of Test Instrument Used:

RTW Sample

Temp	°C
TDS	mg/L
pH	SU
Alkalinity	mg/L
Calcium Hardness	mg/L
Chloiride	mg/L
Sulfate	mg/L

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES

MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT

South Sangamon Water Commission

FOR MONTH OF November 2018 CORRECTED

			Pumping Totals				Chemical Tests																						Membrane Integrity Test		
							Raw						Pre Filter			Post Filter			Post IEX		Finished								Post Filter		
Date	Time Meter Read	Hours Filter Ran	Total Well (M gal)	UF Gallons Filtered (M gal)	Water Treated (M gal)	Plant Water (M gal)	pH	Temp deg. C	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 F mg/L	Dist. Cl res F = Free T = Total T mg/L	PO4 3-	Bank 1	Bank 2	Bank 3
1	7:00	18.7	1.358	1.281	1.028	0.008	7.44	16.1	284	360	0.93	0.240		0.422	0.028		0.03	0.39			7.43	274	108	0.01	0.033	0.6	1.53	1.84	1.3			
2	7:00	18.7	1.340	1.163	0.995	0.008	7.37	14.8	282	360	0.99	0.250		0.418	0.031		0.036	0.33			7.46	280	100	0.01	0.036	0.75	1.54	1.81	130			
3	7:00	17.5	1.246	1.168	0.931	0.012	7.43	13.8	278	364	0.97	0.244		0.448	0.066		0.053	0.41			7.52	282	110	0.01	0.047	0.83	1.41	1.59	1.31			
4	7:00	17.8	1.225	1.097	0.989	0.008	7.51	14.2	280	358	0.71	0.245		0.399	0.133		0.118	0.39			7.64	278	112	0.01	0.082	0.92	1.41	1.69	1.35			
5	7:00	18.2	1.277	1.230	0.987	0.012	7.93	14.3	280	368	1.04	0.259		0.354	0.252		0.188	0.3			8.2	300	112	0.0	0.083	0.83	1.41	1.68	1.36			
6	7:00	21.0	1.474	1.324	1.121	0.004	7.89	14.3	288	362	1.44	0.277		0.437	0.075		0.054	0.45			8.02	290	120	0.0	0.062	0.77	1.40	1.67	1.3			
7	7:00	18.4	1.309	1.189	0.947	0.011	8.02	14.3	280	356	1.51	0.249		0.371	0.146		0.111	0.3			7.94	280	116	0.01	0.061	0.87	1.47	1.71	1.41			
8	7:00	18.6	1.279	1.155	1.005	0.005	7.56	14.4	274	360	1.29	0.269		0.462	0.032		0.048	0.27			8.09	282	118	0.01	0.072	1.13	1.39	1.64	1.48			
9	7:00	18.4	1.324	1.198	0.974	0.016	7.84	13.8	288	360	1.16	0.265		0.406	0.091		0.087	0.45			8.11	240	114	0.01	0.048	0.76	1.29	1.58	1.4			
10	7:00	18.5	1.273	1.158	0.937	0.000	7.75	14.0	280	360	1.27	0.258		0.432	0.083		0.067	0.37			8.07	250	116	0.0	0.056	0.71	1.33	1.65	1.45			
11	7:00	17.1	1.224	1.116	0.971	0.016	7.86	14.2	280	370	1.38	0.266		0.444	0.071		0.072	0.33			8.11	260	114	0.0	0.062	0.79	1.45	1.73	1.43			
12	7:00	18.8	1.303	1.195	0.990	0.004	7.54	14.2	280	370	1.30	0.277		0.389	0.6		0.074	0.39			8.22	260	118	0.01	0.057	0.84	1.38	1.67	1.37			
13	7:00	21.3	1.533	1.370	1.147	0.012	7.97	13.4	282	362	1.25	0.283		0.401	0.189		0.152	0.52			8.38	252	110	0.01	0.050	0.72	1.55	1.82	1.36			
14	7:00	19.3	1.327	1.208	1.002	0.011	8.05	13.9	274	356	1.07	0.262		0.426	0.113		0.074	0.27			7.85	242	108	0.0	0.058	0.82	1.39	1.77	1.43			
15	7:00	18.0	1.251	1.137	0.972	0.003	7.82	14.0	290	368	1.15	0.265		0.449	0.055		0.051	0.32			8.17	270	116	0.01	0.068	0.84	1.40	1.62	1.33			
16	7:00	18.1	1.280	1.158	0.974	0.013	7.84	14.9	288	362	1.07	0.269		0.43	0.079		0.074	0.44			8.24	278	112	0.0	0.061	0.67	1.38	1.65	1.18			
17	7:00	18.8	1.267	1.151	0.996	0.004	7.54	14.3	280	354	1.30	0.264		0.47	0.042		0.035	0.2			8.11	268	110	0.01	0.063	0.49	1.36	1.64	1.37			
