BONNEVILLE POWER ADMINISTRATION

WELCOME

Kootenai National Wildlife Refuge (KNWR) Floodplain Reconnection Project

Open House Meeting

Boundary Co. Annex April 30, 2024

April 30, 2024 6 – 8 p.m.









What are your thoughts?

During the public-involvement process, BPA wants your feedback:

What issues should we evaluate?

What potential environmental impacts should we analyze?

What alternatives should we consider?

Your comments will help BPA make better decisions on projects that could affect your community and the environment.

Purpose and Need

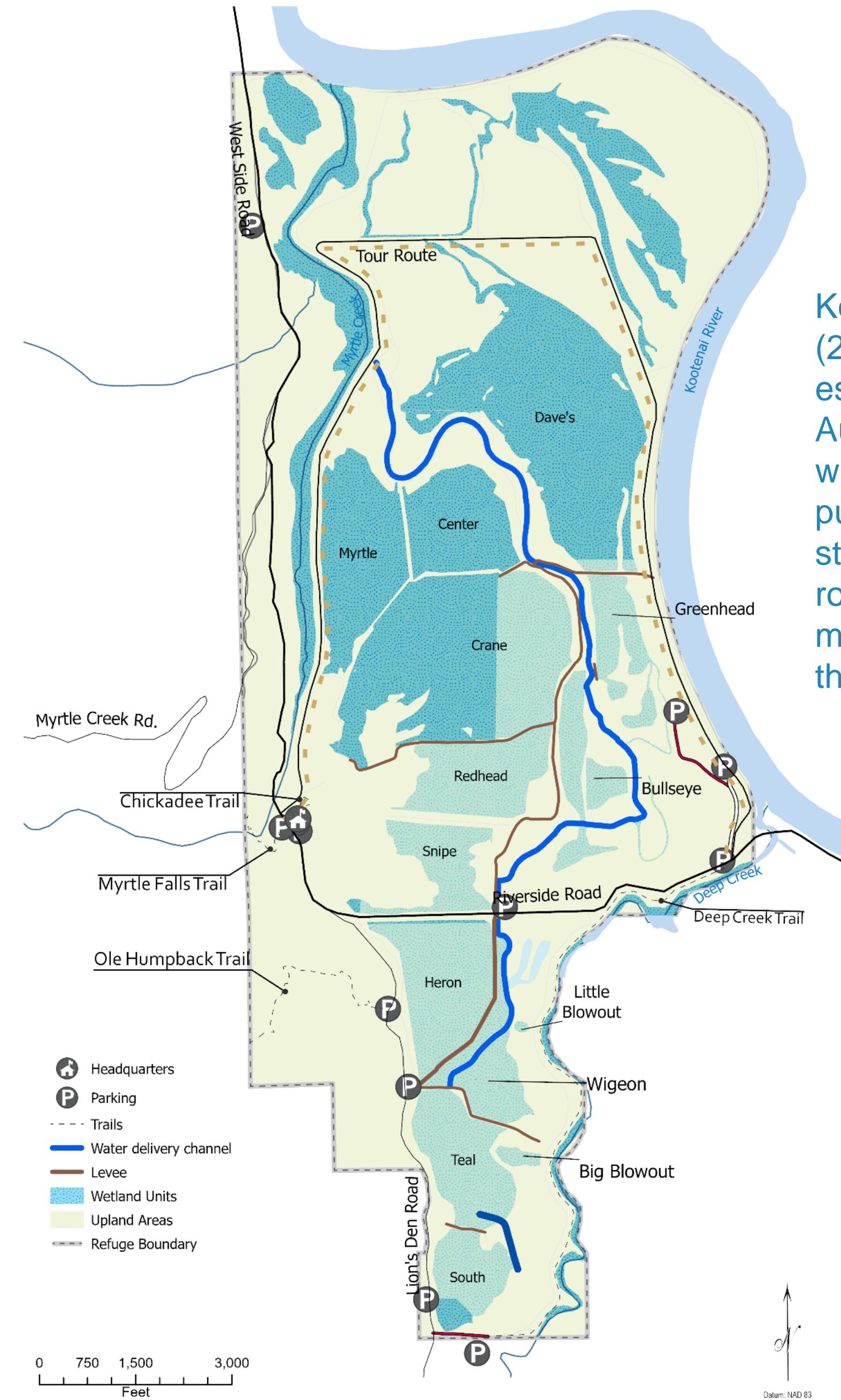
BPA needs to respond to requests for funding from the Kootenai Tribe of Idaho (KTOI) to restore floodplain connectivity on the Kootenai River to benefit Endangered Species Act (ESA)-listed Kootenai River White Sturgeon (Endangered) and other fish and wildlife species.

