WOODARD &CURRAN

Monthly Operating Report

March 2017

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So. Sangamon

April 18, 2017

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

TABLE OF CONTENTS

SECTION		PAGE NO.
Executive Summary		**ES-1**
1.	**SAFETY**	**1-1**
1.1	Safety Training	1-1
1.2	Lost time Accidents	1-1
1.3	Safety Audit	1-1
1.4	Miscellaneous Safety	1-1
2.	**COMPLIANCE, FLOWS AND LOADINGS**	**2-2**
2.1	Compliance	2-2
2.2	Influent flows and loadings	2-2
2.3	Effluent Concentrations	2-2
2.4	Lagoon Discharge Concentrations	2-3
3.	**OPERATIONS**	**3-1**
3.1	Events impacting operations	3-1
3.2	Emergency & Service calls	3-2
3.2.1	Emergency Call-outs	3-2
3.3	Customer Inquiries	3-3
4.	**MAINTENANCE AND REPAIR**	**4-4**
4.1	Preventative and predictive maintenance	4-4
4.2	Corrective repairs	4-4
5.	**PROJECT MANAGEMENT & SUPPORT**	**5-1**
5.1	Staffing & Training	5-1
5.2	Corporate Support	5-1
5.3	Budget	5-2
6.	**CAPITAL PLANNING**	**6-1**
6.1	Approved CIP Projects Current status	6-1
6.2	Draft Capital Improvement Plan	6-1

LIST OF TABLES

TABLE	PAGE NO.
Table 2.2 Influent Concentrations and Flow	2-2
Table 2.3 Finished Water Quality	2-2
Table 2.4 Weekly Grab Sample Analysis Results	2-3
Table 4.1 Budget Table	5-2

EXECUTIVE SUMMARY

Safety. Safety is the number one priority at Woodard and Curran. We continue to provide monthly training for employees at the plant, provide weekly safety updates and safety videos are assigned to all employees. The safety topic for this month was "Preventing Back Injuries". There were no lost time accidents in the month of March 2017. Approximately 74 percent of the items identified in the combined list of safety items have been completed.

Compliance. The finished water quality was within regulatory limits and all reporting and sampling requirements were met for the month. A copy of the Operations Report submitted to the Illinois Environmental Protection Agency is included in this report as Attachment A.

Operations. There was 1 emergency call-outs for the month. There were 3 customer inquiries for the month.

New Sodium Permanganate Pumps. The new Sodium Permanganate pumps were put into service on March 28, 2017. The picture on the left are the new pumps being utilized. During a routine Engineering Evaluation by the Illinois Environmental Protection Agency (IEPA) in 2015, SSWC was mandated by IEPA to have the Ultra Filter effluent below the secondary standard of 0.05 mg/L prior to Ion Exchange. With this change, the Chemical Feed Pumps major project funded in FY 2017 is complete.

Consumer Confidence Report. The Consumer Confidence Report (CCR)for 2016 has been prepared and has been approved by the IEPA. This annual report is required to be distributed to all customers in the water district prior to June 30, 2017. Information required by SSWC to be distributed to satellite water agency so they can prepare their own CCR was emailed to the village of Chatham, New Berlin, Curran Gardner Water District and EJ Water on April 14, 2017. A copy of the CCR is included as Attachment B at the end of this document.

Maintenance and Repair. For the month of March 2017, there were 12 inspections, 16 preventative and 2 corrective maintenance activities completed.

Budget. Through March 31, 2017, we are $44,540 over budget for the fiscal year.

Capital Planning. Woodard and Curran is working with Meco Engineering to update and prioritize the Capital Improvement Plan. The CIP is a planning document that includes all projects anticipated to exceed $5,000 in cost over the next five years. The CIP is an ongoing process and will be refined from time to time as projects are completed and new issues are identified.

1. SAFETY

1.1 SAFETY TRAINING

Woodard and Curran continues to provide safety training for personnel at the plant. This is accomplished by requiring daily safety meetings, weekly safety updates are available to the plant, and safety videos are assigned to all employees and are required to be completed. The March 2017 safety training topic was "Preventing Back Injuries".

1.2 LOST TIME ACCIDENTS

There were no lost time accidents in the month of March 2017.

1.3 SAFETY AUDIT

Since Woodard and Curran assumed operational responsibility for the SSWC plant, two safety audits have been completed. The first audit was conducted in May 2015 and identified 89 items needing to be addressed. Approximately 86 percent of those items identified had been addressed when a second audit occurred in November 2016.

The finding for these two audits were combined to produce a list of 42 items needing to be addressed. A safety audit conference call with Shannon Eyler was held on January 25, 2017. To date, 74 percent of the items have been addressed. Remaining items are being addressed at time permits and as funding becomes available.

1.4 MISCELLANEOUS SAFETY

Dan Held and Keith Sommers have completed Powered Industrial Truck training.

2. COMPLIANCE, FLOWS AND LOADINGS

2.1 COMPLIANCE

The finished water quality was within regulatory limits and all reporting and sampling requirements were met for March. A copy of the Operations Report to the Illinois Environmental Protection Agency (IEPA) is included in Attachment A of this report

2.2 INFLUENT FLOWS AND LOADINGS

The total gallons pumped from the well field was 37.4 MG. The influent parameters were all within the normal range.

