

SURFSIDE HOMEOWNERS ASSOCIATION

WATER SYSTEM MANAGER'S REPORT

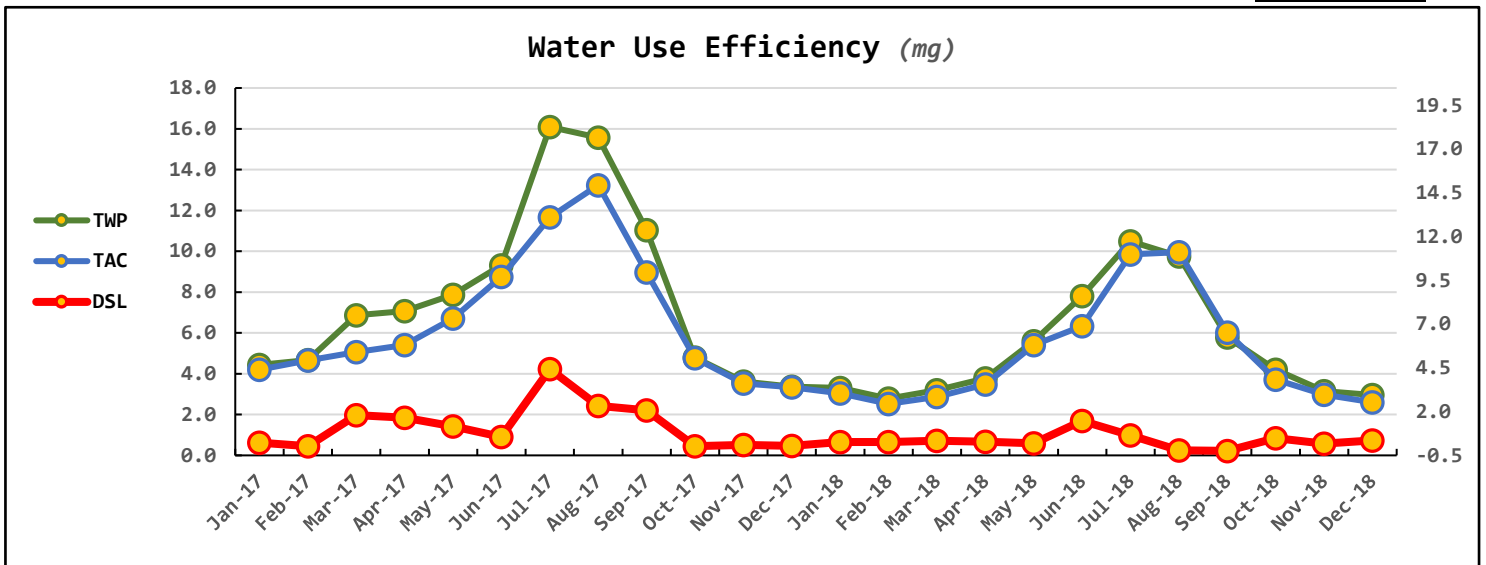
January-2019

MG(million gallons) Mg/L(milligrams per liter) Ug/L(micrograms per liter) MCL(Maximum Contaminant Level) cf(cubic foot)

