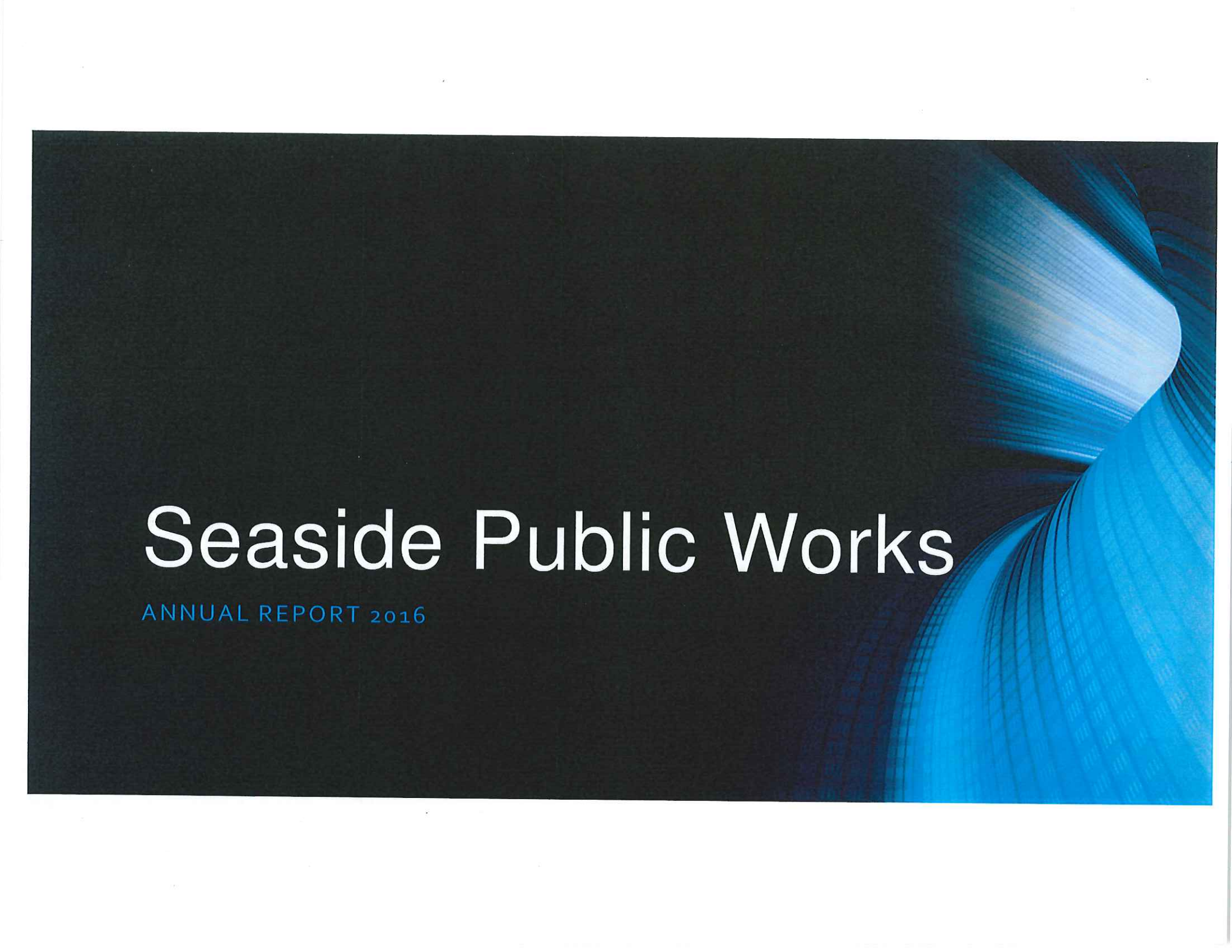


The background of the cover is a dark, textured black. On the right side, there is a large, abstract graphic element consisting of several concentric, flowing blue lines that create a sense of movement and depth, resembling a stylized wave or a tunnel. The lines are a vibrant blue color and have a slightly blurred, motion-blurred appearance.

