



The Middle Green River and Green Valley Road

GREEN RIVER

King County Flood Hazard Management Plan Update

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

- Maintain and repair levees on the Lower Green River to address under-designed levee segments and improve flood protection by reconfiguring levees (in many cases setting them back) to achieve stable slope geometry and a less constrained channel.
- Continue to maintain and repair existing flood protection facilities as needed in the short term without compromising opportunities for longer-term solutions.
- Explore opportunities to widen the river corridor for more stable levees and improved habitat and recreational benefits, and to reduce long-term maintenance.
- Evaluate the possibility of acquiring and removing at-risk structures. Where these actions are needed, we will coordinate them with agricultural and habitat restoration plans, programs, and projects.

Existing conditions in the Green River basin:

- Howard Hanson Dam is a major flood control feature no longer expected to provide 500-year protection, given current understanding of flood likelihood and volumes.
- Levees and revetments are nearly continuous along the Lower Green and Duwamish Rivers, with heavy commercial and industrial development through Auburn, Kent, Tukwila and Renton. These structures have steep banks and are poorly reinforced at their base (toe); failure would have serious consequences.
- The basin's vital levee system is of uncertain origin and construction and doesn't meet current flood protection standards.
- The Middle Green River Basin, where land use consists largely of rural homes and farms, faces hazards from inundation and channel movement under flood conditions. Levees were constructed here to direct flows, but they are scattered, discontinuous and deteriorating, and were not designed to contain floodwaters.



The Briscoe Levee between Kent and Tukwila

King County Flood Plan accomplishments 2006-2012:

Capital projects and levee repairs:

- Completed 12 projects between 2006 and 2011.
- Rebuilt over 15,400 feet of levees.
- Includes critical levee repairs to protect public infrastructure and commercial and industrial sites in the Lower Green River Valley.

Engineering and design:

- Completed a flood Insurance study, the basis for a flood map appeal joined by the cities.
- Completed the 180th – 200th Street Levee Setback Feasibility Study (Kent/Tukwila).
- Completed the Reddington Levee Setback and Extension Feasibility Study (Auburn).
- Produced the Green River External Advisory Review Panel Report (under “Flooding Documents” at www.kingcounty.gov/floodservices).

Land and right-of-way acquisitions:

- Acquired 36.6 acres and 0.92 miles of shoreline at the Teufel Nursery Site in Kent for future mitigation and habitat restoration projects.
- Acquired the right-of-way for a 6,600 foot levee setback project (Reddington).

Emergency response to 2009 problems at Howard Hanson Dam:

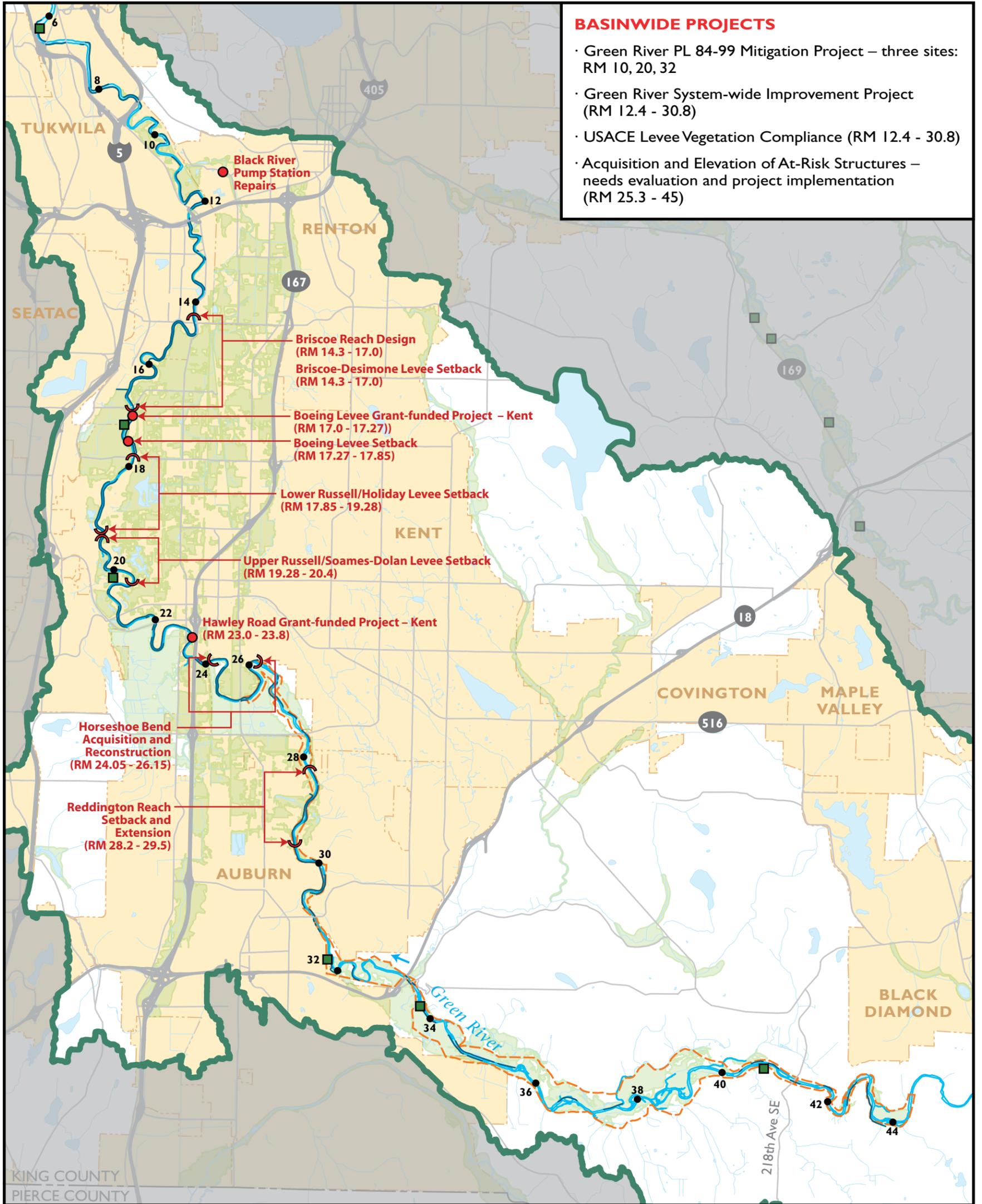
- Installed 26 miles of giant sandbags on the Green River levee system.
- Made improvements to the pump station.
- Trained flood patrols, coordinated regional efforts, and invested in communication equipment.
- Provided extensive public outreach and education.

Proposed river and floodplain management actions for 2013-2018:

- Provide increased flood protection and improved habitat through a major levee setback and extension project at Reddington Levee in Auburn.
- Rehabilitate and reconstruct the most crucial levee reaches along the Lower Green River to achieve setbacks and stable slope angles. High priority levees include Briscoe/Desimone, Boeing, Lower and Upper Russell Road, and Horseshoe Bend.
- Update and maintain the aging Black River Pump Station.
- Assess the need to acquire or elevate at-risk structures in areas unprotected by levees and implement some of these projects as needed.

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

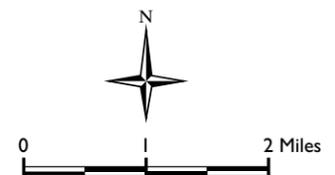
Translation services and
alternate formats available
Call 206-296-6519 or TTY:711



GREEN RIVER

KING COUNTY FLOOD HAZARD MANAGEMENT PLAN

- Proposed Project Sites, as described in Chapter 5 (Project locations are approximate)
- ↪ Extent of Reach-based Project
- ▬ 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)
- WRIA Salmon Recovery 3-Year Work Plan Project Sites and Reaches
- 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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