











woodardcurran.com
commitment & integrity drive results

Monthly Operating Report

June 2017

0217327.00 So. Sangamon July 18, 2017





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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 "Confined Space Non-Entry Rescue Annual Practice". There were no lost time accidents in the month of June, 2017. Approximately 88 percent of the items identified in the combined list of safety items have been completed.

Ammonia Removal. On June 1, 2017, Woodard and Curran operational staff at the plant had the opportunity to remove the existing ammonia from the plant. As you may recall, the Illinois EPA indicated in its September 2015 letter that the ammonia should be removed since SSWC no longer feeds ammonia. Whalen Trucking was on-site June 1, 2107 to load the ammonia. It took most of the day to pump the 3,000 gallons from the storage tank to the semi-trailer. The ammonia was delivered to a water plant in O'Fallon, Missouri on June 2, 2017. The cost for the trucking was \$1,200. The cost for the use of the pump is unknown since we have not received a bill and the pump has yet to be picked up from the plant.

It should be noted that recent cost estimates to have the ammonia removed and process it for disposal was \$20,000 to \$25,000. Also, a project to reconfigure the ductwork for the exhaust system in the chemical rooms was included in the Capital list at \$69,000. By removing the ammonia at a cost of \$1,200, the SSWC has eliminated nearly \$100,000 in expense.

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.

<u>Pumping Information.</u> The plant pumped 49.3 million gallons from the well field. Approximately 45.6 million gallons was filtered, and approximately 39.9 million gallons was available for distribution.

Operations. There were 0 emergency call-outs for the month. There were 0 customer inquiries for the month.

<u>Lagoon Pump #1.</u> Anderson Electric was on-site June 2, 2017 to pull new wire so Lagoon Pump #1 would operate as needed.

Well 7 Rehabilitation. Brotcke Well and Pump rehabilitated Well 7 June 12, 2017. The well was placed back in service on June 29, 2017.

<u>Well 9 VFD</u>. The VFD on Well 9 failed. The cost to replace it was approximately \$6,000 and this work has been completed.

Maintenance and Repair. For the month of June, 2017, there were 12 inspections, 11 preventative and 10 corrective maintenance activities completed.

Budget. No update is available for the month of June, 2017.

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 June, 2017 safety training topic was "Confined Space Non-Entry Rescue Annual Practice".

1.2 LOST TIME ACCIDENTS

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

1.3 SAFETY AUDITS

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, 88 percent of the items have been addressed. Remaining items are being addressed at time permits and as funding becomes available.

1.4 MISCELLANEOUS SAFETY

In early June, Woodard and Curran operational staff at the plant had the opportunity to remove the existing ammonia from the plant. As you may recall, the Illinois EPA indicated in its September 2015 letter that the ammonia should be removed since SSWC no longer feeds ammonia. Whalen Trucking was on-site June 1, 2107 to load the ammonia. It took most of the day to pump the 3,000 gallons from the storage tank to the semi-trailer. The ammonia was delivered to a water plant in O'Fallon, Missouri on June 2, 2017. The cost for the trucking was \$1,200. The cost for the use of the pump is unknown since we have not received a bill and the pump has yet to be picked up from the plant.

It should be noted that recent cost estimates to have the ammonia removed and process it for disposal was \$20,000 to \$25,000. Also, a project to reconfigure the ductwork for the exhaust system in the chemical rooms was included in the Capital list at \$69,000. By removing the ammonia at a cost of \$1,200, the SSWC has eliminated nearly \$100,000 in expense. Pictured below is the pump used to remove the majority of the ammonia from the tank.





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 June, 2017. 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 49.288 MG. The influent parameters were all within the normal range.

The influent flow and loadings are summarized below in Table 2.2

		Tab	le 2.2 Infl	uent Conce	entrations a	and Flow		
	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Well Flow Gals (k)
Max.	7.50	15.5	3.00	0.229	-	382	298	2.054
Min.	7.33	14.2	0.58	0.172	-	356	274	1.186
Avg.	7.39	14.7	1.39	0.201	-	369	292	1.643
Total	-	-	-	-	-	-	-	49.288

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 45.558 MG during the month with a daily average of 1.519 MG and a min/max of 1.106/1.932 MG.

