WOODARD &CURRAN

Monthly Operating Report

AUGUST 2018

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So. Sangamon

September 26, 2018

woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

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EXECUTIVE SUMMARY

Safety. Safety is the number one priority at Woodard and Curran. We continue to provide monthly training for operations staff at the plant, provide weekly safety updates and safety videos are assigned to all employees. The safety topic for this month was "Incident Reporting and Evaluation". There were no lost time accidents in the month of August2018. 100 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 available at www.sswc.us.

During the month of August2018, the plant pumped52.453million gallons from the well field and 41.178 million gallons of finished water. For the period of September2017 through August 2018, the plant has pumped 11.224 Million gallons less gallons of water then during the same period one year ago.

The SSWC plant has been placed on Critical Review status. Systems on Critical Review will be evaluated for sufficient capacity before issuance of water main extension permits.

Operations. There was 8emergency call-outs for the month. There were 0 customer inquiries for the month.

Maintenance and Repair. For the month of August2018, there were 10inspections, 4preventative and 14corrective maintenance activities completed.

Budget. The final cost information will be provided when the expenses are finalized.

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 continue 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.

1.2 LOST TIME ACCIDENTS

There were 0 lost time accidents in the month of August2018.

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.

The finding for these two audits were combined to produce a list of 40 items needing to be addressed. As of November 30, 2017, 100 percent of the items have been addressed.

1.4 MISCELLANEOUS SAFETY

There were no Miscellaneous Safety items for the month.

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 August. A copy of the Operations Report to the Illinois Environmental Protection Agency (IEPA) is available on the SSWC website.

2.2 INFLUENT FLOWS AND LOADINGS

The total gallons pumped from the well field was52.453MG. 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 (mgd).
Max.	7.90	16.9	1.6	.3	-	380	286	1.893
Min.	7.20	14.2	.50	.2	-	350	270	1.234
Avg.	7.40	14.9	1.0	0.250	-	358.3	280	1.692
Total	-	-	-	-	-	-	-	47.0

2.3 EFFLUENT CONCENTRATIONS

The facility filtered 47.769MG during the month with a daily average of 1.541 MG and a min/max 1.163/1.719 MG.

Table 2.3 Finished Water Quality

	Free CL2	Total CL2	pH	Temp	Iron	Manganese	Fluoride	Hardness	Alkalinity	Phosphate
Max.	1.7	1.9	8.40	15.8	.0.00	0.024	1.3	180	370	1.5
Min.	1.2	1.4	7.04	14.3	0.00	0.006	0.6	110	206	.6
Avg.	1.5	1.8	7.50	15.2	0.00	0.015	0.8	128	282	1.28
MCL	-	-	-	-	1.00	-	4.00	-	-	-
SMCL	-	-	-	-	0.30	0.050	2.00	-	-	-

Finished Water Flow Comparison for FY 2018

Time Period	2017-2018	2016-2017	2015-2016
September-August	386,031,132	404,198,317	383,755,982
Increase for the same period last year		**-18.167 MG**	

