

# TOLT RIVER CORRIDOR PUBLIC MEETING

Monday, December 12<sup>th</sup>, 2016  
6:30 – 8:45 pm  
Tolt Middle School, Commons Room

**Purpose:** *Share updated information about flood risk and habitat conditions. Get community feedback on proposed solutions included in the draft Tolt River Corridor Capital Investment Strategy.*

- 6:30 – 7:00**    **Open House (join county staff to view flood maps and draft Capital Investment Strategy)**
- 7:00 – 7:10**    **Welcome & Introduction**
- 7:10 – 7:20**    **Presentation: Corridor Planning Update and Key Problem Areas**
- Share results of flood/erosion risk analysis and identification of problem areas
- 7:20 – 7:25**    **Community Feedback Discussion**
- Do the problem areas identified make sense to you?
- 7:25 – 7:40**    **Presentation: Moving Forward - Draft Capital Investment Strategy**
- Share proposed solutions (and sequencing) to reduce flood risk and restore habitat
- 7:40 – 8:00**    **Community Feedback Discussion**
- Are these the right approaches for the problems identified?
  - Are they sequenced right? If not, what would you change?
  - Do you have other concerns or questions about the draft Capital Investment Strategy?
- 8:00 – 8:10**    **Next Steps for the Capital Investment Strategy**
- County staff shares public feedback with the Flood Control District (FCD)
  - FCD finalizes Capital Investment Strategy Report
  - Begin project implementation, including ongoing public engagement
- 8:10 – 8:15**    **Community Feedback Discussion – Final Comments**
- 8:15 – 8:45**    **Adjourn and Resume Open House**



# TOLT RIVER CORRIDOR

## CAPITAL INVESTMENT STRATEGY

**DRAFT**

The Tolt River basin drains 100 square miles, with headwaters in the Cascade Mountains. The lower six miles of the river flows through rural residential areas and the City of Carnation. Nearly continuous levees border the river along the lower two miles as it passes through Carnation. Upstream of this leveed reach, the river is largely unconstrained with significant channel migration and deep and fast flows. The lower Tolt River is also high priority for habitat restoration for ESA-listed salmon.



### Summary of Risk:

Under existing conditions, for a 100-year flood event, the following risks are present:

- 32 residences inundated
- 64 homes isolated by road flooding
- 21 residences subject to deep/fast flows
- 2 miles public roadway inundated



### Summary of Risk Reduction Strategy:

Below is a draft sequenced action plan for implementing risk reduction efforts in the Tolt River Corridor. The project sequence reflects current information on urgency, severity, consequence, responsibility or authority, and funding or partnership opportunities.

The current adopted 2016-2021 King County Flood Control District (FCD) CIP budget includes:

- \$1.0M for Tolt levee repairs
- \$1.6M for Snoqualmie Trail Bridge to SR203 acquisitions
- \$1.7M for San Souci acquisitions, road elevation, and revetment removal
- \$2.9M for Natural Area acquisitions
- \$8.2M for Tolt Corridor Implementation (specific projects TBD)

