

# MAGNOLIA

## Magnolia Conveyance Project

### Find out about next steps for the Magnolia Conveyance Project

Look inside to learn more about:

- How King County used “pipe bursting” to repair the system
- What to expect during restoration
- How to stay up-to-date on the project

# MAGNOLIA

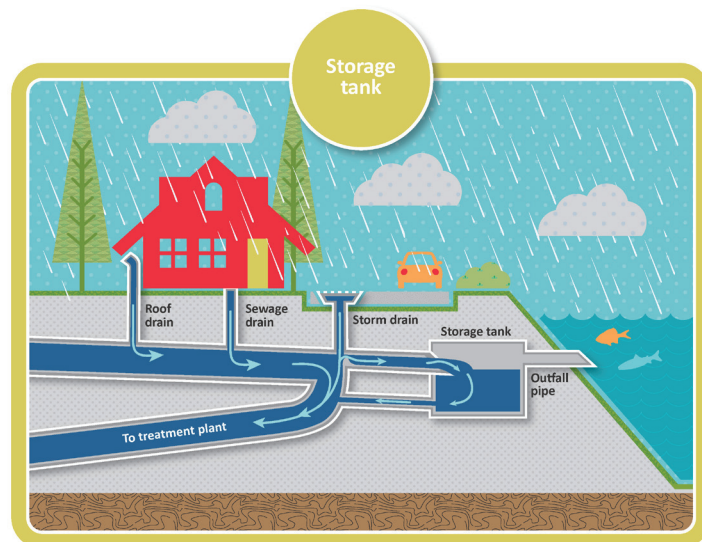
## Magnolia Conveyance Project

### This project keeps sewage and stormwater out of Puget Sound

When heavy rains fill our wastewater pipes, Combined Sewer Overflows (CSOs) release sewage and stormwater into Puget Sound and other local water bodies. The chemicals and germs in CSOs can damage water quality, and harm people and animals.

CSOs in King County exist only in older Seattle neighborhoods, where one set of pipes carries both sewage and stormwater. CSOs release 10 percent sewage and 90 percent stormwater. Most of the time, this water goes to a wastewater treatment plant.

Through its Protecting Our Waters program, King County is working to limit its CSOs to one overflow per year on average over the long-term.



*Since 1979, King County has reduced its overflows by 90 percent. This has kept more than 2.3 billion gallons of sewage and stormwater out of local waterways. This project will help us continue to reduce overflows in Magnolia.*



# MAGNOLIA

## Magnolia Conveyance Project

### King County’s Magnolia Wet Weather Facility on track to resume operations

King County’s contractor for the Magnolia Conveyance Project is completing a project to address a broken pipe in a critical pollution control facility. The Magnolia Wet Weather Storage Facility was designed to reduce overflows of excess stormwater and sewage to Puget Sound during heavy rains. In fall 2016, King County operators discovered that the facility was not operating as designed. An investigation revealed a break in the pipe, located 150 feet below the ground’s surface.

The contractor proposed a corrective plan to install another pipe. This installation was completed in May 2018, and the contractor has continued to restore system connections and affected areas.

Once the remediation project is complete, the facility will reduce overflows from an outfall extending off 32nd Avenue West into Puget Sound. According to King County’s 2017 Combined Sewer Overflow Annual Report, an average of 30 untreated overflows happened at this site last year. You can find information about all of King County’s Combined Sewer Overflows (CSOs) by visiting [kingcounty.gov](http://kingcounty.gov) and searching “2017 CSO report.”



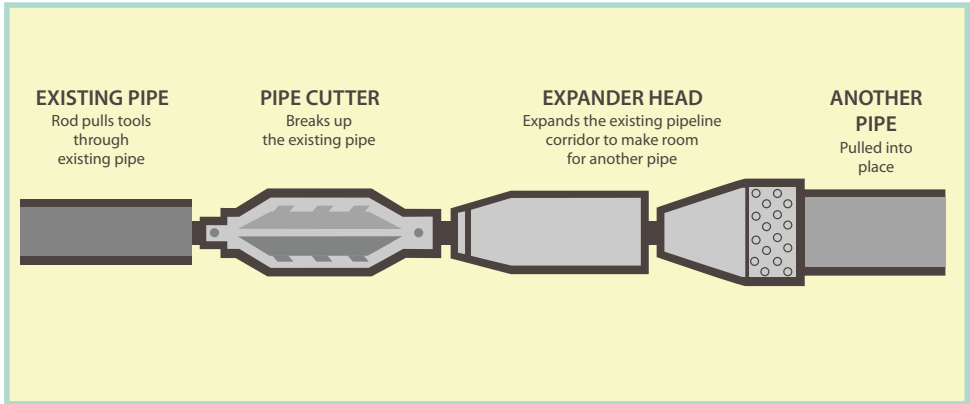
Magnolia’s Wet Weather Storage Facility, located in Smith Cove Park.



View of Smith Cove Park project site from the Magnolia Bridge.



# An innovative solution to a challenging repair



The Magnolia project contractor used a large drill rig to pull about 3,000 feet of pipe from 32nd Avenue West to the exit pit at Smith Cove Park.

