



King County

King County Flood Control District Basin Technical Committee

August 20, 2012

Protecting public safety, the regional economy and critical infrastructure.

Overview

- August 22 Advisory Committee Recommendations:
 - 2013 Operating Budget
 - 2013 Capital Budget and CIP
 - Watershed Management?

- Future Advisory Committee Discussions:
 - Plan update issue papers
 - Action plan updates
 - Financing options

2013-4 Proposed Operating Changes (\$1.75M increase from \$8.3M to \$10.1M)

- No proposed change to FTE count (40)
- Corps PL 84-99 Levee Vegetation Compliance (2013-4 only) \$500,000
- Green River Pump Station fuel increase (2013 only) \$185,000
- Green River Pump Station operations costs (2013-4 only) \$300,000
- Levee Vegetation Tree Root Strength study, Recreational Use Study (2013 only) \$160,000
- **Communications for capital projects (MWH report) \$75,000**
- **Capital Project Recreational Safety Support (MWH report) \$75,000**
- **Sammamish River channel maintenance (2013 only) \$450,000**



Sammamish Transition Zone

Black River Pump Station



Sammamish River Corps Flood Control Project - Transition Zone

- 2011 Flood Reduction Work Plan to reduce impacts on lakeside properties
- Mowing Reed Canary grass and trim Willows and maintain buffer
- Monitoring – increased gages and flow measurement:
 - Approx. 0.4 Ft reduction in Lake level for 700cfs (28.0 Ft. NGVD)
- Sediment Removal Study – 0.1-0.2 ft reduction potential
- Estimated Cost:
 - \$450,000
 - Timing: 2014 at earliest, depending on permits
- Willowmoor Conveyance Project Status and timing:
 - @\$4M capital project
 - Feasibility work starting now, timeline TBD



2013-2018 Approach to CIP Adjustments

- CIP revisions made based on risk, readiness, and investments to date:
 - Areas at high-risk must be a priority (Briscoe, City of Pacific)
 - Contractual or permit commitments (Seawall, Coal Creek, Black River Pump Station)
 - Grants in hand (Countyline, Reddington, Briscoe)
 - Respect landowner discussions to date – don't lose opportunity (Aldair, Sans Souci)
 - Design progress and investments (Middle Fork Snoqualmie, Reddington)
- Proposed Deferrals:
 - Landowner willingness to be determined (Timberlane, Alpine Manor)
 - Project feasibility proposed, future construction needed (several lower Cedar levee setbacks)
 - Most acquisitions complete, defer construction (Tolt levee breach site)
 - Cost-sharing multi-objective projects (Green River Boeing Corps project; Cedar Riverbend Mobile Home Park)
 - Major impacts are Snoqualmie and Cedar
 - Reductions are to projects that score from 66% to 89% for flood risk out of 100%

If updated revenue projections create additional capacity in CIP, preferentially restore funding to projects currently proposed for deferral



Snoqualmie/ South Fork Skykomish Basin

-  River/Stream
-  Other Basin Boundaries
-  Lake
-  Incorporated Area
-  Snoqualmie/S. Fork Skykomish Basin



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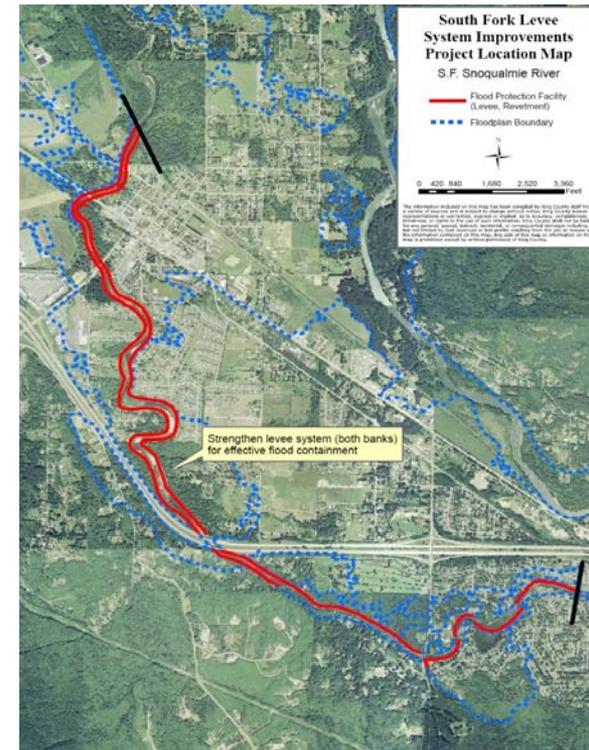
Upper Snoqualmie CIP Highlights