FINISHED WATER PUMPING HISTORY						
	2017-2018	2016-2017	2015-2016	2014-2015	2013-2014	2012-2013
September	39,896,986	36,325,215	36,546,171	29,763,075	37,597,085	32,510,603
October	33,506,605	34,374,820	34,783,455	28,803,052	33,916,594	30,278,765
November	28,617,333	30,478,309	27,217,293	28,426,579	31,615,459	27,114,479
December	28,808,037	32,525,530	27,788,637	28,656,869	32,697,551	29,014,035
January	30,556,824	30,449,215	28,510,121	30,346,721	32,499,427	28,007,432
February	25,617,914	27,373,232	26,095,228	26,336,077	28,745,378	25,763,807
March	28,217,699	30,068,363	27,851,811	28,729,919	31,217,486	28,130,190
April	27,110,578	29,625,797	29,292,618	29,270,184	31,690,073	27,991,597
May	33,304,196	32,120,873	33,349,391	33,371,016	31,157,411	29,592,356
June	34,040,000	39,931,402	41,541,321	31,092,539	38,462,951	36,530,691
July	41,178,722	42,164,927	35,378,396	33,123,375	38,674,894	40,908,704
August	35,176,238	38,760,634	35,401,490	38,109,133	33,748,543	42,999,243
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Totals	386,031,132	404,198,317	383,755,932	366,028,539	402,022,852	378,841,902
Average	1,123,654	1,098,190	1,058,804	1,007,794	1,154,319	1,036,277
Maximum	2,220,362	2,061,098	2,177,926	1,837,344	2,010,587	2,546,901
Minimum	423,165	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 Effluent Results						
Date	**Fe (mg/l)**	**Mn (mg/l)**	**Chloride (mg/l)**	**Cl^2 (mg/l)**	**pH (S.U.)**	**TSS (mg/l)**
						0
Minimum		.4	unknown			unknown
Maximum		.4	unknown			unknown
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 July 2018, performed by the Springfield Metropolitan Sanitary District, was unknown as of August, 2018. The limit for chloride discharge to the sanitary district is 30,000 mg/L.

3. OPERATIONS

3.1 EVENTS IMPACTING OPERATIONS

PLANT SHUTDOWN - During the month of Augustthe plant had a power surge that knocked out the SCADA system and caused the plant to shut down. In turn the high service pumps drained the clearwell and caused the system pressure to drop below acceptable EPA limits. On August 17th a boil order was issued, per EPA requirements, on August 18th, after receiving a negative coliform sample, the boil order was lifted.

3.2 EMERGENCY & SERVICE CALLS

Service Calls:

- There were no emergency call outs for the month.

3.3 EMERGENCY CALL-OUTS

There was 5 emergency call-out for the month requiring operational personnel at the plant after normal business hours

3.4 CUSTOMER INQUIRIES

There was 0 customer inquires for the month.

OTHER WORK PERFORMED

On August 7th compressor number 2 went down. Called HTE to do a service call. Was told to replace thermostat. Ordered and replaced thermostat. This did not fix the problem. While waiting for the service appointment, compressor number 2 went down. Had to make an emergency call to have them fixed.

Lagoon effluent pump 1 clogged. Called Henson Robinson to repair. Vacuumed out the pit, cleared pump 1 and repaired pump 2 that had been taken out of service the beginning of the year.

Drained and inspected East lagoon.

On August 24th a new UPS unit was installed in the Westech main panel in hopes of stopping surge-based shutdowns.

Due to the plant shutdown and SCADA failure HSP #3 damaged a seal. Pump 3 has been taken out of service and dismantled to perform diagnostics and repairs.

The week of August 20th new logic was written into the SCADA to prevent the HSPs from running dry and being damaged if a surge-based outage should occur again.

Repairs to the ExMark mower.


eXmark

4. MAINTENANCE AND REPAIR

4.1 PREVENTATIVE AND PREDICTIVE MAINTENANCE

For the month of August2018, there were 10inspections, 5preventative and 7 corrective maintenance activity completed.

4.2 CORRECTIVE REPAIR

Lagoon effluent pump- At the beginning of the year lagoon effluent pump #2 was taken out of service due to a malfunctioning flange and seal. This month there was an issue with the pump rate of pump #1. Henson Robinson was called and upon inspection found that pump #1 had sucked up a turtle and the shell was impeding the flow, but while in the pit,the repairs that pump #2 and we returned it back to service

SCADA ISSUES – There have been multiple issues with the SCADA programming that has been trouble shot by SCADASERV.

5. PROJECT MANAGEMENT & SUPPORT

5.1 STAFFING & TRAINING

- Woodard and Curran continue to train and provide staffing to the plant as needed. With Stephen Bivin providing training and support to Operator in Training Kevin Canham

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
- Kevin Canham
- Ray Giguere
- Stephen Bivin
- Greg Frieden
- David Kraus

5.3 BUDGET

Table 5.3 is not available.Please note that final numbers will be available once all expenses are processed.

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.

The most recent Capital List was included in the Year 2 Annual Report.