				Table	2.3 Fir	nished Wat	er Qualit	у		
	Free CL2	Total CL2	рН	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	1.4	1.6	7.95	15.3	0.03	0.019	0.87	120	290	1.60
Min.	1.0	1.2	7.71	14.2	0.01	0.001	0.71	104	268	1.17
Avg.	1.3	1.4	7.80	14.7	0.01	0.011	0.78	113	276	1.41
MCL	-	-	-	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-



		FINISHED V	WATER PUMPI	NG HISTORY		
	2017-2018	2016-2017	2015-2016	2014-2015	2013-2014	2012-2013
May	32,301,672	33,248,127	33,376,051	37,669,726	31,157,411	29,592,356
June	39,931,402	41,541,321	31,092,539	38,462,951	36,530,691	47,120,577
July		35,378,396	33,123,375	38,674,894	40,908,704	57,780,876
August		35,401,490	38,109,033	33,748,543	42,999,243	42,398,528
September		36,325,215	36,546,171	29,763,075	37,597,085	32,510,603
October		34,374,820	34,783,455	28,803,052	33,916,594	30,278,765
November		30,478,309	27,217,293	28,426,579	31,615,459	27,114,479
December		32,525,530	27,788,637	28,656,869	32,697,551	29,014,035
January		30,449,215	28,510,121	30,346,721	32,499,427	28,007,432
February		27,373,232	26,095,228	26,336,077	28,745,378	25,763,807
March		30,068,363	27,851,811	28,729,919	31,217,486	28,130,190
April		29,625,797	29,292,618	29,270,184	31,690,073	27,991,597
Totals	72,233,074	396,789,815	373,786,332	378,888,590	411,575,102	405,703,245
Average		1,087,095	1,022,702	1,038,051	1,127,603	1,111,516
Maximum		2,061,098	2,177,926	1,837,344	2,010,587	2,546,901
Minimum		275,315	-	349,690	363,767	142,411

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 Effl	uent Results			
Date	Fe (mg/l)	Mn (mg/l)	Chloride (mg/l)	Cl ² (mg/l)	pH (S.U.)	TSS (mg/l)
June 6, 2017	0.12	.514	264	0.04	7.89	0
Minimum	-	-	-	-	-	-
Maximum	-	-	-	-	-	-
Average	-	-	-	-	-	-
Monthly Avg Limit	2.000	1.000	-	-	-	15
Daily Limit	4.000	2.000	500	0.05	6.0-9.0	30

The Chloride sample for the month of June 2017, performed by the Springfield Metropolitan Sanitary District, was 11,700 mg/L. The limit for chloride discharge to the sanitary district is 30,000 mg/L.



3. OPERATIONS

3.1 EVENTS IMPACTING OPERATIONS

Lagoon Pump #1. Pump #1 at the Lagoon Influent Pump Station was not functioning. Anderson Electric was on-site June 2, 2017 to investigate and found a bad wire Anderson Electric pulled a new set of wires and both pumps are now operational.

Well 7 Rehabilitation. Brotcke Well and Pump was on-site June 12, 2017. This is the second of three wells scheduled for rehabilitation during the 2017-2018 time frame. The well passed Bac-T testing and was placed back in service on June 29,2017

3.2 EMERGENCY & SERVICE CALLS

Service Calls:

• Well 9 VFD. Anderson Electric was on-site June 14, 2017 and determined the Variable Frequency Drive (VFD) on Well 9 has failed. Well 9 will not operate without a VFD and the cost to replace it is 6,059.62. Plant operation staff contacted Mr. Joel Sander and permission was given to replace the VFD. The new VFD was installed on June 21, 2017 and the well was placed back in service.

3.2.1 Emergency Call-outs

• There were 0 emergency call-outs for the month of June, 2017.

3.3 CUSTOMER INQUIRIES

There were no customer inquiries for the month of June, 2017.



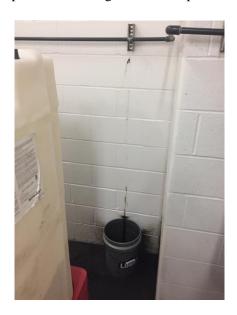
4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of June, 2017, there were 12 inspections, 11 preventative and 10 corrective maintenance activities completed.

