ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF PUBLIC WATER SUPPLIES

MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT

ON South Sangamon Water Commission

FOR MONTH OI February 2018

		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	Water	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	Am't Used lbs.	Calc mg/l	Am't Used lbs.	Calc mg/l	Am't Used lbs.	Calc mg/l	Am't Used lbs.	Calc mg/l	1	2	3	4	Wash Water Gal. (M gal)	Softened Gal. (M gal)	Bypassed Gal (M gal)	1	2	3	4	Salt Used lbs.	Washed Water Gal.	IEX 1	IEX 2	IEX 3	IEX 4
1	7:00	15.2	1.039	0.930	0.004	173.0	2.50	34.0	1.45	6.0	0.26	34.00	3.62			0.66	0.66	0.66	0.66	0.117	0.686	0.353	44	47		40	6,843	31,050				
2	7:00	17.0	1.203	1.076	0.013	189.0	2.35	12.0	0.44	7.0	0.26	30.00	2.81			0.66	0.66	0.66	0.66	0.129	0.794	0.409			50	33	4,562	20,700				
3	7:00	18.9	1.296	1.143	0.009	164.0	1.90	11.0	0.38	8.0	0.28	26.00	2.24			0.66	0.66	0.66	0.66	0.144	0.855	0.441	39	38			4,562	20,700				
4	7:00	16.9	1.221	1.083	0.009	120.0	1.47	18.0	0.66	5.0	0.18	18.00	1.64			0.66	0.66	0.66	0.66	0.142	0.806	0.415			38	35	4,562	20,700				
5	7:00	16.9	1.208	1.071	0.009	126.0	1.56	4.0	0.15	10.0	0.37	20.00	1.86			0.66	0.66	0.66	0.66	0.132	0.797	0.411	41	41	43	39	9,124	41,400				
6	7:00	15.7	1.075	0.931	0.017	94.0	1.31	7.0	0.30	1.0	0.04	15.00	1.55			0.66	0.66	0.66	0.66	0.128	0.710	0.366					0	0				
7	7:00	10.7	0.706	0.626	0.000	144.0	3.06	21.0	1.33	3.0	0.19	23.00	3.54			0.66	0.66	0.66	0.66	0.087	0.466	0.240	57	46		49	6,843	31,050				
8	7:00	15.2	1.060	0.940	0.013	134.0	1.89	6.0	0.25	3.0	0.13	21.00	2.18			0.66	0.66	0.66	0.66	0.116	0.700	0.360			53		2,281	10,350				
9	7:00	15.3	1.008	0.923	0.005	143.0	2.13	18.0	0.77	4.0	0.17	23.00	2.52			0.66	0.66	0.66	0.66	0.088	0.665	0.343	48	58		42	6,843	31,050				
10	7:00	15.3	1.073	0.940	0.014	149.0	2.08	8.0	0.34	4.0	0.17	24.00	2.49			0.66	0.66	0.66	0.66	0.099	0.708	0.365			45		2,281	10,350				
11	7:00	14.3	1.000	0.920	0.003	112.0	1.68	13.0	0.56	4.0	0.17	18.00	1.99			0.66	0.66	0.66	0.66	0.105	0.660	0.340	48	47		43	6,843	31,050				
12	7:00	15.4	1.087	0.948	0.018	137.0	1.89	28.0	1.17	4.0	0.17	22.00	2.23			0.66	0.66	0.66	0.66	0.135	0.717	0.370			45		2,281	10,350				
13	7:00	15.2	1.011	0.917	0.000	135.0	2.00	21.0	0.91	5.0	0.22	21.00	2.31			0.66	0.66	0.66	0.66	0.086	0.667	0.344	47	48	46	42	9,124	41,400				
