

Broadview Sewer and Drainage Improvement Project: Project Overview

Project Goals:

- Reduce the frequency and quantity of sewer backups into homes, properties, streets and creeks in Broadview.
- Reduce the frequency and quantity of stormwater flooding to areas most impacted, especially building structures.

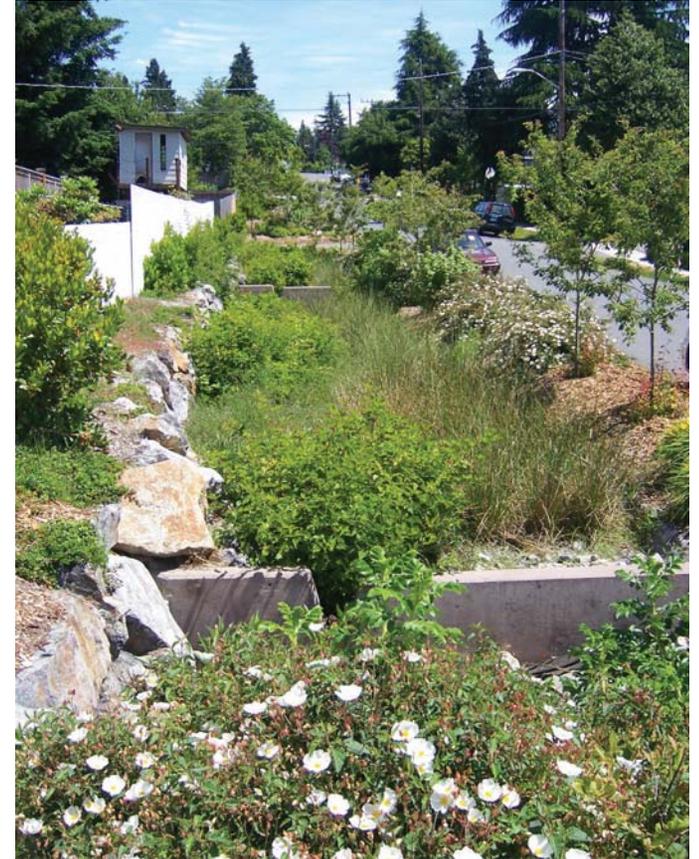
12th Ave NW Basin (western one-third of Broadview)*

- On March 18, 2014 we presented leading sewer improvement alternatives.
- Today we are presenting the leading drainage alternatives.
- Next we will bring together leading paired sewer and drainage alternatives.
- There will be many opportunities for public input during this alternative analysis process.
- We are planning to make a decision on sewer and drainage improvements for the 12th Ave NW basin by late 2014.

**Note: Residents in the 12th Ave NW basin experience sewer backups approximately 2.5 times more frequently than residents in the rest of Broadview.*

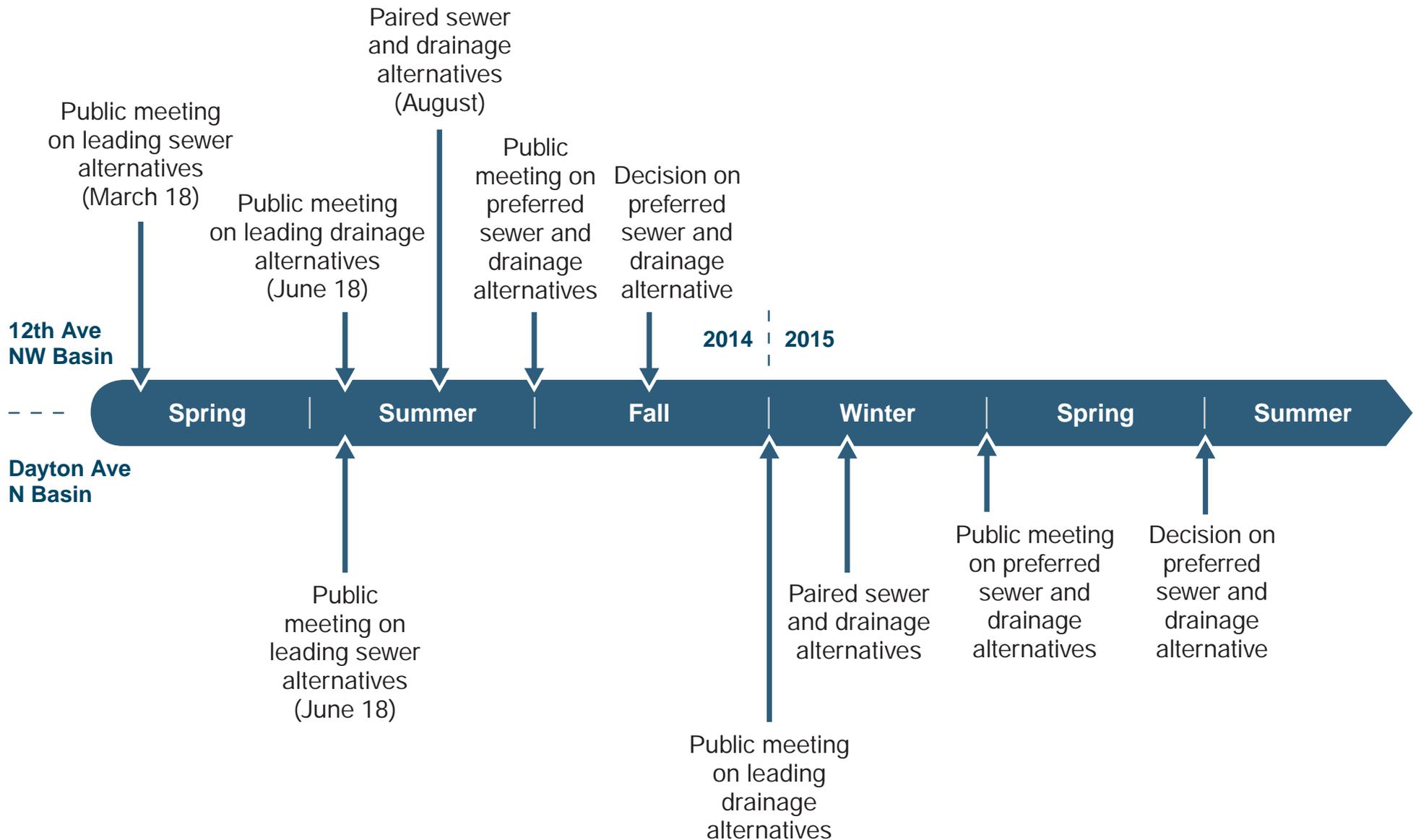
Dayton Ave N Basin (eastern half and southern portion of Broadview)