The influent flow and loadings are summarized below in Table 2.2

Table 2.2 Influent Concentrations and Flow

	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Well Flow Gals (k)
Max.	7.76	14.6	1.35	0.213	-	390	298	1.536
Min.	7.31	12.9	0.67	0.169	-	356	284	0.680
Avg.	7.41	13.6	0.99	0.190	-	373	291	1.209
Total	-	-	-	-	-	-	-	37.468

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 33.1 MG during the month with a daily average of 1.06 MG and a min/max of 0.6/1.4 MG.

Table 2.3 Finished Water Quality

	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	1.4	1.6	8.01	15.3	0.01	0.037	0.98	170	292	2.13
Min.	0.9	1.1	7.67	12.8	0.01	0.006	0.63	110	260	0.78
Avg.	1.2	1.4	7.87	13.6	0.01	0.012	0.80	124	276	1.21
MCL	-	-	-	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-

2.4 LAGOON DISCHARGE CONCENTRATIONS

The results for the NPDES lagoon discharge permit are summarized below.

Table 2.4 Weekly Grab Sample Analysis Results

Lagoon Effluent Results						
Date	**Fe (mg/l)**	**Mn (mg/l)**	**Chloride (mg/l)**	**Cl^2 (mg/l)**	**pH (S.U.)**	**TSS (mg/l)**
03/07/2017	0.230	0.114	242	0.030	8.09	0.00
Minimum	-	-	-	-	-	-
Maximum	-	-	-	-	-	-
Average	-	-	-	-	-	-
Monthly Avg Limit	***2.000***	***1.00***	***-***	***-***	***-***	***15***
Daily Limit	***4.000***	***2.000***	***500***	***0.05***	***6.0-9.0***	***30***

The Chloride sample for the month of March 2017, performed by the Springfield Metropolitan Sanitary District, was 14,800 mg/L. The limit for chloride discharge to the sanitary district is 30,000 mg/L

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3. OPERATIONS

3.1 EVENTS IMPACTING OPERATIONS

New Sodium Permanganate Pumps. The new Sodium Permanganate pumps were put into service on March 28, 2017. The picture on the left are the new pumps being utilized. The picture on the right is the pump originally supplied for pumping Sodium Hypochlorite. During a routine Engineering Evaluation by the Illinois Environmental Protection Agency (IEPA) in 2015, SSWC was mandated by IEPA to have the Ultra Filter effluent below the secondary standard of 0.05 mg/L prior to Ion Exchange. With this change, the Chemical Feed Pumps major project funded in FY 2017 is complete.

Consumer Confidence Report. The Consumer Confidence Report (CCR)for 2016 has been prepared and has been approved by the IEPA. This annual report is required to be distributed to all customers in the water district prior to June 30, 2017. Information required by SSWC to be distributed to satellite water agency so they can prepare their own CCR was emailed to the village of Chatham, New Berlin, Curran Gardner Water District and EJ Water on April 14, 2017. A copy of the CCR is included as Attachment B at the end of this document.

3.2 EMERGENCY & SERVICE CALLS

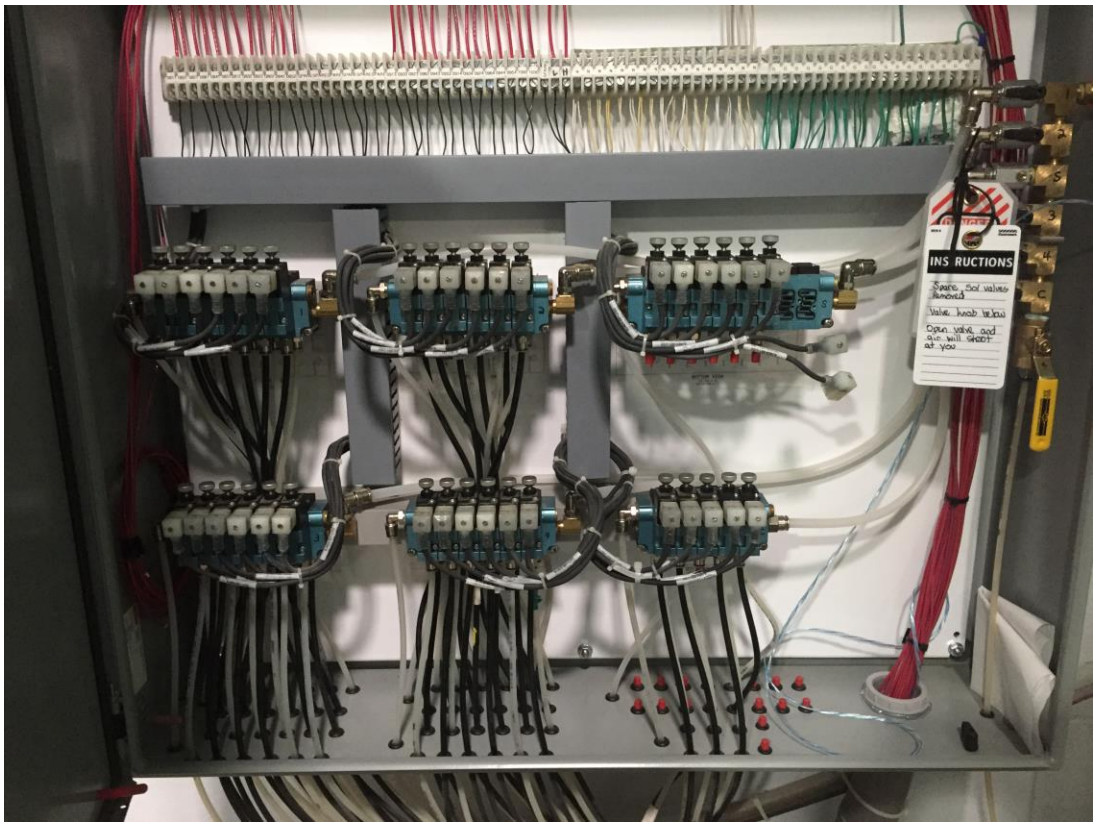
Service Calls:

- There were no service calls for the month.

