



# Lake Hills and NW Lake Sammamish Sewer Upgrade Project

## Project overview

### Providing sewer service for a growing community

King County serves our growing region by replacing aging infrastructure and providing capacity for the future.

The new sewer line will begin in Redmond's Idylwood neighborhood, continuing along West Lake Sammamish Parkway between Idylwood and Marymoor Parks. North of the park, the pipe follows the Sammamish River Trail, crossing the Sammamish River at Leary Way NE and following the trail to NE 85th Street.

Today's engineers design around a legacy from the past. Fifty years ago, the Lake Hills and NW Lake Sammamish sewer line was installed in an area that looked a lot different from today. The alignment for the new sewer line is in roughly the same location as the existing pipe because there were no alternative routes that would allow the County to keep wastewater flowing efficiently without negatively impacting the natural environment and infrastructure that has built up around the sewer line.



### Project cost and regional funding

The project is funded by monthly sewer bill revenue and borrowed funds (bonds). Because King County operates a regional sewer system, ratepayers throughout the entire service area will help cover the cost of the project through their monthly sewer bill.

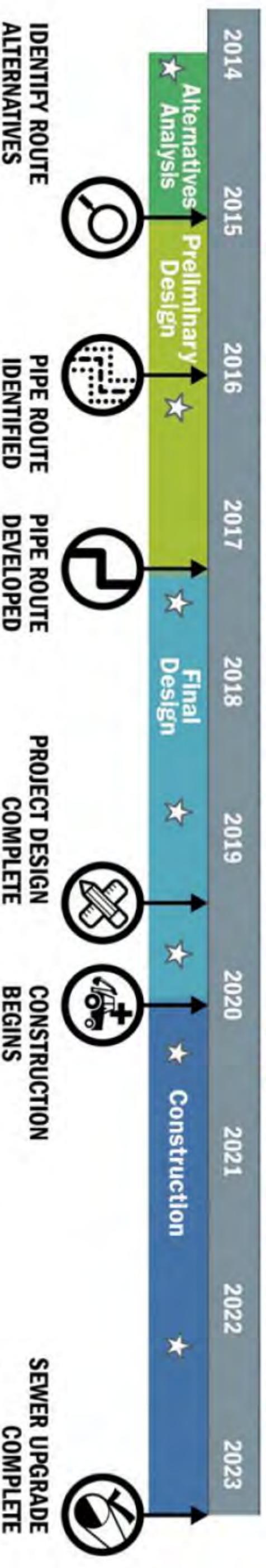


## Lake Hills and NW Lake Sammamish Sewer Upgrade Project

### Project timeline

Construction is scheduled to begin in 2020 and is expected to take about three years to complete. When work is complete, the new Lake Hills and NW Lake Sammamish sewer pipe will be ready to serve Redmond for another 50 years or more.

## Lake Hills/NW Lake Sammamish Sewer Upgrade *TIMELINE*



☆ Community Involvement Opportunity



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## Reducing future disruption to your community

For future potential use of recycled water in the area, King County will install a new recycled water pipe parallel to the sewer line between NE 85th Street and the West Lake Sammamish Parkway entrance to Marymoor Park. By adding the recycled water line at the same time as the sewer is upgraded, King County can limit future disruption to your community.



Recycled water from Brightwater Treatment Plant is considered “Class A,” meaning it is safe for human contact, but is not approved for drinking. This means we can use it for industrial processes like heating or cooling or for watering crops, lawns and sports fields. Class “A” is the highest possible rating for recycled water quality.



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## How we design

Our goal is to design a system that provides safe, reliable sewer service for 50 years or more. Initial design drawings for the project were completed in early 2017. As the team works to further develop and refine the design, we'll be considering:

### Evaluating environmental conditions



We have been conducting fieldwork and other studies to develop an initial understanding of the physical conditions along the route, including soils, groundwater levels, slopes, existing utilities and other structures. We will conduct additional fieldwork during final design.