Middle Fork Conveyance Improvements

- Corridor Management Project
- Improve alignment and functioning of levees
- Combination of levee retrofits and buyouts
- Construction in 2014

South Fork Levee Improvements

- Rebuild highest priority levee segments along 5 miles of levees to address geotechnical and flooding concerns
- Construction in 2014-15



Raging and Tolt Rivers: CIP Highlights

Several buyout projects

- San Souci (Tolt)
- Acquisitions in 2013 to work with willing landowners
- Alpine Manor (Raging) - delayed

Tolt River “Supplemental Study”

- Corridor plan to determine highest priority levee retrofit and property acquisition needs
- Partnership with WRIA 7 as high priority salmon river



Lower Snoqualmie: CIP Highlights

Projects to mitigate flood impacts on farmlands

- Farm pads, barn elevations
- Home elevations



Aldair/ Fall City Area Buyouts

Large revetment

retrofits/ repairs

- Sinnera Quaale Upper (2014 construction)
- Winkelman /Tolt Pipeline Protection (2015 construction)



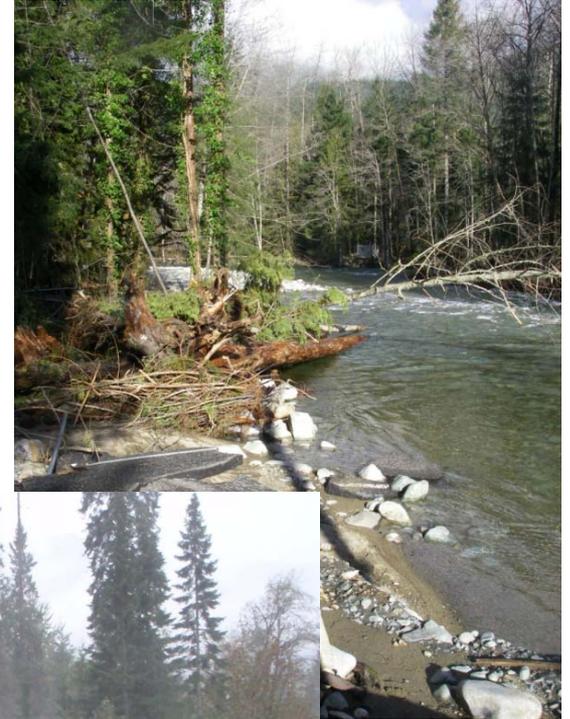
S. Fork Skykomish : CIP Highlights

Timberlane Village

Buyouts – delayed to
2016

Miller River Road Protection

- Coordinate river facility maintenance or removal with King County Roads decision on Old Cascade washout



Snoqualmie 2013-8 Reductions Compared to 2012 Adopted CIP

- Tolt River levee construction delayed, focus on acquisitions and corridor study (66%-84% flood risk scores)
- Reduced funding for Tolt River Natural area acquisition (66% flood risk score)
- Alpine Manor MHP (Raging)— no willing seller at this time (76% flood risk score)
- Timberlane Village (SF Skykomish) – delay until 2016 (76% flood risk score)
- Reduced funding for Residential Flood Mitigation in Upper and Lower Snoqualmie



Cedar River Basin

-  River/Stream
-  Other Basin Boundaries
-  Lake
-  Incorporated Area
-  Cedar River Basin