3.2.1 Emergency Call-outs

There was one emergency call-out for the month requiring operational personnel at the plant after normal business hours.

- On Sunday, March 26, 2017, an issue developed with the Ion Exchange units. Specifically, valves on IEX #1 and IEX #3 would not operate. Working with the solenoids in the cabinet pictured below, and after considerable troubleshooting, Keith Sommers was able to detect the problem and complete repairs. There was no disruption of service.



3.3 CUSTOMER INQUIRIES

There were 3 customer inquiries for the month of March:

- On March 2, 2017, Mr. Edgar Gregory contacted the SSWC regarding higher than normal water usage.
- On March 27, 2017, Mr. Dean Swingler of EJ Water requested an analysis of the water for a potential customer.
- On March 29, 2017, Mr. Mark Poffinbarger contacted us regarding the possibility of purchasing water from the SSWC.

4. MAINTENANCE AND REPAIR

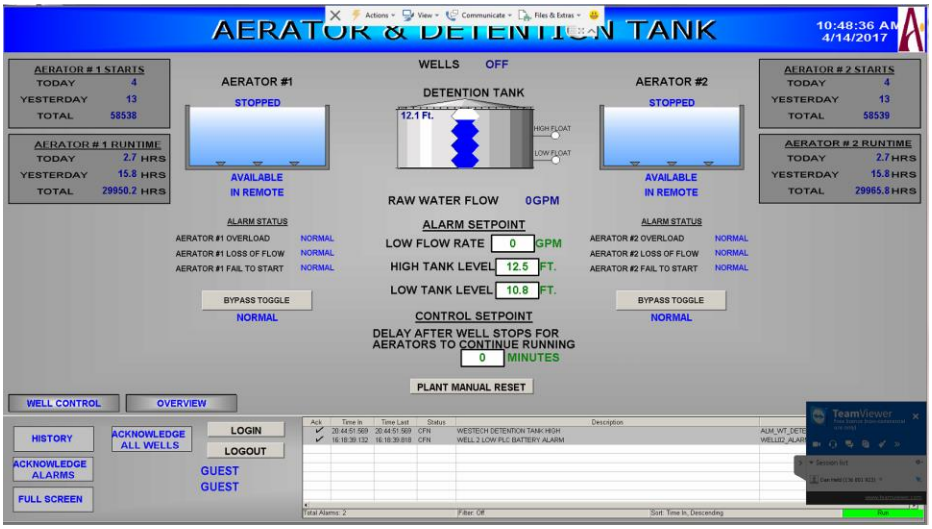
4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of March 2017, there were 12 inspections, 16 preventative and 2 corrective maintenance activities completed.

4.2 CORRECTIVE REPAIRS

- Adjustments were made to the Caustic pump suction on March 13, 2017. This allows for easy access the foot valve at the bottom of the adjacent barrel of Caustic for cleaning and maintenance. Pictured below is the Caustic pump following the changes.

Adjustments were made to the Aerator timers. These adjustments were made to preserve the life of the motors and electrical savings. Pictured below is the SCADA screen where the operator can control how the Aerator functions.



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5. PROJECT MANAGEMENT & SUPPORT

5.1 STAFFING & TRAINING

- Woodard and Curran continues to train and provide staffing to the plant as needed.
- Woodard and Curran IT staff are working with plant personnel on Hach Wims. Hach Wims is the programmed utilized by Woodard and Curran for developing IEPA Monthly Operating Reports and storage of test data. We are working through the issues discovered with the reporting earlier in the year as time allows.

5.2 CORPORATE SUPPORT

The following individuals, either on-site or remotely, provided assistance in operation and/or maintenance of the plant during the month.

- Marc Thomas
- Joe Hurley
- Bobby Nichols
- Shannon Eyler
- Ray Giguere

5.3 BUDGET

Table 5.3 below is a breakdown of the current budget as of March 31, 2017.

Table 5.3 Budget Table

Budget Category	Month Budget	Month Actual	YTD Budget	YTD Actual	Annual Budget	Over (under)	% of budget
Labor (D.L. + OH)	$22,926	$23,102	$252,189	$270,594	$275,115	$18,405	98%
Utilities	$8,113	$15,268	$89,238	$90,185	$97,350	$948	93%
Chemicals	$14,875	$11,566	$163,625	$156,075	$178,500	($7,550)	87%
Maintenance & Repair	$7,925	$12,097	$87,175	$108,213	$95,100	$21,038	114%
Chloride	$11,688	$11,405	$128,572	$138,351	$140,260	$9,779	99%
Lab Supplies and Equipment	$1,946	$480	$21,409	$17,428	$23,355	($3,981)	75%
Office Supplies	$267	$81	$2,933	$2,870	$3,200	($63)	90%
Miscellaneous Expenses	$1,243	$1,790	$13,671	$14,978	$14,914	$1,307	100%
Other Operating Costs	$339	$1,188	$3,733	$4,341	$4,072	$608	107%
Subtotal of Costs for Contract Year 2	**$69,322**	**$76,977**	**$762,544**	**$803,035**	**$831,866**	**$40,491**	97%
Fixed Fee for Contract Year 2	$6,932	$7,698	$76,255	$80,303	$83,187	$4,049	97%
Year One Transition	$1,366	$1,366	$15,023	$15,023	$16,389	$0	92%
Total	**$77,620**	**$86,040**	**$853,822**	**$898,361**	**$931,442**	**$44,540**	96%

6. CAPITAL PLANNING

6.1 APPROVED CIP PROJECTS CURRENT STATUS

No new information is available.