MENTAL PROTECTION AGENCY

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

DIVISION OF PUBLIC WATER SUPPLIES

Pumping Totals				Raw				Pre Filter			Chemical Test			Post IEX			Finished						
Total Well Filtered (M gal)	UF Gallons Treated (M gal)	Water Plant (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 Sol Mn mg/L	Total Fe mg/L	Total Mn mg/L	Mang. 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 T = Total F mg/L	Dist. Cl res F = Free PO4 3 mg/L
1.584	1.450	1.273	0.013	7.30	14.4	284	360	1.64	0.230		0.354	0.029			0.041	0.47							
1.621	1.472	1.164	0.013	7.31	14.2	280	356	1.14	0.179		0.263	0.025			0.053	0.42							
1.629	1.467	1.231	0.002	7.50	15.3	280	352	1.20	0.226		0.390	0.029			0.023	0.25	7.87	280	110	0.01	0.015	0.96	1.6	1.9	1.33
1.573	1.423	1.196	0.013	7.57	15.4	286	360	1.14	0.225		0.318	0.022			0.041	0.38	7.59	282	120	0.01	0.012	0.89	1.7	1.8	1.26
1.643	1.495	1.324	0.018	7.43	14.6	282	354	1.09	0.214		0.359	0.018			0.025	0.44	7.74	280	118	0.01	0.014	0.87	1.6	1.7	1.52
1.738	1.590	1.412	0.010	7.24	14.5	282	356	0.95	0.232		0.371	0.034			0.034	0.42	7.61	284	118	0.01	0.017	0.94	1.7	1.8	1.28
1.717	1.568	1.396	0.007	7.40	15.0	280	354	1.01	0.218		0.370	0.023			0.027	0.49	8.10	282	118	0.01	0.016	0.64	1.5	1.8	1.18
1.569	1.463	1.098	0.014	7.25	14.6	286	350	1.53	0.228		0.356	0.023			0.032	0.52	7.39	272	110	0.00	0.010	0.79	1.6	1.8	1.29
1.446	1.285	1.104	0.011	7.25	14.8	286	362	1.24	0.217		0.361	0.026			0.025	0.53	7.58	272	120	0.00	0.013	0.79	1.6	1.8	1.23
1.583	1.421	1.260	0.010	7.30	14.7	286	370	0.87	0.222		0.379	0.032			0.041	0.39	7.84	290	116	0.01	0.017	0.85	1.6	1.7	1.29
1.625	1.480	1.303	0.012	7.51	15.5	280	360	0.83	0.222		0.384	0.022			0.042	0.28	7.45	208	180	0.02	0.024	0.91	1.2	1.6	1.32
1.862	1.524	1.329	0.020	7.25	14.4	280	354	1.06	0.206		0.407	0.024			0.033	0.37	7.58	282	128	0.03	0.013	0.81	1.7	1.9	1.36
1.750	1.597	1.374	0.012	7.25	14.6	280	360	1.17	0.203		0.390	0.028			0.027	0.49	7.56	270	130	0.02	0.010	0.99	1.6	1.9	1.21
1.707	1.575	1.416	0.011	7.38	14.9	274	350	0.66	0.205		0.376	0.031			0.026	0.27	7.64	280	130	0.01	0.008	0.77	1.4	1.8	1.29
1.763	1.598	1.332	0.015	7.35	14.8	270	350	0.67	0.204		0.356	0.016			0.020	0.36	7.65	280	120	0.01	0.011	0.86	1.6	1.8	1.32
1.668	1.525	1.280	0.024	7.32	15.2	276	360	1.04	0.222		0.357	0.018			0.026	0.46	7.68	278	136	0.01	0.007	0.73	1.6	1.8	1.22
