

SE BEND SEPTIC TO SEWER
ADVISORY COMMITTEE MEETING

THURSDAY, SEPTEMBER 7, 2017

CITY OF BEND 1

# WELCOME & INTRODUCTIONS

CITY OF BEND |

2



- Solutions in Peer Communities: Expert Panel
- Report on Initial Public Outreach
  - Door-to-Door Canvass
  - Focus Groups
- Committee Q&A
- Look Ahead: Preliminary Engineering I
- Public Comment

CITY OF BEND | 3

# PEER COMMUNITIES (



Shawn Koorn Spokane County, WA

**HDR** Engineering

Mid-Multnomah County (Portland) Dan Vizzini

Wenatchee, WA Gordon Wilson

**FCS Group** 

# SEPTIC-TO-SEWER LESSONS LEARNED



- Conversion can be successfully implemented
- A variety of approaches can work
- Sewers and treatment capacity must be available
- It takes time to develop and implement successful programs
- Successful programs begin with proactive extension of sewer lines into target areas

CITY OF BEND | 5



# CASE STUDY: SPOKANE COUNTY, WA **SEPTIC TANK ELIMINATION PROGRAM**



#### **OVERVIEW OF SPOKANE COUNTY PROGRAM**



Program driver: protection of the sole source aquifer

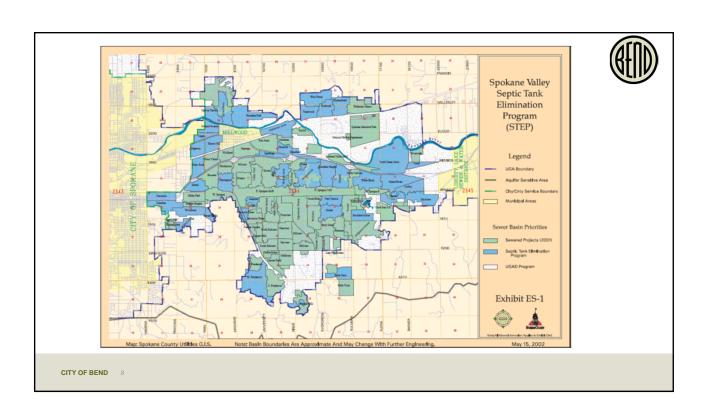
#### Began extending sewers in 1984

- Provided service to 10,750 customers by 1996
- Funded by 24 Utility Local Improvement Districts (ULIDs) with County participation
- Unable to extend sewers throughout the priority area

#### 1996 plan included more unsewered areas to meet State Health concerns

- Moved away from ULIDs to County revenue bond funding
- · Process streamlined
- Funded through rates and capital facilities rates with limited County participation
- 9,350 more customers sewered by 2001





#### **OVERVIEW OF SPOKANE COUNTY PROGRAM**



#### 2001 planning brought more changes

- · Final plan to complete the STEP
- · Maintained County long-term debt funding
- Initiated connection fees with limited County participation
- Goal: connect the remaining 18,500 customers by 2015

#### 2014 - program changed again

- · Almost complete: connecting customers in the STEP area
- Simplified connection fees



CITY OF BEND 9

# SPOKANE COUNTY STEP FUNDING APPROACH



#### STEP program financing based on:

- 1. General Facilities Charge (GFC)
  - Proportional share of wastewater treatment facilities, interceptors, and pump stations
  - · Customers eliminating septic systems receive subsidy in form of GFC credit
- 2. Capital Facilities Rate (CFR): construction cost of local sewer pipeline
- 3. Special Connection Charge (SCC): construction costs of pipeline outside of area (developer credits apply)
- 4. Trunk Charge: for sewer trunk extensions into undeveloped areas







STEP connection charges vary by location and funding approach

- Inside vs. outside STEP area
- ULID vs. no ULID
- County vs. developer funded

#### **Customer options**

- · Pay in full at connection
- Finance over 20 years, with interest
- Pay over 2 years, without interest
- Connection timelines/funding set to sunset