Seaside Public Works

ANNUAL REPORT 2016

Our Office

Photo by
Randall
Henderson



Staff

- **Water Department**

- Mike Maine, Ron Wanner, Jeff Gosser, Kevin Nagel

- **Sewer Department**

- Tony Biamont, Tom Hecox, Brian Lawson, Kyle Mergel, George Whitlock, Dave Patch, Matt Miller

- **Street Department**

- Jeremy Strimple, Matt Long, Steven Kever, Nate Kerwin, Darlene Pederson Brown, Sam Whisler

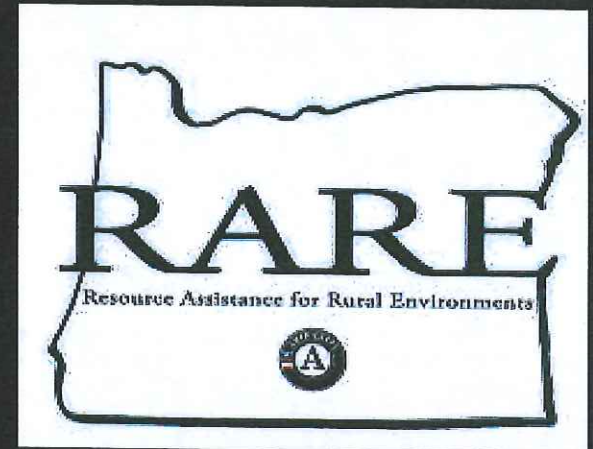
- **Engineering**

- Geoff Liljenwall, Alvin Harwood

- **Fleet Maintenance**

- Terry Bush

- Christian Montbriand
- Parks Master Plan
- Transportation Advisory Commission (TSP)
- Safety Fair
- Walk & Bike Memorial Monuments Tri-fold Brochure
- Walk & Bike Seaside Parks Tri-fold Brochure
- Downtown Parking Master Plan