### Environmental review and permit requirements



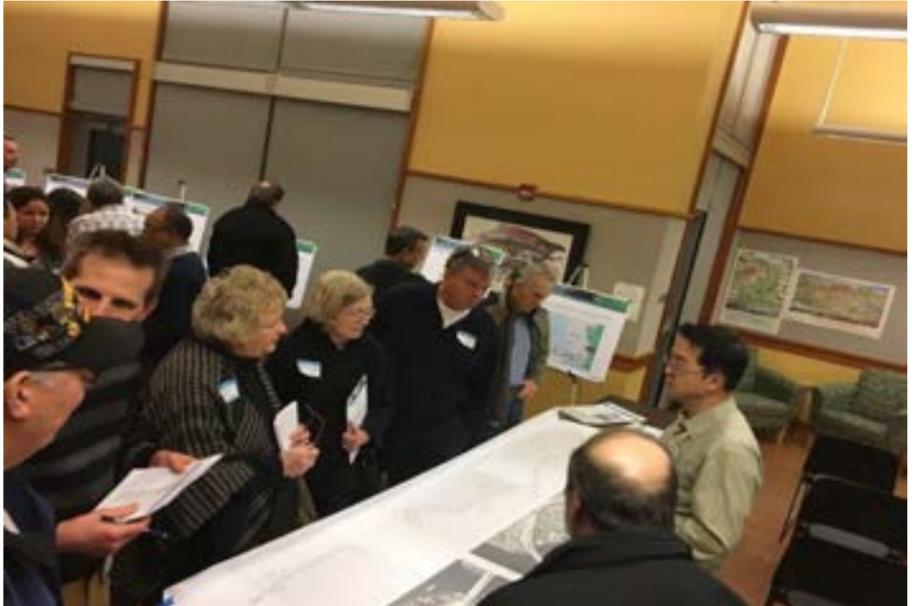
We are taking an inventory of the natural and built environment near the project area. We will use this information to reduce disruptions during construction and plan for restoration. Some of these plans are required before King County can acquire the permits needed for this project.

### Direction from local government and partner agencies



The project team meets regularly with local jurisdictions, including the City of Redmond, and partner agencies to get feedback on the developing design. We will continue to work with our partners during final design.

### Your input



We recognize that you know your community best. We want to hear from you about what we should keep in mind as we continue developing our design. We will report back to you about how your input was considered.



# Lake Hills and NW Lake Sammamish Sewer Upgrade Project

## What we've heard from you

We are committed to keeping you informed of project progress during design. We will share information about where the sewer line will be located, construction techniques we are considering and plans for restoration as information becomes available before, during and after construction.

### Community feedback to date

	Limit disruptions to West Lake Sammamish Parkway and the Sammamish River Trail. Find safe, efficient detour routes for those driving, cycling or walking along these routes
	Maintain access to Marymoor and Idylwood parks and the Sammamish River for recreation, especially during the busy summer months
	Identify and avoid sensitive plant and animal habitats in the area
	Reduce work on private property
	Coordinate with Audubon Elementary and limit construction near the school during the school year
	Coordinate with the City of Redmond and Sound Transit on other projects in the area, including the Redmond Central Connector and the East Link Extension

What else should we be thinking about? Please let us know by filling out a comment form or contacting Kelly Foley at [kelly.foley@kingcounty.gov](mailto:kelly.foley@kingcounty.gov) or 206-477-8621