1.538	1.525	1.325	0.003	7.39	15.3	280	350	0.85	0.214		0.346	0.011			0.022	0.41	7.40	280	130	0.01	0.019	0.86	1.2	1.6	1.18
0.421	0.000	0.180	0.000	7.31	15.1	274	350	0.48	0.246		0.305	0.018			0.018	0.28	8.09	280	130	0.00	0.016	0.66	1.3	1.5	0.93
0.873	0.812	0.788	0.015	7.31	14.9	282	360	1.40	0.222		0.365	0.014			0.018	0.26	7.85	272	120	0.00	0.003	0.58	1.5	1.7	1.33
1.693	1.554	1.408	0.006	7.37	15.0	280	350	0.94	0.219		0.386	0.021			0.019	0.41	7.83	272	140	0.01	0.011	0.69	1.3	1.5	1.34
1.579	1.453	1.133	0.013	7.27	14.7	280	350	0.81	0.230		0.369	0.021			0.026	0.54	7.80	270	130	0.01	0.006	0.77	1.5	1.8	1.32
1.450	1.309	1.128	0.006	7.36	14.8	278	364	1.25	0.216		0.354	0.021			0.026	0.23	7.58	290	120	0.01	0.008	0.68	1.5	1.9	1.36
1.373	1.254	1.099	0.013	7.58	16.9	270	354	0.58	0.221		0.401	0.024			0.047	0.26	7.51	272	1,220	0.02	0.018	0.58	1.5	1.9	1.47
1.493	1.369	1.163	0.016	7.93	15.3	276	360	1.13	0.219		0.362	0.015			0.030	0.28	7.85	278	120	0.01	0.011	0.92	1.6	1.8	1.28
1.334	1.226	1.021	0.005	7.37	15.0	280	356	1.14	0.216		0.389	0.024			0.028	0.48	7.57	272	126	0.00	0.008	1.27	1.4	1.8	1.17
1.436	1.301	1.124	0.012	7.35	15.0	274	360	0.94	0.217		0.367	0.039			0.031	0.37	7.56	276	122	0.00	0.013	0.75	1.3	1.7	1.27
1.437	1.306	1.149	0.005	7.56	15.0	270	366	0.97	0.223		0.356	0.020			0.027	0.40	7.66	362	142	0.01	0.013	0.67	1.2	1.4	1.18
1.637	1.506	1.341	0.013	7.33	15.0	282	380	0.88	0.216		0.325	0.039			0.053	0.48	7.89	370	138	0.01	0.010	0.75	1.5	1.8	1.36
1.599	1.454	1.162	0.007	7.32	14.8	280	360	0.93	0.210		0.308	0.054			0.067	0.42	7.63	280	122	0.01	0.018	1.02	1.5	1.9	1.35
1.417	1.297	1.075	0.007	7.49	14.5	286	370	1.38	0.221		0.284	0.093			0.092	0.34	7.90	270	120	0.01	0.016	0.73	1.5	1.7	1.34
1.370	1.238	1.099	0.016	7.51	14.7	286	368	0.89	0.272		0.375	0.046			0.029	0.23	7.62	280	116	0.01	0.016	0.83	1.5	1.8	1.21
47.0	42.5	36.7	0.3																						
1.8	1.6	1.4	0.0	7.9	16.9	286.0	380.0	1.6	0.3	0.0	0.4	0.1	0.1	0.5	0.0	0.0	8.1	370.0	#####	0.0	0.0	1.3	1.7	1.9	1.5
0.4	0.0	0.2	0.0	7.2	14.2	270.0	350.0	0.5	0.2	0.0	0.3	0.0	0.0	0.2	0.0	0.0	7.4	208.0	110.0	0.0	0.0	0.6	1.2	1.4	0.9
1.5	1.4	1.2	0.0	7.4	14.9	279.5	358.3	1.0	0.2		0.4	0.0		0.0	0.0	0.0	7.7	281.7	163.2	0.0	0.0	0.8	1.5	1.8	1.3
ast Month																									
ON																									