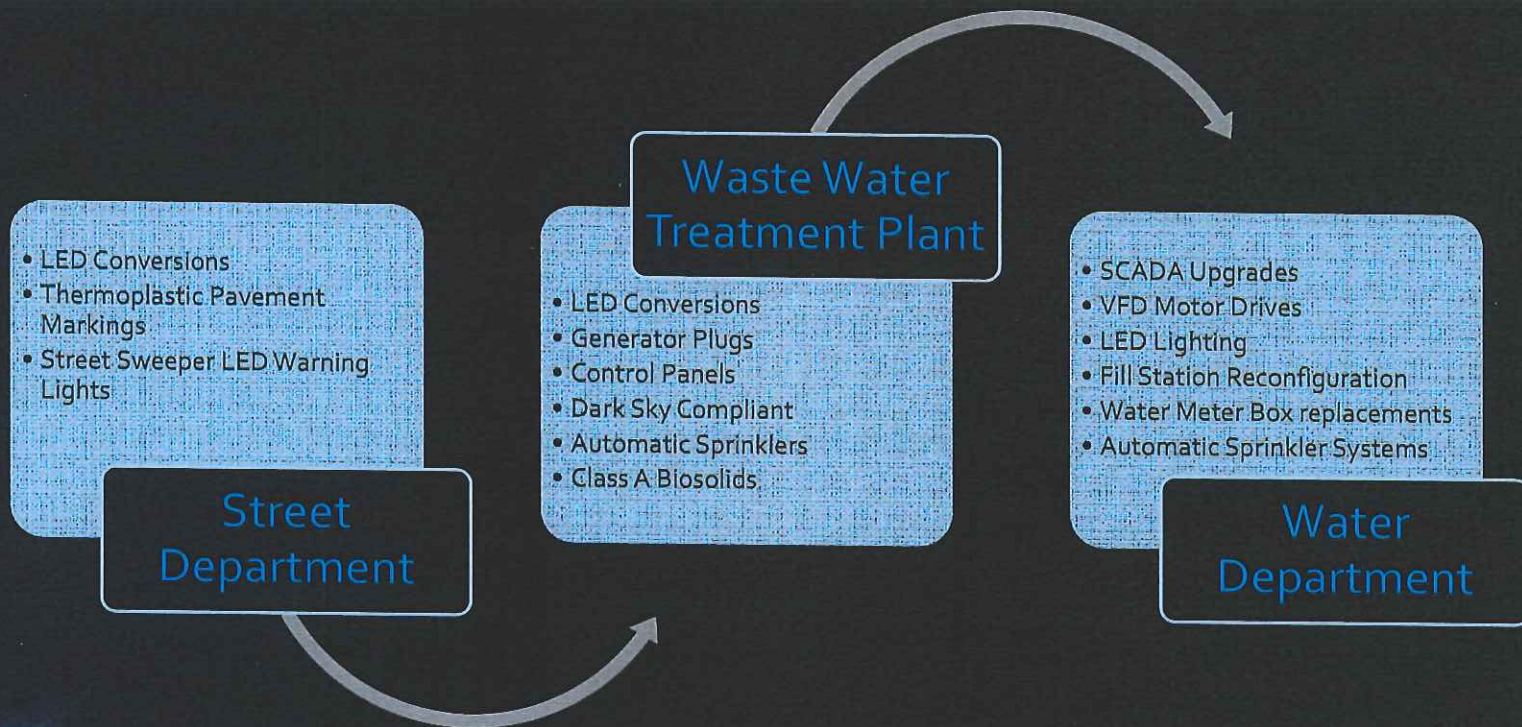


Public Works serves on the following Commission's and Committee's

- Transportation Advisory Commission
- City Tree Board
- Airport Committee
- Parks Advisory Committee
- Improvement Commission as needed
- SDDA Transportation Committee