Renton 205 Project: Renton Airport



February 1996
Flood peak 7520 cfs in Renton

- 2013-4 construction
- Dredging channel to maintain capacity



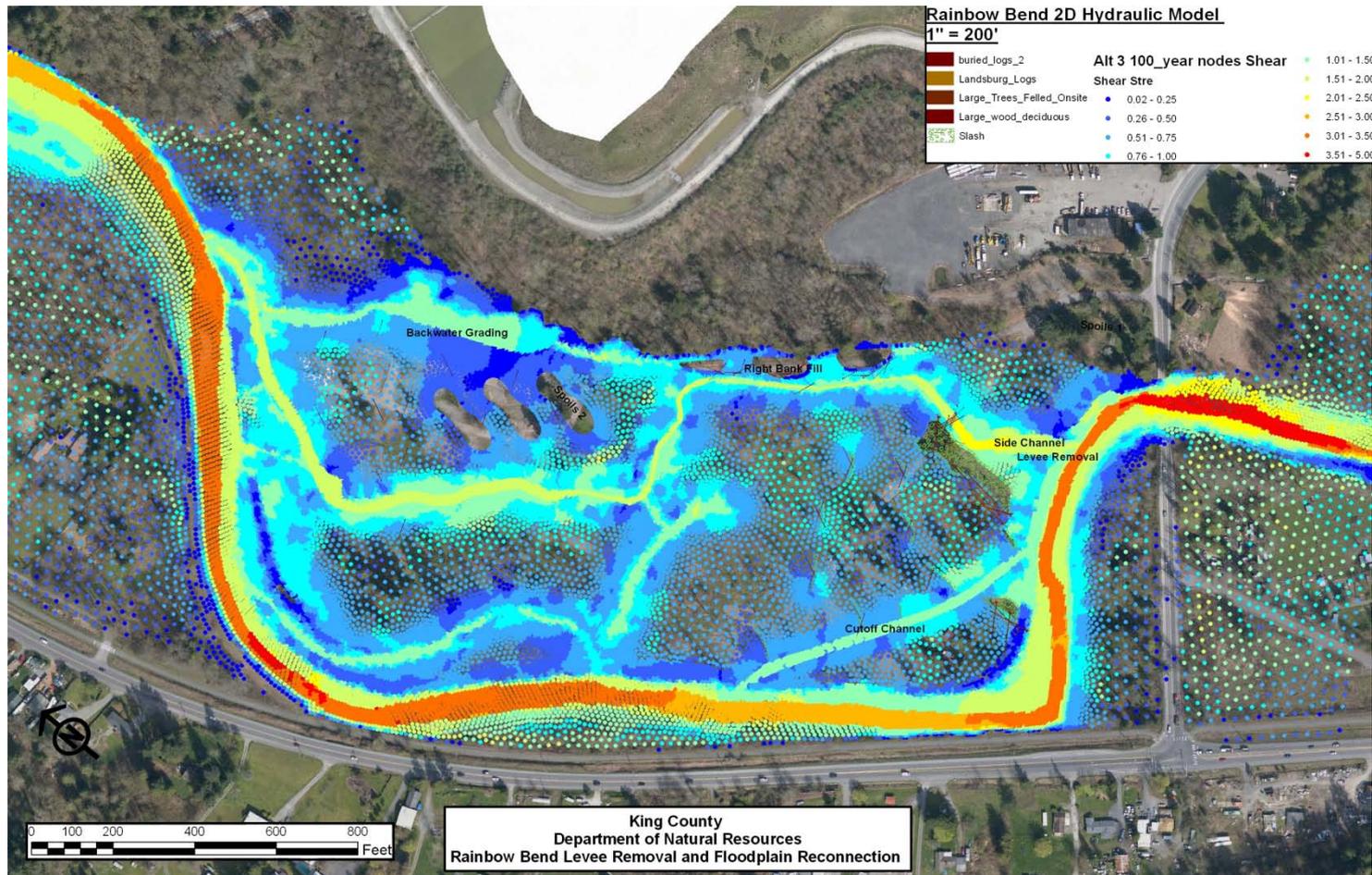
January 2009
Flood peak 9470 cfs in Renton

Belmondo Revetment (2012-3 Construction)



- Channel migration area
- Gravel bars & wood
- Severe bank erosion
- Infrastructure at risk
- FEMA funding

Rainbow Bend Floodplain Reconnection (2013 Construction)



Elliott Reach Restoration Potential (WSDOT Partnership, 2014 Construction)



Cedar - Riverbend MHP Acquisition

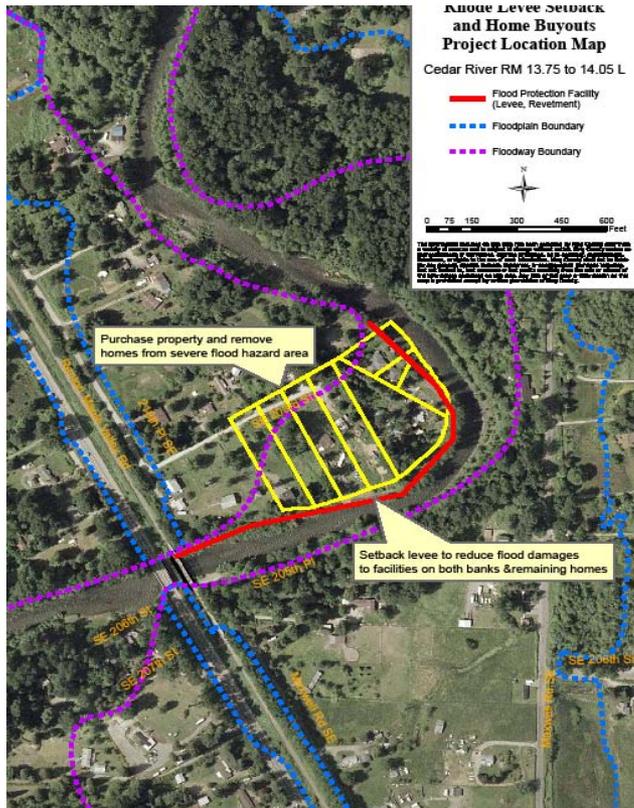
- 1990 flood emergency repair
- Channel migration and flood risks over portions of property
- Priority for habitat and open space as well
- Willing seller
- @ \$12 million total cost: \$6M acquisition, \$6M relocation
- Propose cost-share of \$3M
- Evaluate options to phase costs over time