6.2 DRAFT CAPITAL IMPROVEMENT PLAN

The CIP is a planning document that includes all projects anticipated to exceed $5,000 in cost over the next five years. The CIP is an ongoing process and will be refined from time to time as projects are completed and new issues are identified.

A meeting was held on February 17, 2017 to begin update of the Capital list. Those in attendance were Marc Thomas, Dan Held and Keith Sommers from Woodard and Curran as well as Max Middendorf from Meco Engineering.

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 March 2017

		Pumping Totals				Chemicals Applied										UF Filters					Softeners								Soft. Regen		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.										
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	Water Gal. (M gal)	Softened Gal. (M gal)	Bypassed Gal (M gal)	1	2	3	4		Salt Used lbs.	Washed Water Gal.	In mg/L			
																														IEX 1	IEX 2	IEX 3	IEX 4
1	7:00	19.4	1.347	1.229	0.008	189.0	2.10	17.0	0.55	28.0	0.90	14.28	1.27			0.75	0.75	0.75	0.75	0.130	0.889	0.458	36	45	37		6,843	31,050				
2	7:00	13.9	0.942	1.216	0.013	133.0	2.12	18.0	0.59	18.0	0.59	14.28	1.82			0.75	0.75	0.75	0.75	0.096	0.622	0.320				31	2,281	10,350				
3	7:00	13.2	0.915	0.894	0.005	132.0	2.16	26.0	1.15	20.0	0.89	11.42	1.50			0.75	0.75	0.75	0.75	0.092	0.604	0.311	44		46		4,562	20,700				
4	7:00	14.1	0.983	0.828	0.009	167.0	2.55	17.0	0.81	23.0	1.10	14.28	1.74			0.75	0.75	0.75	0.75	0.100	0.649	0.334		70		47	4,562	20,700				
5	7:00	18.9	1.303	0.918	0.008	173.0	1.99	30.0	1.29	26.0	1.12	17.13	1.58			0.75	0.75	0.75	0.75	0.130	0.860	0.443	47		45	36	6,843	31,050				
6	7:00	18.2	1.268	1.196	0.013	183.0	2.16	34.0	1.12	26.0	0.86	17.13	1.62			0.75	0.75	0.75	0.75	0.130	0.837	0.431	36	51	35		6,843	31,050				
7	7:00	19.5	1.188	1.177	0.013	169.0	2.13	13.0	0.44	27.0	0.91	17.13	1.73			0.75	0.75	0.75	0.75	0.131	0.784	0.404				32	2,281	10,350				
8	7:00	13.8	0.937	1.147	0.009	127.0	2.03	16.0	0.55	16.0	0.55	17.13	2.19			0.75	0.75	0.75	0.75	0.073	0.618	0.319	42	52	40	39	9,124	41,400				
9	7:00	15.7	1.073	0.861	0.018	161.0	2.25	34.0	1.56	15.0	0.69	11.42	1.28			0.75	0.75	0.75	0.75	0.113	0.708	0.365					0	0				
10	7:00	18.1	1.282	0.994	0.000	204.0	2.38	18.0	0.72	35.0	1.39	17.13	1.69			0.75	0.75	0.75	0.75	0.118	0.846	0.436	46		46	39	6,843	31,050				
11	7:00	15.7	1.076	1.163	0.013	175.0	2.44	25.0	0.85	36.0	1.22	17.13	1.91			0.75	0.75	0.75	0.75	0.114	0.710	0.366		56			2,281	10,350				
12	7:00	15.1	1.058	0.999	0.009	95.0	1.35	20.0	0.79	22.0	0.87	17.13	1.94			0.75	0.75	0.75	0.75	0.105	0.698	0.360	42		43	39	6,843	31,050				
13	7:00	16.4	1.078	0.947	0.008	154.0	2.14	28.0	1.17	33.0	1.38	8.57	0.95			0.75	0.75	0.75	0.75	0.107	0.711	0.367		62		38	4,562	20,700				