Meter Period

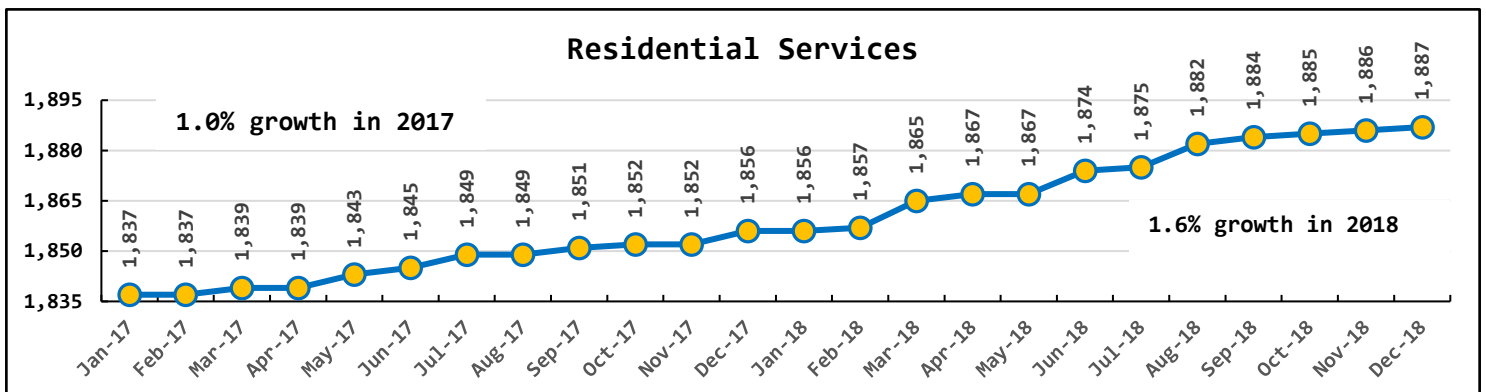
30-November-2018 thru 31-December-2018

Total Water Produced (TWP) in 2018	62.7698	<i>mg</i>
Total Metered Water Use in 2018	56.1995	<i>mg</i>
Total Water Main Flushing Water Use in 2018	2.5594	<i>mg</i>
Total Other Authorized Water Use in 2018	0.0000	<i>mg</i>
Total Authorized Consumption (TAC) in 2018	58.7589	<i>mg</i>
Total Distribution System Leakage (DSL) in 2018	4.0108	<i>mg</i>
Percentage of DSL in 2018	6.39%	%



Total Metered Services in December 2018

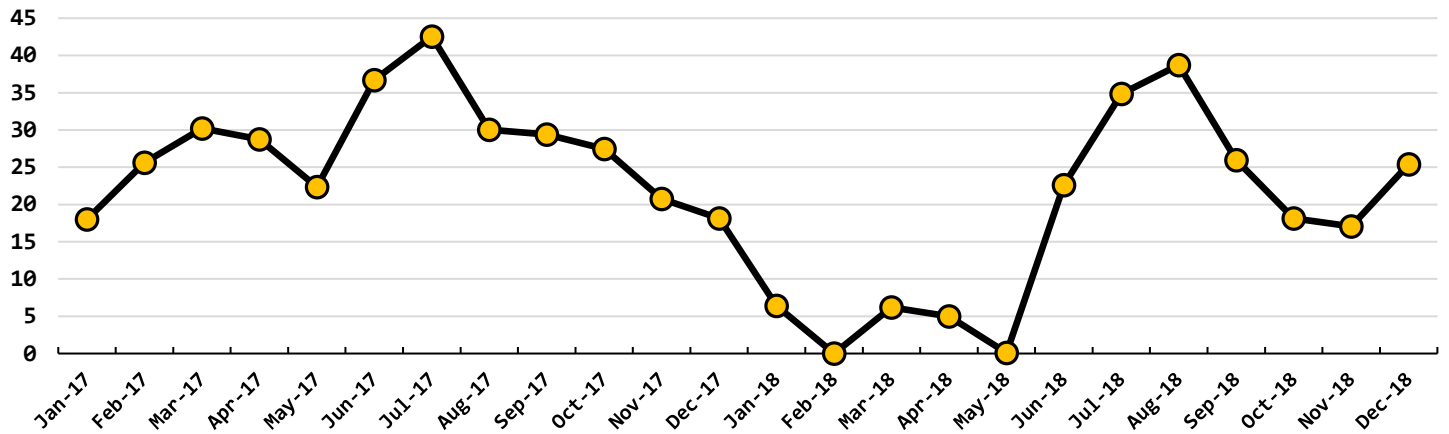
Surfside Meters 15 Commercial Meters 6 Residential Meters 1,887 ea



