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# Sunnyside East Sewer Reconstruction and Green Streets

(BES Project Number E10370)

Agenda Item #932

Scott Gibson, P.E. | Principal Engineer | Bureau of Environmental Services  
Ruben Gonzalez, P.E. | Design Engineer | Bureau of Environmental Services

August 23, 2017

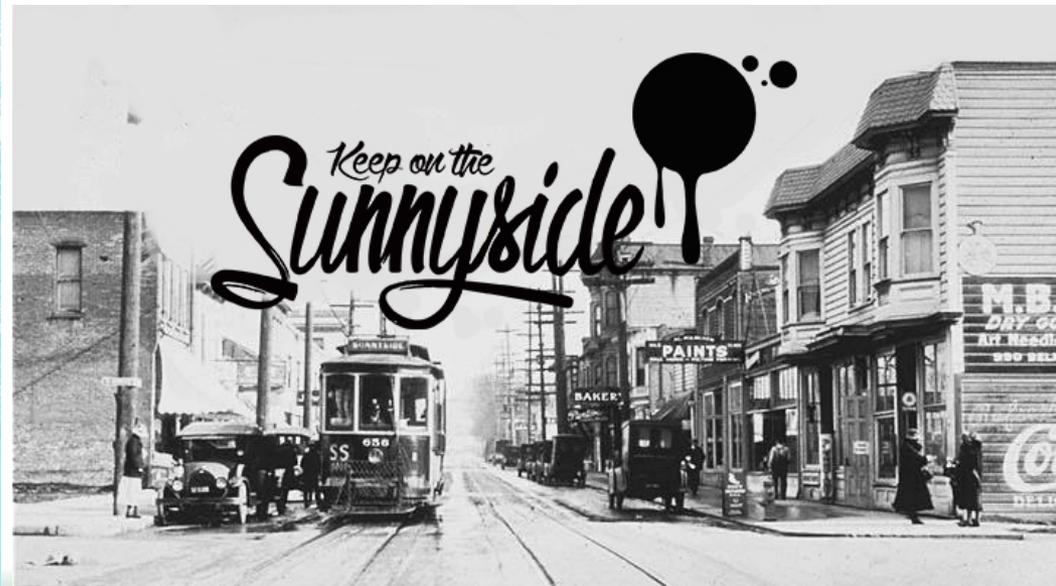
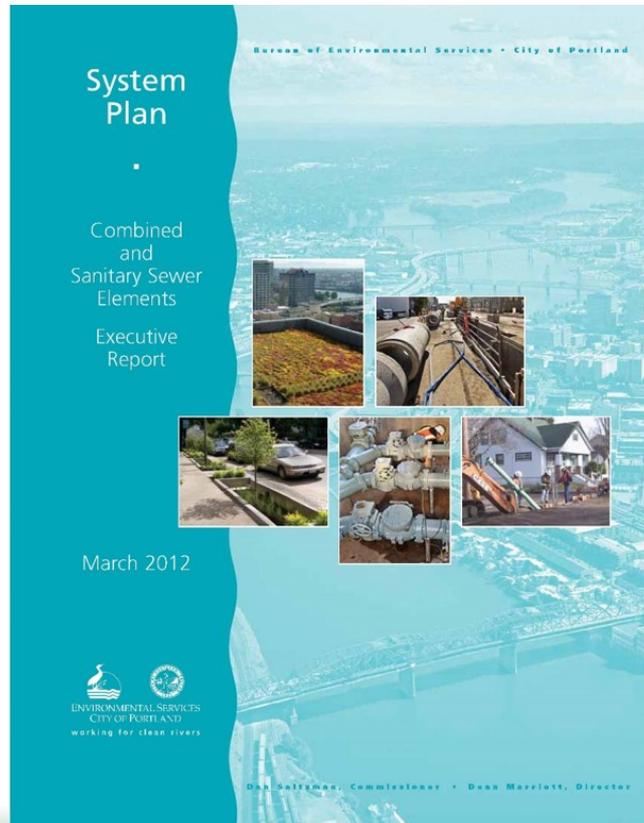