14	7:00	15.2	1.035	0.959	0.009	151.0	2.19	15.0	0.62	33.0	1.36	14.28	1.65			0.75	0.75	0.75	0.75	0.109	0.683	0.352	45		45		4,562	20,700				
15	7:00	15.5	1.070	0.951	0.009	161.0	2.26	26.0	1.08	36.0	1.50	14.28	1.60			0.75	0.75	0.75	0.75	0.108	0.706	0.364				40	2,281	10,350				
16	7:00	15.7	1.100	0.974	0.004	145.0	1.98	28.0	1.14	30.0	1.22	14.28	1.56			0.75	0.75	0.75	0.75	0.104	0.726	0.374	47	64	43		6,843	31,050				
17	7:00	15.8	1.102	1.008	0.017	180.0	2.45	15.0	0.59	41.0	1.61	17.13	1.86			0.75	0.75	0.75	0.75	0.100	0.727	0.375			41	38	4,562	20,700				
18	7:00	16.8	1.152	1.004	0.007	184.0	2.39	30.0	1.18	40.0	1.58	17.13	1.78			0.75	0.75	0.75	0.75	0.125	0.760	0.392	45	54		38	6,843	31,050				
19	7:00	15.8	1.111	1.033	0.011	116.0	1.56	23.0	0.88	26.0	1.00	17.13	1.85			0.75	0.75	0.75	0.75	0.100	0.733	0.378	43		39		4,562	20,700				
20	7:00	16.2	1.113	1.024	0.008	151.0	2.03	10.0	0.39	33.0	1.28	14.28	1.54			0.75	0.75	0.75	0.75	0.111	0.735	0.378				37	2,281	10,350				
21	7:00	15.8	1.123	1.015	0.005	171.0	2.28	21.0	0.82	28.0	1.09	11.42	1.22			0.75	0.75	0.75	0.75	0.093	0.741	0.382	42	55	40	38	9,124	41,400				
22	7:00	15.2	1.058	1.031	0.017	135.0	1.91	27.0	1.04	19.0	0.73	19.99	2.26			0.75	0.75	0.75	0.75	0.092	0.698	0.360			41		2,281	10,350				
23	7:00	15.6	1.080	0.975	0.005	155.0	2.15	11.0	0.45	30.0	1.22	14.28	1.58			0.75	0.75	0.75	0.75	0.105	0.713	0.367	45	61		40	6,843	31,050				
24	7:00	15.2	1.009	0.978	0.013	148.0	2.20	17.0	0.69	35.0	1.42	14.28	1.70			0.75	0.75	0.75	0.75	0.118	0.666	0.343			41		2,281	10,350				
25	7:00	9.1	0.617	0.936	0.003	99.0	2.40	18.0	0.76	26.0	1.10	14.28	2.77			0.75	0.75	0.75	0.75	0.059	0.407	0.210	56			41	4,562	20,700				
26	7:00	15.2	1.077	0.538	0.009	142.0	1.98	26.0	1.91	30.0	2.21	11.42	1.27			0.75	0.75	0.75	0.75	0.106	0.711	0.366		73	52		4,562	20,700				
27	7:00	19.1	1.379	1.005	0.009	228.0	2.48	15.0	0.59	55.0	2.17	14.28	1.24			0.75	0.75	0.75	0.75	0.055	0.910	0.469	37			49	4,562	20,700				
28	7:00	14.9	1.067	1.270	0.009	130.0	1.83	15.0	0.47	30.0	0.93	22.84	2.57			0.75	0.75	0.75	0.75	0.097	0.704	0.363		42	32	32	6,843	31,050				
29	7:00	11.7	0.797	0.986	0.012	102.0	1.92	20.0	0.80	25.0	1.00	11.42	1.72			0.75	0.75	0.75	0.75	0.084	0.526	0.271	43				2,281	10,350				
30	7:00	12.1	0.829	0.781	0.050	113.0	2.04	22.0	1.11	26.0	1.32	11.42	1.65		*	0.75	0.75	0.75	0.75	0.073	0.547	0.282			48	52	4,562	20,700				
31	7:00	13.4	0.927	0.760	0.009	168.0	2.72	8.0	0.42	39.0	2.03	14.28	1.85			0.75	0.75	0.75	0.75	0.095	0.612	0.315	58	76			4,562	20,700				
Total				30.80																													
Max				1.27																													
Min				0.54																													
Ave.				0.99																													

