

KALISPEL-PEND OREILLE WETLANDS

9106000

SHORT DESCRIPTION:

Protect, mitigate, & enhance 440 acres of wetlands and riparian habitat along the Pend Oreille River to benefit habitats and target species associated with Albeni Falls Dam losses.

SPONSOR/CONTRACTOR: N/A

Kalispel Tribe of Indians
Ray Entz, Wildlife Biologist
P.O. Box 39, Usk, WA 99180
509/445-1147 osterman@povn.com

SUB-CONTRACTORS:

Local contractor based upon lowest hourly rate for that year; Rankin Excavating, Inc.

GOALS

GENERAL:

Supports a healthy Columbia basin, Maintains biological diversity, Provides needed habitat protection

WILDLIFE:

Habitat, O&M

NPPC PROGRAM MEASURE:

11.3F.1

RELATION TO MEASURE:

This project provides Habitat Unit or wildlife credits to the Bonneville Power Administration for losses associated with the construction of Albeni Falls Dam. The crediting is based upon priority habitats and species identified in the Council's Program in Section 11-4 for the Upper Columbia Basin.

BIOLOGICAL OPINION ID:

N/A

TARGET STOCK

LIFE STAGE

MGMT CODE (see below)

White-tailed deer - deciduous shrub
Muskrat - emergent wetland
Bald Eagle (breeding) - riparian forest
Bald Eagle (wintering) - riparian forest
Yellow Warbler - Scrub-shrub wetland
Black-capped Chickadee - riparian deciduous forest
Canada Goose - wetland/shoreline
Mallard Duck - emergent wetland

AFFECTED STOCK

BENEFIT OR DETRIMENT

Breeding neo-tropical migrants	Beneficial
Small mammals	Beneficial
Amphibians	Beneficial

BACKGROUND

STREAM AREA AFFECTED

LAND AREA INFORMATION

Stream name:

Pend Oreille River

Subbasin:

Upper Columbia

Stream miles affected:

1.25

Land ownership:

Tribal Trust

Hydro project mitigated:

Albeni Falls Dam

Acres affected:

487

Habitat types:

Mixed coniferous deciduous forest; scrub-shrub wetland; open water wetland; emergent wetland - cattail/bullrush; open field - tall grass; riparian black cottonwood riparian forest; shoreline brood rearing habitat; ephemeral wetlands -shorebird habitat.

HISTORY:

Property was purchased by BPA in December, 1992; Interim management agreement and baseline data collected in 1993; Habitat restoration and enhancement efforts are ongoing; land transfer to BIA is expected to be completed in winter of 1997; cooperative efforts to date include: shoreline showcase project with county, county CD, and NRCS.

BIOLOGICAL RESULTS ACHIEVED:

360 habitat Units protected by property purchase; ~89 acres of additional wetlands created through water control structures and management; ~10 acres of black cottonwood reforestation; ~10 acres of other hardwood stand improvements; and site clean-up and hazardous waste soils bio-farming are completed.

PROJECT REPORTS AND PAPERS:

Merker, C.R. 1990. Kalispel Tribe of Indians Wildlife Mitigation and Restoration for Albeni Falls Dam: Flying Goose Ranch Phase I. BPA Technical Report. Monthly progress reports and related documents

ADAPTIVE MANAGEMENT IMPLICATIONS:

Implementation of restoration projects is in a step wise manner allowing adaptive management principles to be utilized to provide cost effective management of the project.

PURPOSE AND METHODS
SPECIFIC MEASUREABLE OBJECTIVES:

Habitat Units for each target species will be enumerated throughout the project. Crediting for BPA will be awarded at 360 H.U's for protection and a minimum of 617 H.U.'s for enhancements.

CRITICAL UNCERTAINTIES:

Funding availability and in-kind habitat for future mitigation opportunities.

BIOLOGICAL NEED:

To protect, mitigate, and enhance high priority habitats in the NPPC program, Section 11, Table 11-4, for Albeni Falls Dam.

HYPOTHESIS TO BE TESTED:

N/A this is not a research project.

ALTERNATIVE APPROACHES:

N/A This project was identified by the Albeni Falls Dam work group as a lost opportunity project.

JUSTIFICATION FOR PLANNING:

N/A This is not a planning project.

