



NORTH & MIDDLE FORKS SNOQUALMIE RIVER

King County Flood Hazard Management Plan Update

High velocity flows downstream of Mason Thorson Ells Levee

King County's river and floodplain management vision and strategy:

- Promote public safety by reducing risks from flooding and channel movement.
- Continue to lower flood risks to homes and infrastructure in unincorporated King County and the City of North Bend.
- Coordinate actions along the whole corridor rather than planning and building stand-alone projects one at a time.
- Work to manage the floodplain in a cost-effective manner for the long term.
- Promote aquatic habitat and river restoration.
- Consider the effects of projects on recreational safety.

Existing conditions of the Mid and North Fork Snoqualmie Valley:

- River channels are dynamic and full of sediment in this alluvial fan area where the river flattens and spreads out.
- Risks of channel migration and erosion are high.
- Revetments provide limited erosion protection at specific locations but can harm habitat.
- Homes and public infrastructure are at risk from flooding and erosion.
- Flood damage requires frequent and costly repairs.
- There are 23 levees and revetments; about 3.4 miles of riverbank are armored.



Damage caused by high velocity flows

King County Flood Plan accomplishments 2006-2012:

- Negotiating to acquire Shake Mill Left (North Fork).
- Completed five repairs on Mason Thorson Extension and Mason Thorson Ells levees (Middle Fork).
- Relocated three hazard trees (Middle Fork).
- Completed the early planning piece of a comprehensive strategy for flood hazard management along the Middle Fork.
- Developed an emergency action plan to be used if conditions change rapidly at Mason Thorson Extension levee and continue to monitor the levee.
- Began work to characterize the geomorphology, hydraulics, hydrology, habitat conditions, and land use influences on the Middle Fork.



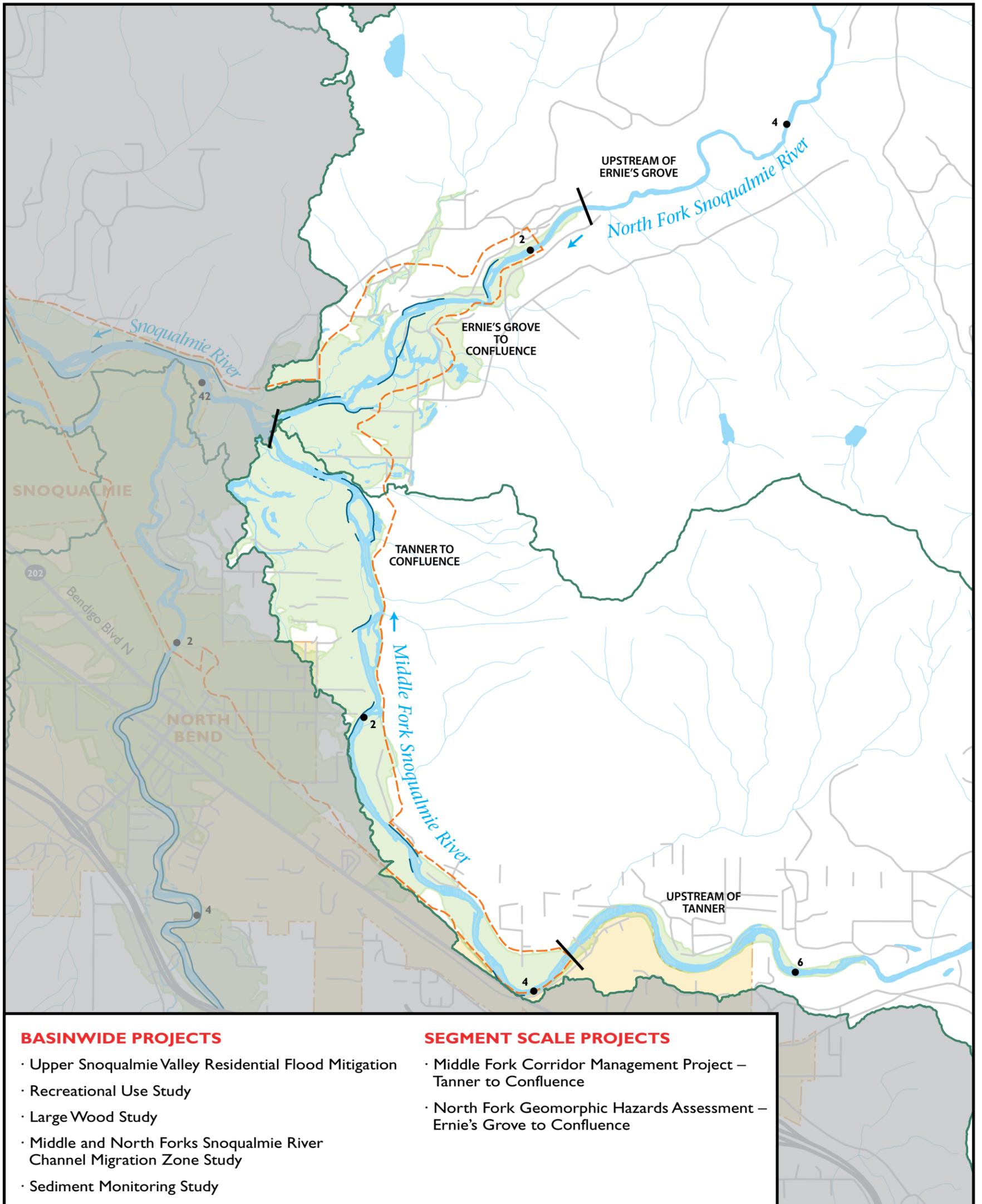
Recent repair work on Mason Thorson Extension Levee

Proposed river and floodplain management actions for 2013-2018:

- Study the type and extent of recreational river use to make sure we address project impacts on recreational safety throughout the upper basin.
- Study the amount, distribution and effects of large wood on flooding and channel migration basinwide.
- Prioritize and implement home relocations and acquisitions.
- Analyze flood, erosion and channel migration risks and plan actions to address flooding and geomorphic hazards cost-effectively while maximizing environmental benefits in the Middle Fork.
- Identify geomorphic processes, hazards and risks to residential development, infrastructure and flood protection facilities for the lower 2.5 miles of the North Fork.
- Update channel migration mapping for North and Middle Forks Snoqualmie River.

Questions? Please call 206-296-8001
or email WLR-rivers@kingcounty.gov.

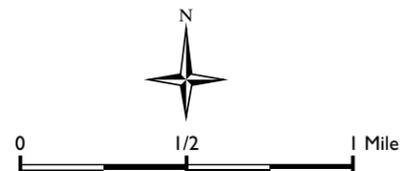
Translation services and
alternate formats available
Call 206-296-6519 or TTY:711



MIDDLE AND NORTH FORKS SNOQUALMIE RIVER

KING COUNTY FLOOD HAZARD MANAGEMENT PLAN

- Proposed Project Sites, as described in Chapter 5 (Project locations are approximate)
- NAME River Segment Boundary and Segment Name
- Rivers and Streams with FEMA Mapped 100-Year Regulatory Floodplains
- Rivers and Streams with Unmapped Regulatory Floodplains
- Flood Protection Infrastructure (Levees & Revetments)
- Outer Boundary of Channel Migration Hazard Zones (Moderate & Severe)
- 2 River Miles (Approximate)
- Watershed/Basin Boundary
- Road
- Incorporated Area




King County
 Department of
 Natural Resources and Parks
Water and Land Resources Division

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Data sources: King County datasets
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