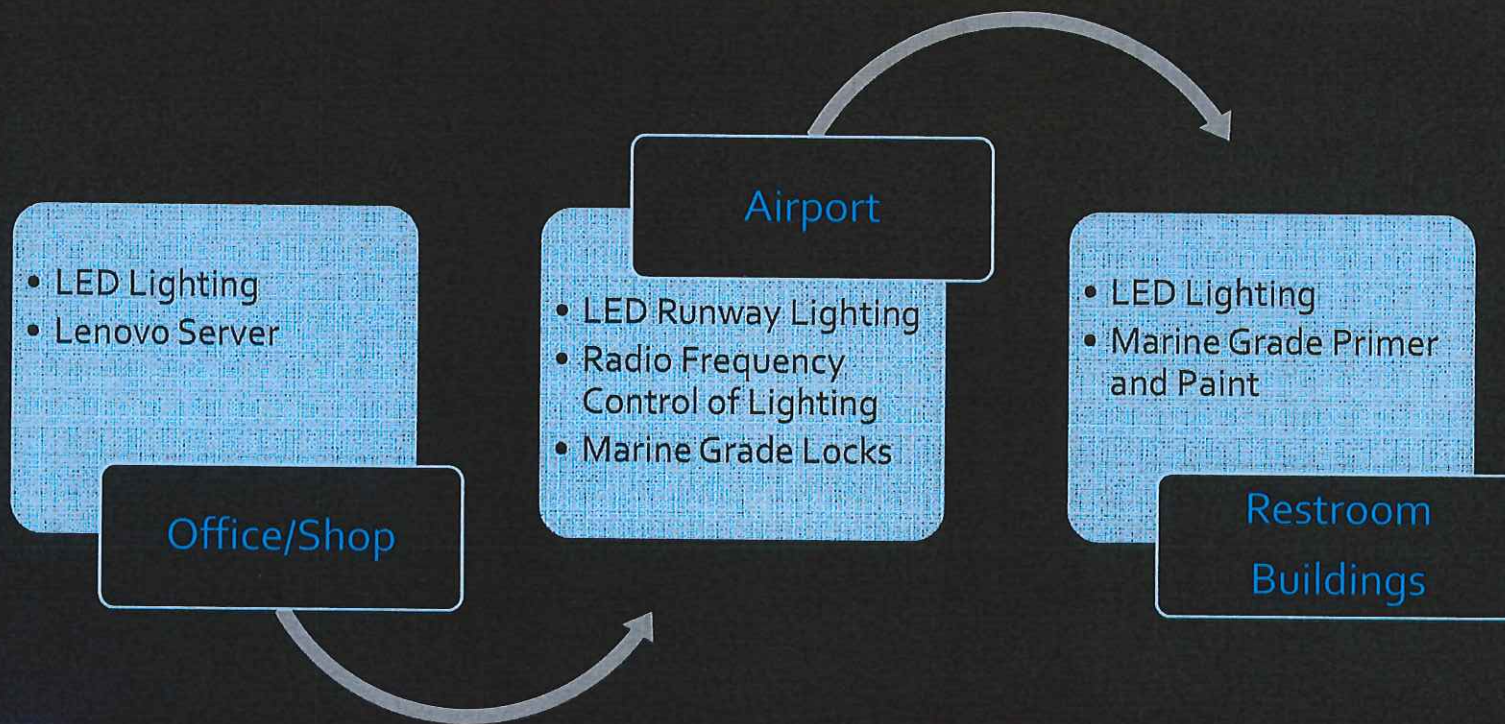
Seaside Public Works – 2016

A year of Technology upgrades



Seaside Public Works – 2016

Technology continues



Oregon Energy Trust

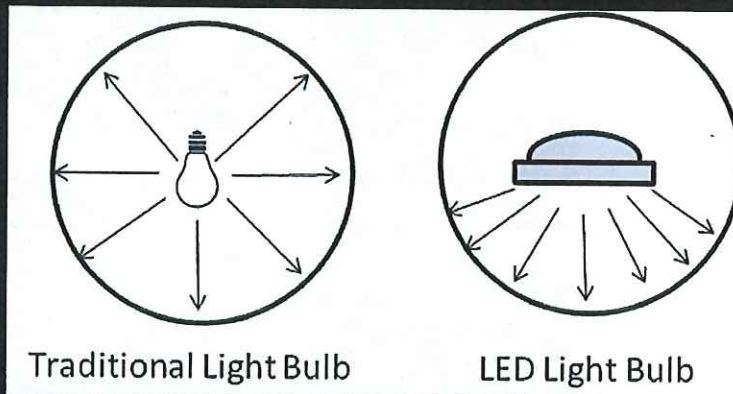
LED LIGHTING REDUCES CO₂ EMISSIONS
50,000 TO 70,000 HOUR LIFESPAN
DARK SKY COMPLIANT – ORDINANCE 2013-05
LABOR REDUCTION
EASE OF DISPOSAL

WHAT DOES "FUTURE-PROOFING" OF LED PRODUCTS MEAN?

LED TECHNOLOGY IS CONSTANTLY CHANGING. RAPID INNOVATION CONTINUES TO IMPROVE THE PERFORMANCE OF LED ON AN ALMOST DAILY BASIS. FUTURE-PROOFING OF LED MODULES ALLOWS LUMINAIRE MANUFACTURERS TO SWITCH FROM ONE GENERATION TO THE NEXT IMPROVED GENERATION WITHOUT MAJOR RETOOLING OR CHANGES IN LUMINAIRE DESIGN, OFFERING BACKWARD COMPATIBILITY WITH DRIVERS.

Lighting

DARK SKY COMPLIANT



LABOR REDUCTION

- Typical incandescent **bulbs** last 1,000 to 2,000 hours. But when speaking about replacement **LED, lamp life** is routinely quoted as 50,000 to 70,000 hours. Long **lamp life**, and the reduced power used to create the same amount of light, is what makes this technology so important.

Public Works COMPUTER SERVER Upgrade (2008)

Compass Lane

Jayson Rogen IT Specialist

High Performance

Massive Storage (Scanning Blueprints)

Remote Access

Energy Star Compliant



Water Department

- Headworks
- 50 million gallon Lake Reservoir
- Treatment Plant Treated an estimated 600,000,000 gallons this year
- 43.4 miles of Pipe
- Storage Tanks – Royal View and Peterson Point
- 7 Pump Stations – 2 have new Metal Roofs
- Average Daily Use 1.8 Million Gallons – Peak Daily Use 3.3 Million Gallons
- Cross Contamination (Backflow Device) Program

Headworks



Reservoir



Water Plant



Water Plant Regulators October 2016

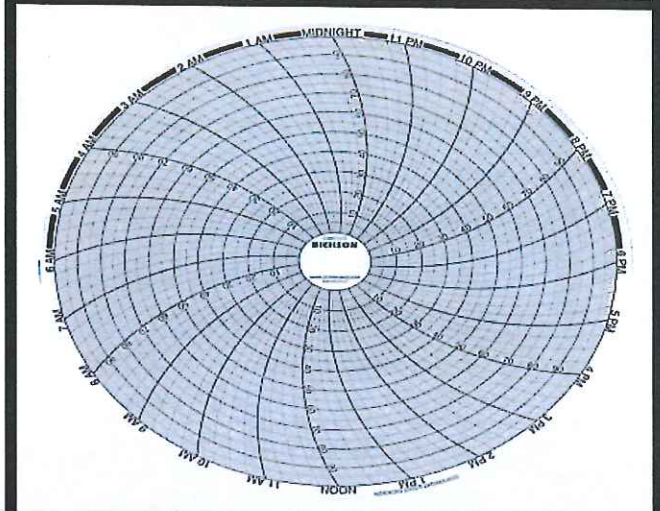
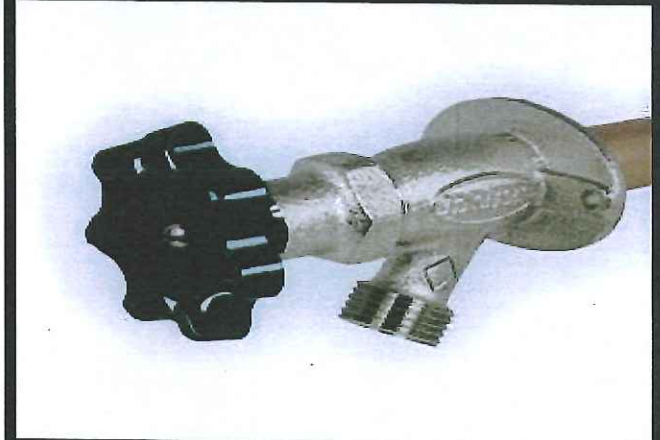
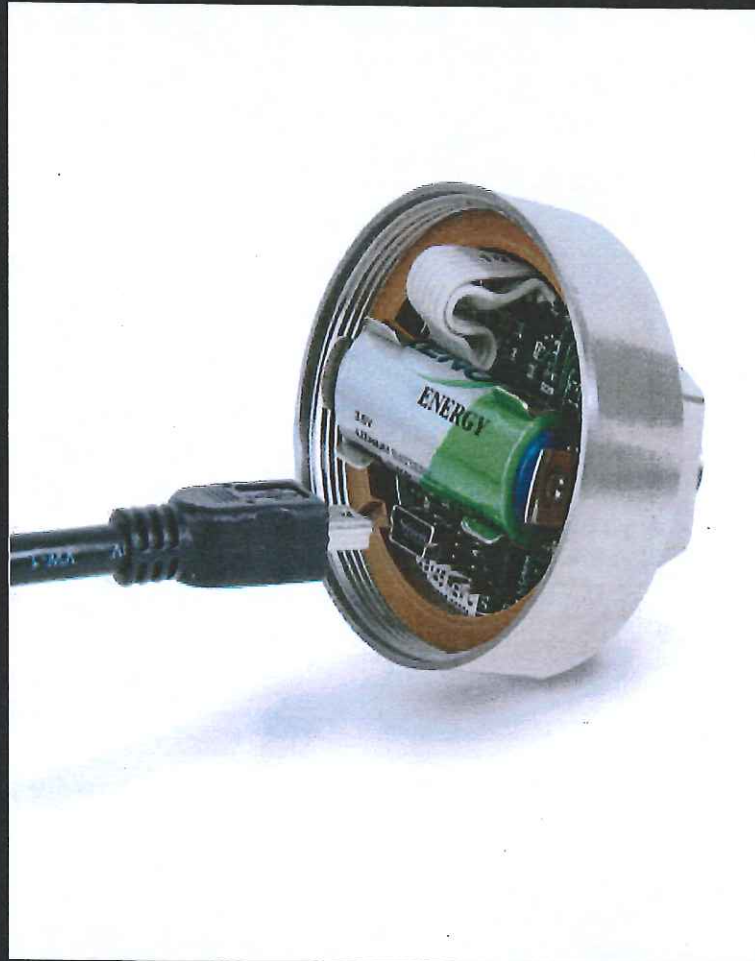
Oregon Health Authority
EPA

5 States represented



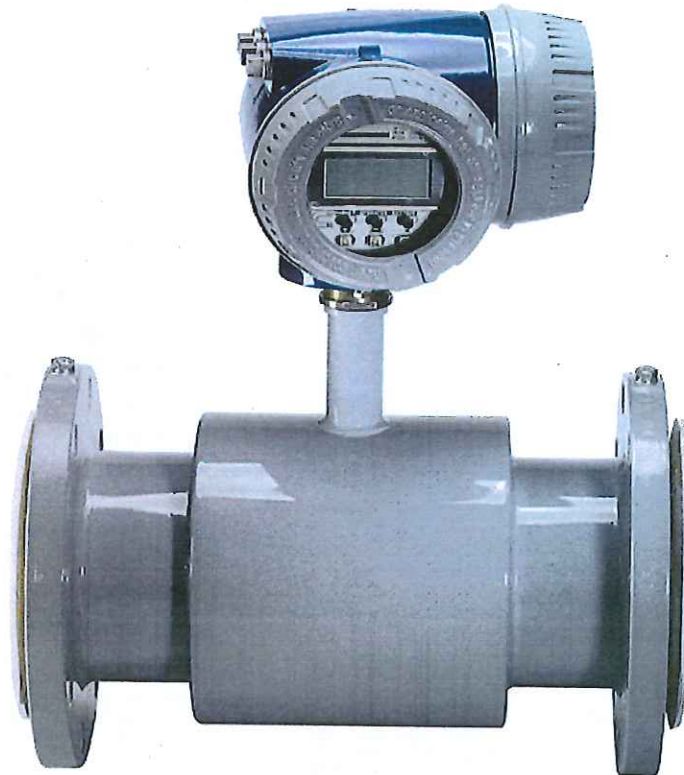
Pressure Logger

Using Technology
We can track High and Low
Water Pressure at your
home.



Emergency Preparedness

Badger Flow Meter
SCADA Controlled
iPhone Controlled
On-site Generator
Multiple road access points



Water Treatment

WATER QUALITY REPORT 2016

THE CITY OF SEASIDE PROVIDES HIGH QUALITY water for you!

The City of Seaside vigilantly safeguards its water supplies in order to continue providing safe drinking water for our residents and add to the vibrancy of our Great City. Once again, we are proud to report that last year, as in years past, your tap water met all U.S. Environmental Protection Agency (EPA) and state drinking water health standards.

Conserving our natural resources will help the health and longevity of our City as well as save you money. Here are some tips to make a difference in your monthly bill and our community:

1. Watch your lawn at the time of watering. Water only when needed.
2. Fix leaks and faucet drips.
3. Take short showers - 5-7 minutes. Showering for 10 to 15 minutes wastes water to the tune of 70 gallons.
4. Don't let the faucet off while brushing your teeth and shampoo. 3-5 gallons go down the drain per minute.
5. Use high efficiency toilets and appliances.
6. Only fill the tub to the water and shower level.
7. Consider a flower waterer for lawns.
8. Switch your lawn mower to electric or gas.

COMMITTED TO WATER SAFETY

The City of Seaside, according to its role, supplies a 100% pure water to its customers. The water is treated to meet the highest standards of safety and health.

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For more information, contact the Water Quality Department at (530) 755-7123 or visit our website at www.seasidecity.org.



WHY PROVIDE A WATER QUALITY REPORT?

The purpose of drinking water is to provide a safe and healthy source of water. The water is treated to meet the highest standards of safety and health. The water is treated to meet the highest standards of safety and health.

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WATER QUALITY RESULTS 2016*

Parameter	Test Type	Test Date	Test Result	Regulatory Limit	Notes
EXISTING CONDITIONS					
Lead	1	10	0.01	0.01	Below MCL
Copper	1	10	0.01	0.01	Below MCL
WATER TREATMENT PLANT					
Chlorine	1	10	1.0	1.0	Within range
Chlorine	1	10	1.0	1.0	Within range
ALL OTHERS					
Lead	1	10	0.01	0.01	Below MCL
Copper	1	10	0.01	0.01	Below MCL
Chlorine	1	10	1.0	1.0	Within range
Chlorine	1	10	1.0	1.0	Within range

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EXISTING CONDITIONS					
Lead	1	10	0.01	0.01	Below MCL
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Chlorine	1	10	1.0	1.0	Within range

WATER FROM THE EPA
The City of Seaside is proud to report that its water quality results for 2016 are in compliance with all federal and state drinking water standards. The water is treated to meet the highest standards of safety and health.

Wastewater Treatment Plant



Sewage Processed 2016 = 4.645 Million Gallons

Influent Flows through the Plant = 606.37 Million Gallons (1.66 Million Gallons Avg/day)

I & I estimated at 204.87 Million Gallons

39 Miles of Pipeline and over 600 Manholes

25 Sewage Pump Stations

Reconstruction of Exhaust Venting Filter System

Class A Biosolids

Class A Biosolids is a designation for dewatered and heated sewage sludge that meets U.S. EPA guidelines for land application with no restrictions.

Thus, **class A biosolids** can be legally used as fertilizer on farms, vegetable gardens, and can be sold to home gardeners as compost or fertilizer.



Sewer Pump Station Generator Plug Project

Agency – DEQ
Emergency Preparedness
Mobile Generators



Seaside Public Works April 10 – 13, 2017

2017 Spring Chapter Conference Public Works...Making A Difference

Conference Keynote Speakers

Tuesday, April 11th

The Keynote Address for the Opening Luncheon will be presented by Captain Bill Fugate, the Chief Information Officer for the Oregon State Police. Captain Fugate will share his experience as a seasoned law enforcement officer with respect to effectively communicating with the public and the media utilizing a variety of tools and techniques.

Wednesday, April 12th, "Are You Ready for the Unexpected: Manzanita's Story"

Dan Wellzel, Manzanita Public Works Director, will provide Wednesday's keynote address. He will give a first-hand encounter of the tornado that tore through the middle of Manzanita on Friday October 14, 2016; destroying between two to three hundred trees and damaging over 200 homes. Dan will discuss the response to the event and the process of recovery and cleanup. He will address the extraordinary efforts from many entities, the financial impact of those efforts, how those efforts went well, and what has been learned for the future. You won't want to miss this riveting keynote address on a local community's triumph after Mother Nature!

Seaside Wastewater Treatment Plant Technical Tour

Join your peers for a tour of the Seaside Wastewater Treatment Plant as you learn about the plant's history and development. The Wastewater Treatment Plant has evolved over the last few years from hauling in tanker trucks that applied raw sludge to forest lands, to applying lime stabilized sludge to the city's 80 acre pastureland, to hauling liquid lime stabilized sludge to Arlington, Oregon's landfill. The City purchased a refurbished Fenton Fenton Dryer and a refurbished Sludge Belt Press in 2012, installed both units in tandem at the new shop building and submitted a Biosolids Plan to DEQ for approval of a Class A Product. Located alongside the Necanicum River Estuary, the Belt Press and Fenton Dryer working together have greatly extended the life of the Wastewater Treatment Plant operation and have reduced our treatment costs substantially.

Two tour opportunities will be available (limited to the first 20 registered for each) on Tuesday, April 11, 2017:

Tour Group 1:

Depart from the Convention Center at 8:00 a.m. and return by 9:15 a.m.

Tour Group 2:

Depart from the Convention Center at 9:30 a.m. and return by 10:45 a.m.

Transportation will be provided; space is limited to 20 people per tour so don't delay...register for the tour today!

Pre-Conference Workshop

Monday, April 10th

Calculating Total Cost of Ownership for Civil Infrastructure Assets

The pre-conference workshop will be presented by Josh Proudfoot on Monday from 1:00-4:30 pm. This special session will cover how to bridge the divide between Capital Projects and Operations and Maintenance and help elected officials allocate our resources wisely. Why is maintenance and operations in a perpetual cycle of unfunded service expectations? Why do political decision-makers approve less expensive project development when it causes more expensive operations? Most of the time the answer is that the total cost of ownership is not visible to the decision makers. This 1/2 day workshop will help you understand how to calculate total cost of ownership (TCO) (commonly referred to as "life-cycle cost"), where you go for the data to support that calculation, and how to present the information at the right time in the right way. We will discuss both the problem, as well as practice calculating the TCO. This workshop is designed for any public works professional that needs to bring better information to the decision makers and public stakeholders.

Seaside Municipal Airport (56S)



LED Runway Lighting
10 year Bulb Warranty
Pilots turn lights on via radio
Intensity feature
Time Delay feature
Labor Reduction
Parts were obsolete

Gate Lock Seaside Municipal Airport

Mechanical Keypad

Marine Grade Service Rating

Reduction in Labor call-outs



Evergreen Cemetery

Chip Sealed Entrances

New Evergreen Cemetery
Permanent Sign (Concrete)

Held first Talking
Tombstones October 2016

275 attendees

New Entrance photo can be
viewed on

www.ancestry.com

www.findagrave.com



Permanent Signage

Public Works Staff



Thermoplastic Pavement Markings

Reduction in VOC'S
(Volatile Organic
Compounds)
Reduction in Labor
Reflective Coating
Life Span 7-10 years



LED Vehicle Lighting

Street Sweeper Retrofit

Adjustable Flash

Reducing Pedestrian and Vehicle
near misses



North Holladay Improvement Project

Completion 2016



Broadway Dog Park

Recycled Materials

Central Location

Thinking outside the box



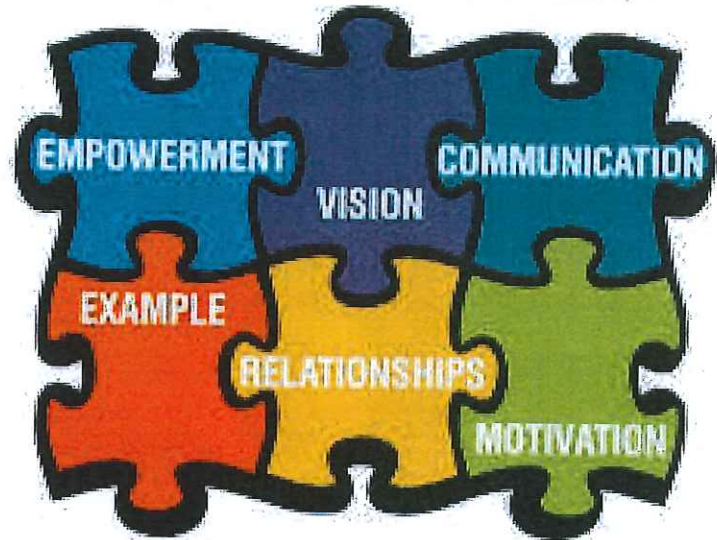
Succession Planning

Cross Training of Employees

In house Training

Continuing Education and
Certifications

Community Involvement



The Leadership Jigsaw

Teamwork

Everyone has an opinion / idea

Everyone has a voice

Listen

Constructive comments

Respect each other