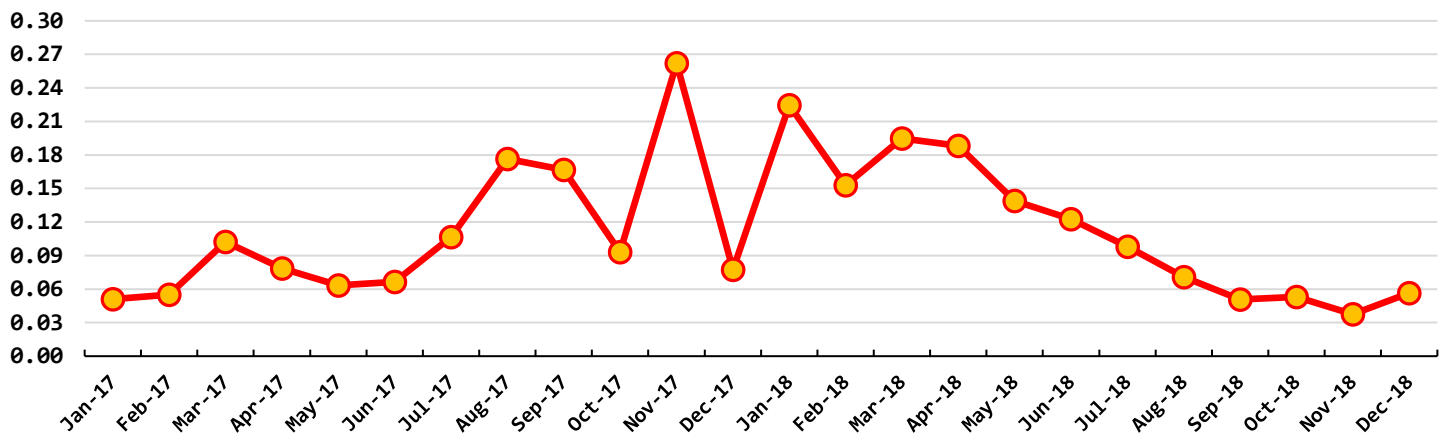
For December 2018

Average Distribution Color	25.38	hu
Average Distribution Chlorine	0.06	hu
Average Distribution Temperature	50.00	hu

