

DIVISION OF PUBLIC WATER SUPPLIES

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

Date	Time Meter	Hours Filtered	UF Gal. Filtered	Water Treated (M gal)	Plant Water (M gal)	Chlorine		Fluoride		Phosphate Applied		NanMO4		Bi-Sulfite		UF Filters				Softeners				Chloride												
						Used lbs.	Calc mg/l	Used lbs.	Calc mg/l	Used lbs.	Calc mg/l	Used lbs.	Calc mg/l	Used lbs.	Calc mg/l	1	2	3	4	Used lbs.	Washed Water Gal.	1	2	3	4	Used lbs.	Washed Water Gal.	IEX 1	IEX 2	IEX 3	IEX 4					
1	7:00	18.7	1,309	1,182	0.004	206.0	2.36	35.0	1.17	46.0	1.54	27.00	2.31			0.75	0.75	0.75	0.75	0.75	0.75	0.119	0.864	0.445	37	37	35	33	9.124	41,400						
2	7:00	19.3	1,395	1,219	0.018	202.0	2.17	38.0	1.23	37.0	1.20	27.00	2.15			0.75	0.75	0.75	0.75	0.75	0.75	0.136	0.921	0.474	35	35	35	35	4.562	20,700						
3	7:00	19.0	1,374	1,220	0.014	219.0	2.39	41.0	1.33	31.0	1.01	28.00	2.33			0.75	0.75	0.75	0.75	0.75	0.75	0.124	0.907	0.467	36	36	36	36	4.562	20,700						
4	7:00	19.2	1,353	1,222	0.009	146.0	1.62	27.0	0.87	27.0	0.87	19.00	1.56			0.75	0.75	0.75	0.75	0.75	0.75	0.128	0.893	0.460	35	37	35	32	9.124	41,400						
5	7:00	19.9	1,403	1,248	0.013	220.0	2.35	35.0	1.11	41.0	1.30	25.00	2.00			0.75	0.75	0.75	0.75	0.75	0.75	0.133	0.926	0.477	35	35	33	32	4.562	20,700						
6	7:00	19.5	1,382	1,237	0.010	232.0	2.52	30.0	0.96	46.0	1.47	27.00	2.18			0.75	0.75	0.75	0.75	0.75	0.75	0.124	0.912	0.470	35	35	35	32	9.124	41,400						
7	7:00	18.5	1,372	1,248	0.018	239.0	2.61	39.0	1.24	46.0	1.46	29.00	2.32			0.75	0.75	0.75	0.75	0.75	0.75	0.146	0.906	0.466	36	37	37	37	4.562	20,700						
8	7:00	20.9	1,415	1,237	0.014	249.0	2.64	38.0	1.22	59.0	1.89	35.00	2.80			0.75	0.75	0.75	0.75	0.75	0.75	0.132	0.934	0.481	34	31	34	31	4.562	20,700						
9	7:00	19.8	1,438	1,282	0.004	193.0	2.01	33.0	1.02	41.0	1.27	24.00	1.85			0.75	0.75	0.75	0.75	0.75	0.75	0.142	0.949	0.489	35	34	26	30	9.124	41,400						
10	7:00	21.5	1,532	1,374	0.018	223.0	2.18	26.0	0.75	44.0	1.27	28.00	1.92			0.75	0.75	0.75	0.75	0.75	0.75	0.161	1.011	0.521	32	36	29	30	9.124	41,400						
11	7:00	20.7	1,539	1,370	0.018	253.0	2.46	43.0	1.24	30.0	0.87	30.00	2.06			0.75	0.75	0.75	0.75	0.75	0.75	0.136	1.016	0.523	32	32	29	29	4.562	20,700						
12	7:00	20.5	1,564	1,392	0.014	217.0	2.08	25.0	0.71	26.0	0.74	26.00	1.78			0.75	0.75	0.75	0.75	0.75	0.75	0.159	1.032	0.532	32	31	29	29	6.843	31,050						
13	7:00	20.1	1,482	1,357	0.009	243.0	2.46	39.0	1.14	39.0	1.14	29.00	2.05			0.75	0.75	0.75	0.75	0.75	0.75	0.135	0.978	0.504	33	33	33	33	6.843	31,050						
14	7:00	20.7	1,541	1,369	0.014	236.0	2.30	25.0	0.72	45.0	1.30	28.00	1.92			0.75	0.75	0.75	0.75	0.75	0.75	0.160	1.017	0.524	33	33	28	28	9.124	41,400						
15	7:00	20.2	1,513	1,364	0.018	319.0	3.16	53.0	1.54	246.0	7.14	38.00	2.68			0.75	0.75	0.75	0.75	0.75	0.75	0.135	0.999	0.514	34	34	27	27	2.281	10,350						