RTW Sample Temp 14.0 °C; Alkalinity 288.0 mg/L; Sulfate 73.6 mg/L; TDS 448.0 mg/L; Calcium Hardness 65.7 mg/L; pH 8.01 SU; Chloride 42.1 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. 10 % 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:

WOODARD &CURRAN

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

DIVISION OF PUBLIC WATER SUPPLIES

MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPC

ON South Sangamon Water Commission

FOR MONTH OF March 2017

			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	19.4	1.504	1.347	1.229	0.008	7.40	13.6	290	380	0.95	0.170		0.448	0.086		0.105	0.14			7.93	270	140	0.01	0.037	0.74	1.3	1.4	0.96			
2	7:00	13.9	1.487	0.942	1.216	0.013	7.39	13.4	296	380	0.92	0.181		0.352	0.018		0.016	0.12			7.87	280	118	0.01	0.014	0.76	1.4	1.5	0.78			
3	7:00	13.2	1.082	0.915	0.894	0.005	7.44	13.4	294	382	1.15	0.194		0.310	0.040		0.032	0.11			7.86	268	112	0.01	0.009	0.77	1.3	1.5	0.81			
4	7:00	14.1	1.019	0.983	0.828	0.009	7.44	13.8	284	390	1.17	0.175		0.276	0.072		0.071	0.16			7.89	262	152	0.01	0.018	0.79	1.3	1.5	0.89			
5	7:00	18.9	1.093	1.303	0.918	0.008	7.39	14.1	290	372	0.86	0.181		0.301	0.088		0.080	0.16			7.72	284	110	0.01	0.025	0.74	1.4	1.6	0.88			
6	7:00	18.2	1.463	1.268	1.196	0.013	7.40	13.7	292	370	0.88	0.190		0.348	0.021		0.018	0.15			7.84	282	130	0.01	0.010	0.76	0.9	1.1	0.97	PASS	PASS	PASS
7	7:00	19.5	1.390	1.188	1.177	0.013	7.57	13.6	290	380	0.85	0.186		0.324	0.022		0.020	0.14			8.01	280	112	0.01	0.008	0.88	1.3	1.5	0.93			
8	7:00	13.8	1.431	0.937	1.147	0.009	7.41	14.0	294	380	1.05	0.193		0.360	0.019		0.017	0.13			7.78	266	124	0.01	0.009	0.97	1.0	1.1	0.85			
9	7:00	15.7	1.063	1.073	0.861	0.018	7.52	14.0	292	374	1.35	0.200		0.338	0.020		0.016	0.13			7.85	272	118	0.01	0.015	0.76	1.3	1.4	1.04			
10	7:00	18.1	1.197	1.282	0.994	0.000	7.38	13.1	292	360	0.84	0.179		0.343	0.019		0.021	0.13			7.86	278	110	0.01	0.007	0.86	1.3	1.5	1.09			
11	7:00	15.7	1.409	1.076	1.163	0.013	7.46	13.3	290	380	1.12	0.196		0.326	0.015		0.015	0.14			7.94	260	130	0.01	0.009	0.80	1.2	1.4	1.32			
12	7:00	15.1	1.192	1.058	0.999	0.009	7.42	13.4	294	372	1.15	0.200		0.367	0.022		0.024	0.14			7.93	264	112	0.01	0.009	0.81	1.3	1.5	1.38			
13	7:00	16.4	1.184	1.078	0.947	0.008	7.43	13.2	292	380	1.06	0.182		0.325	0.020		0.022	0.13			7.80	278	134	0.01	0.009	0.87	0.9	1.1	1.23	PASS	PASS	PASS
14	7:00	15.2	1.195	1.035	0.959	0.009	7.44	12.9	294	380	1.08	0.191		0.319	0.017		0.029	0.16			7.94	286	120	0.01	0.006	0.77	1.3	1.5	1.12			
15	7:00	15.5	1.163	1.070	0.951	0.009	7.42	13.4	296	370	0.87	0.189		0.321	0.021		0.018	0.17			7.89	270	112	0.01	0.008	0.82	1.3	1.5	1.25			
16	7:00	15.7	1.195	1.100	0.974	0.004	7.39	13.4	298	376	0.88	0.169		0.369	0.022		0.018	0.11			7.84	274	170	0.01	0.012	0.81	1.2	1.4	1.28			
17	7:00	15.8	1.219	1.102	1.008	0.017	7.41	13.4	292	374	1.21	0.201		0.289	0.017		0.013	0.16			7.91	282	120	0.01	0.006	0.86	1.3	1.5	1.19			
18	7:00	16.8	1.233	1.152	1.004	0.007	7.38	13.2	290	360	0.94	0.188		0.313	0.026		0.020	0.10			7.89	276	110	0.01	0.012	0.80	1.0	1.2	1.30			
19	7:00	15.8	1.287	1.111	1.033	0.011	7.42	13.7	290	360	0.96	0.194		0.354	0.025		0.023	0.13			7.92	280	120	0.01	0.007	0.78	1.3	1.5	1.35			
20	7:00	16.2	1.224	1.113	1.024	0.008	7.37	14.1	290	356	0.84	0.174		0.355	0.020		0.019	0.11			7.90	290	110	0.01	0.007	0.83	1.2	1.4	1.39	PASS	PASS	PASS
21	7:00	15.8	1.260	1.123	1.015	0.005	7.34	13.6	292	360	0.95	0.197		0.352	0.026		0.020	0.09			7.84	280	120	0.01	0.011	0.98	1.3	1.5	1.44			
22	7:00	15.2	1.226	1.058	1.031	0.017	7.41	13.5	290	370	0.94	0.182		0.353	0.030		0.024	0.15			7.91	276	114	0.01	0.010	0.75	1.3	1.5	1.20			
23	7:00	15.6	1.179	1.080	0.975	0.005	7.38	13.5	290	370	0.96	0.202		0.367	0.025		0.019	0.12			7.89	266	170	0.01	0.013	0.78	1.2	1.4	1.30			
24	7:00	15.2	1.215	1.009	0.978	0.013	7.36	14.0	288	374	1.17	0.201		0.361	0.026		0.021	0.14			7.92	270	110	0.01	0.008	0.74	1.3	1.4	1.26			
25	7:00	9.1	1.128	0.617	0.936	0.003	7.31	13.8	288	372	0.67	0.186		0.325	0.019		0.019	0.14			7.86	278	112	0.01	0.009	0.84	1.2	1.4	2.13			
26	7:00	15.2	0.682	1.077	0.538	0.009	7.37	13.6	292	372	0.93	0.172		0.357	0.022		0.018	0.14			7.88	290	144	0.01	0.009	0.82	1.0	1.1	1.31			
27	7:00	19.1	1.200	1.379	1.005	0.009	7.34	13.7	290	374	0.98	0.195		0.263	0.022		0.021	0.10			7.86	268	120	0.01	0.010	0.63	1.3	1.5	1.44	PASS	PASS	PASS
28	7:00	14.9	1.536	1.067	1.270	0.009	7.76	14.6	286	372	0.78	0.210		0.399	0.045		0.027	0.11			7.85	292	124	0.01	0.013	0.77	0.9	1.1	1.48			
29	7:00	11.7	1.208	0.797	0.986	0.012	7.37	13.8	288	372	0.93	0.202		0.373	0.019		0.033	0.13			7.67	286	112	0.01	0.011	0.82	1.1	1.4	1.36			
30	7:00	12.1	0.899	0.829	0.781	0.050	7.37	13.7	290	366	1.01	0.211		0.377	0.027		0.028	0.16			7.87	278	114	0.01	0.011	0.80	1.3	1.5	1.40			
31	7:00	13.4	0.905	0.927	0.760	0.009	7.35	13.5	290	372	1.19	0.213		0.380	0.035		0.031	0.14			7.77	280	130	0.01	0.015	0.76	0.9	1.1	1.32			
Total					30.80																										
Max					1.27																										
Min					0.54																										
Ave.					0.99																										

