

## AGENDA

### Broadview 12<sup>th</sup> Avenue basin neighbor meeting

February 11, 2016, 6:00 – 8:00 p.m.

<u>Agenda Item</u>	<u>Time</u>
1. Introductions and agenda review	6:00 – 6:05 p.m.
2. Update on process since May 2015	6:05 – 6:20 p.m.
3. Drainage discussion	6:20 – 7:00 p.m.
4. Sewer discussion	7:00 – 7:50 p.m.
5. Next steps	7:50 – 8:00 p.m.

**Feb. 11, 2016**

## **11<sup>th</sup> Avenue neighbors meeting**

### **Attendees:**

#### **Seattle Public Utilities:**

- Madeline Goddard, Deputy Director, Drainage and Wastewater Line of Business
- Grace Manzano, Broadview Program project manager
- Don Anderson, Sewer and Localized Flooding Program manager
- Rachel Garrett and Katie McVicker, community outreach
- Bob Jacobson, Brown and Caldwell (sewer engineer)
- Alice Lancaster, Herrera (drainage engineer)

#### **Community members:**

Dennis Dow, Al Sawtell, Bob Stamnes, Sharon Aller, Craig Wilson, Clark Wiegman, Vicki Scuri

### **Summary**

On Thursday, February 11, 2016, SPU staff met with Broadview residents who live in the 12000 block of the 11<sup>th</sup> Avenue NW area, to provide updates on Broadview program planning and proposed projects. The above agenda guided our discussion on the Broadview program, recent history and coming projects. While SPU doesn't normally provide true meeting minutes for living room discussions, the following attempts to summarize some of the topics discussed, key questions from neighbors, and SPU responses.

### **12<sup>th</sup> Avenue NW Drainage questions**

- **How many feet of conveyance/detention pipe will be placed along 11th Avenue?** About 1,000 feet along 11<sup>th</sup> Avenue and a short stretch of NW 122<sup>nd</sup> Street
- **How many detention pipes will be used?** The number of detention pipes will be determined after SPU completes more modeling and moves into design.
- **Will the detention pipes connect back to the conveyance system or will they be metering water into the ground?** The detention pipe will connect to the existing stormwater conveyance outfall system, but where and how it connects will be determined during design.
- **Where will SPU be siting green stormwater infrastructure (GSI)? Are all locations going to be north of 122<sup>nd</sup> Street?** While it is likely that GSI would be located north of 122<sup>nd</sup> Street, the exact locations of GSI have not been determined and SPU will work with the public to gain input on siting during design.
- **Will the detention pipe and the conveyance pipe be designed and built with the same contract?** Yes.
- **What size of conveyance and detention pipe will be used?** The size of the conveyance pipe will be determined after SPU completes more modeling and moves into design. Planning level work has assumed a detention pipe of about 6 feet in diameter.
- **Is SPU planning to do either a green or grey option in 12th, or an option that includes both green and grey elements?** The project will contain both green and grey elements.

- **What can people do in their own yards to mitigate drainage issues?** At this time, only people living in a targeted sewer overflow basin are eligible for SPU's Rainwise rebate program, but we still encourage people living in other areas, including the 12<sup>th</sup> Avenue basin, to plant trees and utilize cisterns where possible. It's important for customers to report drainage issues to SPU by calling (206) 386-1800 so the department has an accurate record of known issues and can accurately plan for improvements where they are needed.
- **What is the drainage level of service in 12<sup>th</sup> Avenue right now? And what would the level of service be after the project is completed?** In many areas, the conveyance level of service is less than a year, which means stormwater would overwhelm the drainage system and flood the right of way more than once a year on average. Some private structures along 11<sup>th</sup> Avenue (south of NW 122<sup>nd</sup> Street) area flood about every 1-7 years on average. SPU will need to do more modeling to estimate the level of service for the area after the project is completed.
  - The stormwater pond alternative that was presented in 2014 would have resulted in a 25 year level of service for flooding to structures. However, SPU heard from neighbors that they strongly opposed an alternative that required private property acquisition. For the same price as the stormwater pond, SPU is proposing the green and grey solution, but the level of service is expected to be lower.
- **The homes between 11<sup>th</sup> and 12<sup>th</sup> north of 122<sup>nd</sup> Street have a similar slope to the homes on 11<sup>th</sup> getting sidewalks repaired. Will these issues be addressed?** Stormwater issues along 11<sup>th</sup> and 12<sup>th</sup> north of 122<sup>nd</sup> Street would be addressed during a later phase of the Broadview Program.
- **Why can't SPU put a detention pipe that is larger than 5-6' in diameter in 11<sup>th</sup> Avenue?** SPU will have a better idea about the size of detention pipe that will be used after more modeling and feasibility assessment is done. Pipe size could be limited by ground slope, other water mains and sewer pipes running through the project area, and the elevation of the downstream drainage system/outfall.

