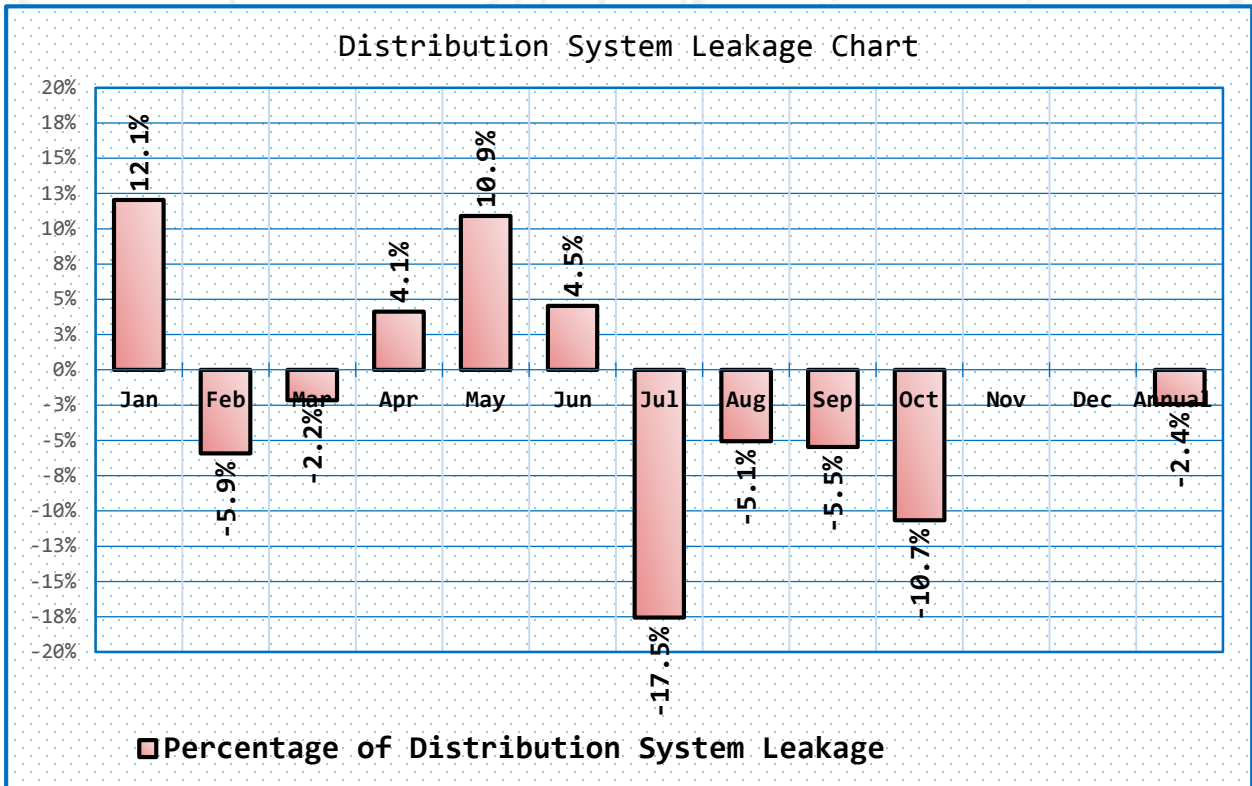
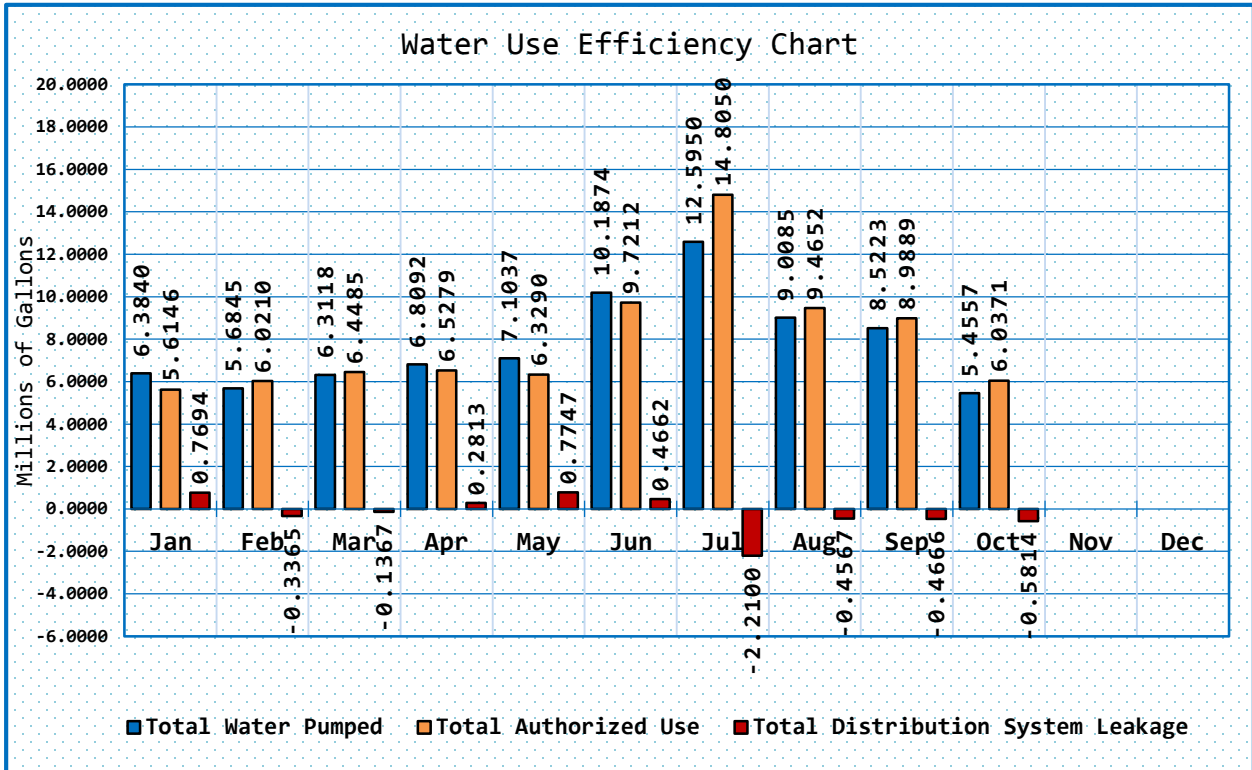


