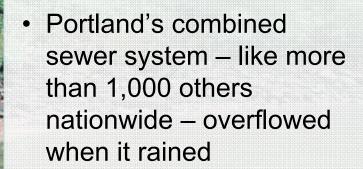


TREATMENT WORKING FOR CLEAN RESIDENCES ERVICES OFFICE OF THE DIRECTOR POLLUTICENVIRONMENTAL SERVICES ERVICE ENGINEERING SERVICES WASTEWATER TREATMENT WATERS ED SERVICES WORKING FOR CLEAN RIVERS ENGINEERING SERVICES OFFICE OF THE DIRECTOR WATERSHED SERVICES POL



### The Willamette was Polluted





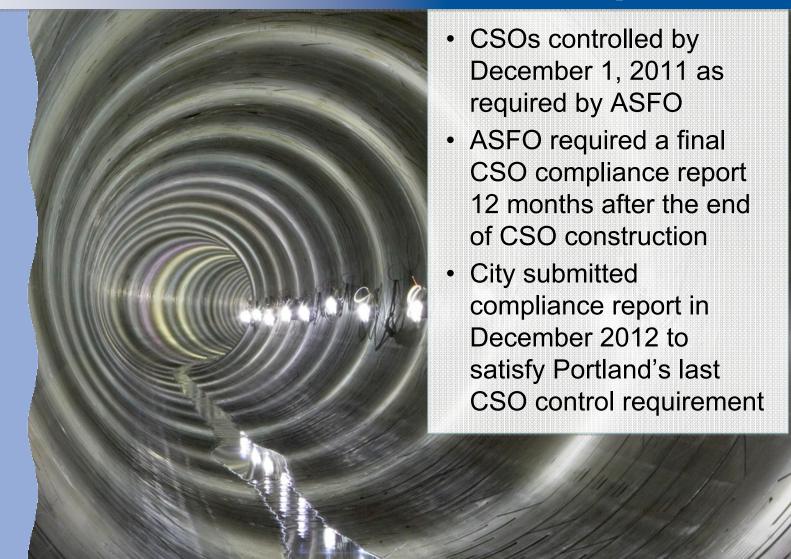
- 1991 City signs
   Stipulation and Final
   Order (SFO) with DEQ to eliminate most CSOs
- 1994 City signs
   Amended Stipulation
   and Final Order (ASFO)
   to reduce Columbia
   Slough CSOs 99%
   and Willamette River
   CSOs 94%



#### **CSO Control Milestones**



# **Final CSO Compliance**



# **System Performance**



- Before the CSO Program average of 50 CSO events per year, average annual CSO volume of 6 billion gallons
- Average annual rainfall is 37 inches – 53 inches fell between 12/01/11 and 11/30/12
- During that time, 7 storms were large enough to cause overflows
- The CSO system
   captured three storms and
   we had 4 CSO events
   that discharged
   497 million gallons



# The Challenge



### So What Does the Future Hold?

