

## Eastside Audubon Conservation Committee Briefing

April 11, 2018





### Key priorities/concerns we've heard from you

- Understanding construction impacts
- Protecting nesting birds and bird habitat
- Conservation of critical habitat in Marymoor Park, including Audubon BirdLoop Nature Trail
- Being engaged in restoration plans for the project



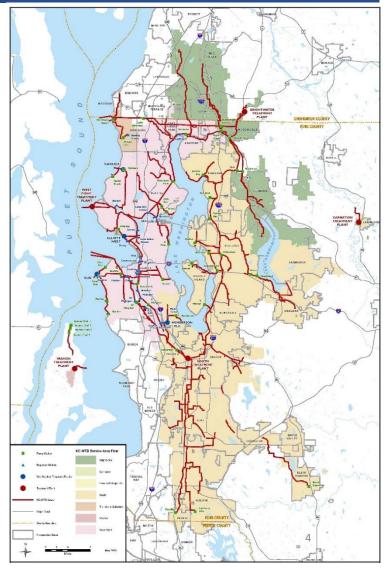
# Agenda

- What we've heard from you
- Project overview
- Environmental review
  - Existing conditions
  - Anticipated construction impacts
  - Restoration plans
  - Habitat enhancement
- What's next
- Our commitment to you



# King County WTD

- 1.7 million people served
- 424 square mile area served
- 5 treatment plants
- 391 miles of pipe
- 185 million gallons sewage treated/day



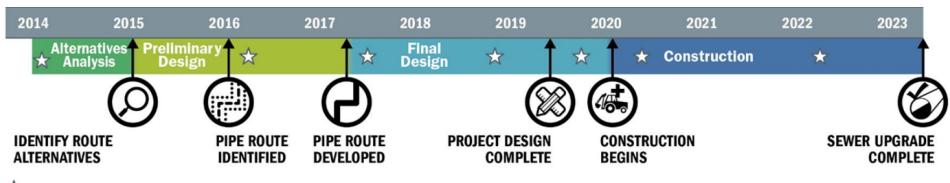
### Objective

- Upgrade 4.5 miles of sewer pipes in Redmond to provide service for 50+ years
- Provide important connection for the potential future use of recycled water



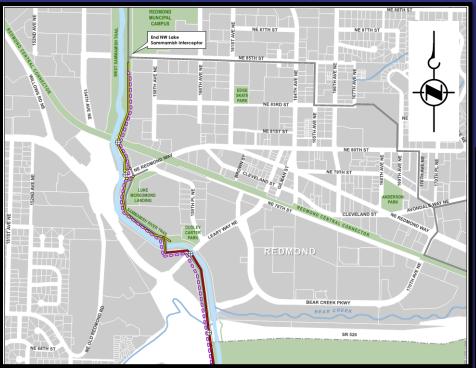


### Schedule



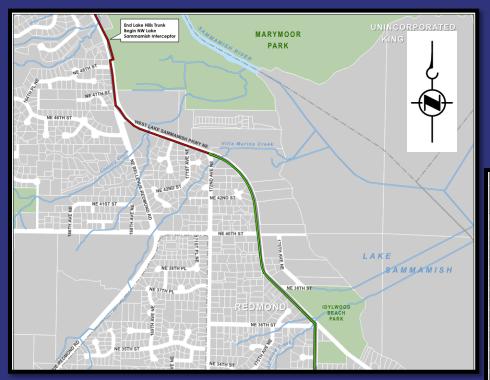
☆ Community Involvement Opportunity

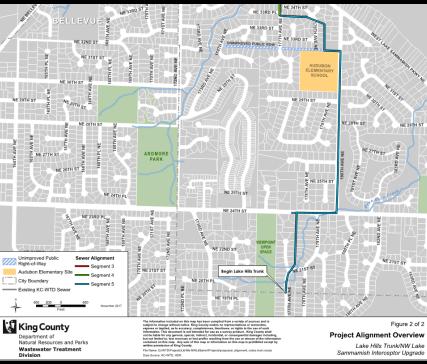
# Project alignment





# Project alignment







### Construction methods

- Primarily open trench
  - Ideal for shallow work zones
  - Surface impacts will include traffic detours, trail detours
- Short, trenchless sections
  - Protects environmentally sensitive areas
  - Limits surface impacts
  - Not appropriate for all situations





### Environmental review process



Identify anticipated environmental impacts

Develop plans to avoid and minimize environmental impacts, and where impacts are unavoidable

We are here

Receive direction from local jurisdictions, regulatory agencies and seek input from the public

#### **Finalize restoration plans**



### Existing conditions

- Primarily native and ornamental vegetation with some large, mature deciduous trees
- Invasive species in river corridor
- 18 wetlands and 7 streams along the project alignment
- Eagles, songbirds, beaver, salmon, trout
- Migration routes:
  - Pacific Flyway
  - Sammamish River