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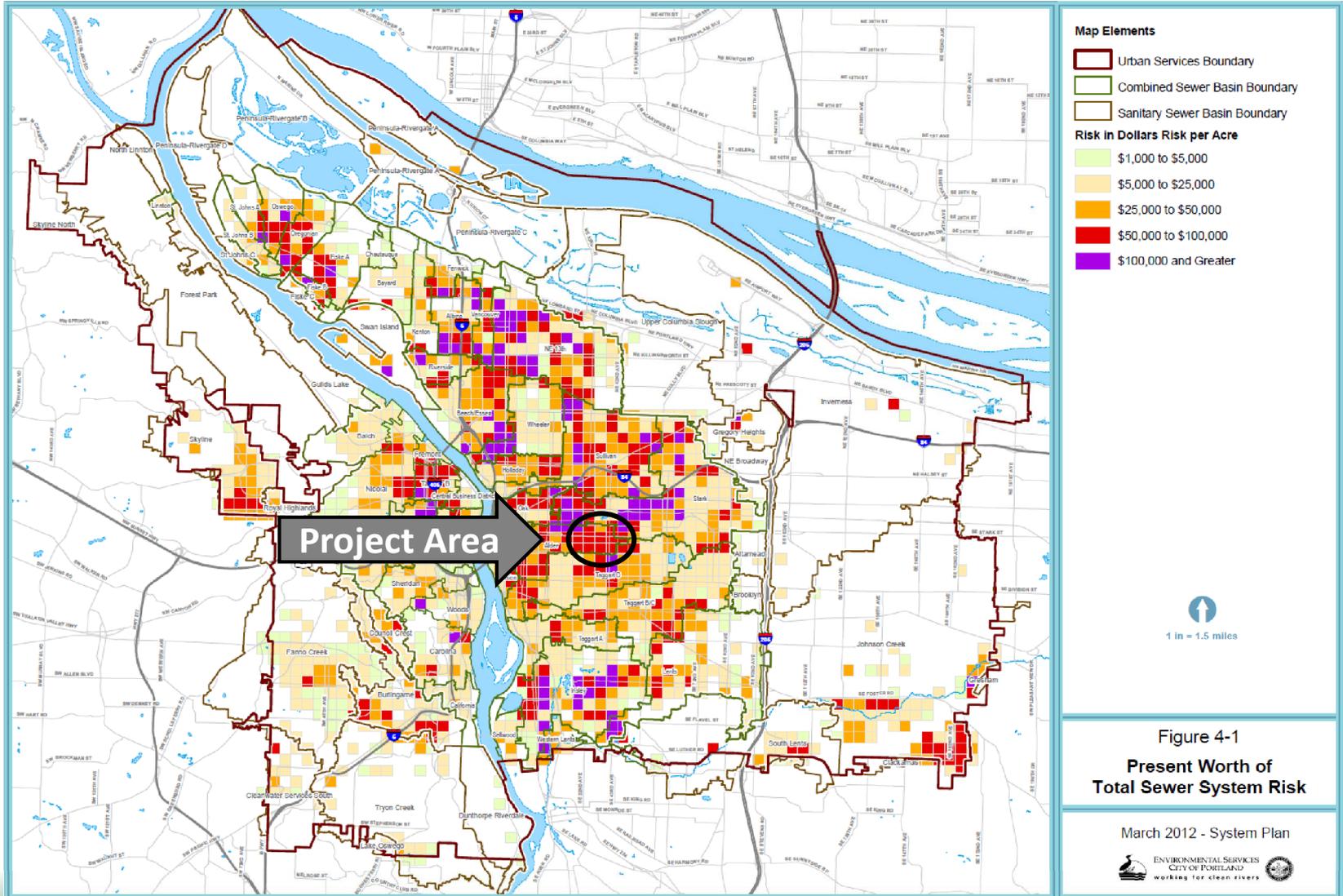
NICK FISH, COMMISSIONER  
MICHAEL JORDAN, DIRECTOR

# Background

- Part of the BES' System Plan (2012).
- This project will resolve sewer backup & structural risk by replacing century-old pipe.



# BES System Plan & Project Location



# Project Objectives & Details

- 4,800 linear feet of pipe (12" to 24" diameter)
- Originally constructed in early 1900's
- 16 stormwater facilities (Green Streets) in right-of-way
- 90% local streets
- 10% busy streets
- Coordination w/ PBOT on Green Streets and pavement restoration
- Coordination w/ PWB on water line relocations

Over one-third of Portland's 2,500 miles of sewer pipes are more than 80 years old. Projects to replace or repair aging sewers are important for protecting water quality, public health and the environment.