*NOTE: "Other" funding includes state, federal and county funding sources.*

PROJECT	PROBLEM	APPROACH	COST ESTIMATES
<b>Efforts Underway</b>			<b>(Funded Projects - 2016 CIP)</b>
A. Tolt River Levee Repairs	Erosion damage to Lower Frew, Upper Frew, Remlinger, and Girl Scout levees.	Monitor, design, and construct repairs if erosion begins to threaten levee integrity at any of four sites.	TOTAL: \$1.0M FCD: \$1.0M
B. Snoqualmie Trail Bridge to SR203 Bridge Property Acquisitions	Levees overtop or breach, inundating or damaging homes, roads (including SR203) and land proposed for development.	Acquire two remaining at-risk residences and vacant acreage to reduce risk and allow for future levee setbacks on both river banks.	TOTAL: \$1.6M FCD: \$1.6M
C. San Souci Reach Improvements and Road Elevation	San Souci reach threatened by lateral erosion, avulsion, flooding and landslides; Tolt River Rd NE overtops at 2-year flood isolating 40 homes.	Combines 3 projects: 1) acquire three remaining at-risk residences; 2) feasibility, design, and construction to remove illegal revetment, roads in San Souci neighborhood; 3) feasibility, design and construction to elevate Tolt River Road NE.	TOTAL: \$2.26M FCD: \$1.68M OTHER: \$580K
D. Tolt Natural Area Property Acquisitions	Multiple properties at risk in high flood hazard areas, including lateral erosion, avulsion, and potential levee breach.	Acquire 5 remaining at-risk residences ( <i>BUDGET NOTE: need to reallocate approximately \$800K to 2017 from out years</i> ).	TOTAL: \$4.4M FCD: \$2.9M OTHER: \$1.5M
<b>Proposed Near Term Actions for 6-year CIP</b>			<b>(Unfunded Projects - \$8.2M current placeholder)</b>
E. Lower Frew Levee Setback Design and Construction (Phases 1 and 2)	Levee overtops between 2- and 5-year flows, impacting SR203 and properties in City of Carnation. Levee impacts habitat.	Design and construct levee setback to increase sediment storage and floodwater conveyance; protect future development; reduce SR203 flooding and damages. County owns footprint; could expand.	TOTAL: \$17.5M FCD: \$5M (\$755K in 2017 for design)* OTHER: \$12.5M
F. Sediment Management in Leveed Reach Feasibility Study	Sediment accumulation increases levee overtopping and potential failure. Sediment redirects flow into levees causing erosion.	Conduct sediment management feasibility study. If feasible and warranted, develop and implement sediment management plan.	TOTAL: \$500K FCD: \$500K
G. Rio Vista Property Acquisitions	Multiple properties at risk in flood hazard areas including deep and/or fast flows; landslide hazards can exacerbate flooding.	Acquire 15 remaining at-risk residences.	TOTAL: \$5.6M FCD: \$1.3M* OTHER: \$1.2M (in past)
H. Upper Frew Levee Setback Design (Phase 1)	Levee overtops between 10- and 25-year flows; levee directs flow and debris into trail bridge causing damage; potential flooding of adjacent residential area at 500-year flow.	Design levee setback to increase sediment storage and floodwater conveyance; protect adjacent development; reduce damage to trail bridge. City/county own footprint.	TOTAL: \$1.5M FCD: \$445K* OTHER: \$1M
I. Tolt River Road NE Improvements	Five sites flood between 10- and 100-year flows; at 100-year event 64 upstream homes are isolated by flooded roads.	Feasibility, design and construction of road elevation projects at frequently inundated locations to reduce or eliminate isolation (to proceed in phases)	TOTAL: \$2.5M FCD: \$.5M* OTHER: TBD
J. Acquisitions to Support Levee Setbacks in Leveed Reach	Levees provide varying levels of protection and are vulnerable to failure; homes and land uses behind levees are at-risk.	Acquire properties if owners decide to put on market; focus on essential parcels for future setbacks in medium and long term timeframe.	TOTAL: \$3.5M FCD: \$.5M* OTHER: TBD
<b>Proposed Medium Term Actions</b>			<b>(Unfunded Projects)</b>
K. Upper Frew Levee Setback Construction (Phase 2)	Levee overtops between 10- and 25-year flows; levee directs flow and debris into trail bridge causing damage.	Construct levee setback. Add bridge spans under trail to provide connectivity between Lower and Upper Frew levee setbacks.	TOTAL: \$15M - \$18M FCD: TBD OTHER: TBD
L. SR 203 Bridge Improvements Feasibility Study	SR 203 approach (fill) blocks flood flows. Highway overtops north of bridge and is subject to erosion and damage.	Study (with potential future design/construct) to add bridge span(s), raise the highway and relocate KC Parks parking area downstream of SR 203.	TOTAL: \$300K FCD: \$300K OTHER: TBD
M. Levee Setbacks	Levees provide varying levels of protection, are vulnerable to failure, adversely impact habitat. County owns portions of footprint.	Feasibility, design, and construction of setbacks at three levees: Left Bank Downstream SR 203, Highway to Trail Bridge, and Girl Scout Camp.	TOTAL: \$35M - \$45M FCD: TBD OTHER: TBD
<b>Proposed Long Term Actions</b>			<b>(Unfunded Projects)</b>
N. Levee / Revetment Setbacks and Improvements	Levees / revetments provide varying levels of protection and impact habitat.	Feasibility, design and construction of 3 potential setback projects at Remlinger levee (west end), Holberg levee and Edenholm levee/revetment.	TOTAL: TBD FCD: TBD OTHER: TBD
O. Private Revetment Removal or Improvements	Existing privately constructed rock revetments provide varying levels of protection and impact habitat.	Remove or modify revetments to improve protection and/or reduce adverse impacts.	TOTAL: TBD FCD: TBD OTHER: TBD

## Project Area

The Tolt River Corridor Capital Investment Strategy focuses on a six-mile stretch of the lower Tolt River, upstream from the confluence of the Tolt and Snoqualmie rivers near the City of Carnation. The study area extends to the end of Tolt River Road Northeast/361st Avenue Northeast.

## Background

This section of the Tolt River has significant flood and erosion hazards and is a high priority for salmon habitat restoration. There are homes, businesses, and farms adjacent to the river in this six-mile area. The purpose of the Tolt River Corridor Capital Investment Strategy is to update information King County has about the existing physical conditions of the river and share potential actions to restore natural river processes, maximize flood safety, and reduce the costs and impacts of flood and channel migration hazard management along the lower Tolt River. Costs and benefits of potential actions will be evaluated, and with community input, a preferred corridor approach will be selected.

## Corridor Planning Goals (Adopted March 2015)

Goal 1: Reduce risks from flood and channel migration hazards.

Goal 2: Reduce long-term costs of flood hazard management.

Goal 3: Incorporate stakeholder and community input into Corridor Planning process.

Goal 4: Improve salmonid habitat and restore natural river processes.

## Contacts

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**This project is sponsored by the King County Flood Control District and the Snoqualmie Watershed Forum.**