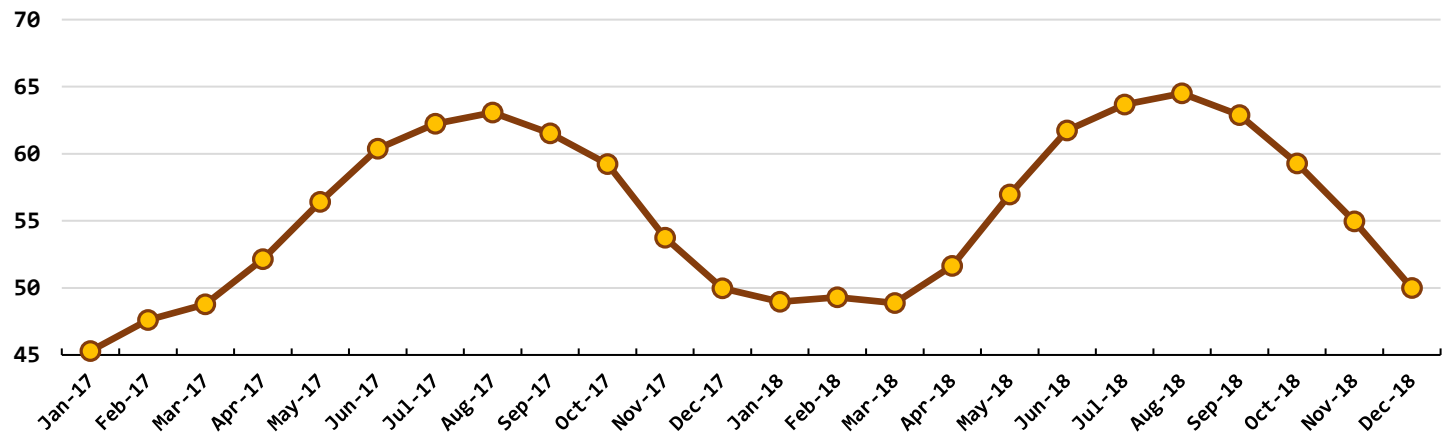
Average Distribution Color



Average Distribution Chlorine



