# working for clean rivers





### Council Item 535

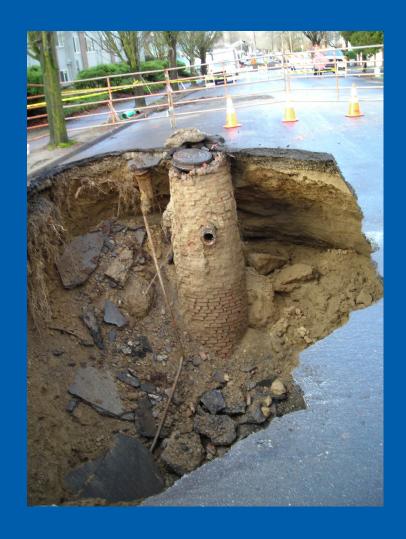
Authorize a contract and provide for payment for the construction of the Eastmoreland-Woodstock Sewer Rehabilitation Project No. E10269 for \$12,000,000 (Ordinance)





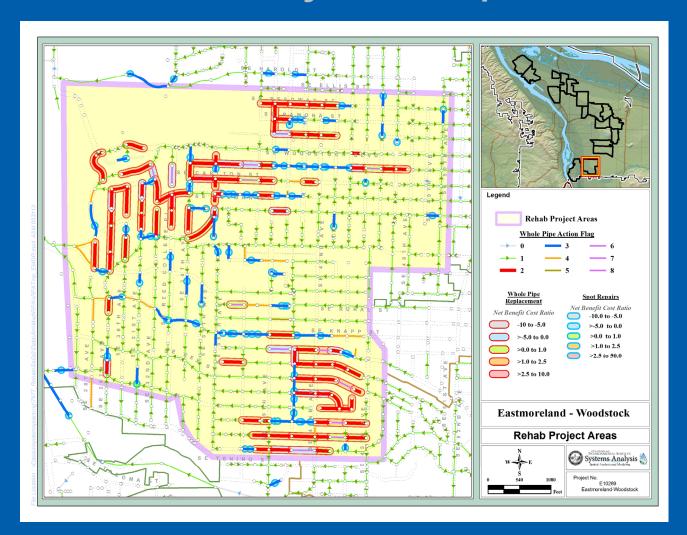
### Eastmoreland Woodstock

- 40,000 Feet of Sewer Rehab
- 129 Manholes
- 700 House
  Branches
- 72 City Blocks
  Impacted
- \$12 Million





# **Project Map**





# Pipe Failures In E-W



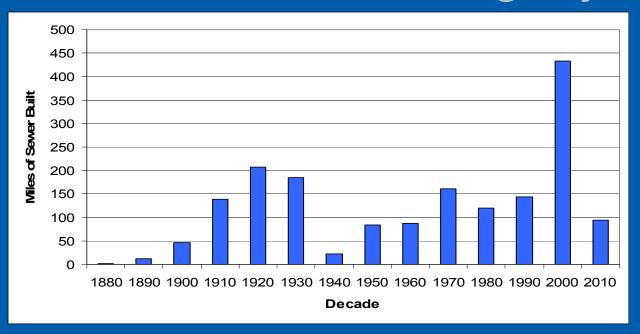








# **Sewer Installation Legacy**



- First sewer installed in 1864 for \$1,000
- \$6.5 billion replacement value of the collections system
- 9.6 million feet of mainline pipe



#### Risk Based Rehab

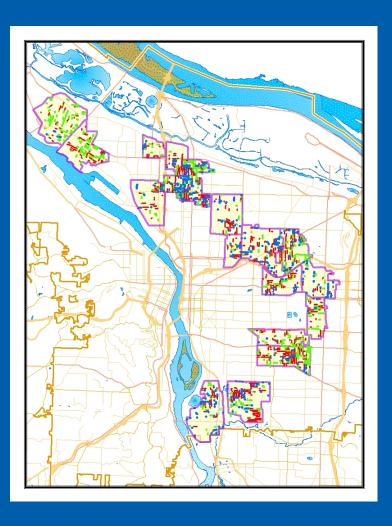
- Risk Matrix: simple illustration of relative ranking of asset risk
- Reflects Consequence and Likelihood
- Focus on critical projects

**Project** 

Relative Risk Rating Matrix					
, <u> </u>	Consequence (Of Failure)				
(Failure)	1	2	3	4	5
Likelihood	Insignificant	Minor	Moderate	Major	Catastrophic
5 Almost Certain	М	Н	Н		
4 Likely	М	M	Н	Н	E
3 Moderate	L	М	Н	Н	Н
2 Unlikely	L	L	М	M	Н
1 Rare	L	L	М	M	Н



# Phase II Rehab Program



- \$130 million program
- Started in 2011
- 4 Projects in construction
- 8 Projects in design
- 19 Projects
  Total



## Questions?