16	7:00	21.2	1,508	1,344	0.005	210.0	2.09	25.0	0.74	43.0	1.27	25.00	1.74			0.75	0.75	0.75	0.75	0.75	0.75	0.161	0.995	0.513	34	34	29	29	9.124	41,400						
17	7:00	21.1	1,541	1,389	0.018	217.0	2.11	35.0	1.00	44.0	1.25	25.00	1.71			0.75	0.75	0.75	0.75	0.75	0.75	0.146	1.017	0.524	32	31	33	29	9.124	41,400						
18	7:00	20.8	1,568	1,411	0.019	239.0	2.28	40.0	1.12	47.0	1.32	28.00	1.89			0.75	0.75	0.75	0.75	0.75	0.75	0.153	1.035	0.533	31	32	31	31	6.843	31,050						
19	7:00	20.6	1,540	1,396	0.013	239.0	2.33	32.0	0.91	47.0	1.33	29.00	2.00			0.75	0.75	0.75	0.75	0.75	0.75	0.181	1.016	0.524	36	32	31	31	2.281	10,350						
20	7:00	21.3	1,555	1,358	0.005	212.0	2.04	35.0	1.02	19.0	0.55	25.00	1.70			0.75	0.75	0.75	0.75	0.75	0.75	0.160	1.026	0.529	36	32	38	38	9.124	41,400						
21	7:00	16.2	1,262	1,111	0.018	264.0	3.14	32.0	1.14	22.0	0.78	32.00	2.70			0.75	0.75	0.75	0.75	0.75	0.75	0.112	0.833	0.429	32	37	30	30	9.124	41,400						
22	7:00	21.0	1,604	1,465	0.018	374.0	3.49	61.0	1.65	35.0	0.95	45.00	2.97			0.75	0.75	0.75	0.75	0.75	0.75	0.159	1.059	0.545	29	29	29	30	0	0						
23	7:00	21.3	1,710	1,543	0.004	269.0	2.36	37.0	0.95	33.0	0.85	33.00	2.06			0.75	0.75	0.75	0.75	0.75	0.75	0.166	1.129	0.581	29	29	29	30	9.124	41,400						
24	7:00	21.5	1,755	1,598	0.015	185.0	1.58	31.0	0.77	27.0	0.67	23.00	1.38			0.75	0.75	0.75	0.75	0.75	0.75	0.178	1.158	0.597	27	27	28	27	9.124	41,400						
25	7:00	22.0	1,770	1,600	0.018	284.0	2.40	37.0	0.92	49.0	1.21	34.00	2.06			0.75	0.75	0.75	0.75	0.75	0.75	0.179	1.168	0.602	29	29	28	29	9.124	41,400						
26	7:00	21.4	1,744	1,555	0.018	226.0	1.94	38.0	0.97	43.0	1.09	28.00	1.69			0.75	0.75	0.75	0.75	0.75	0.75	0.196	1.151	0.593	30	30	30	30	9.124	41,400						
27	7:00	20.9	1,580	1,374	0.018	237.0	2.25	30.0	0.86	44.0	1.27	27.00	1.81			0.75	0.75	0.75	0.75	0.75	0.75	0.171	1.043	0.537	34	33	34	33	0	0						
28	7:00	19.8	1,446	1,257	0.001	234.0	2.43	41.0	1.29	49.0	1.54	29.00	2.13			0.75	0.75	0.75	0.75	0.75	0.75	0.171	0.954	0.492	34	33	34	33	9.124	41,400						
29	7:00	19.5	1,488	1,326	0.017	237.0	2.39	30.0	0.90	47.0	1.40	27.00	1.91			0.75	0.75	0.75	0.75	0.75	0.75	0.141	0.982	0.506	33	33	32	32	9.124	41,400						
30	7:00	19.5	1,553	1,371	0.018	299.0	2.89	51.0	1.47	59.0	1.70	36.00	2.51			0.75	0.75	0.75	0.75	0.75	0.75	0.147	1.025	0.528	33	33	33	33	6.843	31,050						
31	7:00																																			
Total			40.42																																	
Max			1.60																																	
Min			1.11																																	
Ave.			1.35																																	
*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 Recp: _____																																		
4. 33 % Phosphate Solution Fed		Bacterials Sent: _____																																		
5. 20 % Sodium Permanganate Fed		Date: _____																																		

