

**Bonneville Power Administration
Fish and Wildlife Program FY98 Watershed Proposal Form**

Section 1. General administrative information

Title **Box Canyon Watershed Project**

Bonneville project number, if an ongoing project 9700300

Business name of agency, institution or organization requesting funding
Kalispel Tribe of Indians

Business acronym (if appropriate) KNRD

Proposal contact person or principal investigator:

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Subcontractors.

Organization	Mailing Address	City, ST Zip	Contact Name

NPPC Program Measure Number(s) which this project addresses.

10.8B.15

NMFS Biological Opinion Number(s) which this project addresses.

Does not apply

Other planning document references.

Kalispel Natural Resource Department (KNRD). 1997. Fish and Wildlife Management Plan

Resident Fish Manager's Caucus. 1997. Multi-Year implementation plan for resident fish protection, enhancement and mitigation in the Columbia River Basin. Columbia Basin Fish and Wildlife Authority. Portland, OR.

Subbasin.
Pend Oreille

Short description.

Compliment efforts of the Kalispel Resident Fish Project through protection and enhancement of upland areas in a target watershed.

Section 2. Key words

Mark	Programmatic Categories	Mark	Activities	Mark	Project Types
	Anadromous fish		Construction	X	Watershed
X	Resident fish		O & M	*	Biodiversity/genetics
*	Wildlife	*	Production		Population dynamics
	Oceans/estuaries	*	Research	*	Ecosystems
	Climate	*	Monitoring/eval.		Flow/survival
	Other	X	Resource mgmt		Fish disease
		*	Planning/admin.	*	Supplementation
		*	Enforcement	*	Wildlife habitat enhancement/restoration
			Acquisitions		

Other keywords.

Section 3. Relationships to other Bonneville projects

Project #	Project title/description	Nature of relationship
9500100	Kalispel Tre Resident Fish	Complimentary
9700400	Resident Fish Stock Status Above Chief Joseph and Grand Coulee Dams	Complimentary
9106000	Pend Oreille Wetlands Wildlife Mitigation Project	Wildlife habitat improvement on adjacent land
9106001	Pend Oreille Wetlands II	Wildlife habitat improvement on adjacent land

Section 4. Objectives, tasks and schedules

Objectives and tasks

Obj 1,2,3	Objective	Task a,b,c	Task
1	Identify degraded fish habitat	a	Search and analyze existing data on

			Cee Cee Ah creek
2	Identify upland management strategies that impact fish habitat	b	Associate upland management with degraded fish habitat
3	Prioritize upland watershed problem areas	c	Identify upland management activities most significantly contributing to degraded fish habitat
4	Prioritize protection, enhancement, and restoration projects within the target watershed	d	Develop on-the-ground projects
		e	Implement prioritized projects
5	Use information gathered in Objectives 1, 2, 3, & 4 to address other watersheds within the Box Canyon reach	f	Same as above tasks.

Objective schedules and costs

Objective #	Start Date mm/yyyy	End Date mm/yyyy	Cost %
1	5/1997	12/1997	20.00%
2	5/1997	12/1998	15.00%
3	1/1998	12/1999	15.00%
4	1/1998	12/2003	40.00%
5	1/2003	12/2003	10.00%
			TOTAL 100.00%

Schedule constraints.

It is impossible to identify all constraints and problems that may occur. While we will make every attempt to stay on schedule, unforeseen assignments, bad weather, equipment failure, etc. will delay progress.

Completion date.