Upon STEP completion (2015) County converted connection fees to GFC and Uniform Collection charges

Area/Funding	Connection Charges
STEP Area w/ULID	GFCs
STEP Area w/o ULID	GFC + CFR
Outside STEP Area and Sewered	GFC + SCC
Outside STEP Area and Unsewered	GFC + TC



CITY OF BEND 11

SPOKANE COUNTY STEP SUMMARY



#### Plan evolved over time

- · County funding participation
- Funding approach
- Incentives for sewer connections

Fee structure provided ways to fund improvements for various customers

Financing incentives (0% for 2 years, and 20-year option) lessened customer impacts





#### CASE STUDY: MULTNOMAH COUNTY (PORTLAND), OR



CITY OF BEND 13

#### **MID-COUNTY - 1985**



#### **Demographics**

- 22,300 acres (including areas to be served by Portland and Gresham)
- A fully developed (unincorporated) "city": homes, schools, shopping centers, hospitals
- 65,000 households and more than 166,000 residents
- Predominately middle class; 65% of households with incomes between \$13,600 and \$54,400 (1980 dollars); Median income (\$23,000) close to countywide average
- Average single family home 20-30 years old, valued at \$58,550; 60% are owner-occupied.
- Average residential lots exceed 7,000 square feet



#### **MID-COUNTY - 1985**



#### **Environment**

- Geology: thick layers of porous gravel (90 to 600 feet deep); drains rapidly
- Nine public water systems (including Portland's supplemental source) draw drinking water from the aquifers
- 14 million gallons of sewage discharged daily into the ground 87% of the total for Mid-County; sanitary sewer systems (Portland, Gresham, Multnomah County) serve 13% of the total
- Wells tested in Mid-County show increased nitrate contamination
- Portland and Gresham have excess treatment capacity to serve the area



CITY OF BEND

#### PRELUDE TO MANDATORY SEWER CONSTRUCTION

and the factor and the factor of the first Car Milaton



1971-1974	Oregon DEQ o	onaucts grouna v	water studies in iviid-C	ounty
-----------	--------------	------------------	--------------------------	-------

1978-1982 Environmental Quality Commission adopts rules to prohibit on-site disposal for new development in unsewered areas

1982-1986 Local jurisdictions form Consortium to plan for sewers. The EQC reviews their plan for voluntary sewers and directs the Consortium to modify the plan to make it mandatory.

1986 -1987 Multnomah County/Portland/Gresham adopt the Mid-Multnomah County Sewer Implementation Plan, with citizen input. EQC issues Order

directing Portland and Gresham to carry out the sewer plan. Portland and Gresham develop Sewer Safety Net programs to assist low-income property owners.



#### SAFETY NET PROGRAM



1987 Oregon Legislature authorized and funded Portland's Sewer Safety Net Program:

- Portland's Citizens Sewer Advisory Board (CSAB) given a formal role to advise/guide safety net program implementation
- Non-construction project costs limited to 20%
- Residents granted one-time \$500 income tax credit
- DEQ provided low-interest long-term financing for sewer assessment loans, and assessment deferrals.



CITY OF BEND 17

# | Project No. |

#### 1992 - A MAJOR RESET



#### Precipitated by grassroots citizen campaign

Leveraged Portland mayoral election to win substantive policy changes and financial concessions

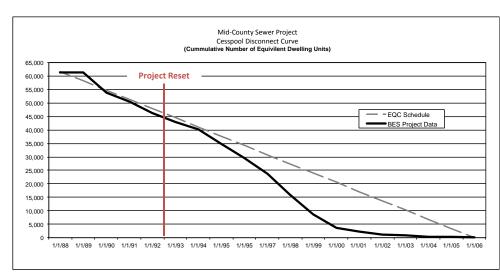
Reset transformed every aspect of the project:

- Transitioned from LID-based strategy to City-financed CIP program.
- Project construction schedule accelerated to take advantage of bidding climate and scale economies
- Property owner financing accelerated, with price guarantees and assessment discounts (typically 40%-50%)
- Safety Net program expanded to include additional financing tools for large lots and private plumbing charges

