Tolt River Corridor
Draft Capital Investment Strategy
Public Meeting

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Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section
Tonight We’ll Talk About

Planning Update and Key Problem Areas
• Corridor planning goals and update
• Existing conditions and problem areas
• Potential tools

Draft Capital Investment Strategy
• Overview
• Efforts underway
• Potential solutions

Next Steps

January 2015
Tolt Corridor Planning Goals

• Reduce risks from flood and channel migration hazards

• Reduce long-term costs of flood hazard management

• Incorporate stakeholder and community input into the corridor planning process

• Improve salmonid habitat and restore natural river processes

Adopted by King County Flood Control District (March 2015)
Tolt Corridor Planning Process

Public Input

Existing Conditions and Potential Tools

Identified Problem Areas

Draft Solutions

Capital Investment Strategy
Where We Are In The Planning Process

- Existing conditions: Completed
- Goals: Adopted
- Public input: Completed
- Draft Capital Investment Strategy: In Process
- Public Input: Here now!
- Finalize Capital Investment Strategy: 2017
Tolt River Corridor Planning Area
Key Hazards

• Flooding
  – Deep and fast flow areas

• Channel Migration
  – Erosion
  – Avulsions
  – Levee/revetment breach

• Landslides
Alluvial Fan Reach Risks

- Public safety
- Private residences and businesses
- Key transportation infrastructure
- Developable land
Valley Reach Risks

- Public safety
- Private residences and businesses
- Road over-topping and isolation

Map of deep and fast flow areas

January 2015
Key Findings In The Corridor

• For 100-year flood event:
  ➢ 32 homes inundated
  ➢ 21 homes subject to deep/fast flow
  ➢ 64 homes isolated by road flooding

• Unstable Levees, do not contain floodwaters

• Hwy 203 and Tolt River Road NE subject to flood and erosion hazards

• Gravel build up worsening conditions

• Degraded habitat
Key Problem Areas

- Rio Vista
- San Souci
- Tolt River Road
- Tolt Natural Area
- Leveed Reach
Potential Tools To Address Problem Areas

Alluvial Fan Reach:
• Maintain/repair levees
• Setback levees
• Manage sediment
• Modify bridges and roads

Valley Reach:
• Elevate roads
• Remove at-risk structures (voluntary sellers)

Bridge Improvements
Community Feedback

• Support for levee setbacks on public land that benefit private property and restore salmon

• Support for acquisitions, but county shouldn’t force anyone to sell

• Support for and opposition to gravel removal

• Support for road elevations to improve access during floods
Community Feedback and Discussion

- Do the problems identified make sense to you?
Potential Solutions Based on FCD Criteria

- Severity of consequences
- Frequency of flooding
- Funding availability
- Potential funding partnerships
- Implementation readiness
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Efforts Underway

C. San Souci Reach Improvements and Road Elevations
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Near Term

E. Lower Frew Levee Setback Design/Construction
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Near term

F. Sediment Management Feasibility Study
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Near Term

I. Tolt River Road NE Improvements
# Draft Capital Investment Strategy

## Medium Term

<table>
<thead>
<tr>
<th>Proposed Medium Term Actions</th>
<th>(Unfunded Projects)</th>
</tr>
</thead>
<tbody>
<tr>
<td>K. Upper Frew Levee Setback Construction (Phase 2)</td>
<td>Levee overtops between 10- and 25-year flows; levee directs flow and debris into trail bridge causing damage.</td>
</tr>
<tr>
<td>L. SR 203 Bridge Improvements Feasibility Study</td>
<td>SR 203 approach (fill) blocks flood flows. Highway overtops north of bridge and is subject to erosion and damage.</td>
</tr>
<tr>
<td>M. Levee Setbacks</td>
<td>Levees provide varying levels of protection, are vulnerable to failure, adversely impact habitat. County owns portions of footprint.</td>
</tr>
</tbody>
</table>

## Long Term

<table>
<thead>
<tr>
<th>Proposed Long Term Actions</th>
<th>(Unfunded Projects)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. Levee / Revetment Setbacks and Improvements</td>
<td>Levees / revetments provide varying levels of protection and impact habitat.</td>
</tr>
<tr>
<td>O. Private Revetment Removal or Improvements</td>
<td>Existing privately constructed rock revetments provide varying levels of protection and impact habitat.</td>
</tr>
</tbody>
</table>
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Long Term

L. SR 203 Bridge Improvements Feasibility Study
Community Feedback and Discussion

• Are these the right approaches?

• Are they sequenced about right?

• Do you have any concerns or questions?
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Next Steps:
• Share feedback with Flood Control District (FCD)
• FCD finalizes Capital Investment Strategy in 2017
• Begin implementation
• Evaluate “level of service” for levees
• Incorporate into 2018 Flood Plan update

Related Initiatives:
• Landslide hazard mapping
• Channel Migration Zone update – outreach in 2017
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