



RAGING RIVER

King County Flood Hazard Management Plan Update

Flood damaged house upstream of I-90, Nov. 2006

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

Segments above Fall City:

- Restore natural river processes wherever possible to reduce the long-term costs of managing flooding and erosion and to restore salmon habitat.
- Acquire at-risk properties.
- Remove facilities so the river can migrate naturally and reconnect to its floodplain where no houses or roads are at risk.
- Protect important public transportation corridors like the Preston-Fall City Road.

Fall City Segment:

- Maintain the current level of flood protection for Fall City.
- Explore the possibility of setting levees farther back from the river to allow more room for natural channel processes and sediment deposition and storage, and reduce flooding.
- Partner with habitat recovery advocates on flood management projects with multiple goals.
- Work with King County Roads and the Washington State Department of Transportation to improve flood conveyance and reduce erosion by exploring options to alter roads and bridges.

Existing conditions of the Raging River basin:

- The Raging is a narrow, steep tributary of the Snoqualmie; it has some of the highest channel migration rates in King County.
- The homes and mobile home park above Interstate 90 are at risk from channel migration.

continued on back



Site of house upstream of I-90 following buyout and removal

Existing Conditions continued

- The base (toe) of the riverbank slope at Preston-Fall City Road is at risk, threatening the stability of the road.
- At the river's confluence with the Snoqualmie (in Fall City), levees limit channel migration and provide limited flood protection to homes and businesses, but are subject to flood damage.
- The basin provides important habitat for Chinook and coho salmon and steelhead.

King County Flood Plan accomplishments 2006-2012:

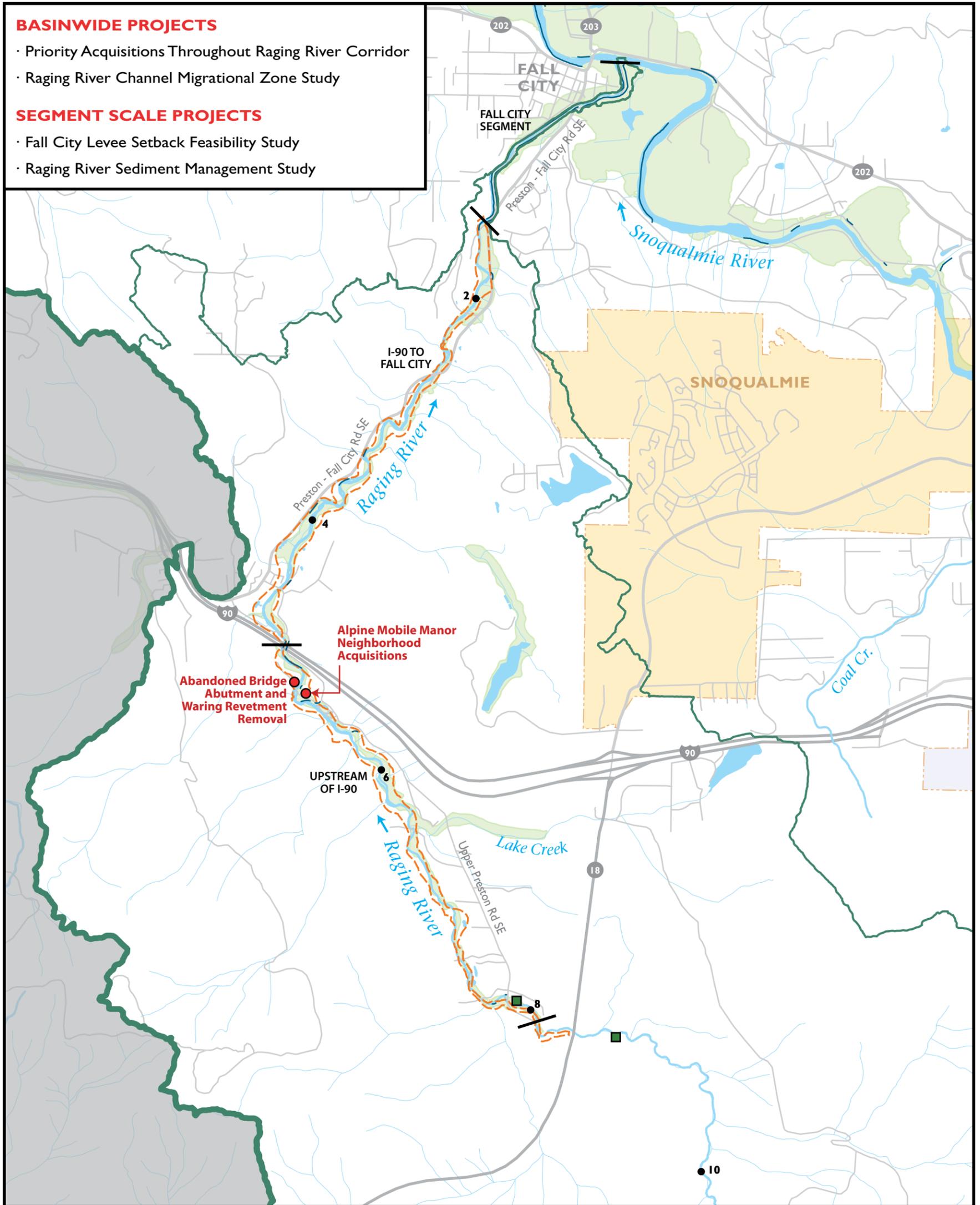
- Acquired five homes and eight acres in Alpine Mobile Manor neighborhood to reduce flood risks.
- Repaired the following facilities: Arruda, Bryce, Bridge to Bridge Left (two repairs), Bridge to Bridge Right, Bridge to Mouth Right, and Preston Fall City Lower.
- Removed more than 1,000 linear feet of the Carlin Levee to allow restoration of natural river processes in the river segment between Interstate 90 and Fall City.

Proposed river and floodplain management actions for 2013-2018:

- Basinwide, purchase and remove homes from high flood and erosion hazard areas and allow habitat restoration in those locations.
- Conduct channel migration mapping of the Raging River.
- In the Alpine Mobile Manor neighborhood upstream of Interstate 90 — an area at high risk from flooding and erosion — offer to buy homes and the mobile home park. Over the long term, remove facilities that armor the bank and restore habitat.
- Once affected properties are bought and demolished, remove the Waring Revetment and the abandoned bridge abutment near Alpine Mobile Manor.
- Analyze possible levee setback projects in Fall City's leveed river segment that would make more room in the channel for floodwaters and sediment, and would address flood/erosion risks near Fall City.
- Continue gravel monitoring and implement gravel management actions if appropriate in the leveed segment of the Raging River.

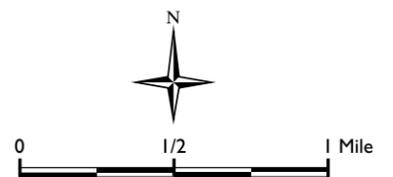
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RAGING RIVER
KING COUNTY FLOOD HAZARD MANAGEMENT PLAN

- Proposed Project Sites, as described in Chapter 5 (Project locations are approximate)
- Outer Boundary of Channel Migration Hazard Zones (Moderate & Severe)
- 2 River Miles (Approximate)
- WRIA Salmon Recovery 3-Year Work Plan Project Sites
- Watershed/Basin Boundary
- Road
- Incorporated Area
- 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)



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Data sources: King County datasets
File name: 1206_2636fhmp58RAGING.ai wgab