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 %
Sodium Fluoride ____%F
Other: ____
Type of Test Instrument Used

r Solution Fed
Solution Fed
ate Solution Fed
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:

NVIRONMENTAL PROTECTION AGENCY

MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT

DIVISION OF PUBLIC WATER SUPPLIES ON South Sangamon Water Commission

FOR MONTH OI August 2018

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Pumping Totals			Chemicals Applied									UF Filters					Softeners					Soft. Regen		Chlorid
Hours Filter Ran	UF Gal. Filtered (M gal)	Water Treated (M gal)	Plant Water (M gal)	Chlorine		Fluoride		Phosphate		NaMnO4		Bi-Sulfite		Each day indicate total number of hours since previous backwash. If backwashed at mid-d 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				Salt Used lbs	Washed Water Gal	In mg/
				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				1	2	3	4			IEX 1	IEX 2
21.0	1.450	1.273	0.013	288.0	2.98	38.0	1.18	44.0	1.37	35.0	2.75			0.66	0.66	0.66	0.66	0.166	0.957	0.493	1.026	1.832	2.110							
21.1	1.472	1.164	0.013	250.0	2.55	39.0	1.33	9.0	0.31	29.0	2.23			0.66	0.66	0.66	0.66	0.162	0.972	0.500	2.101			310						
20.5	1.467	1.231	0.002	255.0	2.61	37.0	1.19	16.0	0.51	31.0	2.37			0.66	0.66	0.66	0.66	0.171	0.968	0.499		618	938	1.107						
19.4	1.423	1.196	0.013	267.0	2.81	42.0	1.39	20.0	0.66	31.0	2.45			0.66	0.66	0.66	0.66	0.156	0.939	0.484	943	1.545	2.025	1.710						
20.0	1.495	1.324	0.018	288.0	2.89	45.0	1.34	26.0	0.78	34.0	2.57			0.66	0.66	0.66	0.66	0.164	0.987	0.508	1.902	2.234		2.108						
21.2	1.590	1.412	0.010	275.0	2.59	38.0	1.06	26.0	0.73	32.0	2.29			0.66	0.66	0.66	0.66	0.171	1.049	0.541			436							
21.2	1.568	1.366	0.007	226.0	2.16	34.0	0.98	28.0	0.81	26.0	1.88			0.66	0.66	0.66	0.66	0.172	1.035	0.533	353	1.210	1.611	154						
20.2	1.463	1.098	0.014	239.0	2.45	36.0	1.30	35.0	1.26	33.0	2.60			0.66	0.66	0.66	0.66	0.164	0.966	0.497	1.840			1.247						
18.6	1.285	1.104	0.011	255.0	2.97	38.0	1.36	42.0	1.51	31.0	2.66			0.66	0.66	0.66	0.66	0.144	0.848	0.437		242		2.035						
19.7	1.421	1.260	0.010	286.0	3.02	43.0	1.35	50.0	1.57	33.0	2.58			0.66	0.66	0.66	0.66	0.163	0.938	0.483	651									
19.8	1.480	1.303	0.012	262.0	2.65	41.0	1.25	47.0	1.43	32.0	2.43			0.66	0.66	0.66	0.66	0.161	0.977	0.503	1.753	911		250						
20.3	1.524	1.329	0.020	295.0	2.90	43.0	1.28	50.0	1.49	35.0	2.57			0.66	0.66	0.66	0.66	0.166	1.006	0.518			33	719						
21.1	1.597	1.374	0.012	279.0	2.62	43.0	1.24	18.0	0.52	32.0	2.26			0.66	0.66	0.66	0.66	0.171	1.054	0.543	117			1.118						
21.3	1.575	1.416	0.011	296.0	2.81	39.0	1.09	18.0	0.50	34.0	2.47			0.66	0.66	0.66	0.66	0.171	1.040	0.536	1.004			1.203						