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Nick Fish, Commissioner  
Michael Jordan, Director

## Sunnyside East Green Street and Sewer Project

### At a glance

Sewer improvements will help protect the public and the environment by reducing the possibility of costly breaks, leaks, blockages, and sewage releases to homes, businesses and streets.



**4,800  
feet**

of sewer pipe  
added, repaired  
or replaced.



**26  
street trees**

added or  
replaced to  
help manage  
stormwater.



**16 green street planters**  
added to keep

**2.4 million gallons**  
of stormwater runoff out of the  
sewer pipes annually.



FOR MORE INFORMATION: [www.portlandoregon.gov/bes/SunnysideEast](http://www.portlandoregon.gov/bes/SunnysideEast)

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# Public Involvement



## Details:

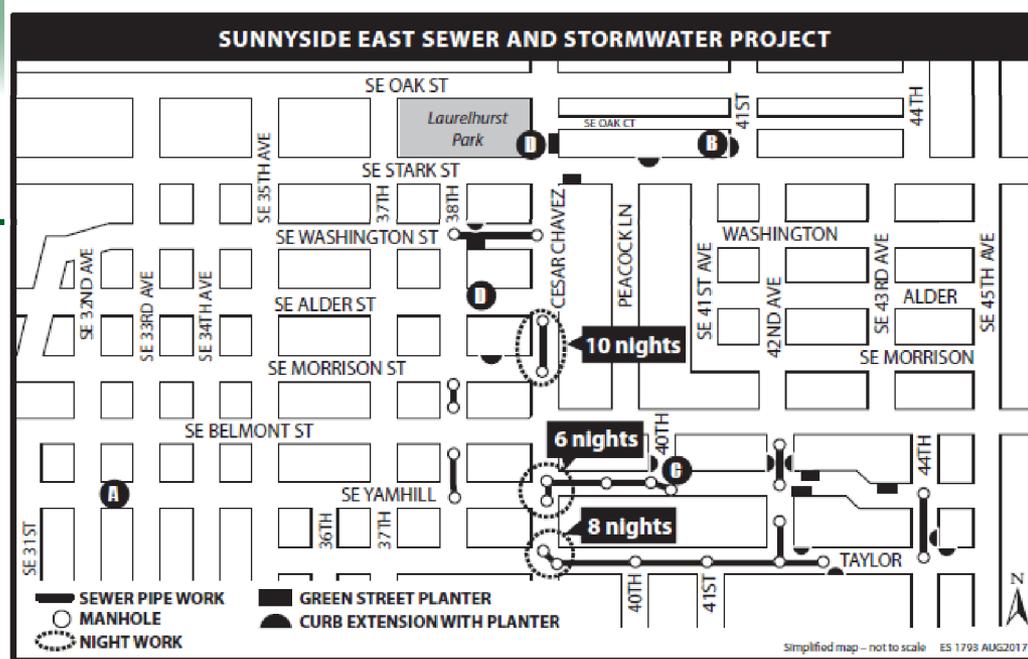
- Collaboration with community to identify impacts and access needs.
- Outreach to households and businesses began July 2014.
- Demographics
  - 32% family, 67% non-family households.
  - 37% owner-, 63% renter-occupied.
  - Highest % of residents between 25 and 34 years of age.
- Project updates/correspondence sent via flyers, newsletters, email, and project website.
- Project area tour @ 30%, Public Open House @ 60% design.



# Public Involvement

## Outcomes:

- Maintain local traffic access to all properties.
- Notify public of night work and noise review board hearing.
- Provide regular, weekly or bi-weekly updates to email list.
- Provide monthly or quarterly mailed updates to owners and tenants.
- Comply with private property access agreements.
- Resolve nonconforming sewer connections.
- Restore areas disrupted by construction.



## Sunnyside East Green Street and Sewer Project



## Noise Review Board Hearing

Wednesday, September 13

DETAILS INSIDE

The City of Portland complies with all non-discrimination laws including Title VI (Civil Rights) and Title II (ADA). To request a translation, accommodation or additional information, please call 503-823-7740, or use City TTY 503-823-6868, or Oregon Relay Service: 711.

**Sunnyside East Green Street and Sewer Project**

Dear Neighbor,

In spring 2015, Environmental Services began designing a project in your neighborhood to repair, replace, or install 4,800 feet of sewer pipe. Some of the pipe being replaced is 100 years old and deteriorating due to age. Environmental Services will also add 16 green street planters and replace or plant 26 trees to remove 2.4 million gallons of stormwater from sewer pipes. These improvements will protect public health, property and the environment and reduce the possibility of sewage releases into streets, homes and businesses.