14	7:00	15.7	1.086	0.950	0.018	143.0	1.97	30.0	1.25	7.0	0.29	23.00	2.32			0.66	0.66	0.66	0.66	0.116	0.717	0.369					0	0				
15	7:00	15.7	1.028	0.919	0.000	137.0	2.00	12.0	0.52	5.0	0.22	22.00	2.39			0.66	0.66	0.66	0.66	0.119	0.678	0.350	47	47	47	41	9,124	41,400				
16	7:00	15.7	1.093	0.945	0.017	140.0	1.92	26.0	1.09	5.0	0.21	22.00	2.25			0.66	0.66	0.66	0.66	0.122	0.721	0.372				41	2,281	10,350				
17	7:00	15.4	1.048	0.921	0.005	151.0	2.16	9.0	0.39	7.0	0.30	24.00	2.53			0.66	0.66	0.66	0.66	0.111	0.692	0.356	46	46	45		6,843	31,050				
18	7:00	14.7	1.035	0.934	0.012	132.0	1.91	22.0	0.93	6.0	0.25	21.00	2.24			0.66	0.66	0.66	0.66	0.093	0.683	0.352				43	2,281	10,350				
19	7:00	14.8	1.018	0.921	0.005	108.0	1.59	0.0	0.00	8.0	0.34	17.00	1.84			0.66	0.66	0.66	0.66	0.082	0.672	0.346	48	48	47		6,843	31,050				
20	7:00	14.9	1.037	0.943	0.013	145.0	2.10	12.0	0.50	10.0	0.42	22.00	2.37			0.66	0.66	0.66	0.66	0.090	0.684	0.353				48	2,281	10,350				
21	7:00	13.6	0.938	0.855	0.005	115.0	1.84	13.0	0.60	8.0	0.37	25.00	2.94			0.66	0.66	0.66	0.66	0.119	0.619	0.319	45	47	46	31	9,124	41,400				
22	7:00	20.0	1.351	1.155	0.017	165.0	1.83	12.0	0.41	13.0	0.45	19.00	1.58			0.66	0.66	0.66	0.66	0.156	0.892	0.459					0	0				
23	7:00	12.8	0.847	0.766	0.000	161.0	2.85	26.0	1.34	16.0	0.83	25.00	3.26			0.66	0.66	0.66	0.66	0.090	0.559	0.288	47	47	45	43	9,124	41,400				
24	7:00	18.1	1.280	1.116	0.018	303.0	3.55	3.0	0.11	12.0	0.43	16.00	1.41			0.66	0.66	0.66	0.66	0.133	0.845	0.435					0	0				
25	7:00	10.6	0.745	0.675	0.000	122.0	2.45	16.0	0.94	13.0	0.76	20.00	2.96			0.66	0.66	0.66	0.66	0.083	0.492	0.253	50	49	51	48	9,124	41,400				
26	7:00	14.9	1.050	0.928	0.018	138.0	1.97	26.0	1.11	22.0	0.94	22.00	2.36			0.66	0.66	0.66	0.66	0.127	0.693	0.357					0	0				
27	7:00	15.1	1.000	0.899	0.000	139.0	2.08	8.0	0.35	26.0	1.14	22.00	2.50			0.66	0.66	0.66	0.66	0.090	0.660	0.340	48	48	45	46	9,124	41,400				
28	7:00	15.4	1.069	0.928	0.017	129.0	1.81	18.0	0.77	26.0	1.11	20.00	2.14			0.66	0.66	0.66	0.66	0.121	0.706	0.363					0	0				
29	7:00															0.66	0.66	0.66	0.66												
30	7:00															0.66	0.66	0.66	0.66												
31	7:00															0.66	0.66	0.66	0.66												
Total				26.30																											
Max				1.16																											
Min				0.63																											
Ave.				0.94																											