4.2 CORRECTIVE REPAIRS

• Leak on Sodium Permanganate Line. A leak was discovered in the Sodium Permanganate line that helps to oxidize Iron and Manganese prior to filtration. Pictured below is line that was leaking, the picture on the right was the repair completed by plant operation staff over the weekend.





• Replace broken Air Scour Four-Way. A of the same fittings on the WesTech system were cracked and leaking water on June 25, 2017. The plant's operation staff replaced the fitting and there was no disruption in service.





• Painting to prevent rust on the wells. Repairs to the paint on several well sites were completed by plant operation staff.









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.

- Marc Thomas
- Joe Hurley
- Ray Giguere
- Renee Lanza

- Shannon Eyler
- Celina McManus
- Wendy Foreman



5.3 BUDGET

Table 5.3 No update is available for the 2017-2018 time frame at this time.

Table 5.3 Budget Table



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.



Attachment A

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		101	- T	-	00.00	0 0	-	+		0.78	0.86	0.85	0.76	0.75	0.81	0.75	0.75	0.77	0.50	0.72	0.80	0.74	0.73	0.87	0.72	0.84	0.71	0.81	200	20	0.78	0.77	0.74					FLUORIDATION	Type of Plucide Used	Sodem	Other	-
		Pinished	F 25	-	0.000	0.000	9000	0000	100	0.000	400.0	0.010	0.014	0.019	0.012	0.011	0.015	0.012	0.000	0.000	0.010	0.000	0.010	0.010	0.009	0.010	0.010	100'0	0.008	0.014	0.013	0.018	0.012					FLUOR	Type of			
			100 T TO		0.00	0.00	100	100	200	0.01	0.01	0.01	0.01	10.0	6.01	0.01	0.01	0.01	100	0.01	100	100	10.0	10.0	100	10.0	0.01	100	0.00	100	10.01	0.02	10.0									
			1	1	100		9 9	710	2	91.0	0110	901	120	112	904	#18	011	118	818	110	110	110	808	112	130	12	ğ	130	8	7	808	908	044							25	g# 41	
	Н		Total AB.	-		380	234	380	280	282	280	274	272	280	274	280	388	280	272	276	272	278	274	270	280	272	368	280	280	270	272	276	290							appo	offe 12	Popular I
1			£			3.06	2 2	182	200	7.82	7.80	7.81	7.83	7.81	7.83	7.78	7.78	7.78	7.78	175	7.78	7.81	7.75	7.74	7.79	7.73	7.76	1/2	1.7	2.78	7.83	7.71	7.77	1					1	Hyrods	typectik	Total Man
Arro 2017		EX	Total		T	T	T	T	T																		1	T	Ť	Ť	T		П	T					Annual Con-	Calclum Hypodrigente	Sodium Hypocharite_12.5	Chinawa Task Kill Baset
	Test	Postilex	1 2 1		Ī			T	T	T																1	1	1	Ť	Ť	T		П	T				200				
FOR MONTH OF	Cherrical Test		Mem Turb		900	0.44	0.40	9.10	9.49	0.13	0.12	0.15	0.28	0.11	11.0	0.10	0.23	0.11	0.17	0.15	0.15	0.16	0.18	0.14	0.17	60'0	0.13	0.12	97	0.13	0.11	0.12	0.11	T				CHLORINATION	Type of Chlorine Used			
FOR MC	5	Post Filter	n a la		0.000	8100	-			-b-i	-	0.001	0.0022	8100	10000	620.0	0.047	8100	0.019	0.017	0.027	920'0	1200	610.0	0.000	\rightarrow	\rightarrow	-	9000	-	-	610.0	0.035	1				SHLORE	lo adi.			
		۵	i r i		T	T		T																						T				1				_	Ī			