21.0	1.598	1.332	0.015	272.0	2.55	39.0	1.16	20.0	0.59	32.0	2.25			0.66	0.66	0.66	0.66	0.190	1.055	0.543	2.004	1.604		806						
21.2	1.525	1.280	0.024	181.0	1.78	36.0	1.11	21.0	0.65	21.0	1.56			0.66	0.66	0.66	0.66	0.157	1.007	0.519				1.339						
19.7	1.525	1.325	0.003	60.0	0.59	1.0	0.03	3.0	0.09	8.0	0.65			0.66	0.66	0.66	0.66	0.157	1.007	0.519										
6.4	0.000	0.180	0.000	226.0		34.0	7.47	22.0	4.84	26.0	7.64			0.66	0.66	0.66	0.66	0.036	0.000	0.000	2.224	1.559								
12.0	0.812	0.789	0.015	286.0	5.28	41.0	2.06	34.0	1.71	32.0	4.06			0.66	0.66	0.66	0.66	0.088	0.536	0.276		2.329	34							
21.0	1.554	1.406	0.006	214.0	2.06	30.0	0.84	30.0	0.84	25.0	1.83			0.66	0.66	0.66	0.66	0.180	1.026	0.528	1.214	2.208		1.411						
19.7	1.453	1.133	0.013	238.0	2.46	36.0	1.26	38.0	1.33	27.0	2.11			0.66	0.66	0.66	0.66	0.152	0.959	0.494				953						
17.5	1.309	1.128	0.006	231.0	2.64	35.0	1.23	37.0	1.30	27.0	2.29			0.66	0.66	0.66	0.66	0.125	0.864	0.445	320			527						
16.8	1.254	1.099	0.013	237.0	2.83	37.0	1.33	39.0	1.40	27.0	2.42			0.66	0.66	0.66	0.66	0.140	0.828	0.426	1.812	1.432	48	1.628						
18.0	1.369	1.163	0.016	183.0	2.00	31.0	1.05	33.0	1.12	17.0	1.40			0.66	0.66	0.66	0.66	0.147	0.904	0.465				1.437						
16.3	1.226	1.021	0.005	247.0	3.02	37.0	1.43	39.0	1.51	29.0	2.66			0.66	0.66	0.66	0.66	0.121	0.809	0.417	1.940	1.215		1.020						
17.6	1.301	1.124	0.012	267.0	3.06	41.0	1.44	45.0	1.58	32.0	2.73			0.66	0.66	0.66	0.66	0.149	0.859	0.442				505						
17.8	1.306	1.149	0.005	253.0	2.90	36.0	1.24	26.0	0.90	30.0	2.56			0.66	0.66	0.66	0.66	0.138	0.862	0.444	1.753	1.233	1.432	1.559						
20.8	1.506	1.341	0.013	246.0	2.45	36.0	1.06	22.0	0.65	29.0	2.18			0.66	0.66	0.66	0.66	0.164	0.994	0.512				2.255						
19.7	1.454	1.162	0.007	221.0	2.28	33.0	1.12	24.0	0.82	25.0	1.91			0.66	0.66	0.66	0.66	0.159	0.960	0.494	600	18		429						
17.7	1.297	1.075	0.007	235.0	2.72	34.0	1.25	29.0	1.07	28.0	2.41			0.66	0.66	0.66	0.66	0.138	0.856	0.441	2.128	2.008	1.316	1.804						
17.4	1.238	1.099	0.018	247.0	2.99	36.0	1.30	37.0	1.33	29.0	2.58			0.66	0.66	0.66	0.66	0.139	0.817	0.421										
586.0	36.66	36.66	36.66	7.604	79.63	1.129	43.74	928.0	35.17	892.0	77.36	0.0	0.00					4.68	28.07	14.46					0	0	0.0	0.00		
21.3	1.42	1.42	1.42	295	5.28	45	7.47	50.0	4.84	35.0	7.64	0.0	0.00					0.19	1.05	0.54					0	0	0.0	0.00		
6.4	0.18	0.18	0.18	60	0.59	1	0.03	3.0	0.09	8.0	0.65	0.0	0.00					0.04	0.00	0.00					0	0	0.0	0.00		
18.9	1.18	1.18	1.18	245	2.65	36	1.41	29.9	1.13	28.8	2.50			0.66	0.66	0.66	0.66	0.15	0.91	0.47										

eading Last Month

PLICATION

TION:

% Chlorine Solution Fed

% Fluoride Solution Fed

% BisulfiteSolution Fed

% Phosphate Solution Fed

% 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:

RTW Sample

Temp

TDS

pH

Alkalinity

Calcium Hardness

Chloride

Sulfate