**King County’s contractor used a method called pipe bursting** to install another pipe in the existing pipe. This method breaks up and expands the existing pipe while pulling through another pipe. Breaking up and expanding the existing pipe ensures that another pipe with the proper capacity can be pulled into place.

Crews first assembled a long pipe by fusing together shorter sections of pipe. This work was carried out on 32nd Avenue West. Then, they attached the pipe to equipment that included:

- Reamer to clear dirt out of the pipe
- Pipe cutter to break up old pipe
- Expander head to make room for another pipe
- Pull head to bring the new pipe into place

The contractor used pipe made of high-density polyethylene, a material suited for this method. The plastic pipe allowed the contractor to avoid total street closure on 32nd Avenue West, reducing community impacts during installation.



## Thank you!

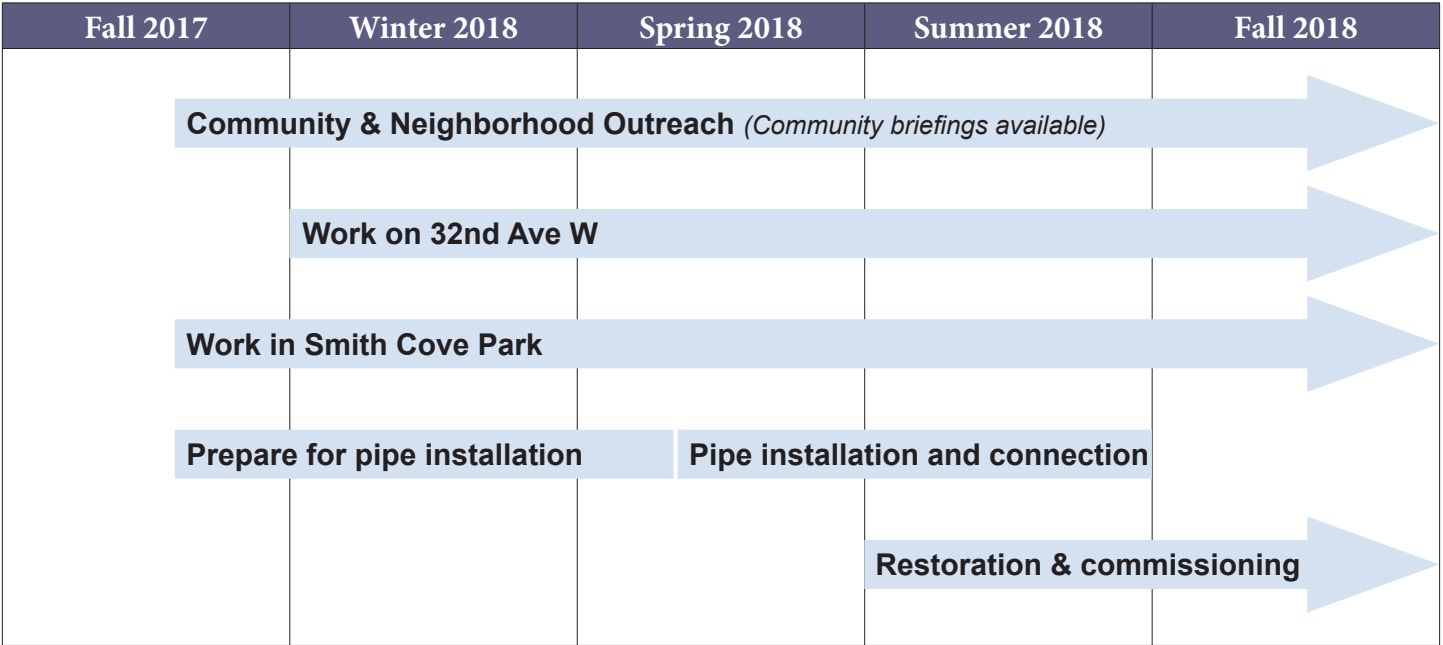
King County’s team extends a special “thank you” to project neighbors who lived with construction activities day-to-day for the benefit of their entire community. The project team worked directly with project neighbors and we know firsthand how challenging it was for some. We appreciate your patience as the County’s contractors completed both initial construction and the remediation project.



# What’s happening now?

King County’s contractor is working to restore pipe connections, structures, and affected areas. Pipe inspections and re-connections are required to return the Magnolia Wet Weather Storage Facility to service after this phase of the project. Once facility reconnections are completed, the system can be tested and placed back into service, so that excess flows of stormwater and wastewater can be diverted through the pipe to the storage tank as designed during heavy rains.

Restoration activities are expected to continue through December 2019. We will continue to update the community as the contractor wraps up work.



This is a tentative schedule. Dates and durations are estimates and subject to change.

## Keeping up to date and contacting the team

### As major construction activities wrap up, we have:

- Reduced hotline hours from 24/7 to 8 a.m. to 5 p.m. Monday through Friday
- Closed our online open house and moved the content onto the project website

### For more information or questions:

- **Visit:** go to [kingcounty.gov](http://kingcounty.gov) and search “Magnolia storage”
- **Call:** **206-205-5969** and leave a message; King County’s team will be paged and get back to you during business hours
- **Email:** Monica Van der Vieren ([monica.vandervieren@kingcounty.gov](mailto:monica.vandervieren@kingcounty.gov))