Other Lake Washington Projects

- Coal Creek – City of Bellevue (71%)
 - 6 year CIP cost \$8.4M (2015-16 Construction)
- Lyons/McAleer Creek – City of Lake Forest Park (71%)
 - 6 year CIP cost \$1.0M
 - Leverage FEMA grant (3:1 match)

Cedar River 2013-8 Reductions Compared to 2012



- Rhode Levee Setback (71%)
- Maplewood Levee Setback – Phase 2 (84%)
- Lower Jones Rd. levee setback (79%)
- Acquisition of At-Risk Homes (Dorre Don / Byers Bend) (79%)





White River Basin

-  River/Stream
-  Other Basin Boundaries
-  Lake
-  Incorporated Area
-  White River Basin



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Pacific Right Bank

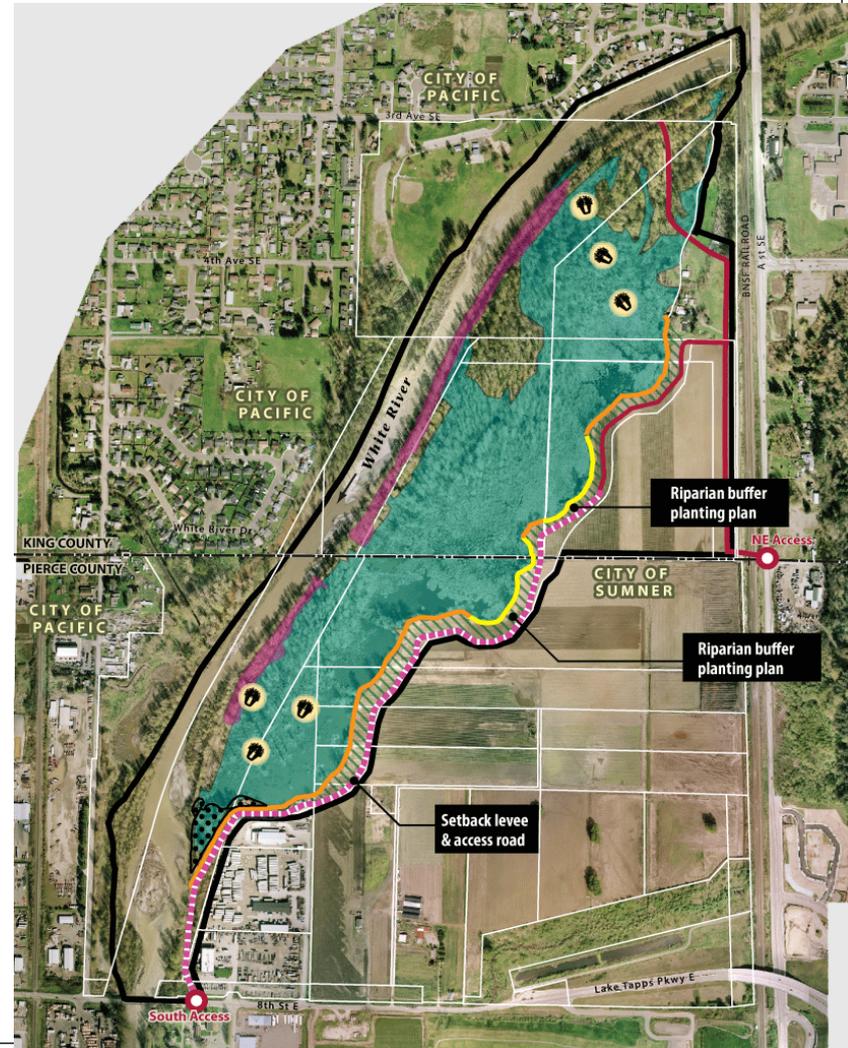
- Temporary HESCOs installed
- 7 acre agricultural property
- 2 residential parcels along 3rd Place SE
- 5 relocations & 6 demolitions White River Estates
- Additional parcels to acquire south of White Ri. Estates
- 1 pending acquisition in White Ri. Estates
- Right Bank Setback levee (construction 2016-7)