		21	8 2 3		0.600						0.021	0.299 0.018	0.013	0.369 0.045	0.365 0.029	0.365 0.027	0.366 0.050	0.341 0.027	0.325 0.024	0.344 0.022	0.315 0.024	0.317 0.015	9328 0.025	6318 0.025	1200 0 000	0.353 0.019	0.349 0.004	0291 0.009	0.377 0.002	0.371 0.061	0.374 0.060	5.338 ofter	0.378 0.006									
		Pre Filter	25 年 2		0.000	0.946	0.363	0.343	988.0	0.275	0.327	0.299	0.274	0.369	0.365	0.365	0.366	0.341	0.325	0.344	0.315	0.317	0.358	0.318	9900	0.353	0.349	0.291	0.377	0.374	0.374	0.338	0.378									
			ž 2 ž																											L												
			Men Men		0.190	+	-	-	-	0.179	0.172	0.177	-	-	-	-	-	_	-	-	-	-	-	0.205	_		_	0.199	_	0.225	0.227	0.205	0.229							pleto		
			F F		1.40	1.20	17.1	1.18	1.04	1.13	1.13	1.80	300	2.10	Ę.	2	0.61	0.80	1.78	2	5.58	1.76	128	1.87	141	181	128	850	0 00	121	46.0	1.82	1,42							16 0008	В	Court of Rent
PPLIE		Raw	Hand, Man		372	378	368	360	372	370	380	380	385	388	98	蓋	33	88	370	380	380	SRO	Mile	g	5	988	304	88	3	368	350	988	8							io repor	popular	
VIER SI		Œ.	1 4 1		385	100	100	100	767	88	8	280	200	2305	280	8	508	285	230	290	2305	204	200	285	385	ă	98	27.2	8	ã	292	394	20							don in th	d of my.	
THE W			Temp deg. C		14.7	-	-	-	MA	14.4	14.2	M.2	-	Н	-	-	-	-	-	-	\rightarrow	-	\rightarrow	-	\rightarrow	-	\rightarrow	15.0	-	-	14.8	14.0	14.7							Loantly that the information in this report is complete	and accurate to the best of my knowledge	
D4 40			£		7.50		-		7.35	7.37	7.38	7.38	dante d			_		_		-	-	_	_				_	2 2	-	-	7,40	7.48	7.45							dut the	arate to	94 000
DIMISION OF PUBLIC WATER SUPPLIES			Water (Man)		0.047		0.018	0.008	0.058	0.00	0.018	0.053	0.009	0.012	110.0	0.013	0.018	0.018	0.016	0.004	0.017	0.013		0.017		0.018	0.017	0000	0.017	0.013	0.004	0.018	0.017							Contract	and so	Name of the Party
ā	Fotols.		Visiter Treated IM onth		4 496	1 077	1 275	1,295	1.452	1.382	1.409	1,395	1380	1.478	1.508	1.816	1.626	1.703	1,727	1,001	1.385	1.147	1.135	1.315	0.000	1,214	1204	1.205	1,300	1,572	1,001	1.530	1.212		40.33	0.97	7					
	Pumping Totals	th.	Galtons Fillensed Microli		1 000	1 100	1.447	145	1,550	1.389	1.566	1.580	1,326	1,621	1.867	1.811	1,756	1.868	1.932	1.240	1.582	1342	1321		\rightarrow	_	-	\rightarrow	98	_	1238	1,706	1438							B	2 ;	
	-1		West P		1.389	-	+-		1.887	1.6885	1.801			-	-	-	_		_	_	-	-	-	-	-	-	-	1,842	-	-	1377	1.844	1,886	-				of Mortin	2	12.5 % Chlorine Solution Flud	% Fluoride Solution Fed	Seminary
	+		Filter 1	-	120	+	-	*	-	-	502	1.015	21.0	71.7	11.3	21.1	30.9	21.1	21.4 2	17.0 1.	22.2	-	18.6	-	-	_	-	-	213	_	18.2	21.5 1	18.7	-				'Enter Final Reading Last Mortin	POINT OF APPLICATION	Chloring	Fluorida	Charles of the last
	+	-	Time H Meter Fi		2.00	_	-	-	4		7.00	7.00 2	7.00 2	7:00 2	7:00 2	7:00 2	7:00 3	7:00 2	7:00 2	7:00 1	7.00 2	7:00 1	7:00 1	7.00 1	-		-4		2000	7.00	7.00 1	7.00 2		200			1	nol Rea	POINT OF APPLICA	25 %		
	1		Date H		1	т	$\overline{}$	_	т				0			2	11 7	2	5	16 7		18		\neg			\neg		0 9		28	20		\neg	Total	4	Ave	Photo F	CHATC	-	SI 5	ŕ