Average Distribution Temperature

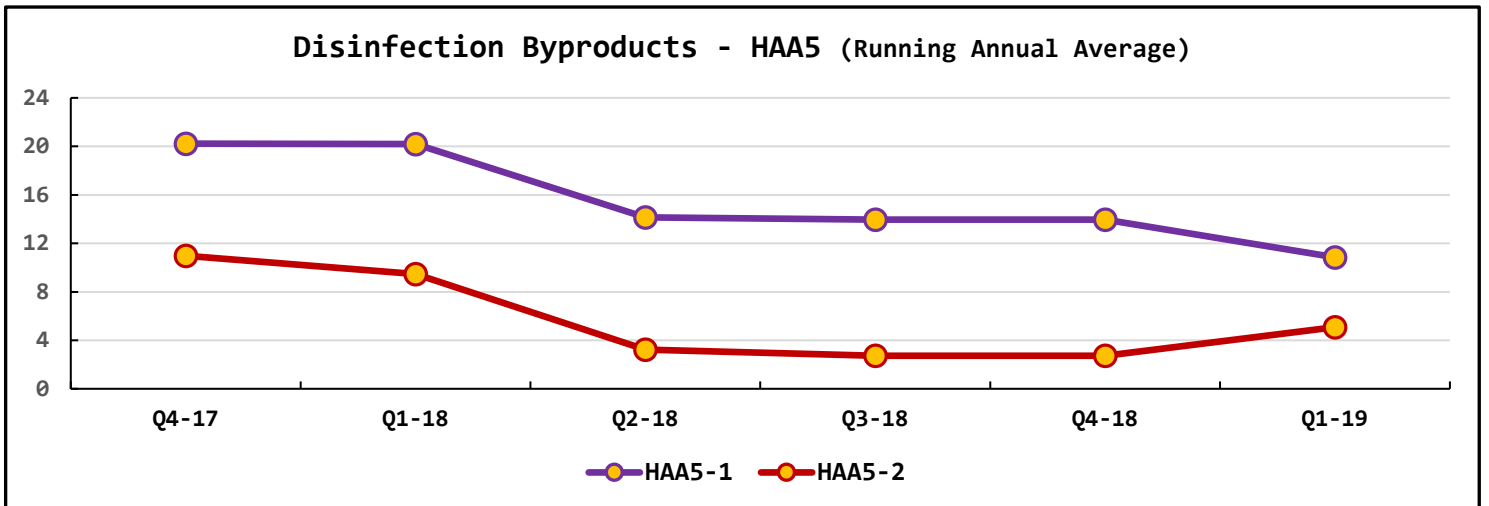
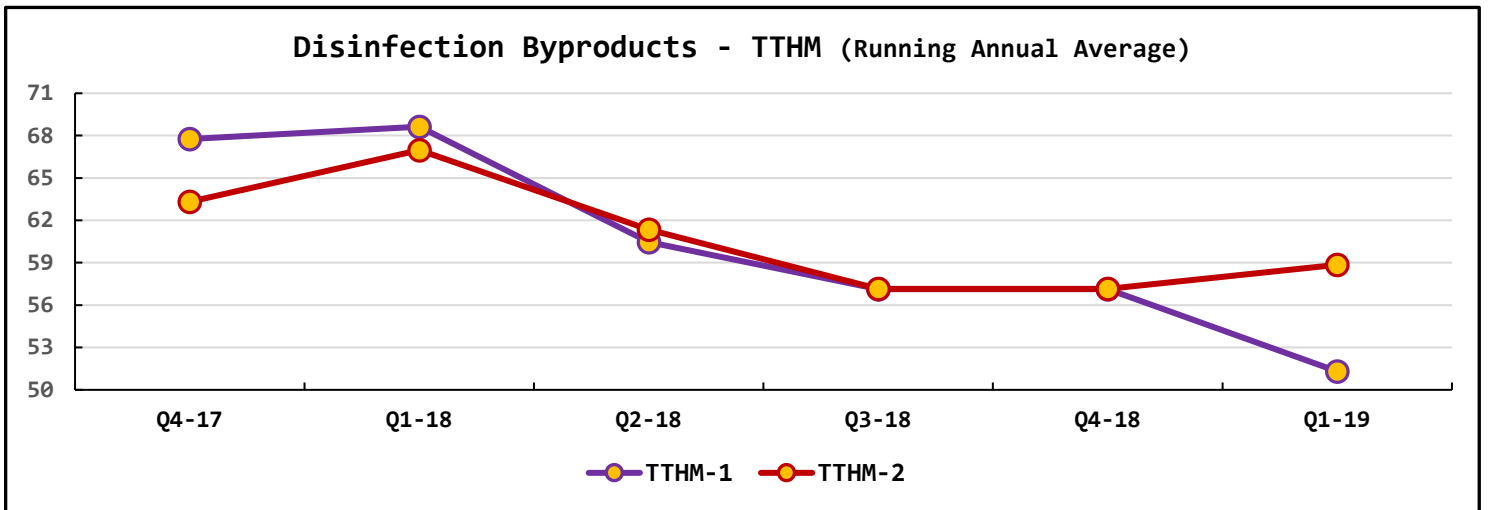