Thank you for contributing to the design of this important project. Design is nearly complete, and we anticipate construction to begin in early 2018 and to take a year to complete. Due to the high traffic volumes on Cesar Chavez Boulevard, we are proposing to do some work at night. See inside for more information. For the most up-to-date information during construction, please sign up for the project's email update list by emailing [Debbie.Caselton@portlandoregon.gov](mailto:Debbie.Caselton@portlandoregon.gov) with "Sunnyside East" in the subject line.

Your neighborhood has a combined sewer system, which mixes sewage from homes and businesses with stormwater runoff from streets in the same pipes. When it rains, sewers can fill to capacity and can back up into basements and streets. Combined sewage is contaminated with bacteria and pollutants washed off streets. Green streets help keep the combined sewer system running efficiently by keeping the stormwater out of the system. Many of the sewer pipes in the area need replacement because they are too small to carry the amount of stormwater in the area, and they are deteriorating due to age.

Throughout the project, please contact me with concerns or questions by phone by email at [Debbie.Caselton@portlandoregon.gov](mailto:Debbie.Caselton@portlandoregon.gov) or phone at 503-823-2831.

Sincerely,  
*Debbie*  
Debbie Caselton, Community Outreach  
City of Portland Bureau of Environmental Services  
1120 SW 5th Avenue, Room 1000, Portland, OR 97204  
Phone: 503-823-2831 | Email: [Debbie.Caselton@portlandoregon.gov](mailto:Debbie.Caselton@portlandoregon.gov)

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AUGUST 2017



# Pipe Materials & Construction Methods

- Open-Cut
  - PVC
  - RCP
- Pipe-Bursting
  - HDPE



# Stormwater Facilities (Green Streets)

- 16 stormwater facilities:
  - Avoid more costly pipe upsizing.
  - Remove stormwater volume from CSO system.
- Coordination w/ PBOT to upgrade corner ramps.

Flat-bottom  
Curb Extension



Sidewalk Planter  
w/ step-out zone to  
accommodate parking



# Project Budget and Schedule

- Engineer's Estimate: \$2.64M
- Level of Confidence: High
- Advertise Contract: Early December, 2017
- Begin Construction: April, 2018
- Construction Duration: 280 days

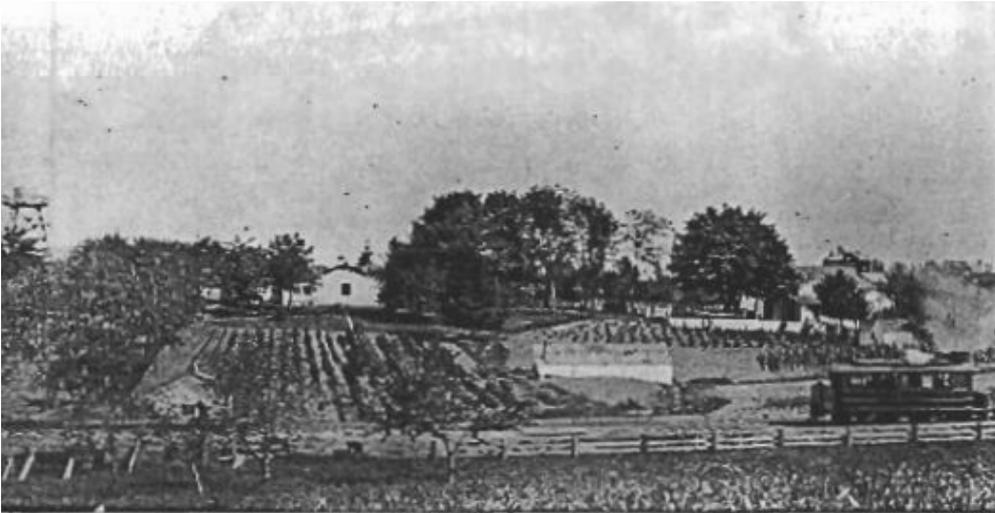


Top: Potholing at SE Yamhill St & 42<sup>nd</sup> Ave

Bottom: Potholing at SE Taylor & 44th



# Questions



S.E. 39th Ave. - S. of Stark St.  
Before Widening  
4-14-49

