JOINING WEBEX MEETING

US Army Corps of Engineers®
Portland District

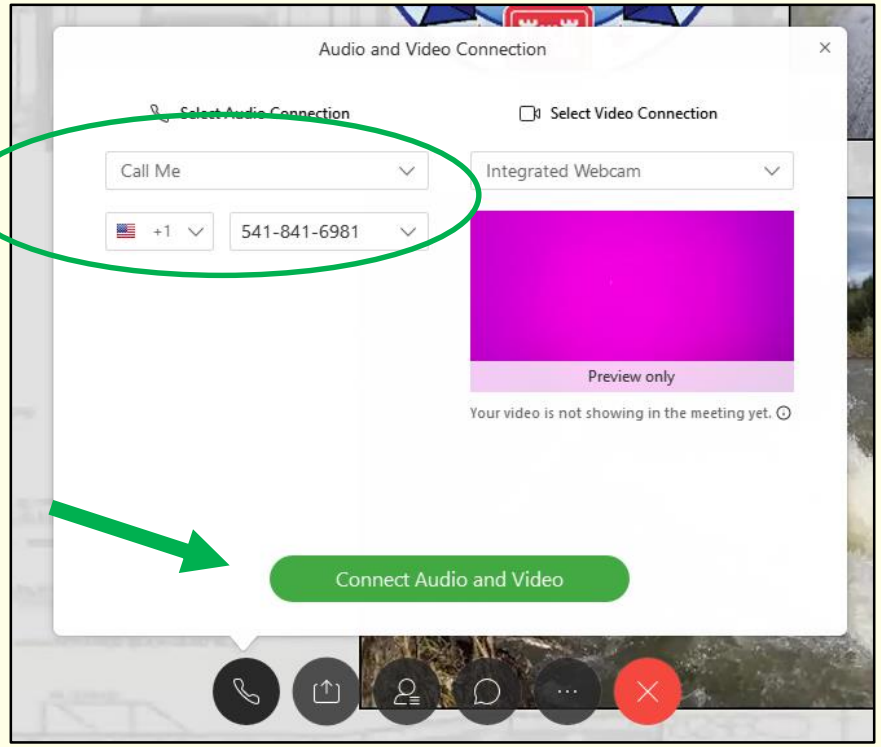
A **Join meeting via provided web address.**

Enter your name and email.

Select Audio "Call Me" and enter your own telephone number. Click Connect.

Webex will call that telephone number.

Follow prompts on phone.



-OR-

B **Join by phone via provided number.**

Follow the prompts on the phone.

Be sure to have the access code and password from the invite.

BEST PRACTICES FOR OUR WEBEX MEETING

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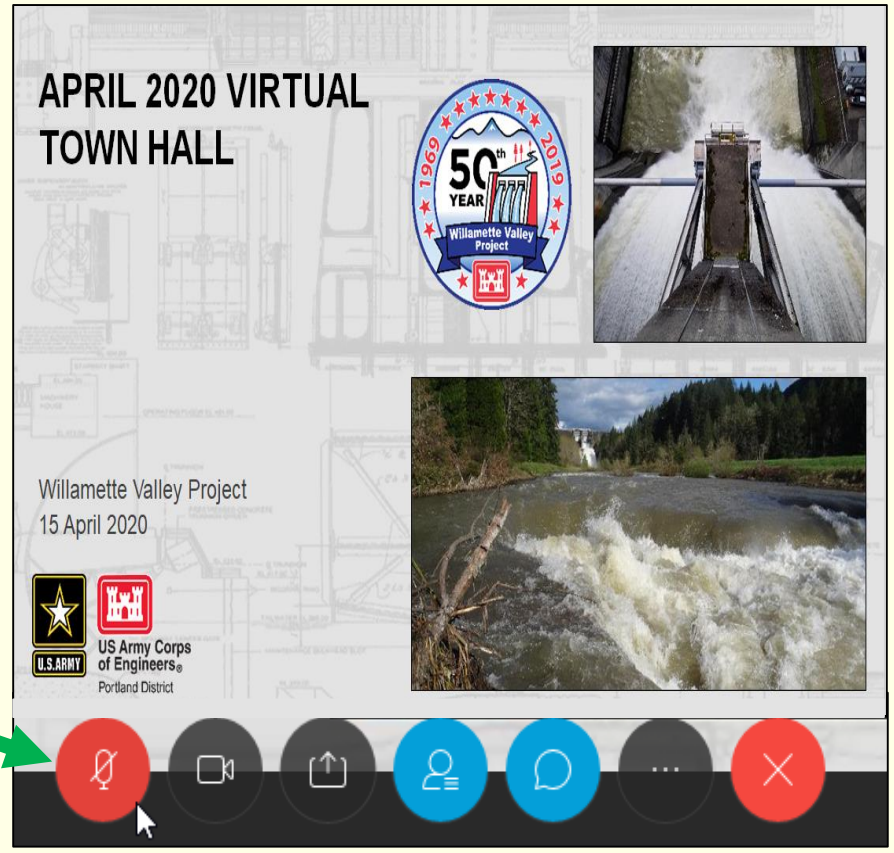
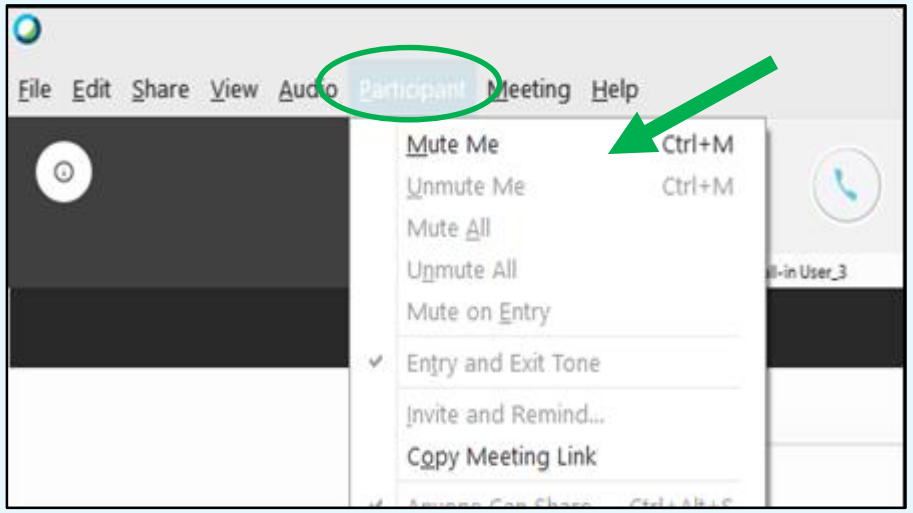
A **Make sure your mic is muted.**



Click on the mic icon.
Mic icon will show red when muted. Your audio will also state that your line is muted.

-OR-

B



Click on the "Participant" menu.
Select "Mute Me".

BEST PRACTICES FOR OUR WEBEX MEETING

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Type your questions in the chat.

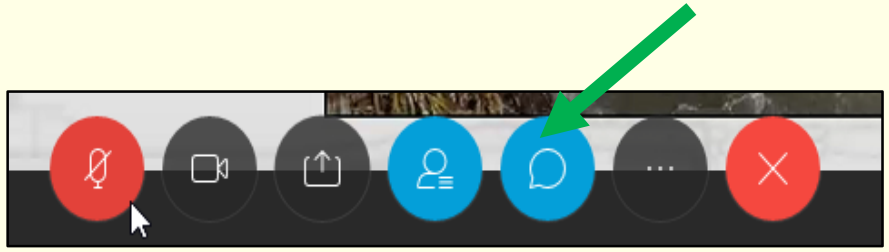
Managers will watch to address questions in their subject area.

Questions will also be noted as they come in so they can be addressed in the Q&A at the end of the meeting if not responded to in the chat.

A

Click on the chat bubble icon.

The icon will show blue when open.



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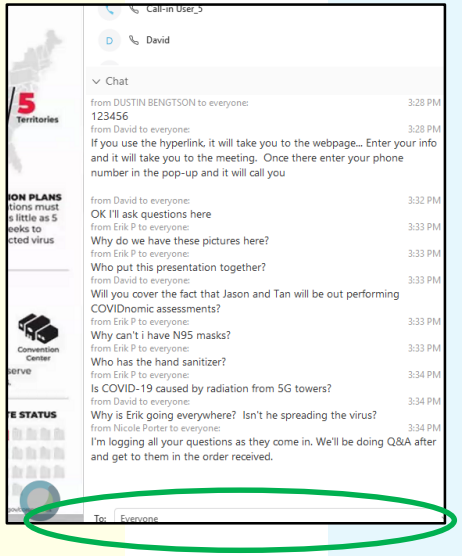
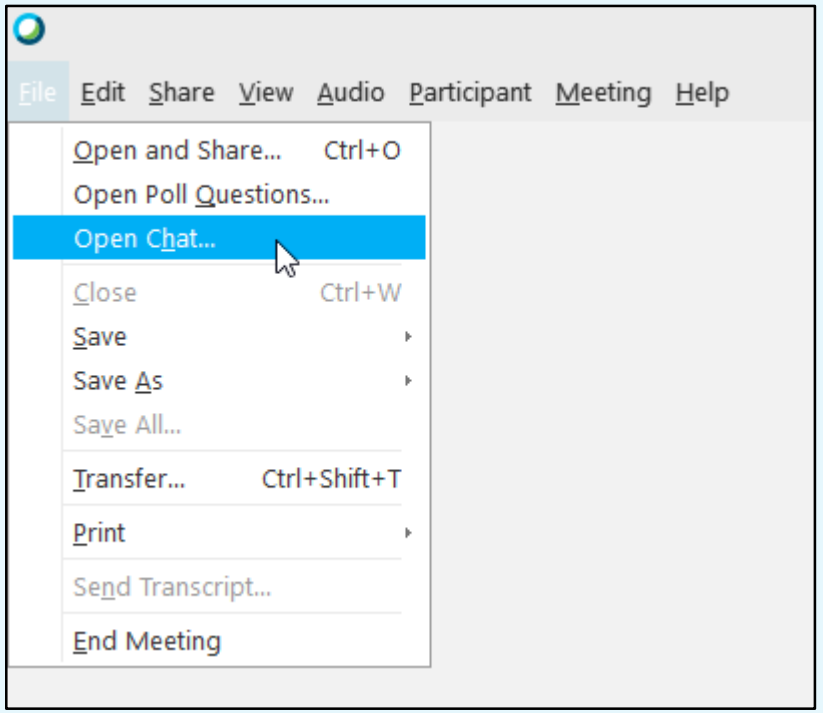




Click on the "File" menu.
Select "Open Chat…"

CONTINUING AUTHORITIES PROGRAM (CAP)
1135 LONG TOM ECOSYSTEM RESTORATION

Public Scoping Meeting

Portland District
03 November 2021

THE CITY OF MONROE
ESTABLISHED 1914

CONFEDERATED TRIBES OF SILETZ INDIANS

LONG TOM WATERSHED COUNCIL

U.S.ARMY

US Army Corps of Engineers®

AGENDA

Overview 4:00-4:15

- Introductions
- Roles of participants
- Opening Remarks:
  - Erik Peterson: Operations Project Manager, USACE - Portland District, Willamette Valley Projects
  - Steve Martinenko: City Administrator, City of Monroe
  - Stan van de Wetering: Biological Program Director, Confederated Tribes of Siletz Indians

Project Location and Description 4:15-4:30

- Location and Background
- Introduction to Alternative Development
- Problems, Opportunities, Goals, and Objectives
- Constraints and Considerations

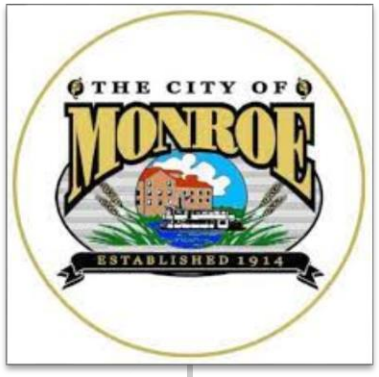
Corps Planning and Process 4:30-5:00

- Alternative Formulation and Process
- Potential Measures
- Next Steps: Public Review on Draft Report
- Q&A: Submit in chat

THE PROJECT DELIVERY TEAM:
CORPS STAFF

- **Sarah Knowles:** Project Manager
- **Kat Herzog:** Plan Formulator/NEPA Specialist
- **Ben O'Connor:** Technical Team Lead
- **Rachel Laird:** Fish Biologist
- **Kristin Scheidt/Tracy Schwartz:** Cultural Resources
- **Lauryn Guyton-Moore:** Economist
- **Other Disciplines**
  - **Sean Carroll:** GIS
  - **Amy Redmond:** Real Estate Specialist
  - **Tom Conning:** Public Affairs
  - **Wendy Jones:** Willamette Valley Project Office Support
  - **Adam Mamrak:** Cost Engineering

THE PROJECT DELIVERY TEAM:
SPONSORS



- **John Greydanus: Planning Commissioner**
- **Steve Martinenko: City Administrator**

- **Andrea Sumerau: Environmental Protection Specialist**
- **Stan van de Wetering: Biological Program Director**

THE PROJECT DELIVERY TEAM:
PARTNERS

LONG TOM WATERSHED COUNCIL

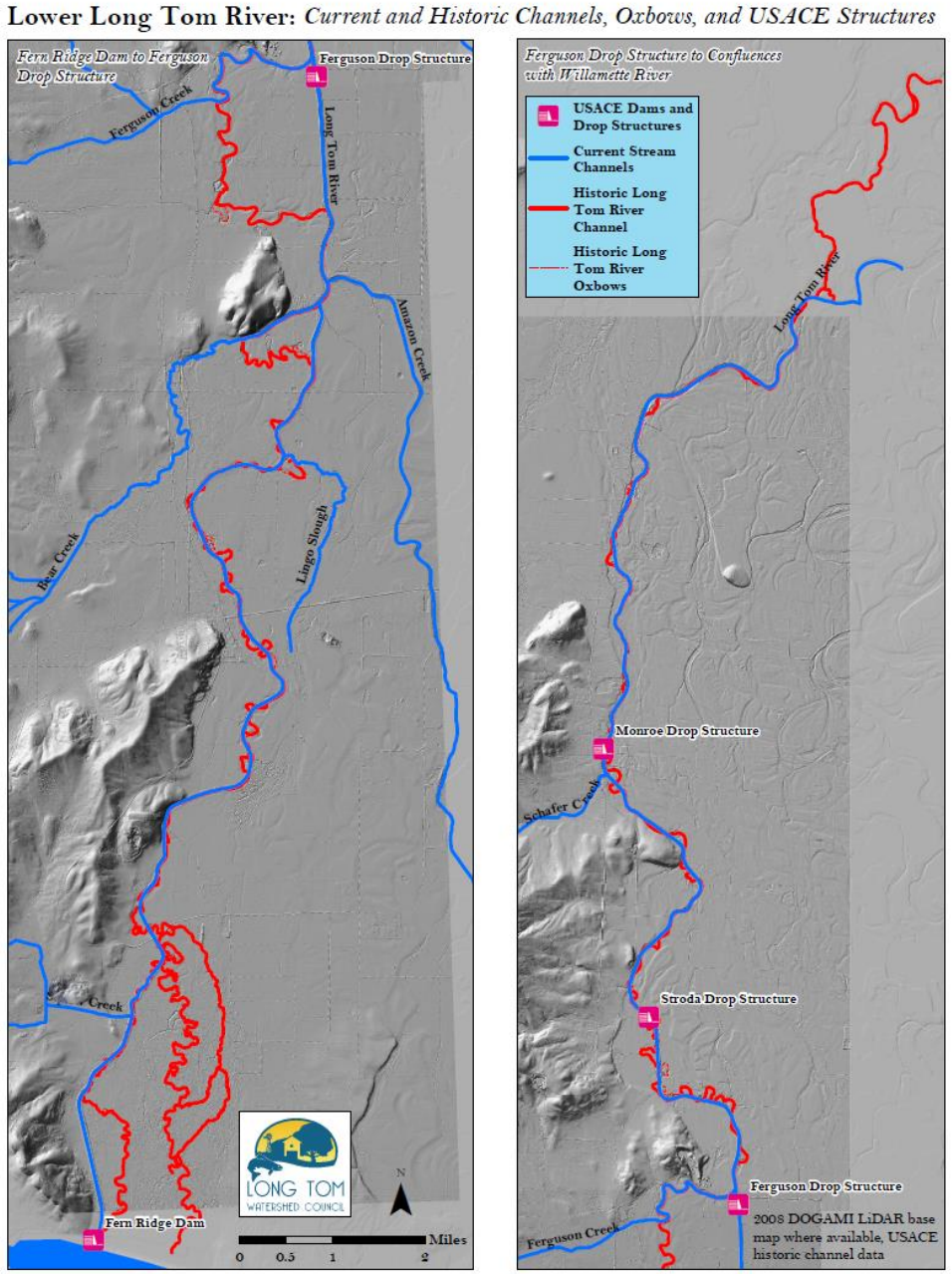
- **Dana Dedrick:** Special Projects Lead
- **Jed Kaul:** Fish Biologist
- **Kevin Shanley:** Volunteer Consultant to LTWC

CONTINUING AUTHORITIES PROGRAM (CAP) SECTION 1135

- Section 1135, Water Resources Development Act of 1986, as amended (33 U.S.C. 2330); “Aquatic Ecosystem Restoration”. This continuing authority program allows the United States Army Corps of Engineers (Corps) to carry out aquatic ecosystem restoration projects if the project will improve environmental quality, is in the public interest, and is cost effective.

- Project limit is $10M

- Cost shared with Sponsors for study and implementation

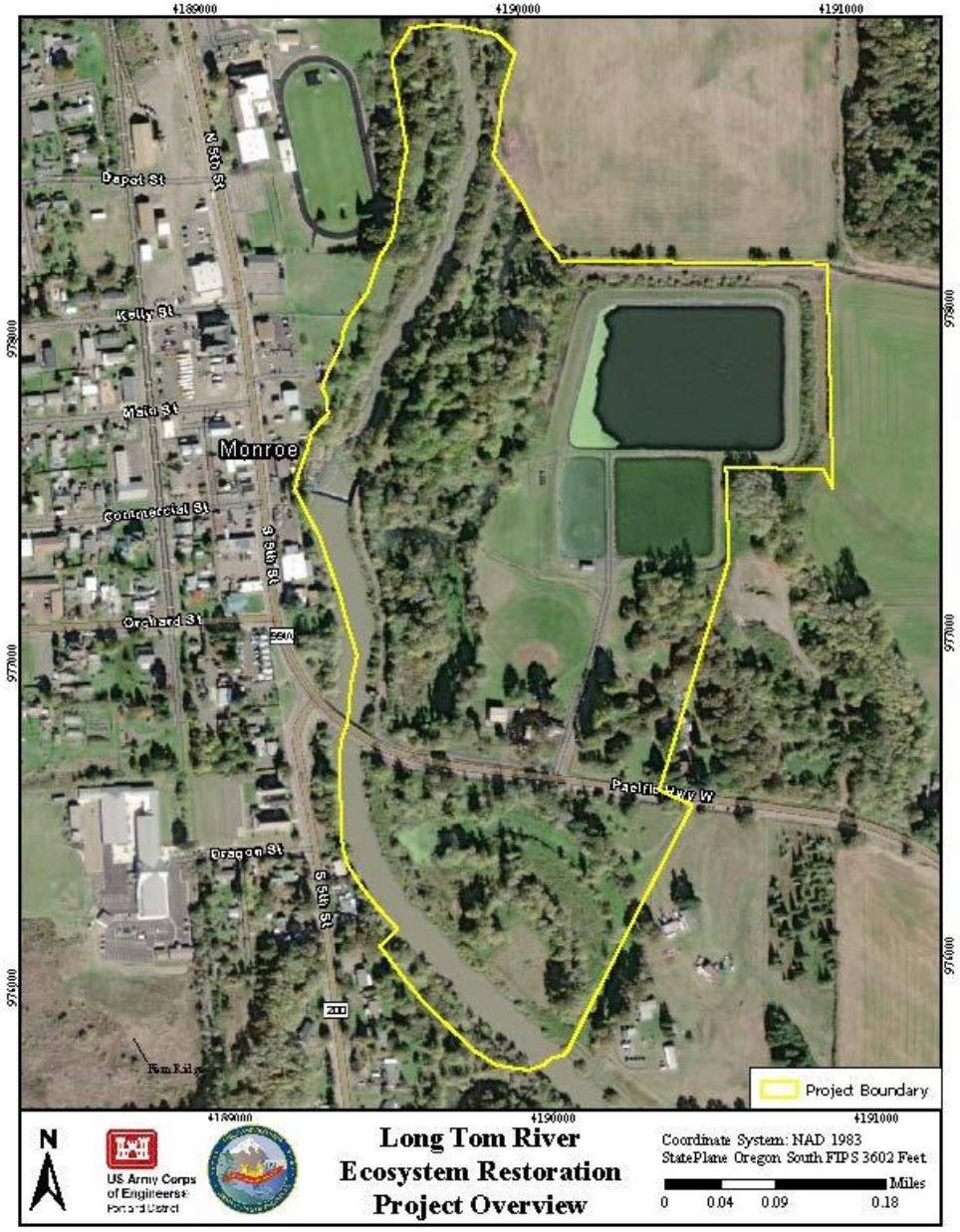


PROJECT BACKGROUND

- In 1943, the Army Corps' Long Tom River Channel Rectification and Improvement Project was implemented to increase the capacity of the channel downstream from Fern Ridge Dam.

PROJECT DESCRIPTION

- Project area includes the section of river above and below the dam, the city water intake and treatment facilities, and habitat in the partially connected sloughs
- The Monroe Drop Structure is the first barrier to fish swimming up from the Willamette River
- Priority since 2000. Discussions with potential project partners and community in public meetings and project steering committee meetings 2015-17.
- Community has expressed support for healthy fish runs and fish passage for the river



FLOW VARIES OVER THIS LOW-HEAD DAM

High Flow

Low Flow

Lamprey
Freshwaters Illustrated

Juvenile spring Chinook LTWC

Juvenile cutthroat trout
LTWC

ALTERNATIVES DEVELOPMENT STARTS WITH:

- Start with Identifying Problems and Opportunities
- Then identify, Goals and Objectives
- Establish any Planning Constraints
- Formulate Alternative Plans that meet objectives and do not violate constraints
- Developing and Applying Screening Criteria
- Evaluating Trade-Offs
- To Arrive at Recommended Management “Solutions”

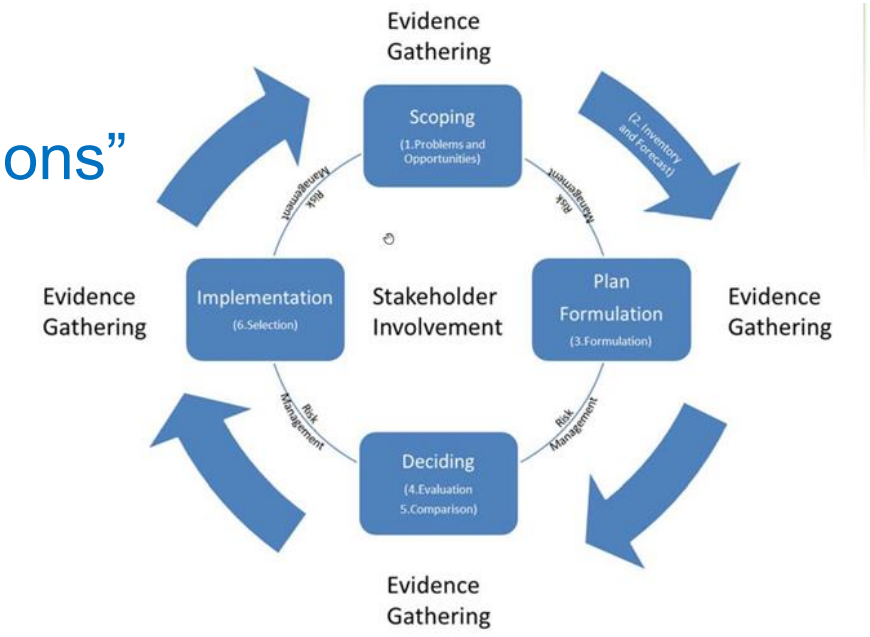


Figure 2.2: USACE Risk-Informed Planning process

PROBLEM STATEMENT:

The channelization of the Long Tom River, located near the City of Monroe, has disconnected side channels and reduced the length of the river from 36 to 23 miles, reducing the available amount of riverine habitat, as well as USACE-constructed drop structure acting as a fish passage barrier.

PROBLEMS AND OPPORTUNITIES:

•**Problem:** Notable unsafe conditions for the public at drop structure with limited public access and seasonally poor water quality for the City of Monroe's water intake.

- **Opportunity**: Improved habitat to result in improved drinking water.
- **Opportunity**: Increase public access to river and adjacent area for recreation purposes and other development compatible with City's land use and planning efforts.
- **Opportunity**: Reduce safety hazards along the river.
- **Opportunity**: Offer outdoor educational programs for local community.

•**Problem**: Monroe grade control structure acts as a fish barrier while providing flood protection to the local community.

- **Opportunity**: Fish passage restoration using current fish passage standards and criteria.
- **Opportunity**: Additional flood storage to reduce pressure of channel conveyance.

PROBLEMS AND OPPORTUNITIES (CONTINUED):

Problem: Disconnected historic river off-channel segments offer little habitat value.

- **Opportunity**: Restore or create wetland and riparian habitat.
- **Opportunity**: Floodplain reconnection to create a more natural hydrologic regime.
- **Opportunity**: Channel restoration and in-stream habitat improvements by creating more natural channel morphology such as pool/riffle complexes.
- **Opportunity**: Reconnect off channel segment to enhance in-stream riparian habitat.

GOALS AND OBJECTIVES

- **Goal 1**: **Restore Quality Habitat for Native Fish and Wildlife Species utilizing tribal knowledge/practices and compatible with City of Monroe's future development.**

· *Objective*: Improve year-round aquatic habitat diversity associated with in-stream features, for native fish use of spawning, rearing, and overwintering.
· *Objective*: Reconnect and restore the historic disconnected channel segments to promote a more natural hydrologic regime with improved ecological responses. (Addresses :Increase water flow through sloughs and riverbed to reduce algae growth)
· *Objective*: Restore adjacent riparian and wetland habitat

- **Goal 2**: **Restore and Emulate Natural River Processes, Structures, and Functions to Improve Fish Passage and Maintain Channel Conveyance.**

· *Objective*: Improve fish passage at Monroe's drop structure.
· *Objective*: Maintain channel conveyance
· *Objective*: Restore side and main channels' hydrodynamic, sediment transport, and geomorphic processes to sustain long-term fish passage.

EXISTING CONDITIONS

- **Constraints:**
  - Flood Risk Management- All modifications will not increase flood risk.
  - City of Monroe's drinking water supply- All modifications will not negatively impact the City's drinking water supply (intake volume requires 350 gallons/minutes per 24-hour period)
- **Considerations:**
  - Infrastructure
  - Real Estate
  - FEMA floodway and Floodplain
  - HTRW
  - Wetlands/ESA
  - Cultural Resources
  - Social
  - Long term O&M
  - Sponsor costs and preference

ALTERNATIVE FORMULATION

- Iterative
- Problems and Opportunities
- Goals and Objectives
- Constraints and Considerations
- Measures; development and screening
- Alternatives
- Initial array
- Screening
- Final array

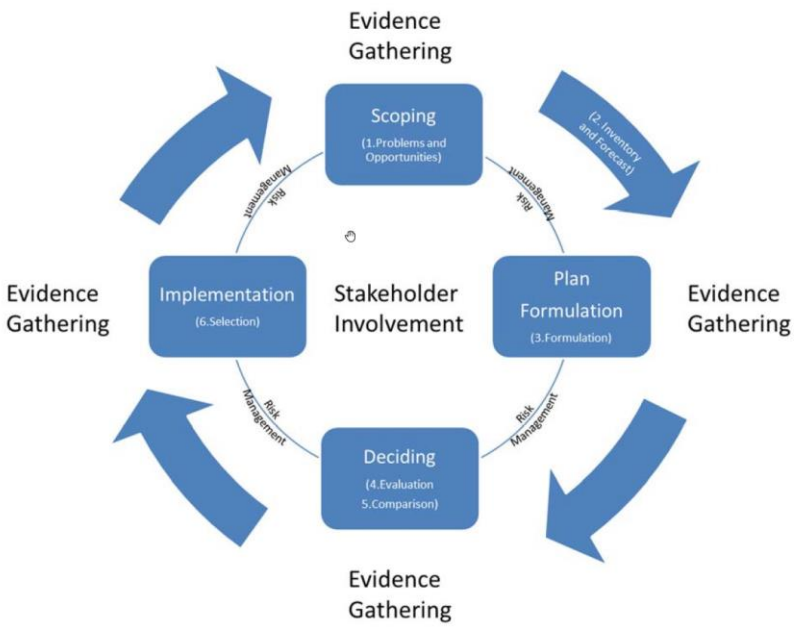
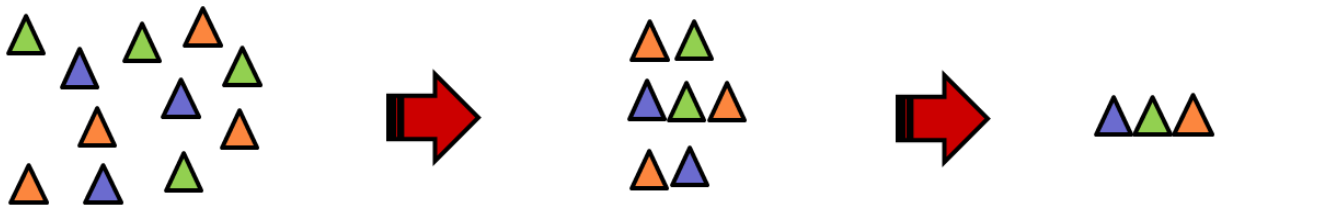


Figure 2.2: USACE Risk-Informed Planning process

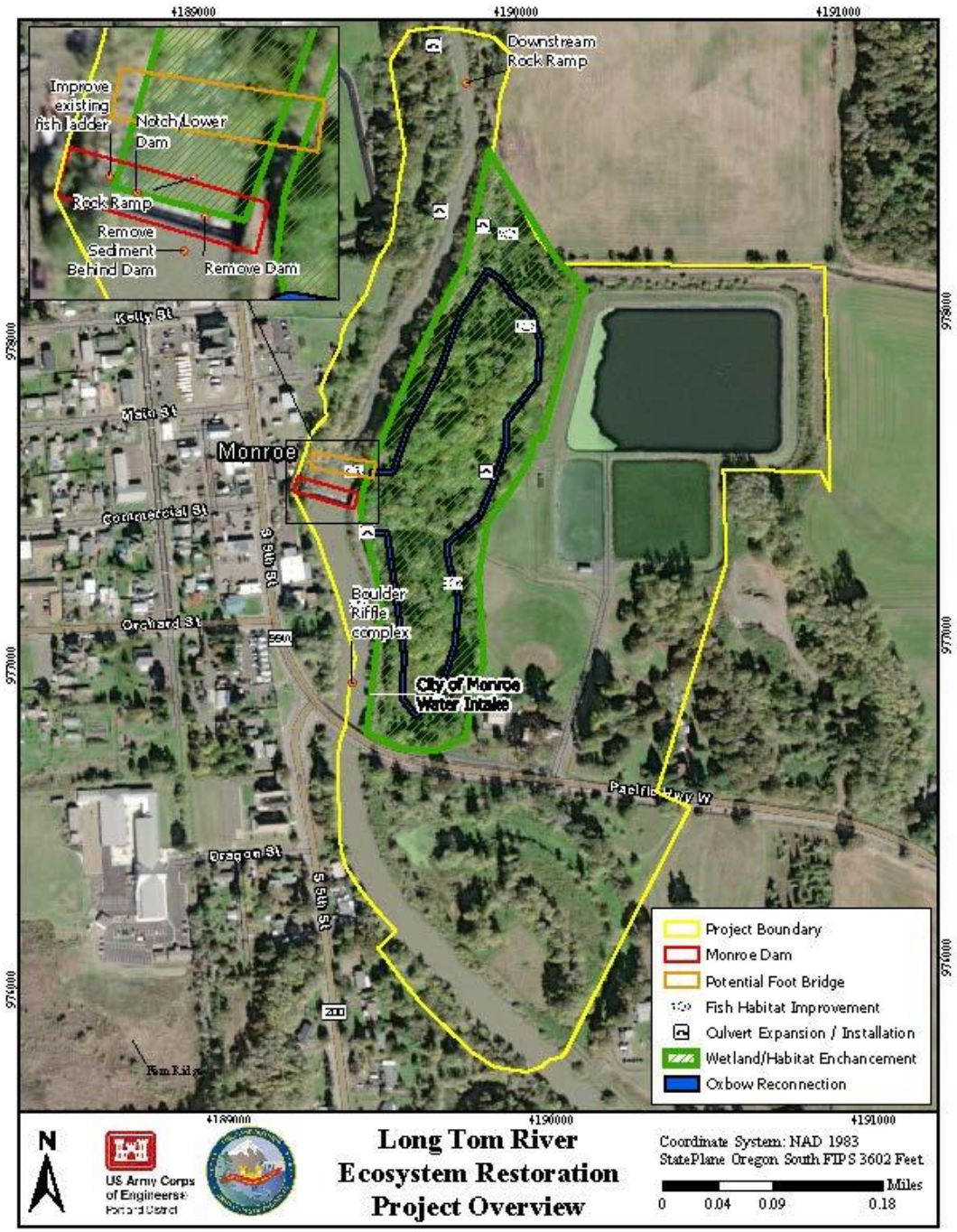


GOALS, OBJECTIVES, MEASURES

Goal	Objectives	Measures
Restore Quality Habitat for Native Fish and Wildlife Species.	-Improve year-round aquatic habitat diversity associated with in-stream features, for native fish use of spawning, rearing, and overwintering. -Reconnect and restore the historic disconnected channel segments to promote a more natural hydrologic regime with improved ecological responses. -Restore adjacent riparian and wetland habitat, utilizing indigenous knowledge/practices.	-Augment in-stream substrate for fish habitat in main and side channels -Enhance riparian habitat for shading -Year-round connection (ex: rehab culverts) to side channel -Enhance in-stream vegetation in main and side channels (ex: substrate, excavation and placement, active plantings) -Restore wetland habitat in side channels (ex: hydraulic connection, excavation and placement, active plantings)
Restore and Emulate Natural River Processes, Structures, and Functions to Improve Fish Passage and Maintain Channel Conveyance.	-Improve fish passage at Monroe's drop structure. -Maintain channel conveyance -Restore side and main channels' hydrodynamic, sediment transport, and geomorphic processes to sustain long-term fish passage.	-Rock Ramp (with notch/removal/lowering dam) -Notch/Lower Dam -Complete Removal of Dam and removal of sediment -Improve fish ladder -Fish bypass (also acts as side channel fish habitat) -Boulder/riffle complex to aid in scouring (channel training)

POTENTIAL MEASURES

- Fish passage:
  - Complete removal of control structure
  - Notch/Lower control structure
  - Bypass
  - Update fish ladder
  - Rock Ramps
- In stream habitat
- Wetland habitat



HOW TO SUBMIT COMMENTS

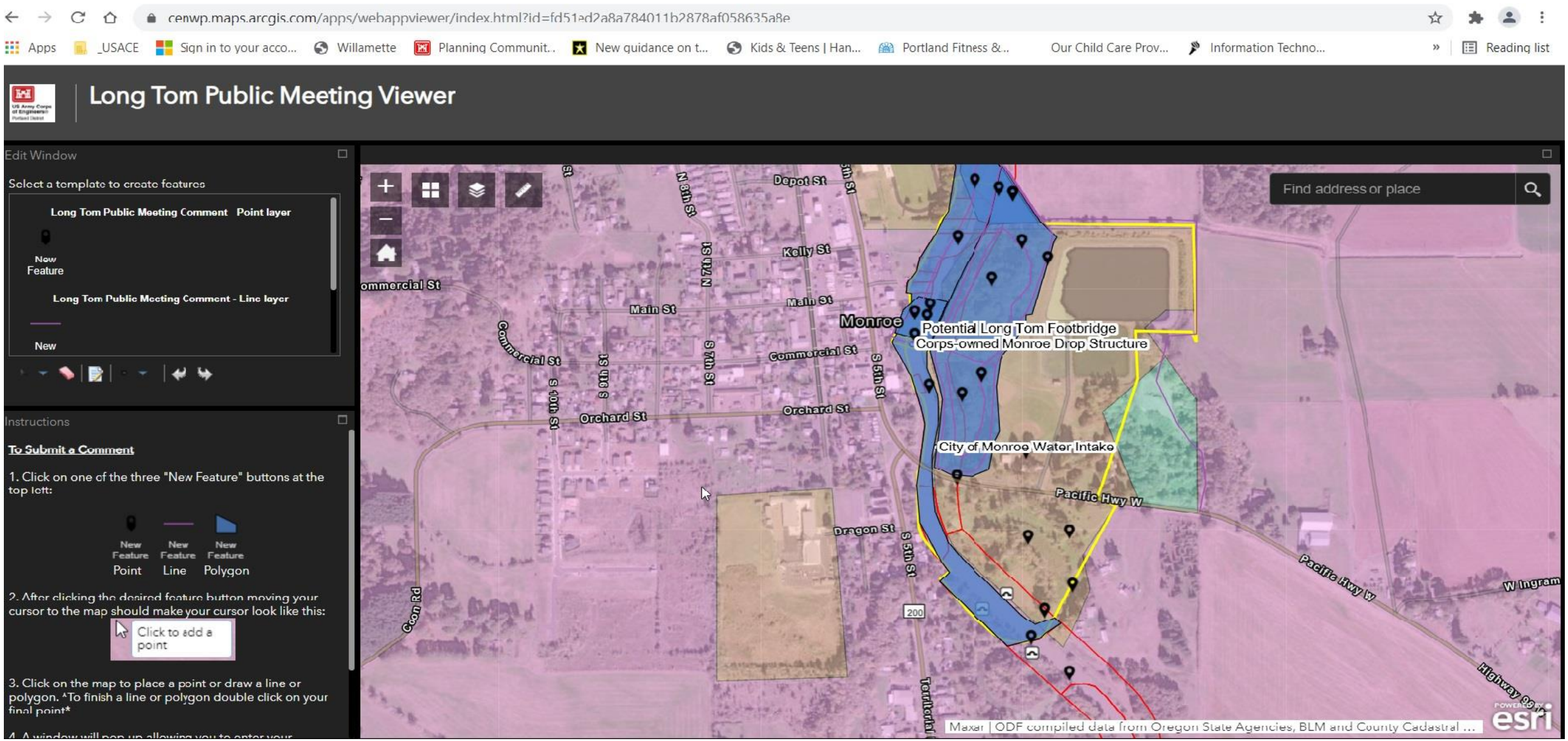
Mail: U.S. Army Corps of Engineers, CENWP-PM
ATTN: Kat Herzog or Sarah Knowles
P.O. Box 2946
Portland, OR 97208-2946
503-808-4510

Email: NWP-LongTom-EcoRes@usace.army.mil

GIS platform:
https://cenwp.maps.arcgis.com/apps/webappviewer/index.html?id=fd51ed2a8a784011b2878af058635a8e

PUBLIC GIS INTERFACE

https://cenwp.maps.arcgis.com/apps/webappviewer/index.html?id=fd51ed2a8a784011b2878af058635a8e



SCHEDULE/NEXT STEPS

- Further alternative development and evaluation
- Selection of Recommended Plan
- Draft Report and Public Review with associated public meetings; Spring 2022
- Final report; End of 2022
- Project Partnership Agreement (PPA) and Plans and Specs (P&S=Design) still needed prior to Construction

Q&A

Ask any questions in chat box

Visit the following websites for more information:
https://www.nwp.usace.army.mil/Locations/Willamette-Valley/Fern-Ridge/

City of Monroe:
https://ci.monroe.or.us/

LTWC involvement with the Long Tom:
https://www.longtom.org/lowerlongtom/