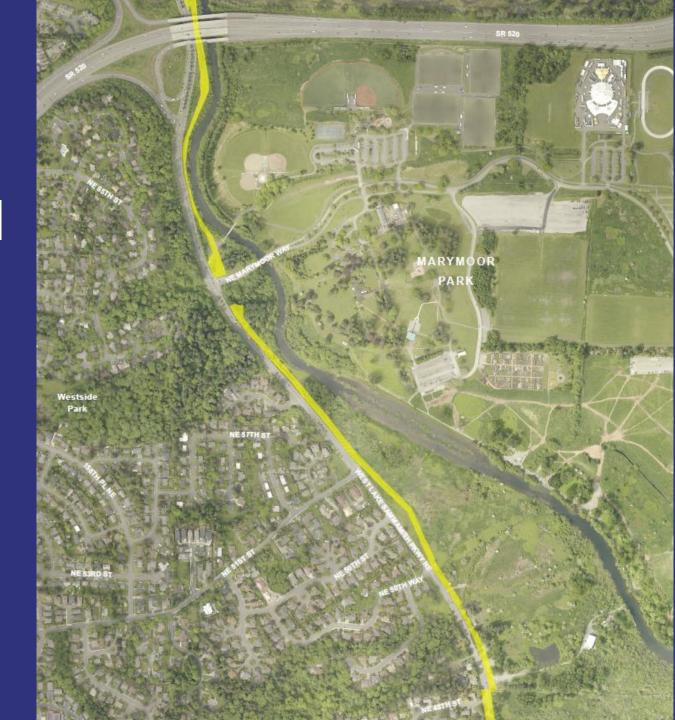
### Designing to limit impacts to habitat

- Keep pipe route in approximately same location as existing pipe
- Trenchless construction methods at Sammamish River
- Limiting work areas to only necessary space
- Protecting large, significant trees wherever possible
- Planning to avoid all but one culvert



# Working limits

Working Limits





### Unavoidable impacts

- Plants and trees will be removed within working limits (30 - 45 ft wide)
- Some vegetation removal within wetlands and along streambanks
- Temporary impacts at Country Creek culvert





### Site restoration

- Replant diversity of native plant species where vegetation has been removed
  - 1:1 tree replanting ratio
  - 3:1 when tree diameter > 30 inches
  - No net ecological loss in wetlands, streams or buffers
- Remove invasive species
- Leave downed large woody debris within wetland and stream buffers wherever possible
- All impacted wetlands, streams and buffers restored to pre-construction conditions







### Restoration examples











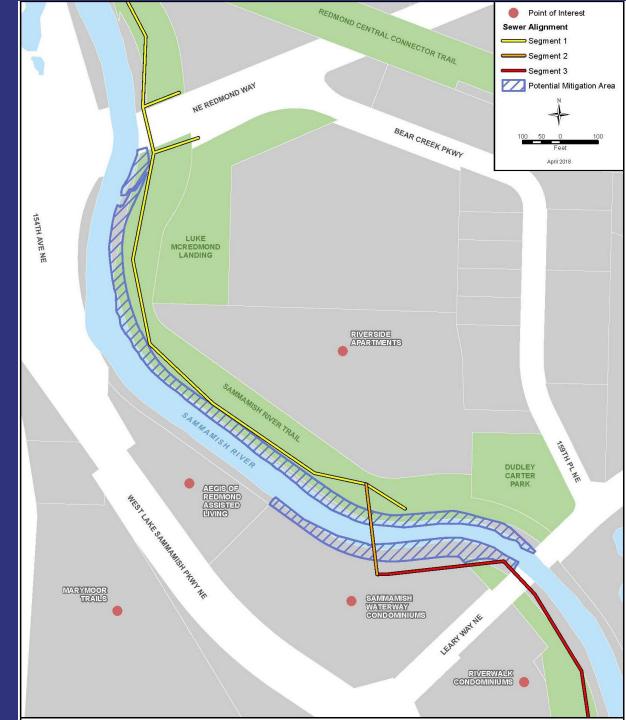
### Enhancement along the Sammamish River

- Goal: Achieve no net loss of habitat area, increase habitat function, improve water quality and hydrology
- Remove invasive species
- Higher density of native trees and shrubs
- Large woody debris 50 feet apart along the banks of the River
  - Provide habitat, food, nesting material



# Enhancement area







# What's next?

- State Environmental Policy Act (SEPA) determination
  - Anticipated public comment period in June 2018
- Conduct additional fieldwork
- Acquire necessary permits
- Refine construction sequencing (when we will build what)
- Complete design by end of 2019
- Begin construction in mid-2020



### Our commitment to you

- Keep you up to date and informed
- Address concerns, answer questions
- Whenever possible, use your feedback to shape the design
- No surprises during construction





### Questions and comments

- Contact Kelly Foley, community relations at 206-477-8621 or kelly.foley@kingcounty.gov
- Visit the project website at: <u>www.kingcounty.gov/KCRedmondSewer</u>
- Sign up for email updates on our website
- Enroll in text alerts: text KING REDMONDSEWER to 486-311