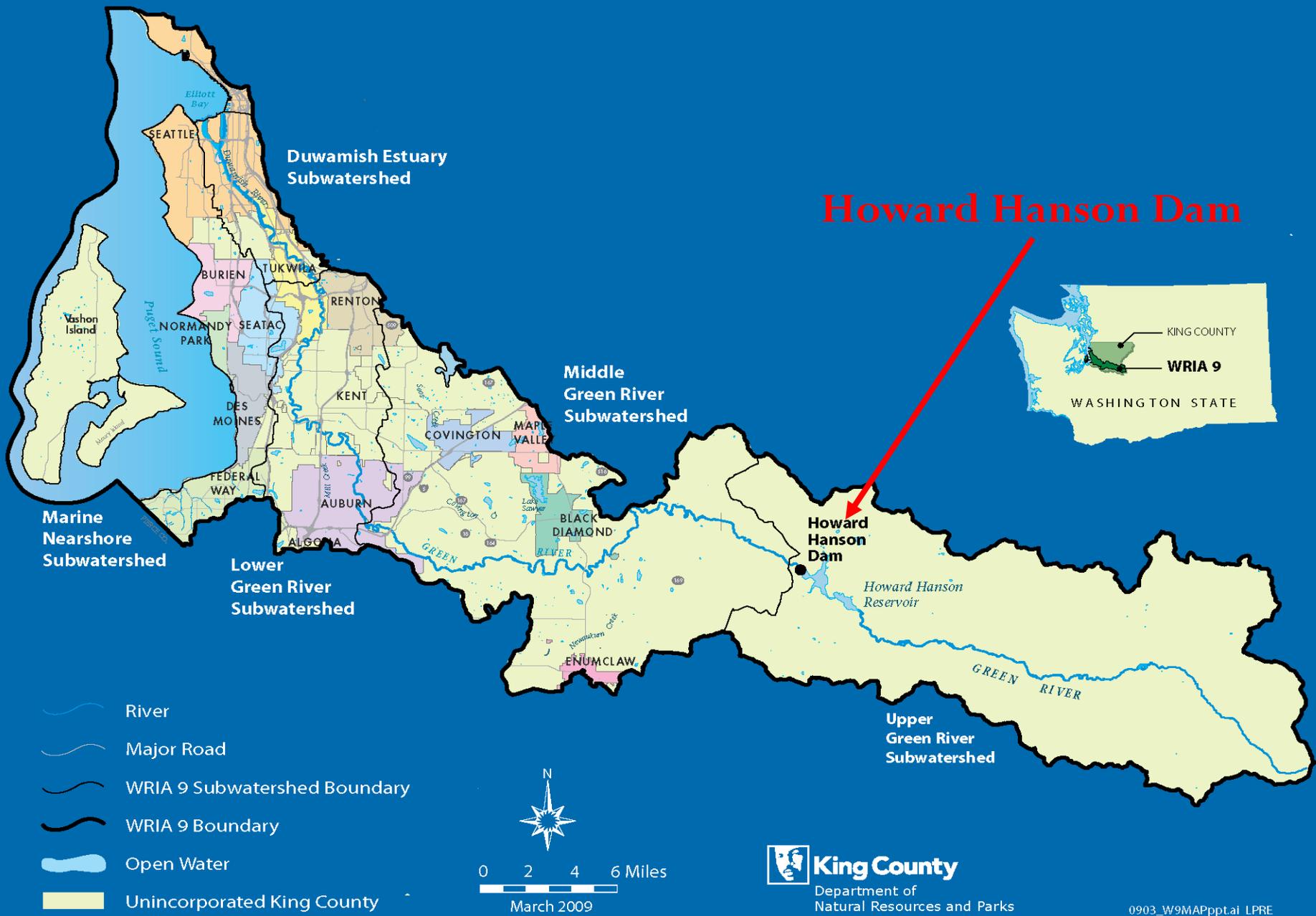


Countyline to A-Street Levee Setback

Countyline levee setback

- Acquisition
- Preliminary design
- Technical analyses
- Construction (2014-15)
- Cost increase due to land and extended levee length
- Bridge constriction at 8th St. E. continues to be an issue