Water Quality Report for 2018

Routine Coliform Bacteria Sample (Good)	19	<i>ea</i>
Routine Coliform Bacteria Sample (Bad)	0	<i>ea</i>
Repeat Coliform Bacteria Sample (Good)	0	<i>ea</i>
Repeat Coliform Bacteria Sample (Bad)	0	<i>ea</i>
Ground Water Rule Coliform Bacteria Sample (Good)	0	<i>ea</i>
Ground Water Rule Coliform Bacteria Sample (Bad)	0	<i>ea</i>
Investigative Coliform Bacteria Sample (Good)	8	<i>ea</i>
Investigative Coliform Bacteria Sample (Bad)	0	<i>ea</i>
Construction Coliform Bacteria Sample (Good)	12	<i>ea</i>
Construction Coliform Bacteria Sample (Bad)	0	<i>ea</i>
Disinfection Byproducts-TTHM Site-1	55.2	<i>Ug/L</i>
Disinfection Byproducts-TTHM Site-2	59.3	<i>Ug/L</i>
Disinfection Byproducts-HAA5 Site-1	9.8	<i>Ug/L</i>
Disinfection Byproducts-HAA5 Site-2	5.1	<i>Ug/L</i>

MCL-80 Ug/l
MCL-80 Ug/l
MCL-60 Ug/l
MCL-60 Ug/l

Forth Quarter 2018



Water System Activities

Service Calls in 2018	281	<i>ea</i>
Locates in 2018	246	<i>ea</i>
Distribution Leaks Repaired in 2018	2	<i>ea</i>
Main Breaks in 2018	2	<i>ea</i>
New Water Services in 2018	30	<i>ea</i>
Decommissioned Services in 2018	11	<i>ea</i>

Water Main Replacement

Feet of Water Main Replaced in 2018	5,430	<i>lf</i>
Valves Installed / Replaced in 2018	30	<i>ea</i>
Fire Hydrants Installed / Replaced in 2018	3	<i>ea</i>
Feet of right-away restored in 2018	5,050	<i>lf</i>

Members Leaks

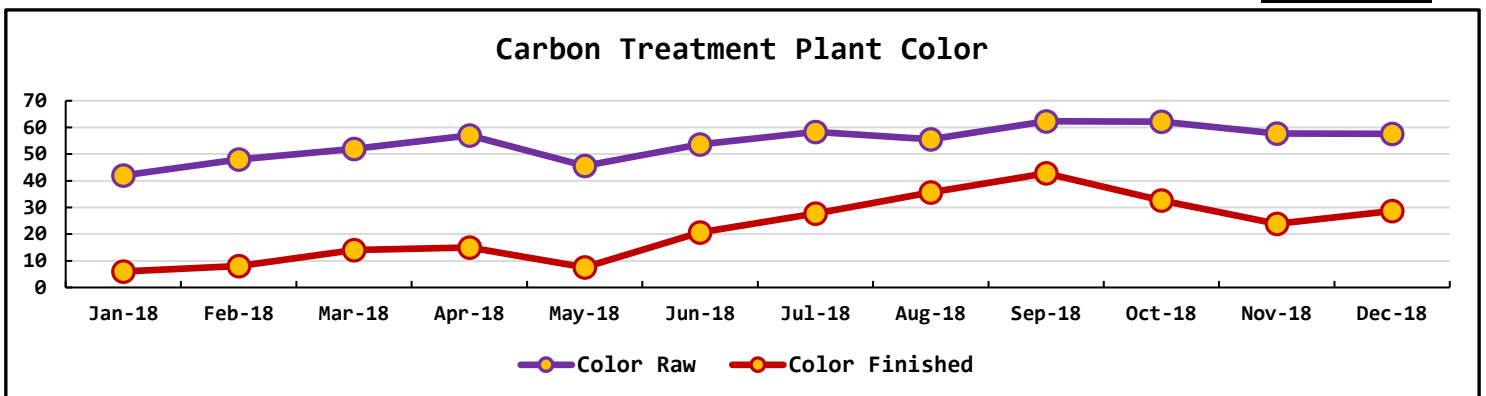
Leak Letters Mailed in 2018	572	<i>ea</i>
Leak Investigated in 2018	169	<i>ea</i>
Leaks Resolved in 2018	222	<i>ea</i>
Leaks Unresolved in 2018	354	<i>ea</i>