*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. 10 % 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

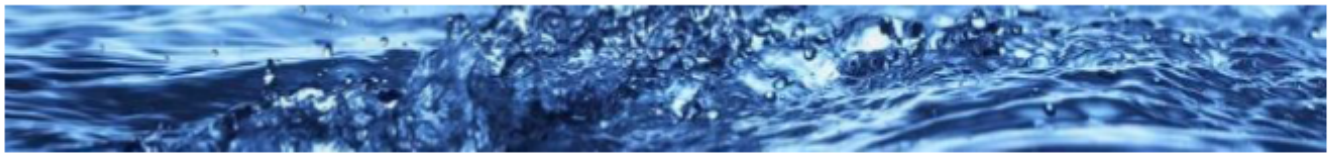
Type of Fluoride Used

Hydrofluosilicic Acid _23___%F

Sodium Fluoride ____%F

Other _____

Type of Test Instrument Used:



SOUTH SANGAMON WATER COMMISSION

(Public Water Supply ID# IL1670080)

The South Sangamon Water Commission is committed to ensuring the quality of your water and want you to be informed about the water and services delivered to you in 2016. This Annual Water Quality Report is for the period of January 1 to December 31, 2016. This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water. The source of drinking water used by South Sangamon Water Commission is Ground Water. For more information regarding this report, please contact Mr. Daniel L. Held, Project Manager for Woodard and Curran at (217) 381-2206.

Este informe continene información muy importante sobre el aqua que usted bebe. Tradúzcalo ó con alguien quo lo entieda bien.

What are the contaminants in my drinking water?

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPAs Safe Drinking Water Hotline at (800) 426-4791.

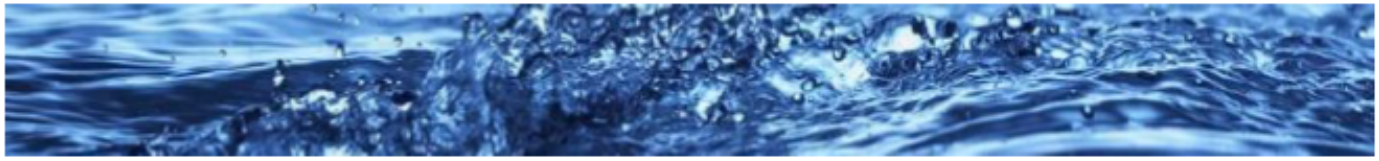
The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrials or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water then the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water



from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800) 426-4791.

Additional Information regarding Lead

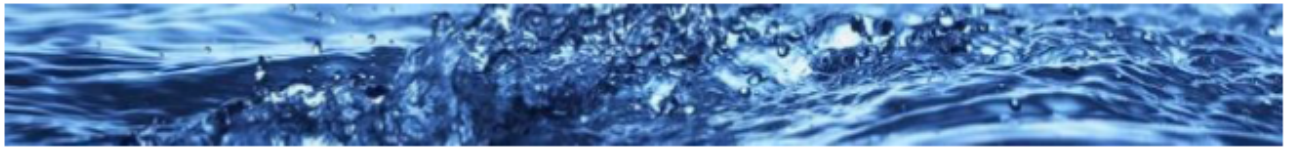
If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Source Water Assessment

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings on the third Tuesday of the month at the water plant. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please contact Daniel L. Held, Project Manager for Woodard and Curran, at (217) 381-2206 or dheld@woodardcurran.com. To view a summary version of the completed Source Water Assessments, including; Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA website at http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl.

Source of Water: SOUTH SANGAMON WATER COMMISSION Based on the information located in the Wellhead Protection Planning Map no potential sources are located within the source water protection area of the wells. Information provided by the Leaking Underground Storage Tank and Sit Remediation Program Sections of Illinois EPA did not indicate any additional sites with on-going remediation(s).

The Illinois EPA has determined that the SSWC's Community Water Supply's source water has a high susceptibility to IOC, SOC, and bacteriological contamination. This determination is based on a number of criteria including: land use near the wells, location within a floodplain, well depth, and the available hydrogeological data. In accordance with the U.S. EPA's Groundwater Rule, SSWC has received two (2) Non-Compliance Advisory letters (NCA) in 2013 for bacteriological detections in wells #5 and #6. The facility addressed the NCA;s in a variety of ways such as chlorinating the well, secured well fittings, a new sample tap(s), use of outside environmental consultants and reviewing the sampling protocol. While the NCA(s) have now been resolved, monitoring data is continually being tracked in regards to all active potable wells at SSWC. It should be noted, while the community's wells are properly constructed with sound integrity, the location of the wells is within a floodplain and well depth leaves the potential for bacteriological contamination. However, to date, all potential routes and sanitary defects have been mitigated such that the source water is adequately protected, monitoring data has not indicated a history of disease outbreak and the sanitary survey of the water supple did not indicate a bacteriological contamination threat within 1,000 ft of the source water.