CITY OF BEND 19

#### RESET ACCELERATED CONSTRUCTION AND CONNECTIONS





#### MID-MULTNOMAH COUNTY SEWER PROJECT - PORTLAND COMPONENTS



#### **Project Characteristics**

- Project Area 28 Square Miles
- Number of Properties 55,223
- Developed Properties 50,110

#### **Construction Characteristics**

- Sewer Collectors 394 Miles of Pipe
- Sewer Interceptors 16
- Pump Stations 6
- Construction Packages 41
- Prime Contractors 29

#### **Project Costs**

- Total Construction Costs \$255 Million
- Federal Grant Contributions \$26 Million



CITY OF BEND 21

#### FINANCIAL IMPACTS ON RESIDENTIAL PROPERTY OWNERS





- Average Sewer Cost per Single Family Residence \$4,100
- Average Cost of Private Sewer Connections \$1,500 to \$2,500
- Safety Net Loans 1,585 totaling \$4.4 Million
- Private Plumbing Loans 393 totaling \$789,804
- Sewer Connection Deferrals Granted 3,153



#### PROGRAM ACCOMPLISHMENTS



Project completed six years early and 16% under budget, fully sewering every neighborhood and sub-basin.

Halted environmental degradation of the groundwater aquifer (a critical drinking water source) and protected adjacent streams.

Installed stormwater drainage systems in areas not previously sewered.

Utilized many local contractors – 29 prime contractors and 120 private sewer connection contractors.

Placed a high importance on community relations from the earliest stages of the project, training all project staff in customer service.

Achieved a near-perfect safety record.

Significantly increased property values.

Accommodated a 30% population increase to more than 170,000 today (in Portland's neighborhoods.



CITY OF BEND 23



#### CASE STUDY: CITY OF WENATCHEE, WA





- Population 34,000 in central Washington
- "Strong Mayor" form of government
- Currently has some of the state's lowest sewer rates, thanks to a large industrial base
  - \$29.50 per month residential (2017)
- Adequate wastewater treatment capacity (with \$11 million planned improvements over next 20 years)
- Major issue: unsewered areas next to City constricts future growth

CITY OF BEND | 25

# Sunnyslope – large Urban Growth Area (UGA) north of city

- · Large: 20% of the acreage of the City
- · Growing mostly single-family residential
  - 1,200 existing septic systems
  - · Lack of sewer service limits density potential
  - Sewers would allow 3,500 more Equivalent Residential Units (ERUs)

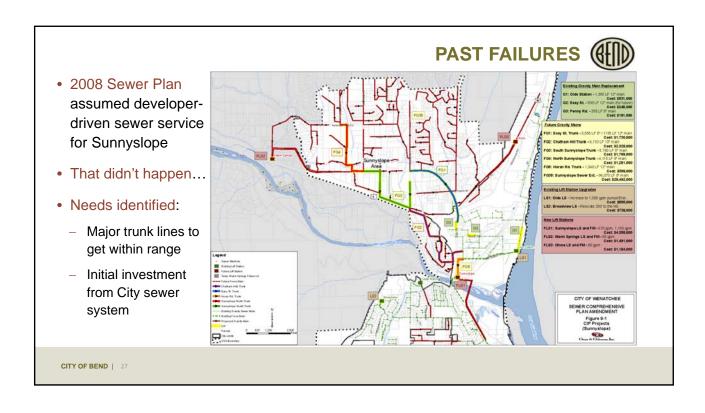
#### 28 smaller "infill areas"