2003+

Section 5. Budget

FY99 budget by line item

Item	Note	FY98
Personnel		\$30,371
Fringe benefits	33%	\$10,022
Supplies, materials, non-		\$5,091

expendable property		
Operations & maintenance		
Capital acquisitions or improvements (e.g. land, buildings, major equip.)		
PIT tags	# of tags:	
Travel		\$5,500
Indirect costs	28.7%	\$16,825
Subcontracts		
Other		\$3000
TOTAL		\$70,809

Outyear costs

Outyear costs	FY99	FY00	FY01	FY02
Total budget	\$72,000	\$74,900	\$77,900	\$81,200
O&M as % of total	5.00%	5.00%	5.00%	5.00%

Section 6. Abstract

The Box Canyon Watershed Project (BCWP) (NWPPC program measure 10.8B.15) was initiated by the Kalispel Natural Resource Department to assist in meeting biological objectives of the Kalispel Resident Fish Project. Initial focus of the project is Cee Cee Ah Creek watershed due to its proximity to the reservation, importance as a traditional fishery, and potential for bull and cutthroat trout recovery. The ongoing Kalispel Resident Fish Project is focused mainly on instream assessment and improvements. Implementing upland watershed protection and enhancement through the BCWP will reduce negative impacts of upland management strategies and increase protection and enhancement efforts of the ongoing Kalispel Resident Fish Project.

Section 7. Project description

a. Technical and/or scientific background.

The Box Canyon reach of the Pend Oreille river consists of 90 km of river impounded by Box Canyon dam to the north, and Albeni Falls dam to the south. The reach has 47 tributaries; Cee Cee Ah creek is the only major tributary that flows through the reservation. Initially, primary focus of the project is Cee Cee Ah Creek due to its proximity to the reservation, importance as a traditional fishery, and it's selection by Kalispel Natural Resource Department (KNRD) biologists as a priority stream based on its high potential for enhancement. The ongoing Kalispel Resident Fish Project focuses on fishery population and habitat assessment, and stream restoration in seven major tributaries to the Box Canyon reach. Primary foci of fishery habitat improvement are

instream and riparian projects. The Box Canyon Watershed Project (BCWP) is intended to compliment the Kalispel Resident Fish Project by providing protection and enhancement of watersheds within the Box Canyon reach (NWPPC measure number 10.8B.15). The BCWP is intended to broaden the scope of KNRD involvement in local resource management by providing opportunities to work with state, federal, and private landowners involved in upland resource management.

The BCWP will rely on cost-share opportunities with state, federal, and private landowners to implement protection and enhancement projects within the Cee Cee Ah creek watershed. Active restoration projects such as stream structures, road removal or modification, stabilization of sediment sources, riparian planting, and culvert replacements (Doppelt et al. 1993; Williams et al., in press) are quite feasible. Cost-share partners at this time are the U.S. Forest Service, Washington State Department of Natural Resources, and USDA Natural Resource Conservation Service. Once established, the project will provide avenues to facilitate protection and enhancement effort in other watersheds within the Box Canyon reach.

b. Proposal objectives.

1. Increase enhancement efforts of the ongoing Kalispel Resident Fish Project.
2. Coordination with land management entities in the Cee Cee Ah creek watershed and Box Canyon Reach.
3. Identify of upland land management strategies that have a negative effect on fish habitat.
4. Develop of upland habitat enhancement projects.
5. Implement of upland projects.
6. Identify other target watersheds based on management needs of the Kalispel Resident Fish Project.

c. Rationale and significance to Regional Programs.

The Box Canyon Watershed Project (BCWP) is intended to compliment efforts of resource managers within the Pend Oreille Subbasin. It is listed in the Resident Fish Manager's Caucus Multi-Year Implementation Plan (MYIP) section 6.6.4.5 and will address objective 10.8.B.15 in Northwest Power Planning Council's Fish and Wildlife Management Plan.

The BCWP will address the need for upland habitat enhancements in a watershed where there are multiple landowners (USFS, State, Tribal, and private) that actively participate with the KNRD in co-management of natural resources (Kalispel Natural Resource Department 1997).

d. Project history

The Box Canyon Watershed Project was one of four resident fish projects placed on a pending list for funding in 1997. Funding projection for FY1997 after a four-percent

across the board cut was \$61,260. The project initially began with partial funding of \$17,356, and \$43,904 was reallocated midway through the Fiscal Year to fully fund the project at \$61,260 for FY1997.

e. Methods.

Methods for the project are to first identify upland management strategies within the target watershed that are negatively impacting instream bull and cutthroat trout habitat. Impacts occur from timber harvest and road construction and the resulting erosion, sedimentation, riparian damage, and lack of large woody debris recruitment. Second, through current literature review and consultation with land managers and other specialists, develop habitat protection and enhancement projects. Third, propose habitat protection and enhancement projects to land managers within the watershed. Fourth, implement proposed projects. Methodologies for individual on-the-ground projects will vary and will be identified as projects progress.

f. Facilities and equipment.

The Kalispel Natural Resource Department has all suitable facilities and equipment required to implement the project. KNRD is well equipped with quality office equipment, vehicles, field equipment, and computer system. The computer system used to store, compile, analyze data, and prepare reports has the following components:

- Dell 6200/OP GXpro Pentium Pro 200Mhz/256K
- Integrated 3COM 10/100BT
- 32MB EDO ECC RAM, 1 DIMM
- 8X scsi CD ROM
- STB PCI 2MB Video Board
- Dell 1000LS Color Monitor
- 1.44MB Floppy Drive
- 2GB SCSI Hard Drive W/2940UW controller
- 3C900-COMBO ENET Network Card
- Windows NT Workstation 4.0 CD
- GSA Office Pro 97
- 104 Keyboard
- Mouse and Mouse Pad
- APC Smart-UPS 700

g. References.

Doppelt, B. M. Scurlock, C. Frissel, and J. Kar. 1993. Entering the watershed: a new approach to save America's river ecosystems. Island Press, Washington, DC.

Herrin M. 1997. USDA Forest Service, Colville National Forest, Newport Ranger District. Wildlife Biologist.

Kalispel Natural Resource Department (KNRD). 1997. Fish and Wildlife Management Plan.

Kalispel Natural Resource Department (KNRD). 1997. Kalispel Resident Fish Project, Annual Report 1995.

Northwest Power Planning Council. 1995. Columbia River Basin Fish and Wildlife Program: Resident Fish and Wildlife Amendmants, September 13, 1995 95-20.

Resident Fish Manager's Caucus. 1997. Multi-Year implementation plan for resident fish protection, enhancement and mitigation in the Columbia River Basin. Columbia Basin Fish and Wildlife Authority. Portland, OR.

Williams, J. E., C. A. Wood, and M. P. Dombek, eds. In press. Watershed restoration: principles and practices. American Fisheries Society, Bethesda, MD.

Section 8. Relationships to other projects

The Box Canyon Watershed Project (BCWP) is intended to compliment the activities of the ongoing Kalispel Resident Fish Project by providing an upland management component. The BCWP will focus on upland protection and enhancement projects where there is a connection between upland resource management and instream habitat degradation. Coordination with land managers is essential and the Kalispel Natural Resource Department (KNRD) already has a well-established co-management relationship with the USFS Colville NF-Newport District, USFS Colville NF-Sullivan Lake District, Washington State Department of Natural Resources, and Stimson Lumber Company; all landowners within the target watershed. The majority of KNRD work takes place on USFS land. Fish and wildlife management objectives are outlined in the Collville National Forest Plan (Mike Herrin 1997, pers. comm.). KNRD biologists work closely with USFS biologists to implement fish and wildlife projects according to agency and tribal management objectives. Other agencies or organizations that participate in projects with the KNRD include USDA Natural Resource Conservation Service, Pend Oreille Conservation District, Rocky Mountain Elk Foundation, Trout Unlimited, Ducks Unlimited, and Spokane Flyfishers. These organizations provide cost-share and in-kind donations for on-the-ground fish and wildlife projects.

Section 9. Key personnel

People working on this project will require a wide range of professional requirements and skills. All people (including subcontractors) working on this project will meet or exceed specific qualifications needed to implement this project as outlined by the Kalispel Tribe of Indians.

Section 10. Information/technology transfer

Information obtained from the project will be distributed in the form of monthly, quarterly, and annual project reports, presentations in work groups, local conservation newsletters, meetings, and field trips with local resource managers.