RTW Sample

Temp	14.1	°C	Alkalinity	282.0	mg/L
TDS	454.0	mg/L	Calcium Hardness	62.6	mg/L
pH	7.77	SU	Chloiride	34.4	mg/L

Sulfate 60.3 mg/L

*Enter Final Reading Last Month

POINT OF APPLICATION

METER LOCATION:

1. 12.5 % Chlorine Solution Fed
2. 23 % 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:

Bacterials Sent:

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 _23___%F

Sodium Fluoride ____%F

Other _____

Type of Test Instrument Used:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPC

ON South Sangamon Water Commission

DIVISION OF PUBLIC WATER SUPPLIES

FOR MONTH OF February 2018

			Pumping Totals				Chemical Test																							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		PO4 3-			
																												F mg/L	T mg/L		Bank 1	Bank 2	Bank 3
1	7:00	15.2	1.143	1.039	0.930	0.004	7.27	13.3	274	340	0.47	0.210		0.218	0.200		0.183	0.08			7.76	280	110	0.01	0.046	0.76	1.2	1.4	1.23			
2	7:00	17.0	1.298	1.203	1.076	0.013	7.39	13.0	280	350	0.55	0.209		0.369	0.024		0.030	0.11			7.64	272	110	0.01	0.014	0.73	1.2	1.4	1.38			
3	7:00	18.9	1.413	1.296	1.143	0.009	7.24	13.2	288	350	0.79	0.205		0.382	0.025		0.022	0.16			7.80	270	110	0.01	0.009	0.93	1.3	1.4	1.38			
4	7:00	16.9	1.334	1.221	1.083	0.009	7.47	12.9	288	354	0.81	0.203		0.368	0.019		0.020	0.10			7.90	272	116	0.01	0.012	0.98	1.0	1.3	1.47			
5	7:00	16.9	1.308	1.208	1.071	0.009	7.24	13.1	280	350	0.82	0.202		0.359	0.024		0.018	0.12			7.58	264	110	0.01	0.012	0.78	1.3	1.4	1.35			
6	7:00	15.7	1.180	1.075	0.931	0.017	7.25	13.3	284	370	0.64	0.202		0.363	0.023		0.030	0.09			7.69	254	110	0.01	0.009	0.75	1.2	1.4	1.34			
7	7:00	10.7	0.777	0.706	0.626	0.000	7.39	12.6	278	358	0.56	0.199		0.369	0.022		0.036	0.13			7.65	278	110	0.01	0.015	0.77	1.2	1.4	1.28			
8	7:00	15.2	1.165	1.060	0.940	0.013	7.42	13.1	270	346	0.80	0.205		0.379	0.033		0.036	0.13			7.76	276	106	0.02	0.017	0.61	1.3	1.5	0.86			
9	7:00	15.3	1.106	1.008	0.923	0.005	7.28	13.8	280	350	0.63	0.198		0.361	0.026		0.022	0.15			7.59	280	100	0.02	0.013	0.89	1.2	1.3	1.21			
10	7:00	15.3	1.169	1.073	0.940	0.014	7.50	13.0	288	356	0.81	0.205		0.370	0.027		0.022	0.13			7.80	252	108	0.01	0.010	0.64	1.2	1.3	1.61			
11	7:00	14.3	1.092	1.000	0.920	0.003	7.52	13.0	288	362	0.69	0.204		0.375	0.021		0.020	0.11			7.85	270	110	0.00	0.009	0.75	0.9	1.1	1.12			
12	7:00	15.4	1.200	1.087	0.948	0.018	7.44	13.6	280	350	0.56	0.198		0.359	0.025		0.031	0.20			7.61	268	110	0.01	0.011	0.81	1.2	1.4	1.05			
13	7:00	15.2	1.095	1.011	0.917	0.000	7.36	13.4	284	350	0.62	0.211		0.377	0.023		0.031	0.10			7.70	260	106	0.02	0.011	0.88	1.2	1.3	1.22			