In meeting this need for action, BPA seeks to achieve the following purposes:

support efforts to mitigate the effects on fish and wildlife from the Federal Columbia River Power System;

- support conservation of ESA-listed species;
- support BPA's commitments under the existing Memorandum of Agreement with KTOI, as amended; and
- minimize adverse environmental impacts.

Kootenai National Wildlife Refuge



Kootenai NWR (2,774 acres) was established on August 30, 1964, with the establishing purpose to provide stopover and roosting habitat for migratory birds in the Pacific Flyway.

Kootenai NWR



Proposed Project Benefits

 Increase use by migratory waterfowl, shorebirds, and waterbirds of restored floodplain habitat.

- Increase use of native fishes within floodplain habitat.
 - Improved visitor safety, use, and satisfaction.

Current management focuses on providing breeding, foraging, and roosting habitat for migratory and breeding birds with specific goals outlined within the Comprehensive Conservation Plan (2011).

THESE GOALS INCLUDE:





Habitat

Provide, manage, and enhance a diverse assemblage of grassland, wetland, and riparian habitats for foraging and nesting migratory waterfowl and other wildlife characteristic of the Kootenai River Valley.

Fish and Wildlife

Protect, maintain, and
where feasible restore
habitats on the Refuge to
benefit native fishes,
migratory waterfowl and
other wildlife species.

Recreation

Provide high-quality wildlifedependent recreational opportunities for all ages and abilities that enhances the users' appreciation for and understanding of the Refuge's and the Kootenai River Valley's natural resources.



Kootenai Tribe of Idaho's Kootenai River Habitat Restoration Program

The KRHR Program is a multi-year, ecosystem-based habitat restoration program to restore habitat conditions that support all life stages of endangered Kootenai River white sturgeon, burbot and other native fish. Under this program, the Kootenai Tribe of Idaho is building multiple habitat restoration projects in the Kootenai River.

From 2011 through 2023 the Kootenai Tribe has constructed 14 KRHRP restoration projects in Idaho and others in the Kootenai River basin. Additional projects are planned for the Refuge and Deep Creek in 2024 and 2025.





Kootenai Tribe of Idaho's Kootenai River Habitat Restoration Program





Need for Program

Historical diking, agricultural conversion, infrastructure development, and construction and operations of Libby Dam have changed the river morphology, upland and riparian vegetation, and aquatic habitat.

These changes limit the ability of many native fish populations, including the endangered Kootenai River white sturgeon and burbot (ling), to survive and thrive in the Kootenai River.

Program Goals

- **Morphology:** Restore river and floodplain ecological processes within the constraints of Libby Dam operations and current land uses.
- Aquatic: Restore conditions that support all life stages of native fish and help maintain sustainable populations.
- **Riparian vegetation:** Create streambank and floodplain conditions that help plant communities develop.
- **River stewardship:** Support and create opportunities for river stewardship.

Limiting Factors

Altered flow

Spring flows are 50% less than pre-dam flows, but winter flows have increased 300%.

Altered sediment transport and deposition

Limited floodplain development.

River response to altered hydraulics Morphological changes, decreased depth, velocity changes.

Poor quality spawning habitat

Lack of rocky substrate on the river bottom where sturgeon currently spawn.

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Altered temperature

Water is warmer in winter, cooler in summer.

Loss of nutrients Nutrients are trapped behind Libby Dam. Floodplains were eliminated. Reduced primary productivity.

Loss of side channels, wetlands, and flood-plain & connection

Decreased habitat and limited food web.

Habitat loss and simplification

Lack of complex and diverse aquatic and riparian habitats.

Project description

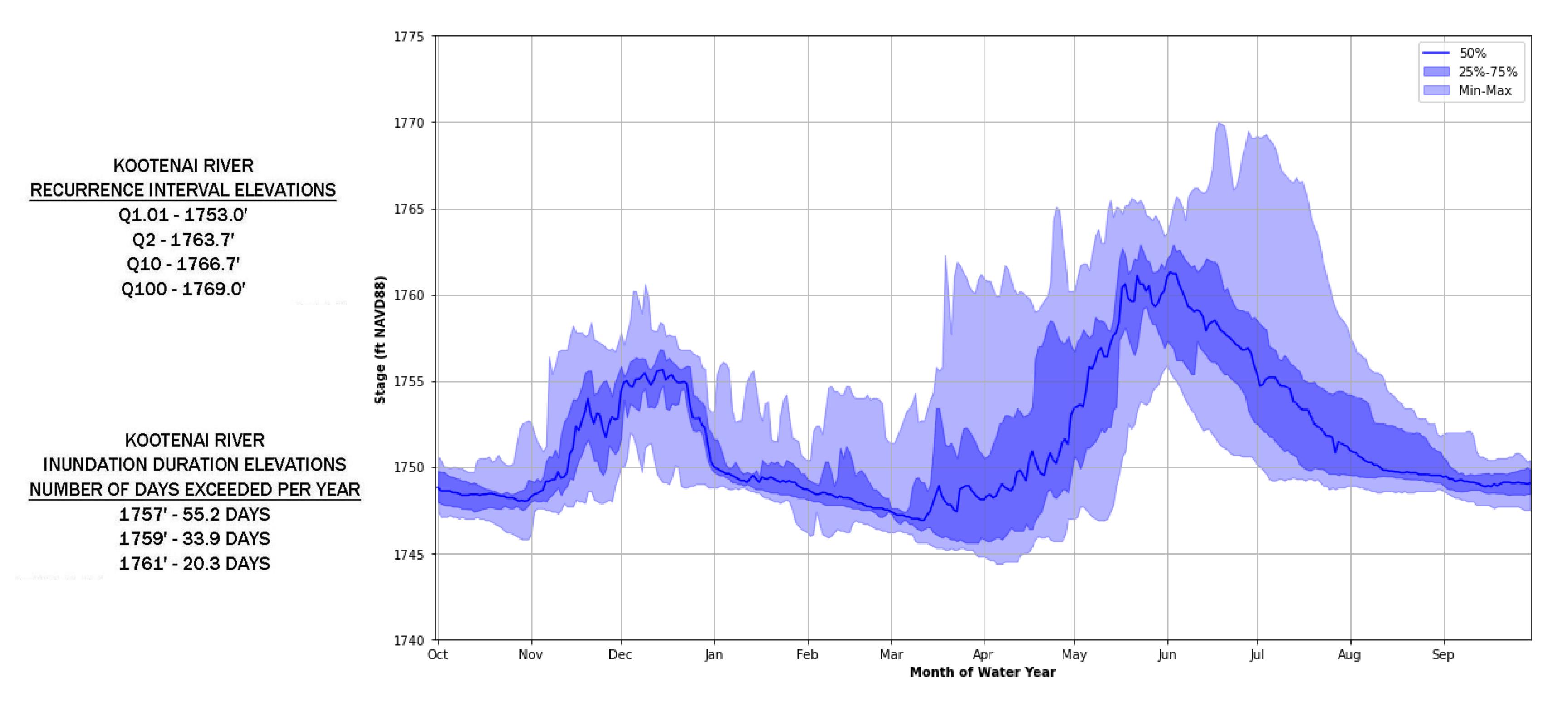
Proposed restoration activities:

- Breach the Kootenai River Levee in up to three locations to allow seasonal inundation of portions of the Kootenai NWR via the Kootenai River.
- Realign and elevate the Refuge's Auto Tour Road to maintain safe vehicle access and provide viewing opportunities during periods of inundation and integrate pull outs and interpretative signage.
- Breach the Deep Creek Levee in up to two locations to allow seasonal inundation of portions of the Kootenai NWR via Deep Creek.
- Elevate and widen Riverside Road to maintain safe vehicle access during periods of inundation.
- Excavate and regrade floodplain topography to

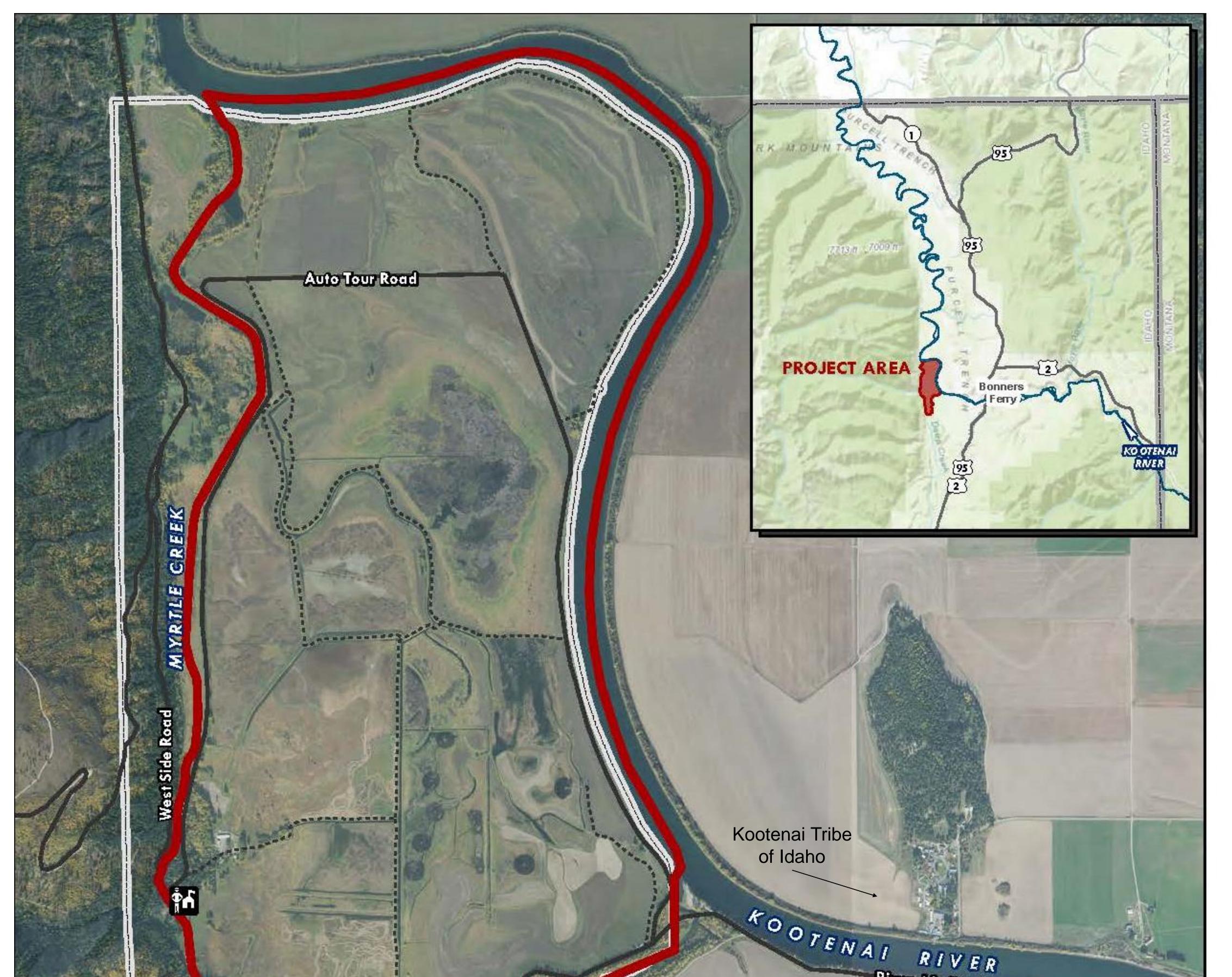
improve flow conveyance, increase inundation extent and enhance wetlands.

- Remove reed canary grass and establish woody vegetation in the floodplain to improve habitat diversity for a variety of fish and wildlife species.
- Maintain or modify existing facilities to support continued recreational uses within the Kootenai NWR.

Kootenai River Annual Flow Statistics



Project map

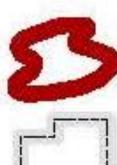


Riverside Road

Lion's Den Road

Riverside Road

Bonners Ferry >>> approx. 1 mile



CREEK

DEEP

KOOTENAI NATIONAL WILDLIFE REFUGE FLOODPLAIN RECONNECTION PROJECT AREA

KOOTENAI NATIONAL WILDLIFE REFUGE

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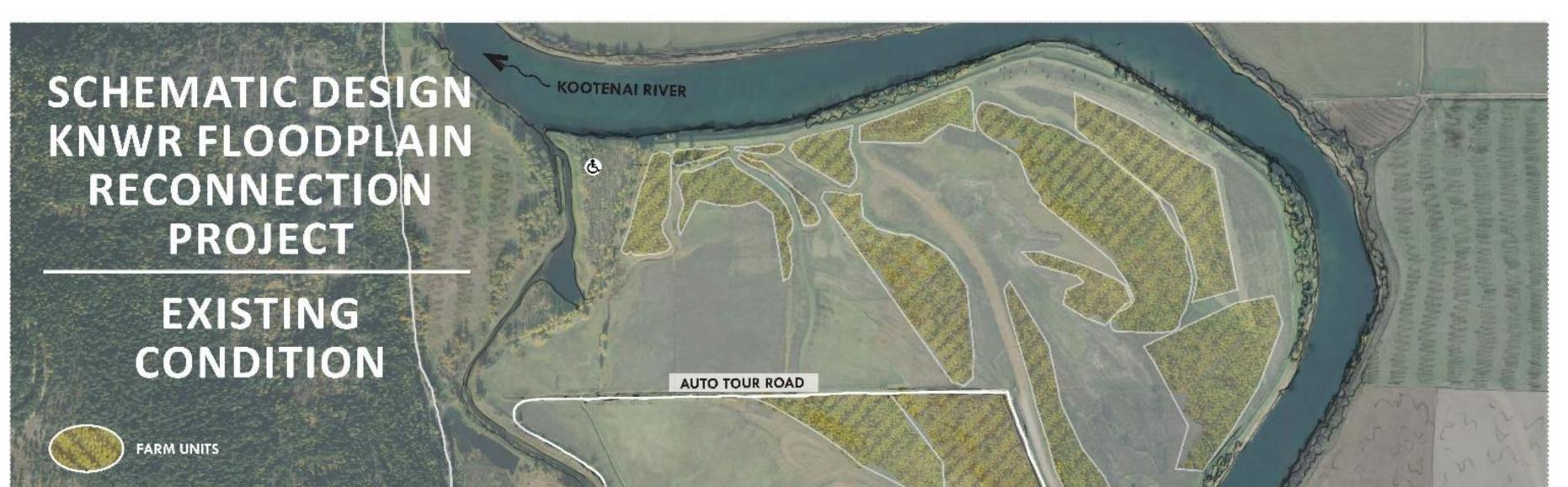
KOOTENAI NATIONAL WILDLIFE REFUGE

ROAD

SERVICE ROAD

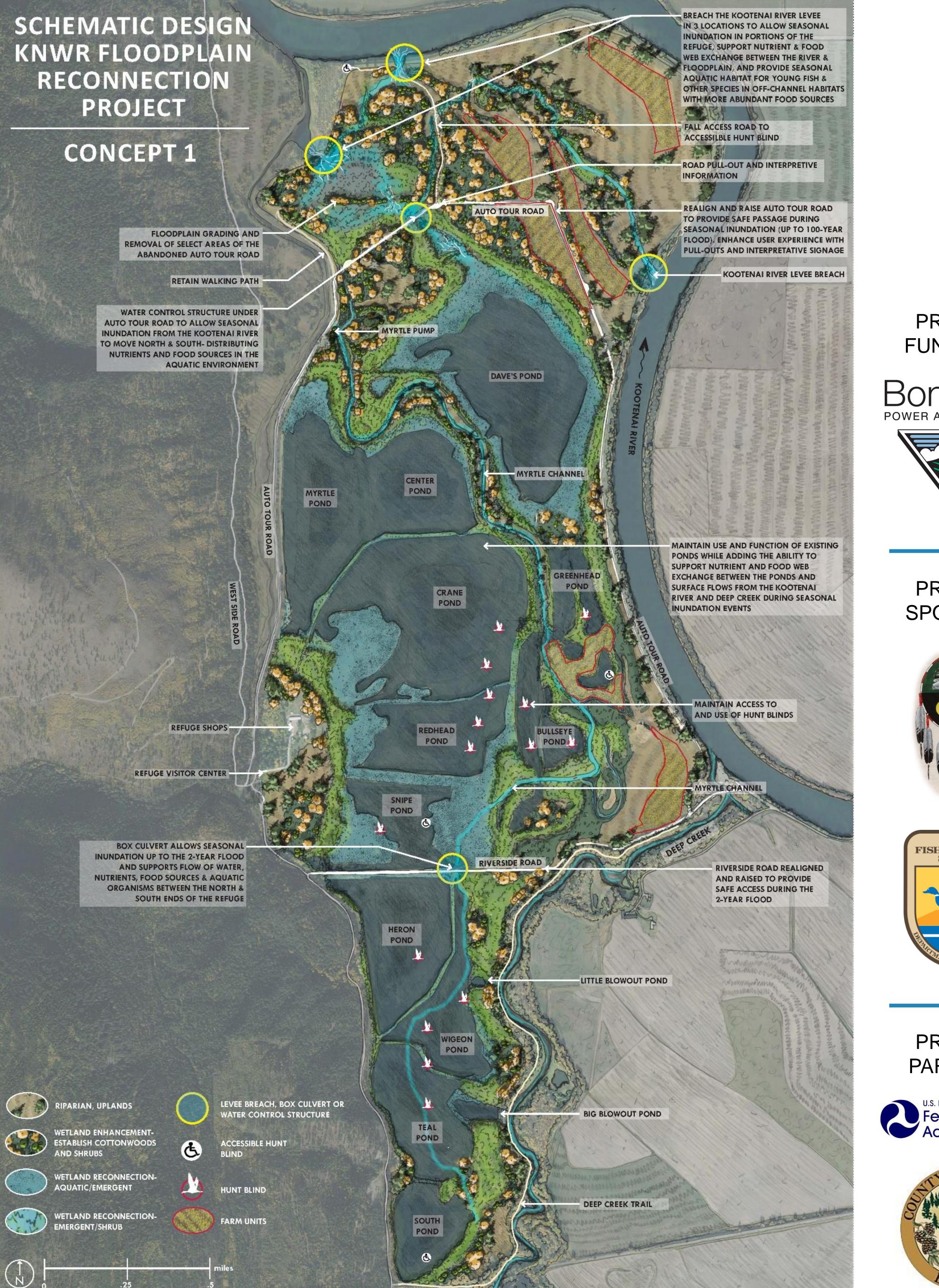
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Existing condition





Project concept 1



PROJECT FUNDED BY





PROJECT **SPONSORS**



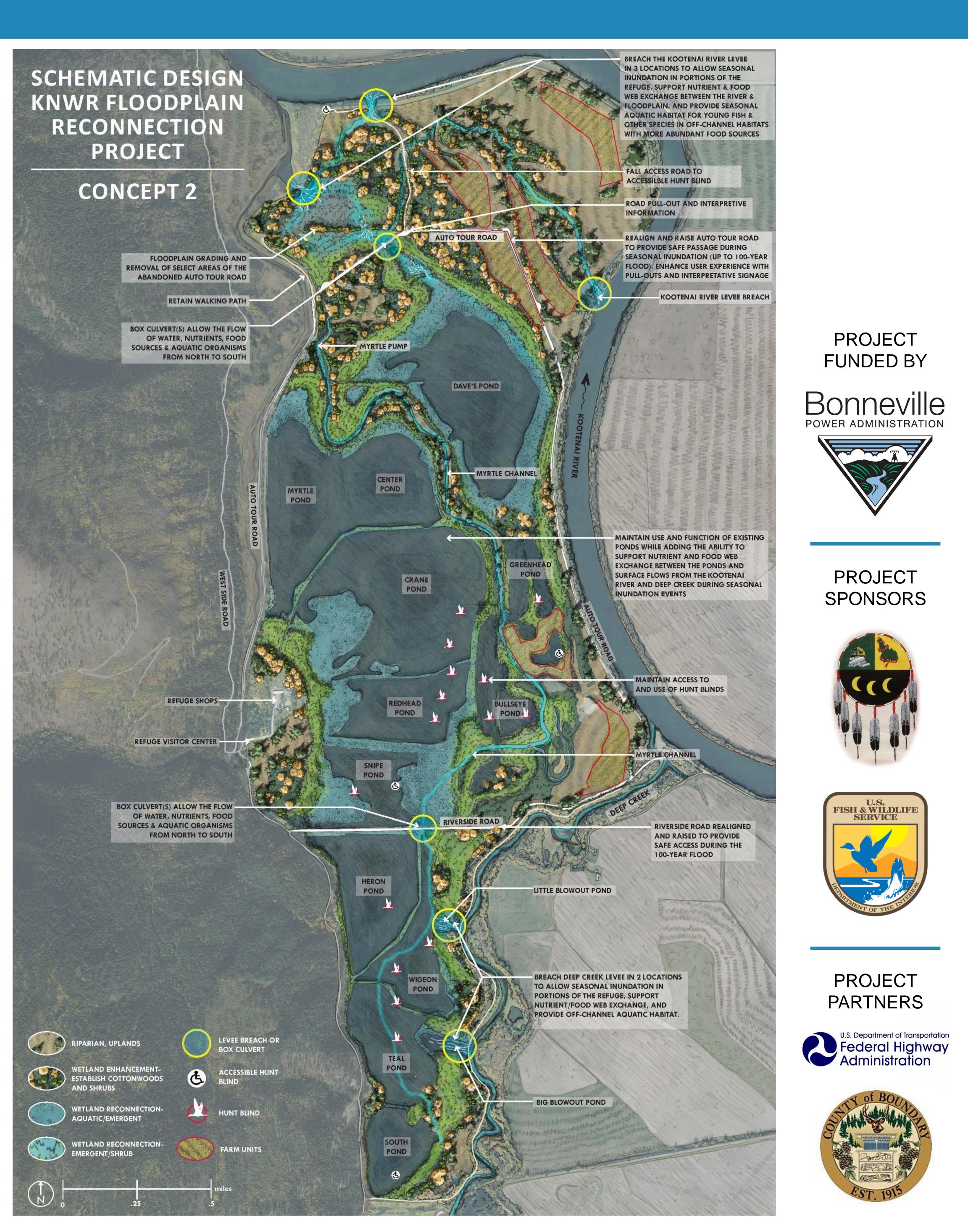
PROJECT PARTNERS

U.S. Department of Transportation Federal Highway Administration

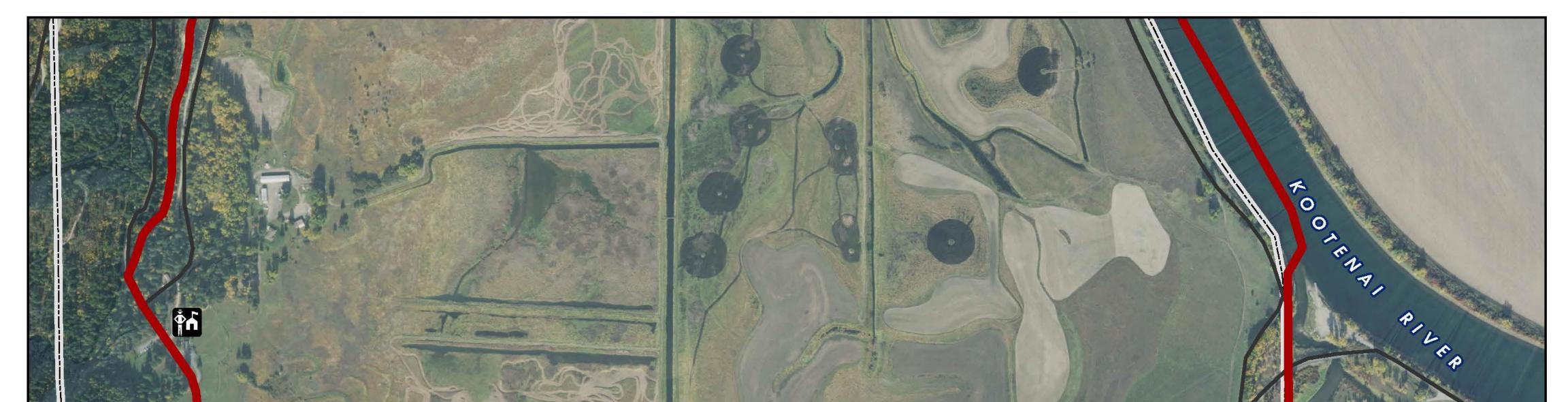




Project concept 2



Riverside road



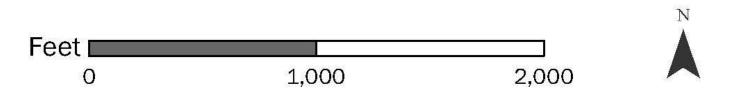
Riverside Road

ion's Den Road



KOOTENAI NATIONAL WILDLIFE REFUGE HEADQUARTERS

– ROAD



Riverside Road Phase 1b Project Area

Elevate and widen the roadway

Environmental Review

What is an EA?

 BPA anticipates preparing an Environmental Assessment (EA) to

analyze the potential environmental and social impacts for this project to determine whether they are significant.

 Preparing an EA supports BPA's decision making on whether to proceed with a proposed action.

BPA plans to conduct this level of

environmental review to ensure that it fulfills National Environmental Policy Act (NEPA) requirements and to assure its compliance with other federal environmental laws such as the Endangered Species Act.

What are your thoughts?

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Your comments will help BPA make better decisions on projects that could affect your community and the environment.

Environmental review schedule

Public comment period ends

May 18, 2024

Consider public comments



Release Draft EA* for comment

Summer 2024

Address comments in the Draft EA* Summer 2024

Release Final EA* and issue decision

Fall 2024

If decision to build, construction start

Summer 2025

*proposed environmental review schedule if

BPA prepares an EA.

How to comment

Call: 800-622-4519

Email: communications@bpa.gov

Write: Bonneville Power Administration Communications- DKS-7 P.O. Box 14428 Portland, OR 97293-4428

Online: <u>www.bpa.gov/comment</u>

Please reference "KNWR Floodplain Reconnection Project" with all communications.

Scoping Comment Period Ends: May 18, 2024

Project contacts:

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