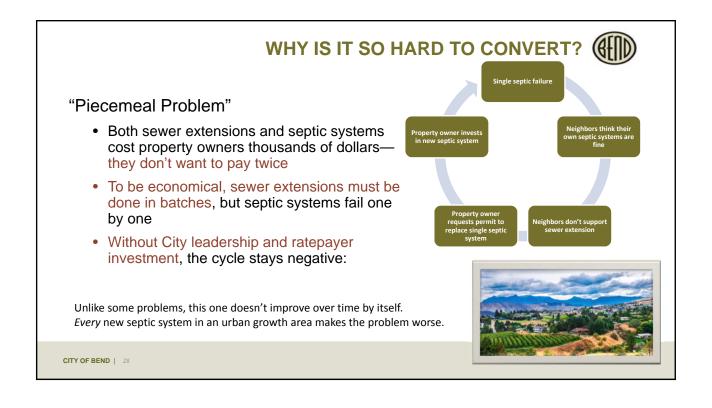
- · Unserved islands are unincorporated
- 400 septic systems (potential for 960 ERUs including new development)
- · Consent to annex is a condition of sewers

UNSEWERED AREAS

ONLY

O





#### ADOPTED SEWER EXTENSION PROGRAM



Wenatchee Sewer Extension Program relies on both <u>ratepayers</u> and <u>property owners</u> for funding.

- Ratepayers will see an extra 3% per year rate increase over the next six years
  - \$41.84/month instead of \$35.22 by 2022 \$6.62 per month higher
  - Ratepayer contribution funds:

Initial capital investment

Timing risk with new connections

Program administration costs



CITY OF BEND | 29

#### **PROPERTY OWNER COSTS**



#### Property owners will still bear the primary cost burden

- New citywide Local Facilities Charge (LFC) of \$6,140, takes place of LIDs or earlier front-footage charges (except where sewers are built by developer)
- New Sunnyslope Area Fee \$3,810 if in Sunnyslope
- Existing System Investment Fee increased from \$570 to \$1,500 (could have been \$3,710)

Property owners will have some control over timing and can get some help with up-front charges

- They can choose to wait until septic system fails
- But those who connect within 2 years of sewer availability receive 30% discount on LFC and Sunnyslope Area Fee

# Up-front charges total \$11,000 in infill areas, \$13,700 in Sunnyslope

- A Sunnyslope property owner who finances up-front charges as part of 30-year mortgage at 6% will pay \$82/month
- With added sewer rates, monthly costs would increase by \$113/month (minus septic system costs)



#### CHANGES TO PROGRAM DESIGN (HID)



City Council took action to "balance the pain" between property owners and ratepayers:

- Adopted 6% limit on annual sewer rate increases
- Dropped 15-year time limit for connection, but reduced 50% hookup discount to 30%
- Dropped requirement to connect upon sale of property
- Added Sunnyslope Area Charge: \$3,810 for Sunnyslope properties
- Reduced System Investment Fee to \$1,500 from recommended \$3,710
- Rejected inflation based schedule for development charges in favor of 1% annual increases

Regulations for new development still being negotiated with the County



CITY OF BEND | 31

#### CURRENT STATUS (



- Sewer extension program approved by City Council in June 2017, along with new Sewer Plan and five-year rate schedule
- Program developed over the previous 14 months, including four briefings to City Council
- All citizens who addressed the Council meeting in June were in favor of the plan.
- City now issuing Requests for Proposals for design of capital projects.



## SEPTIC-TO-SEWER SUCCESS FACTORS (



- ✓ Policy commitment to take action: to protect public health, environment, economy, quality of life
- ✓ Regulatory pressure (mandate) combined with incentives to connect
- √ Multiple funding strategies/options include system-wide investment
- ✓ Implementation planned in stages
- ✓ Branded program with effective public engagement
- √ Partnerships with local state federal agencies
- ✓ Program changes increase success rate