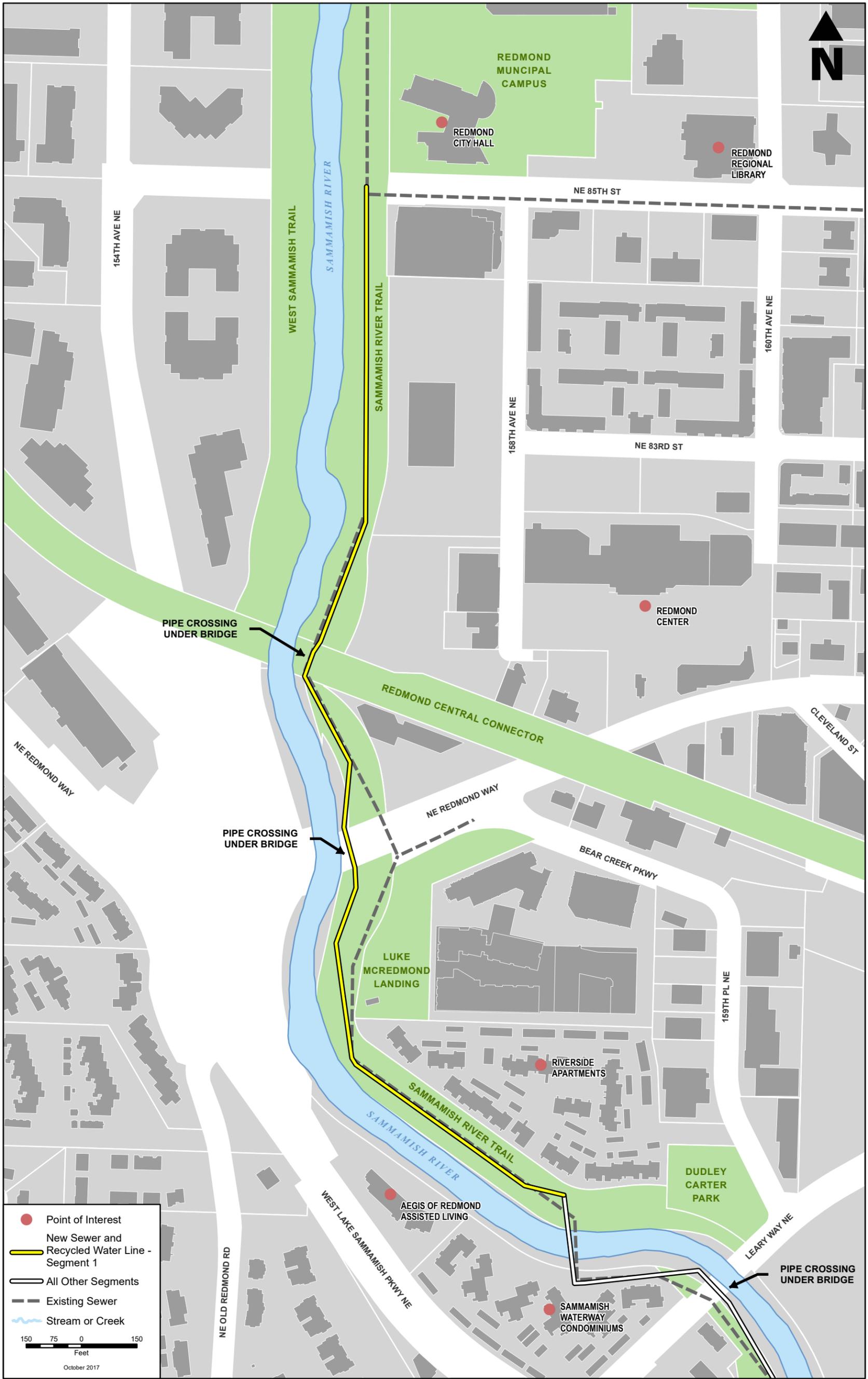


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# SEGMENT 1 New sewer on trail. Decommission existing sewer.