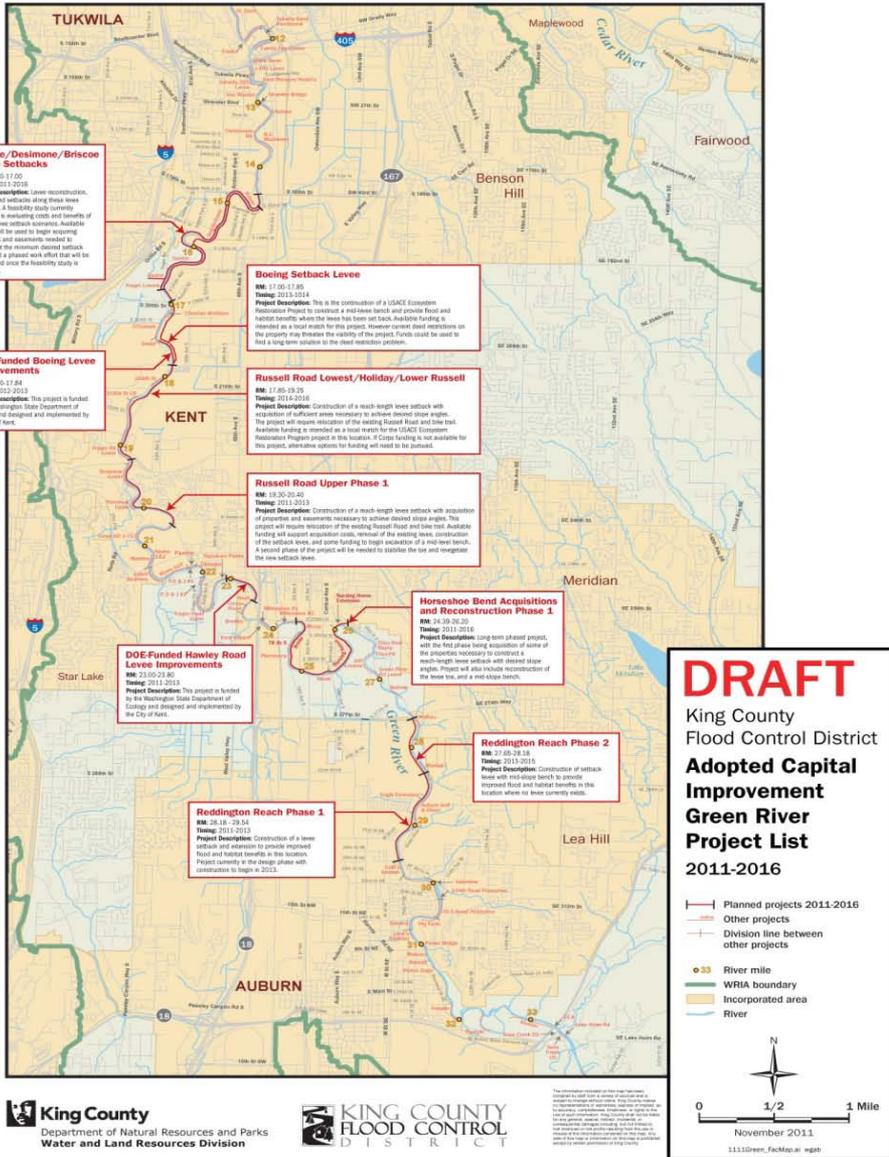




King County
 Department of
 Natural Resources and Parks

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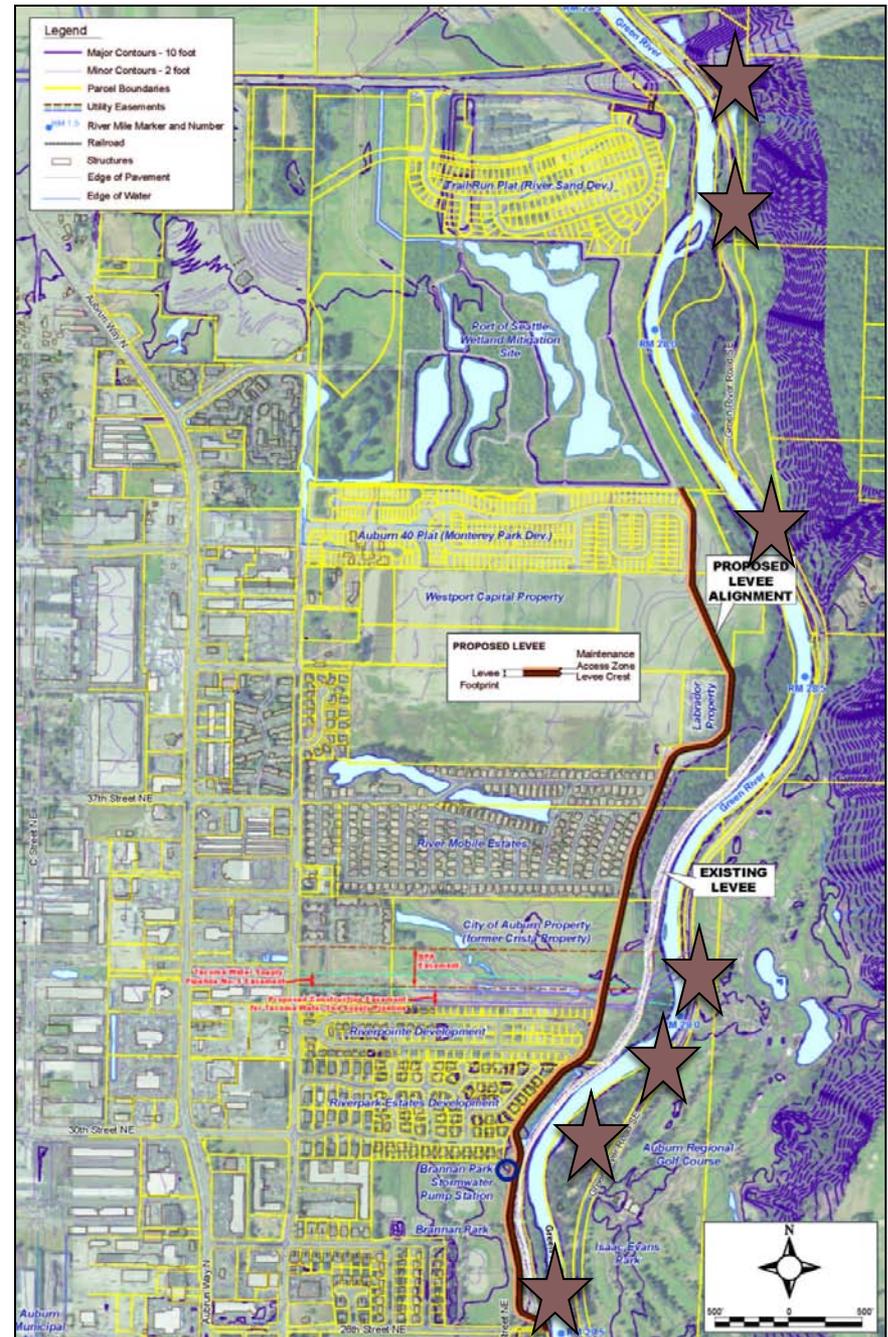
Green River Proposed Actions



- Primarily consist of levee reconstruction, repairs and setbacks with the inclusion of “benches” to facilitate repairs and accommodate habitat.
- First project to be initiated is the Reddington Levee Setback and Extension.
 - First phase to start construction in 2013
 - Length of the project: 1.3 Miles
 - Received \$1.03 million in State funding to help with the project.
- Significant investments at 180th-200th, Upper Russell, and Horseshoe Bend
- Project deferrals as a result of sandbag removal costs
- Third-Party Review regarding project approach in constrained sections of river

Reddington Levee Setback and Extension Project - 2013

- 6,600 feet of new levee construction
- 4,750 feet of existing levee to be removed
- \$12 million est. construction cost
- \$1 million state grant
- Auburn offers use of 7 city properties