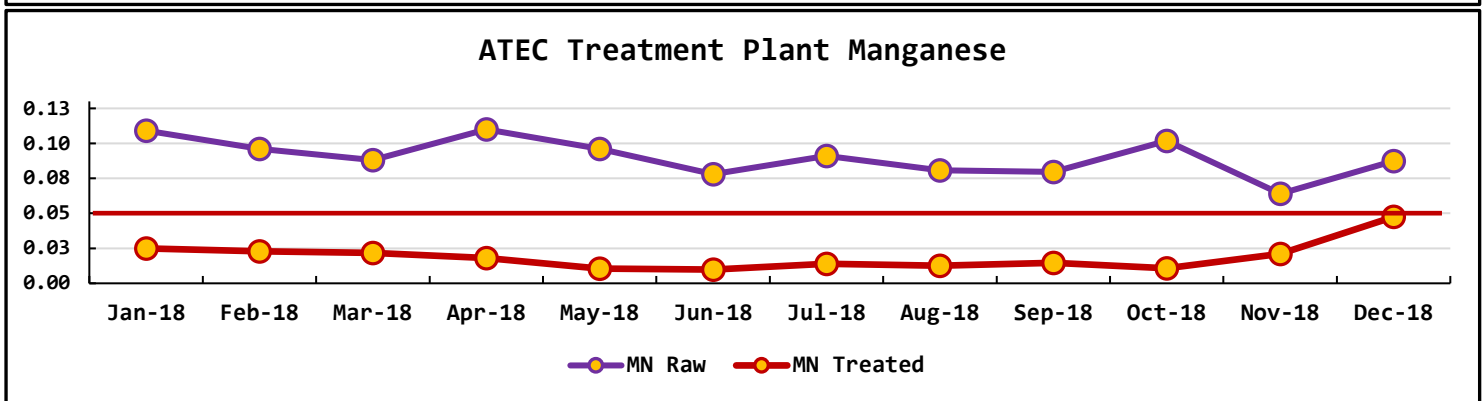
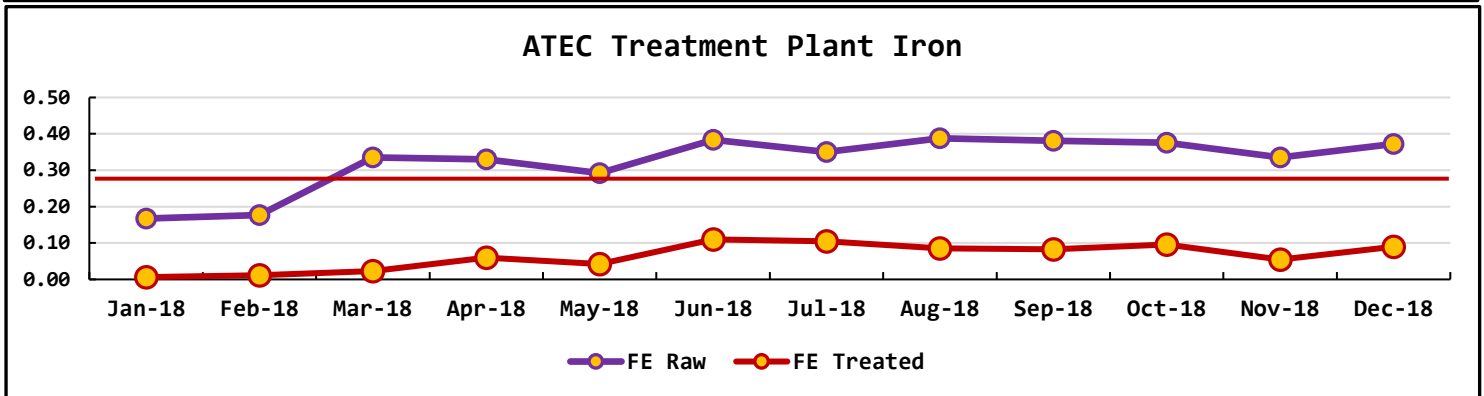
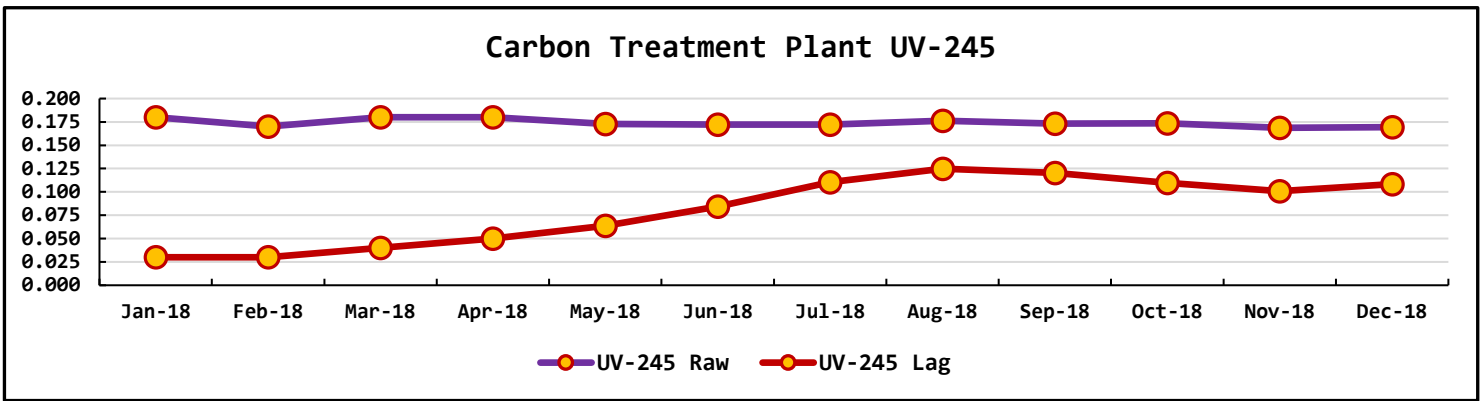
ATEC Treatment Plant