- Today we are presenting the leading sewer alternatives.
- Next we will present leading drainage alternatives.
- Then we will pair sewer and drainage alternatives together and present to the community for input.
- We expect to complete this options analysis work by mid-2015.



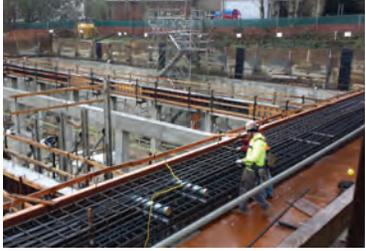
NW 107th Street stormwater cascade

Project Timeline



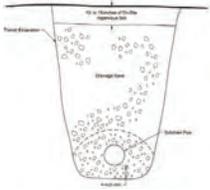
Broadview Sewer and Drainage

Broadview Sewer and Drainage Improvement Project

		Components			
		Sewer Pipes	Sewer Storage	Natural Drainage Component	Property Acquisition
Dayton Ave Sewer 					
Alternatives	Reduce Flows into Sewer Pipes and Provide Storage	Seal 25,000 linear feet (~38 blocks) of sewer mains, seal 60,000 linear feet (~91 blocks) of side sewers and increase size of 1,000 linear feet of sewer lines (~ 2 blocks)	Less than 100,000 gallon underground sewer storage	400,000 gallons in stormwater ponds or in storage pipes under right-of-way 6,000 feet of drainage improvements 2,000 linear feet of Bioretention (~3 blocks)	24,000 square feet (8,000 square feet for sewer and 16,000 square feet for stormwater)
	Upsize Sewer Pipes and Build Storage in Dayton Basin	Increase size of 2,200 linear feet of sewer lines (~3 blocks)	1,500,000 gallon (~1.5 Olympic size pools) underground sewer storage near 115th and 100,000 gallon underground sewer storage near 105th	2,200 linear feet of Bioretention (~3 blocks)	32,000 square feet
	Upsize Sewer Pipes and Build Storage (Centralized location)	Increase size of 7,400 linear feet of sewer lines (~11 blocks)	1,600,000 gallon underground sewer storage (~1.5 Olympic size pools)	3,300 linear feet of Bioretention (~5 blocks)	32,000 square feet

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		Components					
		French Drains	Improved Drainage System	Stormwater Cascades	Detention Cisterns	Storage Pipe or Pond	Property Acquisition
12th Ave Drainage 							
Alternatives	Centralized Storage (Pond)	9,000 linear feet (~14 blocks)	12,400 linear feet (~19 blocks)	1,500 linear feet (~8 blocks)	~30 homes (Voluntary participation)	600,000 gallon storage pond	24,000 square feet
	Decentralized Storage (Underground pipes)	9,000 linear feet (~14 blocks)	7,400 linear feet (~11 blocks)	1,500 linear feet (~8 blocks)	~30 homes (Voluntary participation)	600,000 gallon storage pipes under the right-of-way	None

Broadview Sewer Basins Surcharged Sewers

- Surcharged Sewers (Nov '11)
- Surcharged Sewers (Dec '10)
- Broadview Sanitary Sewers
- Streams
- Dayton Sewer Basin
- 12th Ave NW Sewer Basin
- 6th & 7th Sewer Basin