RTW Sample Temp 14.7 °C Alkalinity 282.0 mg/L Chloride 37.8 mg/L Sulfate 66.7 mg/L



DIVISION OF PUBLIC WATER SUPPLIES

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

Date	Time Meter Read	Hours Filter Ran	Pumping Totals			Raw			Pre Filter			Post Filter			Post IEX			Finished			Membrane Integrity Test										
			Total Well (M gal)	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	Total Fe mg/L	Total Mn mg/L	Total 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	Bank 3			
1	7:00	18.7	1,417	1,309	1,182	0.004	7.44	14.6	298	372	0.93	0.229		0.395	0.031	0.035	0.19	7.92	288	118	0.01	0.015	0.80	1.3	1.2	1.4	1.38				
2	7:00	19.3	1,524	1,395	1,219	0.018	7.56	14.8	296	364	0.95	0.237		0.394	0.026	0.036	0.12	7.90	274	120	0.01	0.015	0.83	1.3	1.4	1.4	1.23				
3	7:00	19.0	1,460	1,374	1,220	0.014	7.58	14.6	294	368	1.04	0.211		0.347	0.026	0.018	0.12	8.01	290	108	0.00	0.012	0.75	1.3	1.4	1.4	1.38				
4	7:00	19.2	1,478	1,353	1,222	0.009	7.42	15.3	292	372	0.97	0.237		0.379	0.037	0.045	0.15	7.84	266	110	0.01	0.014	0.80	1.3	1.4	1.4	1.23				
5	7:00	19.9	1,520	1,403	1,248	0.013	7.49	15.3	288	362	0.83	0.226		0.392	0.025	0.031	0.11	8.00	294	112	0.01	0.011	0.78	1.4	1.4	1.5	1.15				
6	7:00	19.5	1,495	1,382	1,237	0.010	7.41	14.6	294	370	0.85	0.228		0.407	0.035	0.036	0.10	7.95	272	124	0.01	0.012	0.77	1.5	1.5	1.6	1.27				
7	7:00	18.5	1,506	1,372	1,248	0.018	7.42	14.7	292	366	1.00	0.217		0.363	0.016	0.018	0.17	7.93	280	110	0.01	0.016	0.70	1.4	1.4	1.6	1.29				
8	7:00	20.9	1,514	1,415	1,237	0.014	7.47	14.7	292	366	0.93	0.238		0.388	0.032	0.029	0.09	7.91	264	122	0.01	0.013	0.70	1.5	1.5	1.6	1.13				
9	7:00	19.8	1,558	1,438	1,282	0.004	7.52	14.9	290	368	0.90	0.230		0.398	0.033	0.035	0.10	7.91	266	124	0.01	0.013	0.78	1.4	1.4	1.6	1.35				
10	7:00	21.5	1,677	1,532	1,374	0.018	7.43	14.7	296	364	0.91	0.229		0.399	0.027	0.034	0.10	7.83	274	110	0.01	0.017	0.75	1.5	1.5	1.7	1.29				
11	7:00	20.7	1,668	1,539	1,370	0.018	7.49	14.7	298	366	0.87	0.227		0.389	0.034	0.021	0.08	7.94	286	110	0.01	0.011	0.78	1.5	1.5	1.7	1.16				
12	7:00	20.5	1,679	1,564	1,392	0.014	7.44	14.9	292	360	0.74	0.244		0.395	0.045	0.034	0.12	7.91	266	122	0.01	0.012	0.75	1.4	1.4	1.6	1.23				
13	7:00	20.1	1,618	1,482	1,357	0.009	7.47	14.7	290	374	0.98	0.231		0.416	0.035	0.033	0.12	7.84	280	114	0.01	0.014	0.73	1.5	1.5	1.7	1.22				
14	7:00	20.7	1,666	1,541	1,369	0.014	7.43	14.6	296	364	0.80	0.226		0.391	0.032	0.032	0.10	7.88	292	110	0.01	0.013	0.77	1.4	1.4	1.6	1.29				
15	7:00	20.2	1,622	1,513	1,364	0.018	7.56	15.1	292	370	0.76	0.230		0.385	0.034	0.036	0.12	8.06	274	126	0.01	0.016	0.87	1.4	1.4	1.6	1.38				
16	7:00	21.2	1,645	1,508	1,344	0.005	7.50	15.2	290	374	0.81	0.229		0.393	0.023	0.033	0.14	7.91	292	118	0.01	0.012	0.80	1.5	1.5	1.6	1.38				
17	7:00	21.1	1,678	1,541	1,389	0.018	7.49	14.8	294	364	0.91	0.224		0.390	0.028	0.027	0.13	8.02	290	110	0.01	0.012	0.92	1.4	1.4	1.5	1.41				