14	7:00	15.7	1.203	1.086	0.950	0.018	7.28	13.6	276	350	0.73	0.200		0.368	0.017		0.016	0.15			7.87	266	108	0.02	0.010	0.86	1.1	1.2	1.14			
15	7:00	15.7	1.117	1.028	0.919	0.000	7.44	13.9	280	350	0.85	0.196		0.373	0.025		0.023	0.15			7.74	240	104	0.01	0.013	0.74	1.2	1.4	1.38			
16	7:00	15.7	1.195	1.093	0.945	0.017	7.37	13.5	280	352	0.80	0.206		0.367	0.022		0.051	0.17			7.80	258	104	0.03	0.010	0.58	1.2	1.3	1.10			
17	7:00	15.4	1.145	1.048	0.921	0.005	7.34	13.4	272	352	0.58	0.214		0.373	0.020		0.037	0.14			7.82	272	104	0.01	0.009	0.71	1.2	1.3	0.96			
18	7:00	14.7	1.145	1.035	0.934	0.012	7.53	13.5	290	354	0.53	0.205		0.392	0.027		0.021	0.11			7.91	282	110	0.00	0.010	0.96	0.9	1.2	1.20			
19	7:00	14.8	1.113	1.018	0.921	0.005	7.39	13.7	288	348	1.10	0.205		0.369	0.023		0.024	0.13			7.86	278	112	0.00	0.018	0.92	1.1	1.3	1.13			
20	7:00	14.9	1.132	1.037	0.943	0.013	7.33	14.2	284	356	0.85	0.207		0.394	0.033		0.030	0.16			7.78	272	110	0.02	0.012	0.73	1.1	1.3	0.74			
21	7:00	13.6	1.029	0.938	0.855	0.005	7.29	14.0	284	350	0.65	0.208		0.381	0.032		0.046	0.29			7.77	260	110	0.00	0.017	0.70	1.2	1.4	1.09			
22	7:00	20.0	1.483	1.351	1.155	0.017	7.34	13.0	284	350	0.61	0.208		0.356	0.020		0.030	0.19			7.84	280	100	0.01	0.007	0.63	1.2	1.4	1.27			
23	7:00	12.8	0.925	0.847	0.766	0.000	7.31	13.3	282	350	0.68	0.195		0.371	0.020		0.038	0.13			7.80	282	108	0.01	0.004	0.87	1.2	1.4	1.18			
24	7:00	18.1	1.400	1.280	1.116	0.018	7.38	13.8	280	350	0.61	0.196		0.373	0.019		0.016	0.31			7.85	272	100	0.01	0.007	0.50	1.1	1.3	0.81			
25	7:00	10.6	0.850	0.745	0.675	0.000	7.56	13.5	286	354	1.46	0.215		0.376	0.018		0.033	0.14			7.86	272	118	0.00	0.009	0.89	1.1	1.2	1.12			
26	7:00	14.9	1.152	1.050	0.928	0.018	7.34	14.3	280	350	1.23	0.205		0.349	0.023		0.027	0.31			7.85	270	110	0.02	0.009	0.66	1.2	1.3	1.09			
27	7:00	15.1	1.107	1.000	0.899	0.000	7.36	13.7	280	358	1.14	0.212		0.375	0.027		0.033	0.15			7.74	265	100	0.02	0.010	0.66	1.3	1.4	1.03			
28	7:00	15.4	1.172	1.069	0.928	0.017	7.42	13.8	280	350	1.06	0.208		0.385	0.023		0.027	0.10			7.75	268	100	0.01	0.013	0.69	1.2	1.3	1.06			
29	7:00																															
30	7:00																															
31	7:00																															
Total					26.30																											
Max					1.16																											
Min					0.63																											
Ave.					0.94																											

*Enter Final Reading Last Month

POINT OF APPLICATION

METER LOCATION:

1. 12.5 % Chlorine Solution Fed
2. 23 % 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:

Bacterials Sent:

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 23 %F

Sodium Fluoride ____%F

Other _____

Type of Test Instrument Used: