



# EROSION MANAGEMENT

NAT KALE, OCB

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# THE PROBLEM

Erosion on stream and riverbanks harms property owners

Erosion on stream and riverbanks can harm aquatic species and their habitat

Emergency repairs with rock (hard armoring) are often detrimental for river and stream habitats



# THE PROGRAM

Will probably include:

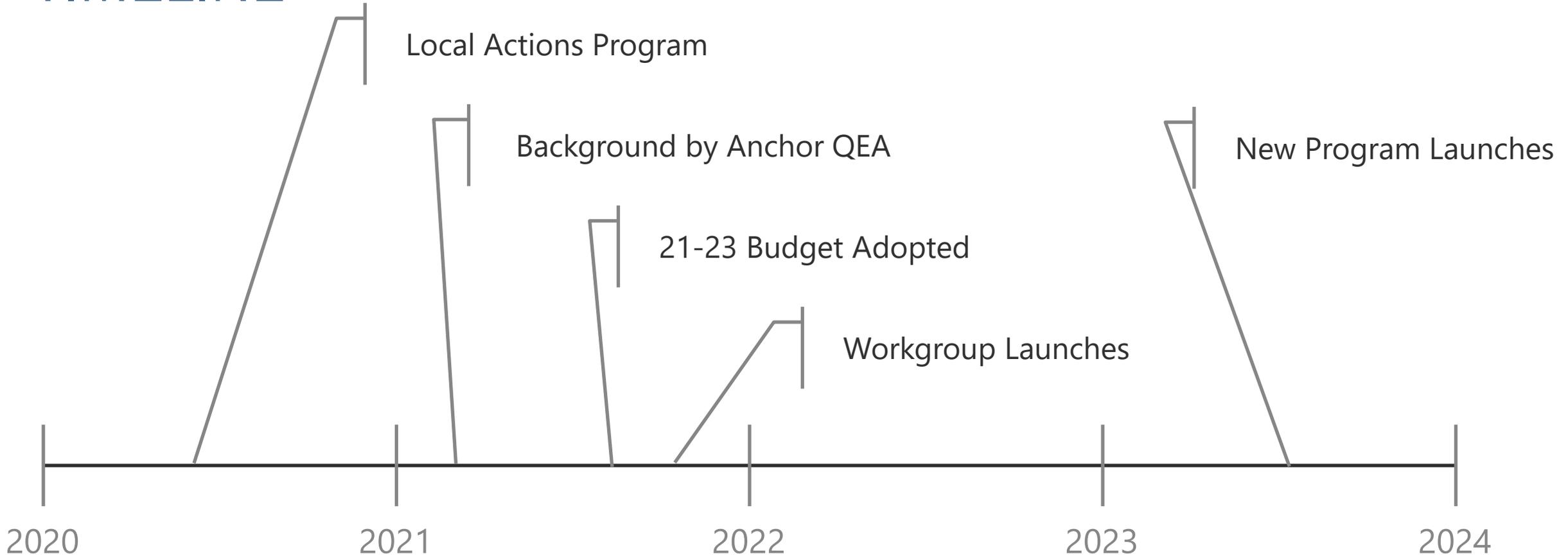
- Cost-share element
- Need to demonstrate balance of habitat and flood damage benefits

TBD:

- Emergency vs. non-emergency projects
- Public vs. private projects
- Additional non-project elements (education, mapping, etc.)



# TIMELINE



# PILOT PROJECT: 36 LOWER FALLS CREEK RD

Emergency construction pilot project

First Phase complete

Successful so far

Restoration and Cultural Resources  
remaining

\$ 15k from Landowner (cost-share)

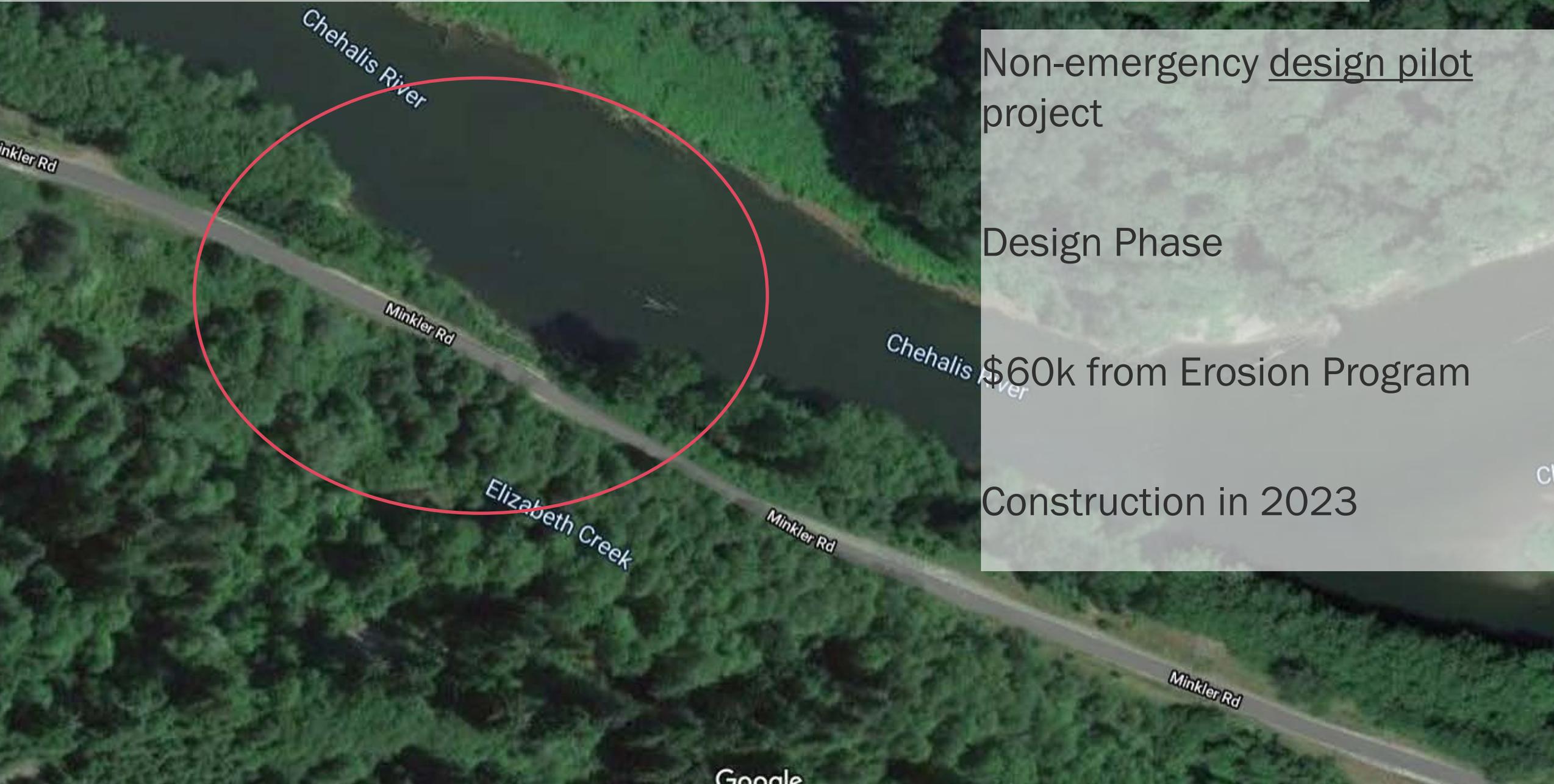
\$ 75k from Erosion Program

\$107k from Flood Authority

\$197k total



# PILOT PROJECT: PORT OF GRAYS HARBOR HAUL ROAD



Non-emergency design pilot project

Design Phase

\$60k from Erosion Program

Construction in 2023

# PILOT PROJECT: SATSOP 3.5 WILLOW PLANTING

Urgent, non-emergency planting pilot project

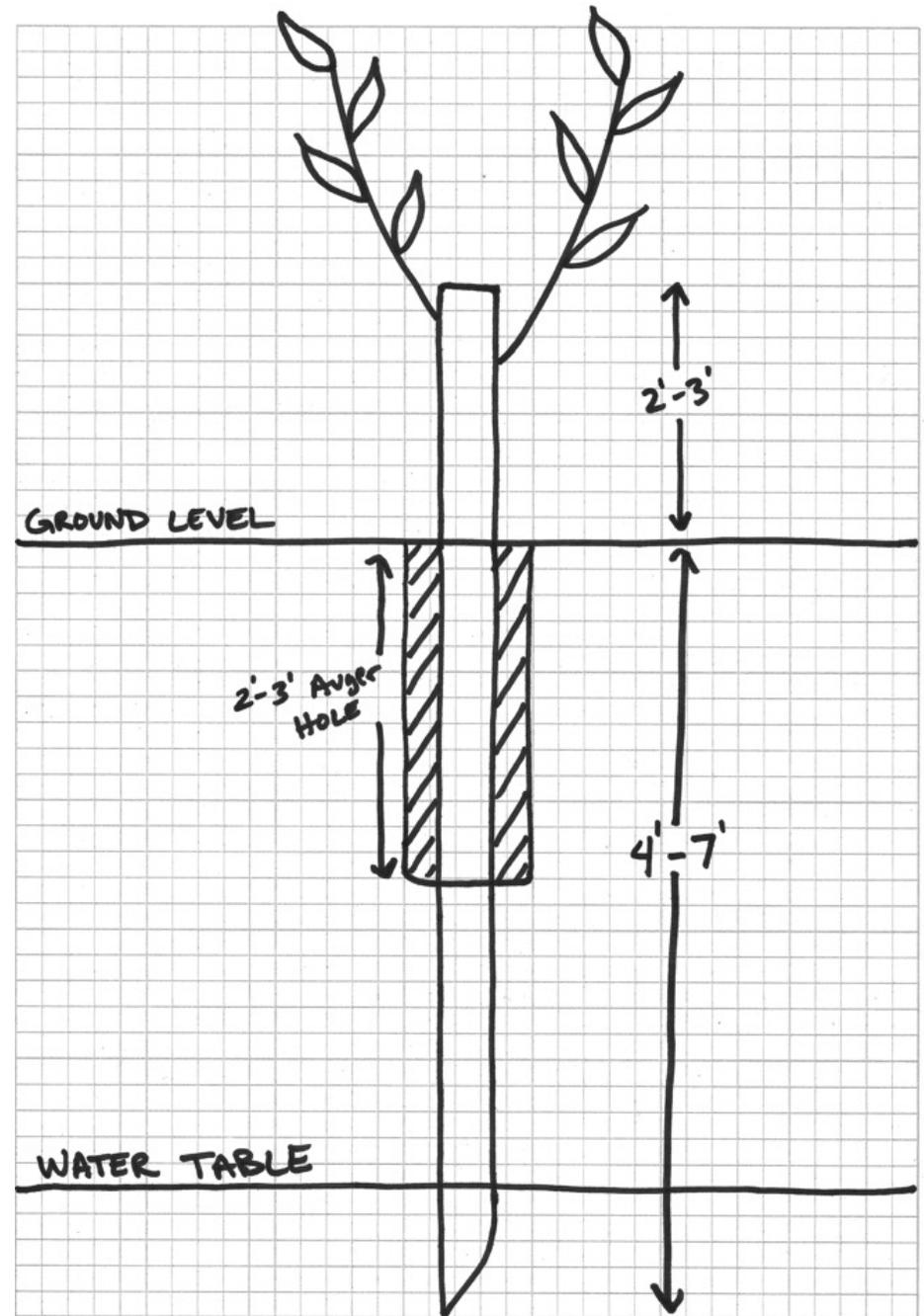
Just approved funding

\$15k from Erosion Program for construction



# NEXT STEPS

1. Explore planning pilot with Flood Authority:
  - South Fork Chehalis River/Boistfort Valley CMZ (\$60k Flood Authority, *possibly* Erosion Program)
2. Compile lessons learned from pilot projects and other notable, recent erosion projects:
  - Lower Satsop Right Bank Conservation Project
  - Newaukum Riverbank Stabilization Project
3. Make recommendations to CBB early 2023:
  - Project funding criteria, including cost-share
  - Projects for funding 2023-25
  - Relationship to Flood Authority Local Projects
  - Additional Non-Project Elements



# QUESTIONS?

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