18	7:00	18.6	1.268	1.155	0.938	0.012	7.92	14.3	286	354	1.26	0.272		0.431	0.056		0.042	0.4			8.20	274	114	0.01	0.059	0.59	1.47	1.70	1.15			
19	7:00	19.9	1.350	1.234	1.054	0.010	7.38	14.8	280	360	1.15	0.270		0.351	0.224		0.162	0.26			7.47	240	118	0.01	0.071	0.82	1.46	1.73	1.31			
20	7:00	21.5	1.504	1.358	1.137	0.006	7.83	14.3	274	364	0.96	0.267		0.386	0.152		0.143	0.2			8.09	266	112	0.01	0.062	0.76	1.42	1.62	1.35			
21	7:00	20.1	1.361	1.227	1.059	0.016	7.78	14.0	282	358	1.71	0.276		0.435	0.094		0.069	0.35			8.35	246	120	0.0	0.070	0.78	1.44	1.69	1.36			
22	7:00	19.0	1.250	1.143	0.971	0.000	7.10	14.0	284	362	2.10	0.275		0.356	0.16		0.144	0.26			8.25	256	110	0.0	0.057	1.03	1.30	1.59	1.3			
23	7:00	20.4	1.459	1.306	1.068	0.016	7.71	14.2	290	356	0.92	0.263		0.421	0.044		0.066	0.21			8.07	250	110	0.0	0.062	0.78	1.43	1.69	1.41			
24	7:00	20.0	1.404	1.273	1.042	0.007	7.62	14.1	284	360	1.22	0.275		0.43	0.087		0.064	0.24			8.12	250	116	0.0	0.057	0.88	1.45	1.65	1.38			
25	7:00	19.3	1.352	1.225	1.030	0.007	7.72	14.2	280	362	1.12	0.270		0.388	0.097		0.089	0.21			8.15	258	112	0.0	0.088	0.76	1.40	1.70	1.26			
26	7:00	19.3	1.349	1.220	1.035	0.007	7.82	13.7	284	358	1.20	0.275		0.369	0.164		0.164	0.39			8.14	260	114	..01	0.110	1.01	1.22	1.52	1.5			
27	7:00	21.0	1.515	1.392	1.170	0.016	7.73	13.7	280	356	1.51	0.271		0.434	0.037		0.057	0.44			8.21	262	110	0.0	0.053	0.77	1.49	1.75	1.41			
28	7:00	18.5	1.320	1.197	0.998	0.000	7.78	13.8	276	360	1.16	0.247		0.41	0.027		0.038	0.41			8.01	240	118	0.0	0.031	0.92	1.27	1.58	1.3			
29	7:00	18.8	1.354	1.229	1.020	0.016	7.80	14.0	282	360	0.84	0.259		0.437	0.044		0.055	0.22			8.22	252	116	0.01	0.029	0.48	1.68	1.84	1.31			
30	7:00	18.9	1.292	1.163	0.976	0.003	7.86	14.3	276	358	1.25	0.243		0.263	0.232		0.218	0.48			8.01	260	110	0.01	0.060	1.02	1.47	1.79	1.25			
31																																
Total		573	40.07	36.42	30.46	0.263																										
Max		21.5	1.5	1.4	1.2	0.016	8.05	16.1	290	370	2.10	0.283	0.0	0.470	0.600	0.0	0.218	0.52	0.0	0.0	8.38	300	120	0.01	0.110	1.13	1.68	1.84	130.00	0.0	0.0	0.0
Min		17.1	1.2	1.1	0.9	0.000	7.10	13.4	274	354	0.71	0.240	0.0	0.263	0.027	0.0	0.030	0.20	0.0	0.0	7.43	240	100	0.00	0.029	0.48	1.22	1.52	1.15	0.0	0.0	0.0
Ave.		19.1	1.3	1.2	1.0	0.009	7.71	14.2	282	361	1.21	0.264	#DIV/0!	0.409	0.117	#DIV/0!	0.088	0.34	#DIV/0!	#DIV/0!	8.03	263	113	0.01	0.060	0.80	1.42	1.69	5.64	#DIV/0!	#DIV/0!	#DIV/0!

*Enter Final Reading Last Month

POINT OF APPLICATION

METER LOCATION:

1	12.5 %	Chlorine Solution Fed
2	19 %	Fluoride Solution Fed
3	40 %	Bisulfite Solution Fed
4	33 %	Phosphate Solution Fed
5	20 %	Sodium Permanganate Fed

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

Reported by: Cert or Req: 7337

Bacterials Sent: 11/5/2018

Date:

CHLORINATION

Type of Chlorine Used

Chlorine Gas

Calcium Hypochlorite ____%

Sodium Hypochlorite _12.5 %

Chlorine Test Kit Used: _____

FLUORIDATION

Type of Fluoride Used

Hydrofluosilicic Acid _19___%F

Sodium Fluoride ____%F

Other _____

Type of Test Instrument Used: