City of Oregon City | Citizen Involvement Committee
October 7, 2019

Water Distribution System Capital Improvement Program Update

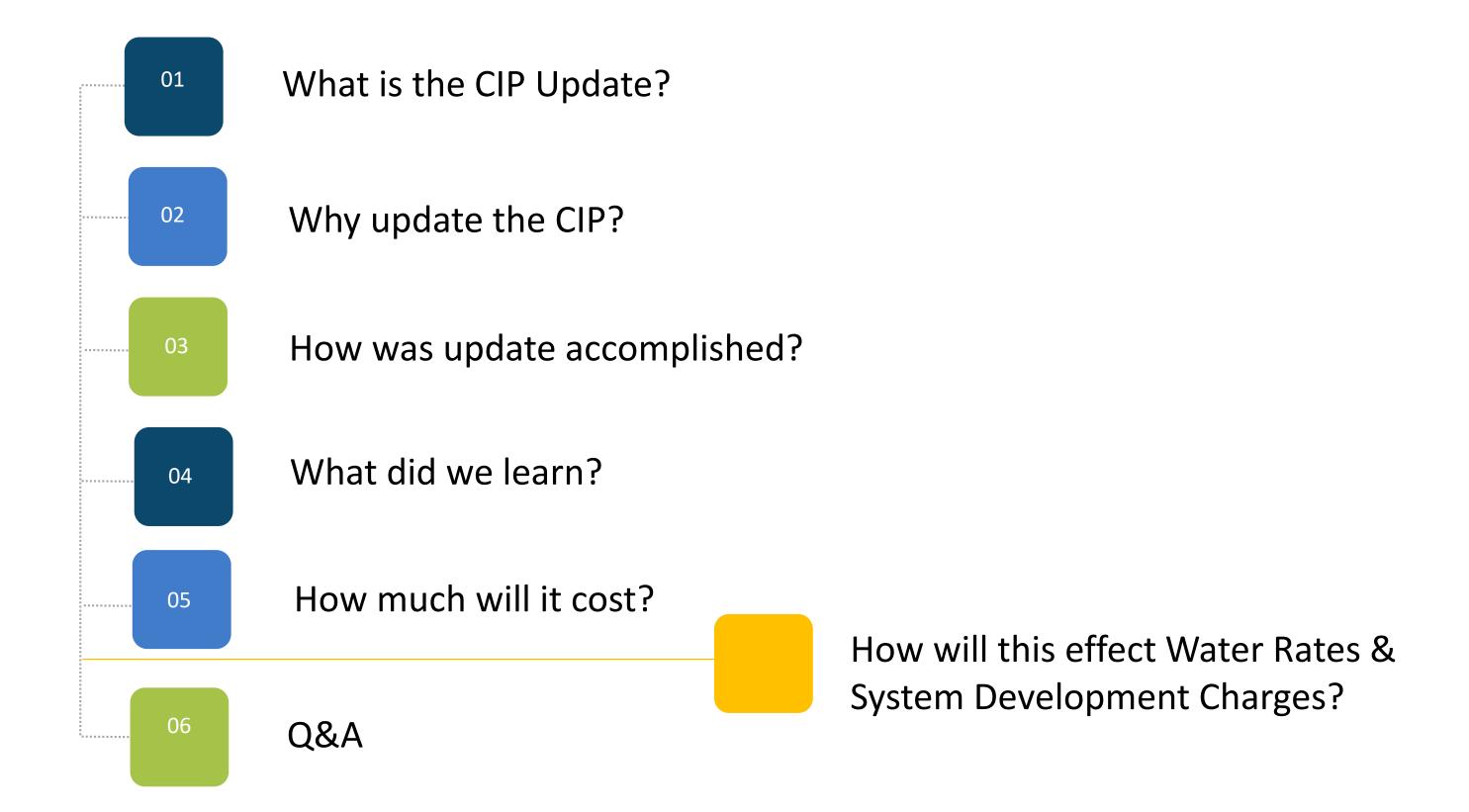
Presented by: John Lewis











- Water Distribution Master Plan (2012)
 - OAR 333-061-0060
 - 20 year-planning horizon
 - City required to maintain a "current" Master Plan
- Master Plan Recommendations
 - 20—year Capital Improvement Plan (CIP)





- Elements of the 2012 Water System Master
 Plan (WSMP) are still valid
- New information and updates:
 - Updated population growth and demand projections
 - Planning for Concept Plan areas
 - Beavercreek Road
 - Park Place
 - South End
 - Observed operational challenges and issues
 - Increased focus on capital maintenance



- New demographic data
 - Clackamas County and City Population Forecast (2016)
 - Recent City water use trends
- Water system hydraulic model
- Existing WSMP
- Engineering and Operations staff
- Related studies
 - Oregon City/CRW Joint Engineering Study
 - Preliminary planning for Mill Redevelopment Area





Capital Maintenance (Renewal & Replacement)

- Reservoir Coatings, Seismic/Safety
- Pump Station Rehabilitation
- PRV Replacement
- Main Replacements





Capacity and Operations

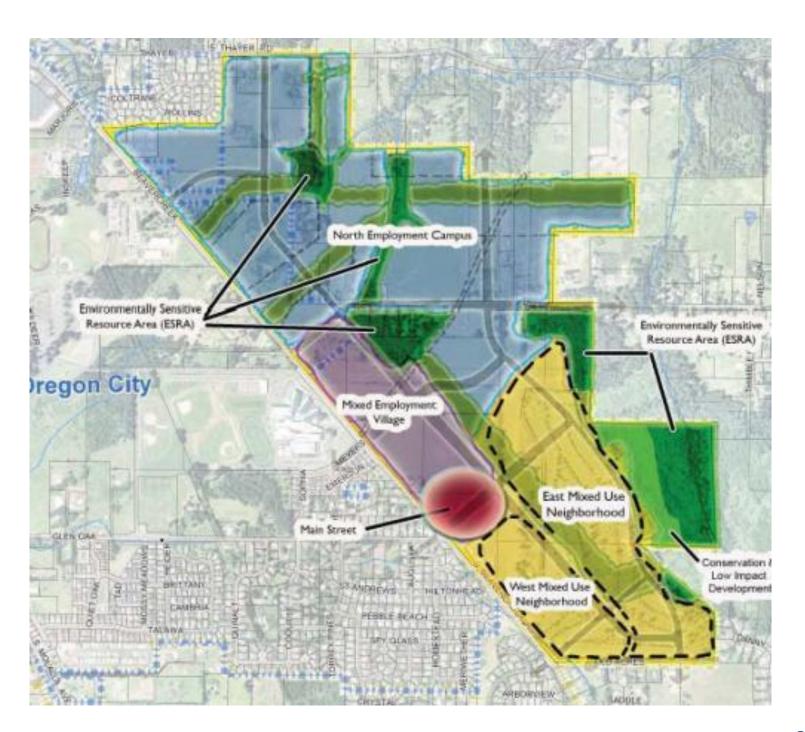
- Molalla Avenue Transmission
- Undersized mains
- Looping
- Pressure Reducing Valves (PRVs)





Future Growth (Concept Plan Areas)

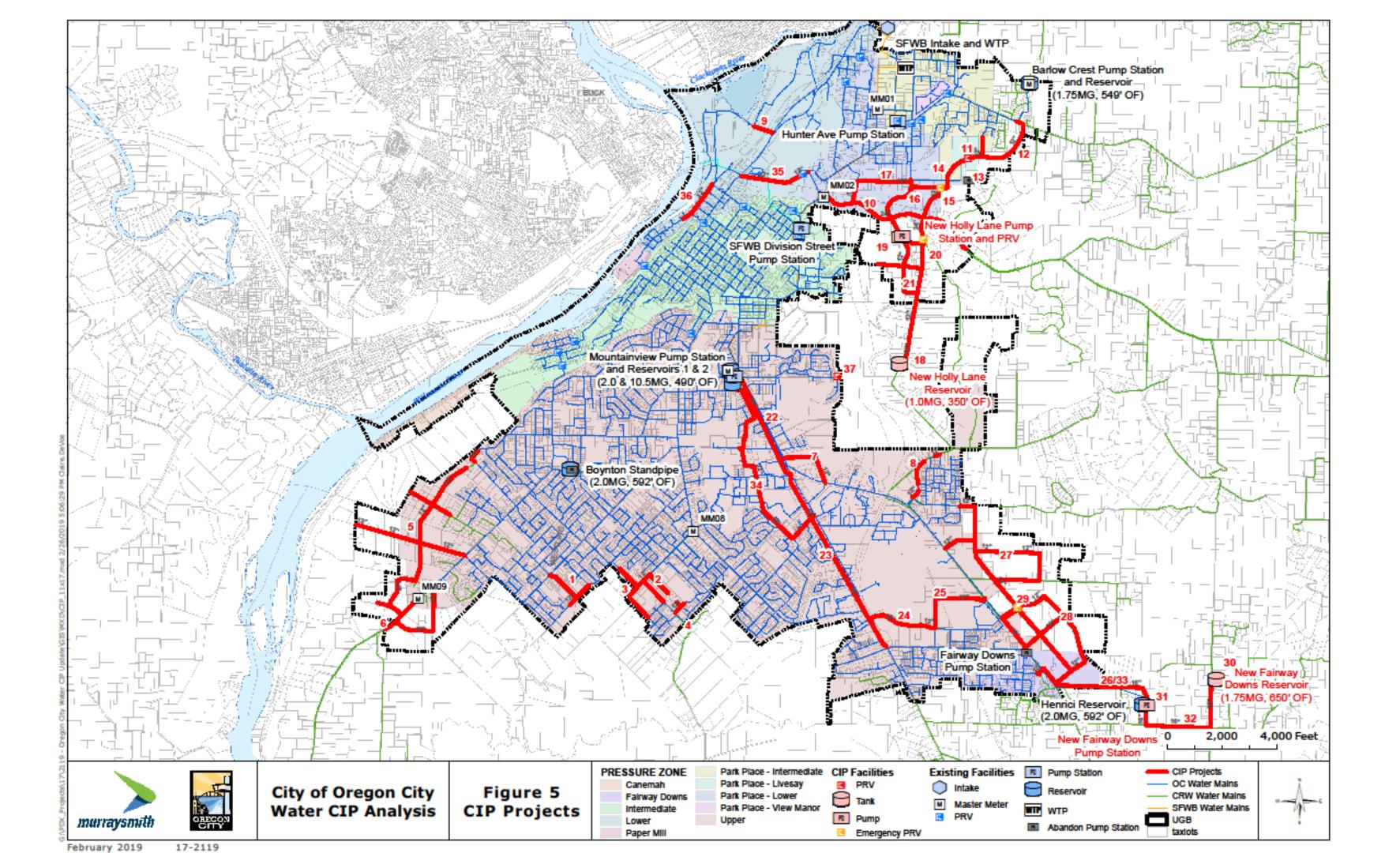
- Storage
- Pumping
- Transmission





Total Water CIP Summary Costs

Year	Capacity & Operations Project Costs	Pipe Replacement Costs	Facility Rehabilitation Costs	Total CIP Project Costs
0 – 5 Years	\$19,134,000	\$7,145,500	\$8,167,000	\$34,446,500
5 – 10 Years	\$4,198,000	\$2,996,500	\$1,390,000	\$8,584,500
10 – 20 Years	\$-	\$8,033,500	\$3,577,000	\$11,610,500
SUBTOTAL	\$23,332,000	\$18,175,500	\$13,134,000	\$54,641,500
Time Based on Development	\$25,522,500	\$-	\$100,000	\$25,622,500
TOTAL	\$48,854,500	\$18,175,500	\$13,234,000	\$80,264,000



Water Rates

- Key assumptions
- Capital needs forecast
- Revenue requirement

System Development Charge

- Methodology
- Growth forecast
- Reimbursement fee calculation
- Improvement fee calculation





Annual Cost Inflation

Salaries: 2.0%

Benefits: 5.0%

Other Operating Costs: 2.21%

Construction Costs: 3.0%

Annual Growth Rate

Customer Account Growth: 1.5%

SDC revenue based on current charges

Operating Forecast

- Rate revenue based on FY19 budget
- Operating costs and non-rate revenues based on FY 2021 Budget
 - Adjusted for inflation in future years

Debt Issuance

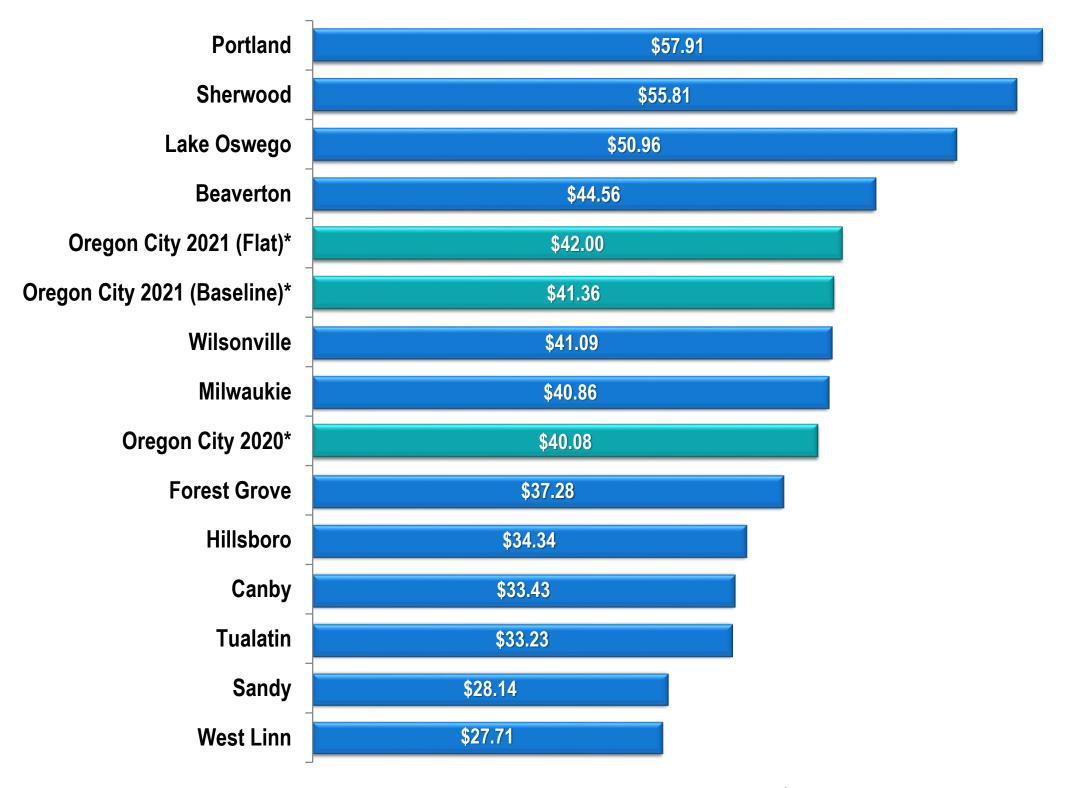
Interest Rate: 5.0%

Repayment Term: 20 Years

Issuance Costs: 1.0% of Amount Issued



Monthly Bill Comparison – 5/8 x 3/4" Residential, 8 ccf



^{*}Includes South Fork Water Board Treatment Rate w/ assumed 4.0% Rate Increases

The SDC Calculation

Reimbursement Fee

Eligible value of unused capacity in existing facilities



Growth in system demand

Improvement Fee

Eligible cost of planned capacity increasing facilities



Growth in system demand

System
Development
Charge



per unit of demand





Regional SDC Comparison – Single Family



^{*}Includes South Fork Water Board SDC of \$2,238

Rates

- Public Outreach City Commission Goal 5
- Planning Commission Public Hearing CIP Update Adoption
- City Commission Public Hearing #1 Water Rate adoption by Ordinance; City
 Commission guidance on possible Charter changes
- City Commission Public Hearing #2 Assuming rate increase above 3% the City Commission adopts Resolution to move forward with a Public Vote for Charter amendment.
- April 2020

SDC's

- Set date for a public hearing at least 90 days in advance.
- Provide statutory notice at least 90 days in advance of public hearing.
- Make report available to public during last 60 days of notice period.
- City council can receive information about and discuss SDCs before scheduled public hearing, but no action (vote) can be taken.



Q&A