# GENERAL MANAGER'S REPORT

## REPORT ON WATER SYSTEM OPERATIONS FOR THE MONTH OF :

The Meter Period for this report is:		through	
The Billing Period for this Report is:		through	
The Activity Period for this Report is:		through	
1	Total Water Pumped (TWP) from all Wells in Metering Period		mg <sup>1</sup>
2	Total Water Used for Unidirectional Flushing in Metering Period		mg
3	Total Water Used for Reactionary Flushing in Metering Period		mg
4	Total Water Used for Backwashing Filters in Metering Period		mg
5	Total Water Lost and Used Repairing Leaks in Metering Period		mg
6	Total Other Known Water Used in Metering Period		mg
7	Total Water Sold in Metering Period		mg
8	Total Authorized Water Use in Metering Period (sum of 2 through 7)		mg
9	Total Distribution System Leakage (DSL) in Metering Period (difr. between 1 and 8)		mg
10	Percentage of TWP that is DSL		pct
11	Total Water Pumped (TWP) from all Wells in 2015 to date		mg
12	Total Authorized Water Use in 2015 to date		mg
13	Total Distribution System Leakage (DSL) in 2015 to date		mg
14	Percentage of TWP that is DSL in 2015 to date		pct
15	Residential Accounts in Billing Period	TS <sup>2</sup> :	TBR <sup>3</sup> :
16	Commercial Accounts in Billing Period	TS:	TBR:
17	Fire Flow Accounts in Billing Period	TS:	TBR:
18	Surfside Management in Billing Period	Contract:	REIMB <sup>5</sup> :
19	Other / Total Income in Billing Period	Other:	TI <sup>6</sup> :
20	Past Due Accounts	30 days:	≥60 days:
			Locked/Off:
			Liened Prop.:
21	Activity Period	Water Main Locates:	Customer Valves Installed:
22	Water Quality Complaints:	Customer Service Calls:	Other:

<sup>1</sup> Million Gallons  
<sup>2</sup> Total Services  
<sup>3</sup> Total Base Rate  
<sup>4</sup> Total Metered Rate  
<sup>5</sup> Reimbursement  
<sup>6</sup> Total Income



## **Operations Report:**

### **Surfside Water Main Breaks Follow-up:**

Surfside Water System had 11 water main breaks during November. The water main breaks started on November 11, 2015 and ended on November 15, 2015. The Surfside crew worked a total of 90 hours from November 11, 2015 through November 15, 2015. North Beach Water District employees John Fleming and Joshua Maxey also assisted Surfside with the repairs on Sunday November 15.

The water main breaks resulted in a precautionary boil water notice. Although there was not confirmed contamination in the distribution system, the multiple water main breaks resulted in a condition where I could not reasonably ensure the water was safe to drink. I issued the boil water notice on Saturday November 14, 2015 and the boil water notice was lifted on Wednesday November 18, 2015 after a total of 11 water samples tested negative for coliform bacteria.

### **North Beach Water District 2015 Unidirectional Flushing Program:**

The District completed its 2015 unidirectional flushing program (UDF) on Friday December 11, 2015. North Beach Water District used the UDF as an opportunity to disinfect the distribution system with chlorine. The District has experience several positive coliform bacteria water samples in 2015 indicative of a bacterial contamination in the distribution system. During the UDF Chlorine was added to the water to achieve a residual of free chlorine high enough to provide disinfection beyond system chlorine demand. The District will be taking several investigative samples in December and January to ascertain the effectiveness of the distribution disinfection efforts.

### **RFP for Birch Place Booster Stations.**

This project is on hold until the South Wellfield waterer main loop is complete. When the loop is complete a new hydraulic analysis will be completed on the Distributions System in Sunset Sands to determine what course of action should be taken in that development.

### **North Wellfield Well:**

No failures or maintenance issues to report in September.

### **North Wellfield Treatment Plant:**

A new water meter was installed at the North Wellfield Treatment plant to accurately measure the water being treated and sent to the storage reservoirs (finished water meter). Mike Johnson provided specifications for the meter and our Treatment Plant Operator installed and programed the meter with minimal assistance.

The next phase of the North Wellfield meter replacement project will be to replace the source meters from each well. Once again, Mike Johnson with Gray and Osborne has provided the specifications for the meters and our Treatment

Plant Operator will be installing and programming the meters. The estimated cost of the meter replacement will be \$15,000

As the meter replacement project is nearing completion the amount of water being sold each month is more than the water being produced. We cannot sell more water than we produce so our production meters are out of calibration. It is not surprising considering they are all more than 20 years old. The average life of a production meter is 10 years. WAC 173-173-090 (2) states: **“Upon discovery of a malfunctioning measuring device or facility, the responsible party (owner of the well) shall repair the device or facility and make them operable as soon as possible.”** Section 3 give the Department of Ecology the authority to order a responsible party to repair or replace the faulty meter within a specified time period. WAC 173-173 provides detailed instructions on when and how meters should be shop calibrated and/or repaired. WAC 246-290-496(3) states: **“Meters must be selected, installed, operated, calibrated, and maintained following generally accepted industry standards and information from the manufacturer.”** The Department of Health will want the District to shop calibrate our source meters when they notice the current readings. The cost of shop calibrating 2 and 3 inch meters is cost prohibitive. It is more cost effective to just replace the meters every ten years, of which we are way overdue. We will be replacing the source meters in the December/January.

#### **South Wellfield:**

The water main loop around the Hill Property is complete and the Bob Hill has been informed that the NBWD water main located on his property is now abandoned. Gibbs and Olsen will perform another hydraulic analysis of the distribution system in Sunset Sands in late December or early January depending on schedules and weather. Once that second hydraulic analysis is complete we will reevaluate planned improvements in Sunset Sands to determine the most appropriate action proceeding forward. I have advised Roger Taylor, President of Sunset Sands HOA, of the discovery and our plans. Roger will be invited to attend the field data collection portion of the second hydraulic analysis.