2016 REGULATED CONTAMINANTS DETECTED

Lead and Copper

Definitions:

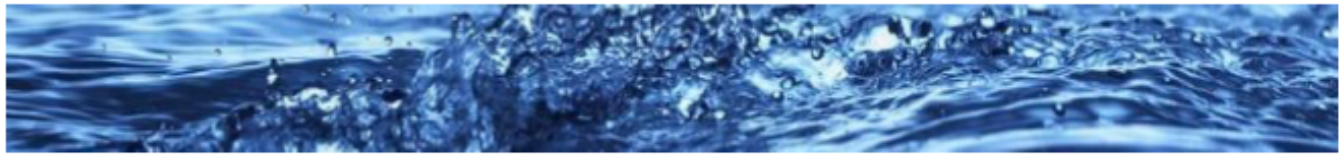
Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALG's allow for a margin of safety.

Action Level: The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites over AL	Units	Violation	Likely Source of Contaminant
Copper	2016	1.3	1.3	0.851	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; corrosion of household plumbing systems.
Lead	2016	0	15	4.5	0	ppb	N	Corrosion of household pumping systems; Erosion of natural deposits

Water Quality Test Results

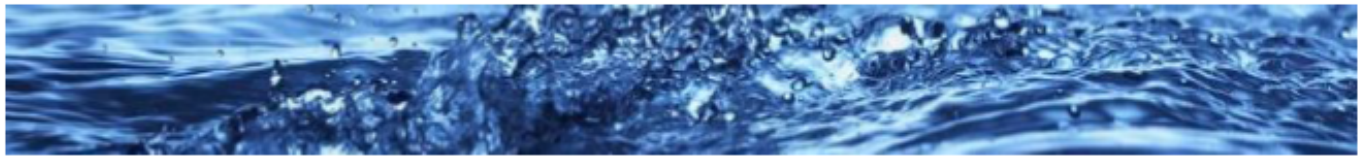
Maximum Contaminant Level Goal or MCGL	The level of a contaminant in drinking water below which there in no known or expected risk of health. MCLGs allow for a margin of error.
Maximum Contaminant Level or MCL:	The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLGs as feasible using the best available treatment technology.
Maxiumum residual disinfectant level goal or MRDLG	The level of drinking water disinfectant below which there is no known or expected risk of health. MRDLGs do reflect the benefits of the use of disinfectants to control microbial contaminants.
Maximum residual disinfectant level or MRDL:	The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.



Definitions:	The following tables contain scientific terms and measures, some of which may require explanation.
ppb:	micrograms per liter or parts per billion – or one once in 7,350,000 gallons of water.
na:	not applicable.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
ppm	milligrams per liter or parts per million – or one once in 7,350 gallons of water.
pCi/L	pCi/L; picocuries per liter (a measure of radioactivity)
ND	Not detected.

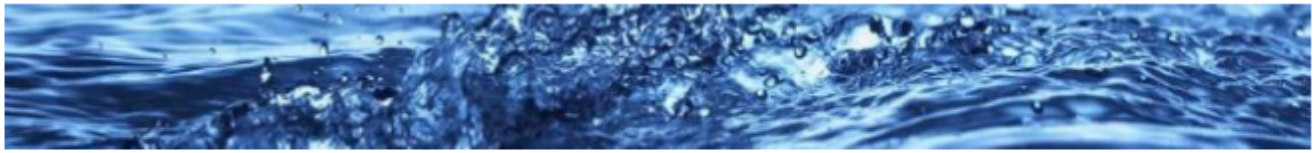
Disinfection and Disinfection By-Products

	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	12/31/16	1	0.7 – 1.4	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes
Halocetic Acids (HAA5)	06/17/2015	21.8	21.8 – 21.8	No goal for this total	60	ppb	N	By-products of drinking water disinfection.
Total Trihalomethanes (TTHM)	06/17/2015	19.64	19.64 – 19.64	No goal for this total	80	ppb	N	By-products of drinking water disinfection.



Inorganic Contaminants

	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	070/9/2015	0.019	0.019 – 0.019	2	2	ppm	N	Discharge of drilling wastes; discharge from metal refineries; erosion from natural deposits
Fluoride	07/09/2015	0.886	0.886 – 0.886	4	4.0	ppm	N	Erosion of natural deposits; water additives which promote strong teeth; discharge from fertilizer and aluminum factories.
Iron	2016	ND	ND	None	1.0	ppm	N	This contaminant is not currently regulated by USEPA. However, the state regulates. Erosion of natural deposits.
Manganese	2016	28.7	28.7 – 28.7	150	150	ppb	N	This contaminant is not currently regulated by USEPA. However, the state regulates. Erosion of natural deposits.
Nitrate (measured as nitrogen)	2016	0.302	0.302 – 0.302	10	10	ppm	N	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Sodium	7/9/2015	122	122 – 122	None	None	ppm	N	Erosion from naturally occurring deposits: used in water softening regeneration.



Radioactive Contaminants

	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	07/23/2015	1.53	1.53 – 1.53	0	5	pCi/L	N	Erosion of natural deposits
Gross alpha excluding radon and uranium	07/23/2015	1.12	1.12 – 1.12	0	15	pCi/L	N	Erosion of natural deposits

Any and all contaminants not found in this report are not detected in the finished drinking water. Raw Water was monitored and results are available.

Violation Table

Nitrate (measured as Nitrogen) – infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome

Violation Type	Violation Begin	Violation End	Violation Explanation	Corrective Action
Routine Monitoring	01/01/2016	12/31/2016	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.	Woodard and Curran pulled the sample on September 21, 2016 and it was taken to the laboratory the same day for analysis. The laboratory analyzed the sample on September 22, 2017 but failed to report the findings to the Illinois Environmental Protection Agency. Despite the fact the violation was not the fault of SSWC or Woodard and Curran, the violation is still required to be included in this report