CITY OF BEND | 33



#### **OTHER COMMUNITIES**

- Redmond
- Sisters
- Madras
- La Pine
- Tigard

# **COMMITTEE Q&A**

CITY OF BEND |

3





- Overview
- Demographics
- Contrast
- Communication recommendation
- Summary

# FIELD OUTREACH - OVERVIEW



- Current Outreach Area
- Visits
  - Up to 3 attempts
  - 508 residences

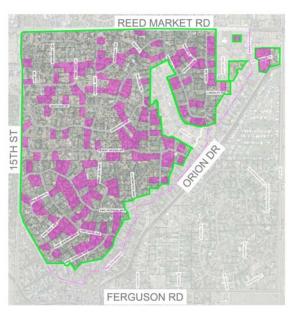
REED MARKET RD FERGUSON RD

CITY OF BEND | 37

## FIELD OUTREACH - OVERVIEW



- 168 Responses (33%)
  - In-person
  - Mailer
  - Online survey



#### FIELD OUTREACH - DEMOGRAPHICS





- Demographics
- Who we met
  - Long-time residents ←→ newcomers

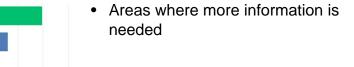
CITY OF BEND | 39

Cost to

Construction timing and...

#### FIELD OUTREACH - QUESTIONS





Effect on property values Sewer construction Other (please specify)

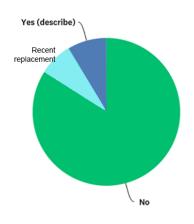
#### FIELD OUTREACH - CONTRASTING STORIES



"We don't want it. We don't need it"

"We need it now – when will it be here??"

Are you currently experiencing problems with your septic system?



CITY OF BEND | 41

#### FIELD OUTREACH - CONTRASTING STORIES



Line Recently Installed Torn Income Noise Timeline LID
Owners Disabled Pumped Sand Filter
Cost to Homeowners City Limits Septic

Steel Tank Replaced Sewer Property Values

Hook Up Bought Pay 12K Street Access System Works Happen Road Price

#### FIELD OUTREACH - RECOMMENDATIONS



Plan community Fair Up-to-date Hook Phone Pay Struggle
Construction Trust Communication
Reed Market Sewer Income Cost Traffic Flow
Home Owner Nice Neighborhood Notice
Septic Systems Support Street Problem Ago Orion
Optional

CITY OF BEND | 43

#### FIELD OUTREACH - RECOMMENDATIONS



- Multiple modes
  - Quarterly newsletter
    - Website
    - Meetings
- Consistent purposeful outreach

#### FIELD OUTREACH - SUMMARY



• Spectrum of concerns:

COST COST Us to hookup

CITY OF BEND | 45

#### **FOCUS GROUPS - AUGUST 12, 2017**



- "Qualitative" research to explore solutions for SE sewers
- Two groups:

#1 – Kings Forest property owners (9)

#2 – Kings Forest (4) plus citywide sewer customers (4)

Written exercises followed by discussion



#### **FOCUS GROUP HIGHLIGHTS**



- 1. There is a general understanding and reluctant acceptance the area will be sewered.
  - "I understand it's coming, so somehow we need to find a solution."
- 2. The shared conclusion is the price tag will be unaffordable (\$40k-\$90k).
- 3. Participants report **good experiences with septic systems**.
  - A few acknowledge septic systems don't last forever and they worry about the eventual failure:
     "When septic systems fa
    - "When septic systems fail, they don't fail over time – it's all at once."