## Dayton Avenue North Sewer Improvement Project

- **Why doesn't the City design for a 25 year level of service?**
  - SPU does not have an established level of service for sewer backups. The 25-year target is not an official policy.
  - SPU has to be equitable among every neighborhood in the city. If the department gives one neighborhood a 25-year level of service, it has to supply every neighborhood with a 25 year level of service, and within our current rates/budget constraints, those types of projects are not feasible.
- **If taken out of the sewer system, will any stormwater in the Dayton basin be pushed into the 12<sup>th</sup> Avenue basin?** No. Flows from Dayton move south to a different basin.
- **Which basin has a lower level of service – Dayton or 12<sup>th</sup>?** There are more residences in Dayton with a sewer level of service that is less than 25 years.

### 12<sup>th</sup> Avenue NW basin sewer level of service:

- 14 homes have 0-5 year level of service
- 2 homes have 5-10 year level of service

- 0 homes have 10-25 year level of service

Total of 16 homes with less than 25 year level of service

#### **Dayton Avenue N basin sewer level of service**

- 2 homes have 0-5 year level of service
- 23 homes have 5-10 year level of service
- 25 homes have 10-15 year level of service
- 15 homes 15-20 year level of service
- 1 home 20-25 year level of service

Total of 66 homes with less than 25 year level of service

- **Which basin has more sewer overflows per year – Dayton or 12th?** Using previous modeling results to calculate an average number of overflows out of maintenance holes and basement backups, referred to as sanitary sewer overflows (SSOs), for each basin, SPU estimates that there are 7.4 SSOs per year in Dayton and 4.8 SSOs per year in 12<sup>th</sup> Avenue. It's important to note that these results are based on modeling, so they are theoretical. The model does not account for homes with backflow preventers and makes assumptions for basements that were not surveyed to exact finished floor elevations. We have taken this conservative approach to try and capture the effect of the sewer hydraulic grade line on the entire basin, removing the backflow preventers to see the effects of the sewer on all homes as if they were not in place.

### **Broadview Program “parking lot” questions**

- **How is SPU collaborating with other departments and the community to make projects as most cost-effective/aesthetically pleasing as possible?** SPU and the Seattle Department of Transportation (SDOT) are working to improve project coordination efforts across the city. In Broadview, SDOT's Move Seattle levy earmarked \$8 million for the Broadview neighborhood over six years. SPU will aim to coordinate, co-locate and find efficiencies for partnership opportunities. SDOT will look at SPU's planned work in Broadview and how the two departments could provide co-benefits.
- **New homes being built in Broadview are located on stormwater “springs” (bubbling water). How is SPU communicating this information to the Department of Construction and Inspections?** Broadview Program Project Manager Grace Manzano has communicated concerns about sewer and drainage issues in the area with the Department of Construction and Inspections, who will be in charge of the permitting process.
- **Does the 1% for art program apply to the Broadview projects?** The City of Seattle has a Public Art program that specifies that 1% of eligible city capital improvement project funds be set aside for the commission, purchase and installation of artworks in a variety of settings. This art is commissioned by the Office of Arts and Culture. More information about the 1% for art program can be found at <http://www.seattle.gov/arts/programs/public-art>.

- **Are there opportunities for art with holistic design with SPU's sewer and drainage projects? Can SPU provide opportunities to educate residents about new infrastructure?** We will continue to look for potential opportunities to engage the community throughout project initiation, planning and design. Oftentimes, buried-pipe (underground) projects don't present great opportunities for newer, more creative or aesthetic treatments of infrastructure. Wherever possible, and especially with green stormwater infrastructure, SPU's design teams work with landscape architects to enhance the public experience of capital projects.
- **Can you show the Broadview Program next steps and "big picture" for sewer improvements? It would be helpful to see this graphically as a flow chart or diagram. For example, what will the next steps look like if the Dayton project is a success? Or is not a success?** We are early enough in project planning that next steps are not yet clear. SPU will continue to update the community as we move forward with work in Dayton. As we further develop the program, we will share graphics and other tools to help explain next steps and future timelines.