18	7:00	20.8	1,701	1,568	1,411	0.019	7.60	15.1	292	366	0.79	0.214		0.380	0.024	0.035	0.10	7.95	266	106	0.01	0.022	0.86	1.4	1.4	1.6	1.28				
19	7:00	20.6	1,669	1,540	1,396	0.013	7.42	15.1	292	366	1.02	0.228		0.389	0.030	0.029	0.11	7.82	282	110	0.01	0.010	0.81	1.4	1.4	1.6	1.33				
20	7:00	21.3	1,689	1,555	1,358	0.005	7.42	15.4	292	370	0.87	0.223		0.387	0.025	0.025	0.09	7.96	288	118	0.01	0.012	0.52	1.4	1.4	1.5	1.20				
21	7:00	16.2	1,359	1,262	1,111	0.018	7.41	15.4	290	370	0.95	0.222		0.396	0.025	0.025	0.09	7.88	292	114	0.01	0.013	0.93	1.4	1.4	1.6	1.28				
22	7:00	21.0	1,735	1,604	1,465	0.018	7.44	15.5	294	366	1.06	0.227		0.382	0.026	0.024	0.10	7.85	292	120	0.01	0.012	0.73	1.3	1.3	1.6	1.29				
23	7:00	21.3	1,839	1,710	1,543	0.004	7.39	15.0	294	364	0.85	0.220		0.383	0.019	0.026	0.11	7.83	288	116	0.01	0.012	0.74	1.4	1.4	1.6	1.07				
24	7:00	21.5	1,913	1,755	1,598	0.015	7.48	15.4	292	370	1.02	0.225		0.390	0.026	0.031	0.12	7.89	294	126	0.01	0.016	0.84	1.3	1.3	1.6	1.24				
25	7:00	22.0	1,893	1,770	1,600	0.018	7.52	15.2	292	362	0.98	0.219		0.377	0.027	0.026	0.11	7.86	290	116	0.01	0.012	1.00	1.4	1.4	1.6	1.20				
26	7:00	21.4	1,894	1,744	1,555	0.018	7.70	15.5	296	362	0.96	0.218		0.376	0.031	0.029	0.08	8.04	270	112	0.02	0.009	0.76	1.3	1.3	1.5	1.15				
27	7:00	20.9	1,709	1,580	1,374	0.018	7.46	15.0	296	374	1.06	0.227		0.378	0.025	0.015	0.08	7.82	260	116	0.01	0.008	0.71	1.3	1.3	1.6	1.22				
28	7:00	19.8	1,556	1,446	1,257	0.001	7.55	15.1	290	360	0.90	0.223		0.380	0.023	0.022	0.15	7.83	288	112	0.01	0.005	0.88	1.3	1.3	1.5	1.37				
29	7:00	19.5	1,613	1,488	1,326	0.017	7.40	14.8	290	364	0.83	0.233		0.387	0.033	0.038	0.12	7.98	294	108	0.01	0.009	0.87	1.4	1.4	1.6	1.42				
30	7:00	19.5	1,635	1,553	1,371	0.018	7.50	14.5	292	368	0.98	0.223		0.399	0.039	0.046	0.11	7.86	274	110	0.01	0.017	0.91	1.4	1.4	1.6	1.39				
31	7:00																														
Total			40,42																												
Max			1.60																												
Min			1.11																												
Ave.			1.35																												
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												Type of Chlorine Used																
			Chlorine Gas												Chlorine Gas																
			Calcium Hypochlorite _____ %												Calcium Hypochlorite _____ %																
			Sodium Hypochlorite _____ %												Sodium Hypochlorite _____ %																
			Chlorine Test Kit Used: _____												Chlorine Test Kit Used: _____																
FLUORIDATION			Type of Fluoride Used												Type of Fluoride Used																
			Hydrofluosilicic Acid _____ %F												Hydrofluosilicic Acid _____ %F																
			Sodium Fluoride _____ %F												Sodium Fluoride _____ %F																
			Other _____												Other _____																
			Type of Test Instrument Used: _____												Type of Test Instrument Used: _____																