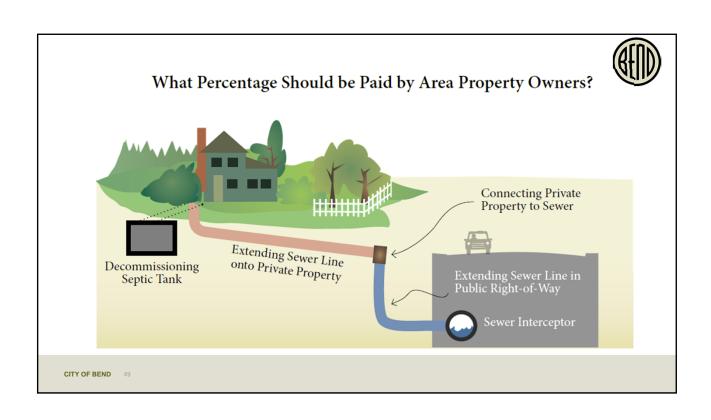
CITY OF BEND 47

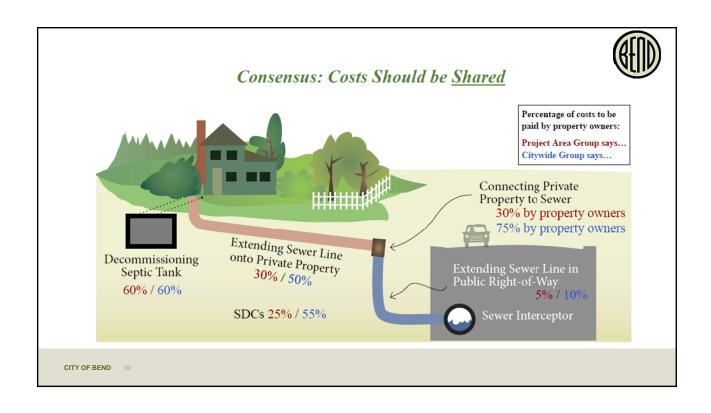
#### **FOCUS GROUP HIGHLIGHTS**



- 4. A deeply held suspicion: the City has a plan but hasn't announced it.
  - Some think the City appears to be withholding information.
  - Longtime area residents recall being offered sewer service as part of Bend's annexation package.
- 5. All agree the City and homeowners should share the costs of installing sewers.
  - "All the people in Bend should help pay."
- 6. Citywide sewer customers are willing to contribute to solving this community-wide problem.







#### **FOCUS GROUP HIGHLIGHTS**



- 7. Giving homeowners a way to pay their share over time is much more acceptable
  - \$100 per month over many years, or paying off the whole thing when the house is sold.
- 8. Homeowners prefer options that give them choice: on financing methods, timing to hook-up, homeowner contractor selection, and where the connection to their property is situated.



CITY OF BEND 51

#### **FOCUS GROUP HIGHLIGHTS**



- 9. People are split on "go it alone" versus an "areawide" approach, both scenarios have some appeal.
  - "Why should you replace something that works?" (favors Scenario 1)
  - "I'd like more control. I'm getting stressed by it." (favors Scenario 2)
  - "One-time construction is going to be less expensive." (favors Scenario 2)

#### **FOCUS GROUP HIGHLIGHTS**



- 10. Concerns about construction impacts are limited to the loss of shrubs and trees.
  - The recent sewer work in Kings Forest was well managed by the contractor and neighbors experienced few/no problems.
- 11. An unanticipated benefit for hooking up to sewer is gaining the full use of their property.



CITY OF BEND 53

ADVISORY COMMITTEE PRELIMINARY VALUES (6/20/17)



- Timely solutions (finished within 10 years)
- Solutions property owners understand and support
- Durable solutions: good for 50-100 years
- Equitable, fair, affordable
- Financially feasible
- Shared responsibility
- Reasonable, practical
- Replicable

# ADVISORY COMMITTEE PRELIMINARY VALUES CONFIRMED



- √ Timely solutions (finished within 10 years)
- ✓ Solutions property owners understand and support
- Durable solutions: good for 50-100 years
- ✓ Equitable, fair, affordable
- √ Financially feasible
- √ Shared responsibility
- ✓ Reasonable, practical
- Replicable

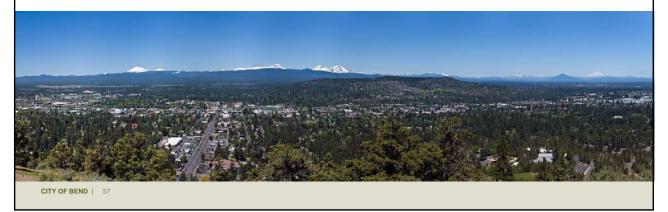
CITY OF BEND | 55

# **COMMITTEE Q&A**

#### **PUBLIC COMMENT**



- 5 minutes
- Time divided among speakers
- Comment cards available



# UPCOMING ADVISORY COMMITTEE MEETINGS



#### **Thursday, October 5**

Preliminary Engineering I

#### **Thursday, November 2**

Four Ingredients of Affordability Interim Policies