(MCL .3 mg/L) Iron (FE) Raw in December 2018	0.37	<i>mg/L</i>
Iron (FE) Treated in December 2018	0.09	<i>mg/L</i>
(MCL .05 mg/L) Manganese (MN) Raw in December 2018	0.09	<i>mg/L</i>
Manganese (MN) Treated in December 2018	0.05	<i>mg/L</i>

Carbon Treatment Plant

(MCL 15 Hu) Color Raw	58
Color Finished	29
UV-254 Raw	0.169
UV-254 Lead	0.148
UV-254 Lag	0.108





Cross Connection Control

Compliance Letters Mailed in 2018	162
Cross Connection Investigations in 2018	140
Cross Connection Questionnaires in 2018	62
Backflow Assemblies Installed in 2018	10
Backflow Assemblies Tested in 2018	151
Backflow Assemblies Replaced in 2018	1
Pending Questionnaires	5
Total Number of Backflow Assemblies Installed	155
Number of Cross Connection Hazards Pending Removal	120
Number of Cross Connection Hazards Pending Investigation	49
Number of Water Services Locked Off for Cross Connection Compliance	7

High Water Users Report

Meter Period 30-November-2018 thru 31-December-2018

Cubic Feet	Gallons	Gallons/Day	Leak Status
31,215	233,504	7,532	Leak
4,009	29,989	967	No Leak
3,289	24,603	794	No Leak
3,186	23,833	769	No Leak
3,049	22,808	736	Leak
2,775	20,758	670	No Leak
1,876	14,033	453	No Leak
1,765	13,203	426	No Leak
1,422	10,637	343	Intermittent Leak
1,373	10,271	331	Intermittent Leak
1,373	10,271	331	Leak
1,298	9,710	313	No Leak
1,246	9,321	301	Leak
1,191	8,909	287	No Leak
1,133	8,475	273	No Leak
1,091	8,161	263	No Leak
1,064	7,959	257	Leak
1,061	7,937	256	No Leak
1,060	7,929	256	No Leak
1,049	7,847	253	Leak
1,031	7,712	249	Intermittent Leak
1,001	7,488	242	Leak
963	7,204	232	Leak
953	7,129	230	Leak
923	6,905	223	No Leak

Top Water Users This Metering Period	0.5266	<i>mg</i>
Total Residential Metered Water This Metering Period	2.3917	<i>mg</i>
Percent of High Water Users	1.3%	<i>%</i>
Percent of Water High Water Users Use	22.0%	<i>%</i>



WATER SYSTEMS OPERATION REPORT FOR DECEMBER 2018:

CROSS CONNECTION CONTROL:

155 of the 158 backflow assemblies and air gaps were tested in 2018. 4 of the assemblies tested this year failed. We will work with the owners of the 3 untested backflow assemblies to perform the test soon. We will retest the failed backflow assemblies as soon as they have been repaired.

MAIN BREAK/LEAKS:

No main breaks to report. No distribution system leaks to report.

CARBON TREATMENT PLANT:

We are waiting for the results of the disinfection byproducts samples before we schedule the replacement of the Carbon. If the TTHM samples are less than 60 Ug/L we will postpone the replacement to March.

ATEC FILTER:

The performance of the ATEC Filter declined significantly in December. The first thing I noticed was a reduced backwash flow rate. If the filter vessels are not backwashed at a minimum of 350 gallons per minute, they will not remove all the collected contaminate. This condition will negatively affect the filters performance. After an investigation, the cause of the low flow rate was traced to a missed backwash of the Carbon Treatment Plant. Corrective actions have been taken and the performance of the ATEC filter should improve over the next few weeks.

WATER TREATMENT:

D-Chlor dosing has been reduced and appears to continue to perform well. It may be that the D-Chlor was overdosing and lowering water pH, perhaps causing an increase in anode corrosion in hot water tanks and sulfur smell complaints.

WATER SYSTEM OPERATIONS:

It was discovered that annual production report to the Department of Ecology for Wells J5 and J7 were reversed. In January the wells will be relabeled to correspond with Department of Ecology records. The Department of Ecology has been informed of the error. The annual product report for 2017 has been corrected.

CONSERVATION RATE:

Conservation rate will be reduced to 8,000 cubic feet in January for single residence homes. December 2018 had 1 excessive user, which appeared to be a leak, using 31,000 cubic feet and generating a \$600 fine. The member can apply for a leak adjustment to have the fine reduced.

EDUCATION:

Justin is scheduled to test for his Water Treatment Plant Operator level 1 (WTPO1) and his Cross-Connection Control Specialist (CCS) license in January 2019. Gil attended

training December 3-6, 2018. Toby and April will be attending a 1-day asbestos training class in January 2019.

WATER MAIN REPLACEMENT:

In 2018 the crew has replaced 5,430 lineal feet of water main in division 14 & 15. In addition, they have installed 30 valves, 3 fire hydrants, 2 air release valves, and restored 5,050 lineal feet of right-of-way.

INVENTORY DECEMBER 31, 2018:

Operations & Maintenance Inventory:

Regular Inventory-----	\$30,824.24
Non-Stocking Items -----	\$ 7,515.66

Water Main Replacement Inventory:

Regular Inventory-----	\$49,386.96
Non-Stocking Items -----	\$ 6,386.11

Total Inventory----- \$94,112.97