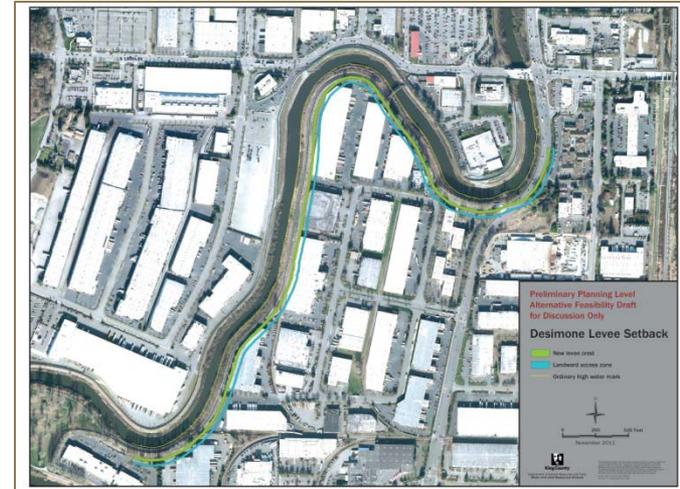


180th – 200th St. Reach Setback Levee

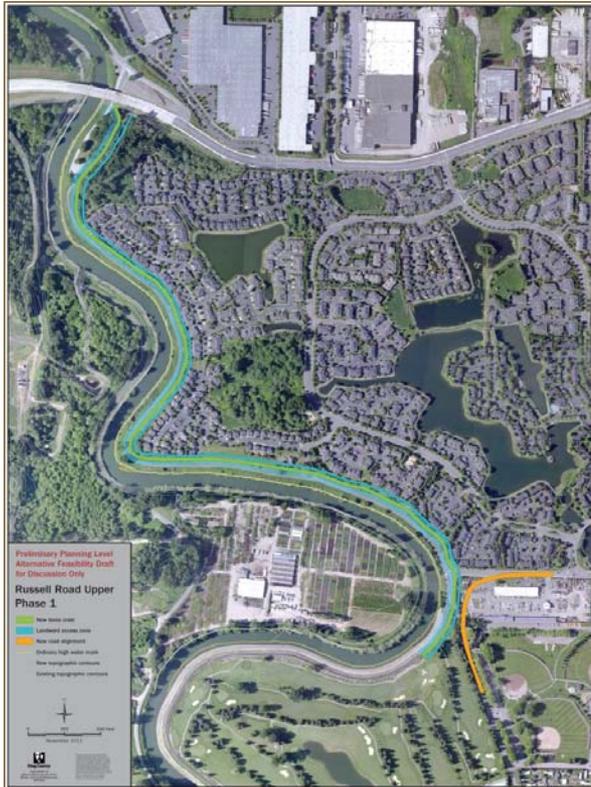
Briscoe/Desimone

RM: approximately 14.30-17.00

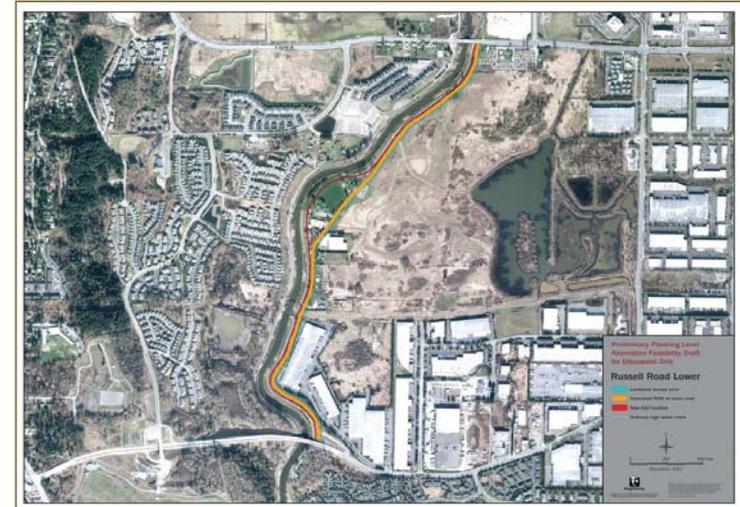
- Setback levees in adopted Flood Plan
- Floodwalls proposed by City of Kent
- 3rd party review
- Timing: Oct. 2012



Green River 2013-8 Reductions Compared to 2012



- Russell Rd.
Upper Levee
Setback (76%)
- Russell Rd.
Lower/Holiday
(76%)
- Boeing Levee
USACE ERP
match (95%)



Watershed Management

- Larger regional discussion on-going about KCD
- \$3M per yr + \$300K Opp Fund = \$3.3M cost
- Levy increase impact of \$3.78 on \$350K home (2013)
- Less than the \$5 parcel assessment under prior model for WRIAs
- Impact is \$5.04 if 2013 funded and 2012 reimbursed over 2013-2015



Stewardship

Habitat Restoration



Habitat Restoration



Questions for 8/22 Advisory Committee

- Do you support the 2013 operating budget proposal?
 - Sammamish Sediment Removal
 - Capital project support: Communications and Recreational Safety design
- Do you support the 2013 capital budget and 2013-2018 capital project list?
- Do you support a levy rate increase to 'pay back' the \$3M spent in 2012 on WRIA grants?
- Do you support funding for the watershed management grant program in the future?
 - If so, would you support a levy rate increase to offset the cost?