#### **Drinking Water State Revolving Fund Project:**

**Gray and Osborne has advertised the DWSRF Loan Project for Bid.** Bid packets were advertised in the Seattle and Portland Daily Journal of Commerce and in the Chinook Observer. There is a Pre-bid meeting scheduled for December 16, 2015 in Ocean Park.

**The Office of Drinking Water Approved the Pilot Study for Wiegardt Wells, ODW Project #14-0804, on September 16, 2015.**

**Pacific County Department of Community Development issued building permits for the Drinking Water State Revolving Fund Loan projects on October 26, 2015.** The fees for the permits is \$16,316.85. That was significantly more than anticipated. I am working with the Pacific County to get the cost of the

building permit in line with construction estimates.

The Department of Ecology approved the District's application for Water Rights Change (No. CG-00174@2) on October 22, 2015. The Report of Examination includes all of the conditions applied for by the District. The District has until January 1, 2030 to put the water to full use.

Source approval has still not been approved. Teresa Walker is asking for some last minute clarifications from the hydrogeologists regarding their report. It is our expectation that the Robinson and Noble will be able to provide those clarifications relatively quickly.

**AMR Meter Installation Project Report:**

The crew installed 5 AMR meters in October, 2015. There are a total of 2,494 AMR meters installed as of November 30, 2015. There are 192 meters left to install. We will have to average 192 meters in December to complete the metering project on time.

**Office and Equipment Building Report:**

The roof is Complete. The siding has started and the sidewalks and aprons should be poured soon. Gutters and downspouts will be installed the week of December 14, 2015. Windows are scheduled to arrive the week of December 14, 2015. Rough-in electrical and plumbing is scheduled to begin the week of December 14, 2015. Thermal Technologies will be starting the heat pump duct installation the week of December 21, 2015.

**Water Quality Reports:**

I have attached copies of the water samples the District submitted for analysis in November, 2015. They were:

Routine S-21	----	11/02/2015	-----	Coliform Bacteria	-----	Satisfactory
Routine S-15	----	11/02/2015	-----	Coliform Bacteria	-----	Satisfactory
Routine S-20	----	11/02/2015	-----	Coliform Bacteria	-----	Satisfactory
Routine S-08	---	11/09/2015	-----	Coliform Bacteria <sup>1</sup>	-----	Unsatisfactory
Routine S-12	----	11/09/2015	-----	Coliform Bacteria	-----	Satisfactory
Repeat	-----	11/11/2015	-----	GWR Well #1	-----	Satisfactory
Repeat	-----	11/11/2015	-----	GWR Well #4	-----	Satisfactory
Repeat	-----	11/11/2015	-----	GWR Well #5	-----	Satisfactory
Repeat	-----	11/11/2015	-----	GWR Well #6	-----	Satisfactory

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<sup>1</sup> E-coli present

Repeat -----11/11/2015 ----- GWR Well #8 ----- Satisfactory  
Repeat S-08 -----11/11/2015 ----- Distribution----- Satisfactory  
Repeat 20503 B. -11/11/2015 ----- Distribution----- Satisfactory  
Repeat 20407 C. -11/11/2015 ----- Distribution----- Satisfactory  
Routine S-02 ---11/23/2015 ----- Coliform Bacteria ----- Satisfactory  
Routine S-16 ----11/23/2015 ----- Coliform Bacteria ----- Satisfactory  
Voluntary<sup>2</sup> S-04 11/12/2015 ----- Coliform Bacteria ----- Satisfactory  
Voluntary S-07 -11/12/2015 ----- Coliform Bacteria ----- Satisfactory  
Voluntary S-08 -11/12/2015 ----- Coliform Bacteria ----- Satisfactory  
Voluntary S-11 --11/12/2015 ----- Coliform Bacteria ----- Satisfactory  
Voluntary S-20 -11/12/2015 ----- Coliform Bacteria ----- Satisfactory

End of Report

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*“When you drink the water, remember the spring.”*  
*Chinese Proverb*

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<sup>2</sup> Voluntary/Precautionary sample taken above and beyond the samples required by DOH after an unsatisfactory bacteria sample. Voluntary Samples do not count toward achieving compliance with safe drinking water rules but they do provide greater assurance that the District is providing safe drinking water to its ratepayers.