METHODS:

Weed Control - EPA approved chemicals applied by a licensed operator and mechanical removal. Perch Tree - Thinning techniques in upland areas to improve stand heights. Reforestation in riparian areas. Tree Density and Riparian - planting hardwoods in riparian areas to increase stems/acre from ~ 100 to ~ 900. Shrub Swamp - Planting native species to increase acres

; increased breeding areas for target species; protected further erosion of shorelines.

Changes assumed or expected for affected environmental attributes:

Same as above with increasing quantities.

Measure of attribute changes:

The project will produce approximately 977 Habitat Units.

Assessment of effects on project outcomes of critical uncertainty:

The project outcomes will be measured using Habitat Evaluation Procedures for each of the seven target species and various peer accepted techniques as required.

Information products:

The project will produce primarily monthly progress reports. An adapted management, M & E and O& M plan will be produced by 2002.

Coordination outcomes:

Coordination for the project has resulted in secured implementation funding, completed NEPA process, published management plan, and adaptive management of the project.

MONITORING APPROACH

Habitat Evaluation Procedures should be used to measure the specific crediting to be issued for the project upon completion and into the future.

Provisions to monitor population status or habitat quality:

Monitoring and evaluation for this project is habitat evaluation procedure, vegetation inventories, species sampling, waterfowl pair counts, and observations.

Data analysis and evaluation:

Project information will be analyzed by comparing subsequent years data against the baseline year.

Information feed back to management decisions:

Project information will be used to identify success of each technique. As techniques succeed or fail, we will use that information along with new peer generated information to adaptively manage the project to benefit target species and habitats as well as considering cost effectiveness.

Critical uncertainties affecting project's outcomes:

N/A No true critical uncertainties exist for the project.

EVALUATION

By using the habitat evaluation procedure the region can positively identify this projects contribution and performance.

Incorporating new information regarding uncertainties:

Using adaptive management techniques, we will identify project needs for meeting the goals of the project. As new information becomes available, we will incorporate it into the management of the project.

Increasing public awareness of F&W activities:

By providing interpretive signs and information to local media, we have informed the public of the Kalispel Tribe's efforts within the NPPC's Program using BPA resources.

RELATIONSHIPS

RELATED BPA PROJECT

5522300 Box Canyon Watershed Project

9500100 Kalispel Resident Fish Project

RELATED NON-BPA PROJECT

Kalispel waterfowl management unit

Campbell Slough wetland project/Colville National Forest,
Newport District

RELATIONSHIP

this area is to be included in watershed activities as it is associated with this project.

the sloughs & homesite area will be used to house the bass rearing areas and production facilities, respectively.

RELATIONSHIP

Reservation project with similar habitat and population enhancement goals.

Adjacent property with similar management goals

OPPORTUNITIES FOR COOPERATION:

Opportunities exist to continue cooperative projects within the project. Presently, the USFWS is providing technical assistance in the creation of nesting islands for waterfowl. Any other opportunities will be utilized to maximize benefits to the project and ultimately any H.U.'s credited toward Albeni Falls losses.

COSTS AND FTE

1997 Planned: \$150,000

FUTURE FUNDING NEEDS:

<u>FY</u>	<u>\$ NEED</u>	<u>% PLAN</u>	<u>% IMPLEMENT</u>	<u>% O AND M</u>
1998	\$150,000	1%	89%	10%
1999	\$150,000	1%	89%	10%
2000	\$150,000	1%	89%	10%
2001	\$150,000	1%	89%	10%
2002	\$50,000	1%	0%	99%

PAST OBLIGATIONS (incl. 1997 if done):

<u>FY</u>	<u>OBLIGATED</u>
1991	\$18,395
1993	\$81,533
1994	\$618,873
1995	\$146,471
1996	\$121,689
1997	\$118,219

TOTAL: \$1,105,180

Note: Data are past obligations, or amounts committed by year, not amounts billed. Does not include data for related projects.

LONGER TERM COSTS: The project will incur O & M costs at approximately \$50,000/year adjusted for inflation.

1997 OVERHEAD PERCENT: 28.7%

HOW DOES PERCENTAGE APPLY TO DIRECT COSTS:

This percentage applies to the direct costs minus capital equipment and contracted services.

CONTRACTOR FTE:

Indicate how many people are directly employed on this project with the primary contractor (not including administrative support funded through overhead charges). 1.5 FTE

SUBCONTRACTOR FTE: .25