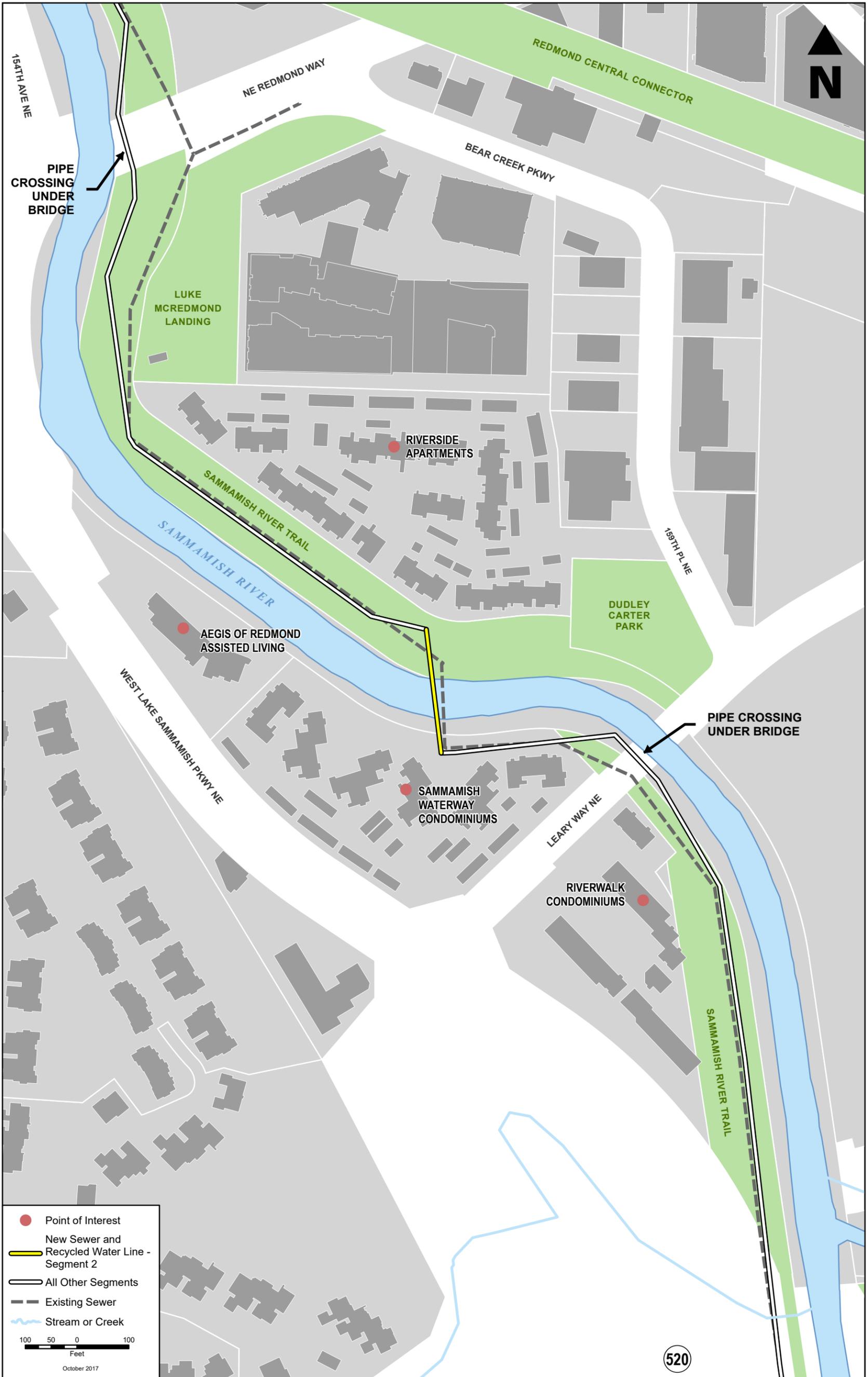


- Point of Interest
- New Sewer and Recycled Water Line - Segment 1
- All Other Segments
- Existing Sewer
- ~ Stream or Creek

150 75 0 150  
Feet  
October 2017



# SEGMENT 2 New sewer siphon under Sammamish River.





# SEGMENT 3 New single and parallel sewers.





**SEGMENT 4** Remove and replace two existing sewer siphons. Reuse one.





**SEGMENT 5** New single and parallel sewers. Decommission existing sewer.





# Lake Hills and NW Lake Sammamish Sewer Upgrade Project

## How we build

We are evaluating a number of construction methods to build the sewer upgrade. The majority of the pipe will be installed using open-trench construction. Open trench construction is the most common method used for installing pipes and is preferred for shallow work zones. It will require us to dig a trench from the surface to install the pipe. Where feasible, we are considering construction methods that do not require us to dig a trench to reduce surface disruptions.



Open trench construction will be used to install the majority of the pipe.

### Construction sequencing

- Construction is expected to begin in 2020 and take three years to complete, but the entire sewer line will not be under construction at one time.
- Crews may work in segments or simultaneously at different locations along the alignment, reducing disruptions to the community wherever possible.
- We are still working to determine exact sequencing for when each segment will be built.

We will share more information about construction methods and sequencing as design progresses.