



COLUMBIA RIVER WATER MANAGEMENT PROGRAM GRANT APPLICATION

OFFICE USE ONLY: CR 01 07 01
<input type="checkbox"/> Draft/Worksheet
<input type="checkbox"/> Submission/ Final Date Rcvd: ___/___/___

Project Name: Rock Lake Water Storage

County: Whitman

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS

1. APPLICANT INFORMATION		
APPLICANT/BUSINESS NAME Palouse-Rock Lake Conservation District	PHONE NO. (509) 648.3680	FAX NO. (509) 648.3772
ADDRESS P. O. Box 438 3 Park St		
CITY St. John	STATE WA	ZIP CODE 99171

2. NEW (PROPOSED) WATER USE AND PROJECT BUDGET
PROJECT NAME Rock Lake Water Supply and Habitat Enhancement Study
PROJECT LOCATION St. John
STREAM REACH MILE/ LOCATION Rock Lake
PROJECT DESCRIPTION (TYPE) Rock Lake Water Supply and Habitat Enhancement Study
<p>We propose to study whether it is feasible to constructing construct a dam on Rock Lake that will provide cool water storage for downstream utilization, that will enhance fish and wildlife habitat and that will generate small amounts of electricity. Rock Lake is located 8 miles northwest of St. John, Washington. It is approximately 8 miles long and up to 1/2 of a mile wide and up to 300 feet deep. Rock Lake is fed by Rock Creek, Negro Creek, Pine Creek and their tributaries, which combined drain more than 300 square miles. Rainfall in the catchment area ranges from an average of 15 per year in the western portion to 26 inches in the eastern section, which extends north into the foothills of the Selkirk Mountains. This area receives the majority of our moisture between November and May. Summer storms are rare, but can significantly increase stream flow.</p> <p>Phase one of the study will address whether there is sufficient water available from the catchment basin to warrant a dam site at Rock Lake. Phase Two of the study will address potential constraints on using this water, including Geological, Cultural, Regulatory, Stakeholder, Recreational and cost to benefit ratio's constraints.</p>

A dam on Rock Lake would stabilize the water supply to right-holders below the dam by creating a steady flow of water that could be utilized during summer months. It would have no significance to water rights holder above the dam. There is no municipal or industrial demand for this water to the confluence of the Palouse River.

A significant amount of this water could be used to supply the Lower Snake River with a cool water source to enhance fish and wildlife habitat projects downstream. This project may also enhance fish and wildlife habitat on Rock Lake while creating new recreational opportunities on both the Lake and the watercourses downstream. Currently, the lake provides habitat for Brown Trout, Rainbow Trout, Smallmouth Bass and Crappie along with providing habitat for ducks, geese.

A dam on Rock Lake may also provide a modest amount of hydropower to be utilized either locally or by the Bonneville Power Administration. At the same time a dam would provide flood control thereby decreasing the incidence of floods on agricultural property downstream.

The more consistent controlled flow from the dam also would decrease stream temperatures and increase oxygen in the water. Rock Creek is currently on the Department of Ecology 303(d) list due to high temperatures and lack of dissolved oxygen.

With relatively limited construction, this project could raise the level of Rock Lake and supply approximately 120,000 acre feet of water to release during critical migration periods of the Lower Snake and Columbia Rivers. This is a conservative estimate and would cause very limited disruption to the shoreline. It would also increase recreational uses.

The possibility of a dam on Rock Lake was first raised in the late 1930's to early 1940's by the Army Corps of Engineers. Indeed, base columns have already been installed for an irrigation dam. These were abandoned as the dam would be difficult to implement due to the local topography. We believe that modern approaches may be sufficient to overcome these difficulties. The reward for such construction would be downstream benefits to agriculture through stabilization of water flows, and habitat improvements for fish and wildlife through the Lower Snake River System, and the Columbia Basin Water Management Area as well.

FEASIBILITY STUDY BUDGET \$50,000

OPERATIONS AND MAINTENANCE BUDGET
(INDICATE DURATION OF AGREEMENT PROPOSED)

	MATERIALS	LABOR
ESTIMATED CONSTRUCTION COST		
DESIGN FEES		
PROFESSIONAL FEES		
SOFT COSTS (ALL PERMITS, LOCAL FEES, AND SO ON)		
OTHER CONTINGENCIES		

3. DETAILED PROJECT DESCRIPTIONS

(PROVIDE EXPLANATIONS AS REQUESTED. ESTIMATE PROJECT AMOUNTS (COSTS, WATER QUANTITIES, AND SO ON) AS CLOSELY-AS POSSIBLE.

A. PROJECT COSTS AND FUNDING SOURCES

TOTAL PROJECT AMOUNT REQUESTED FROM THIS PROGRAM
(DOLLAR TOTAL AND PERCENT OF PROJECT BUDGET)

TOTAL EXPECTED COST (PROGRAM GRANT) PER ACRE FOOT OF WATER GAINED FOR THE PROGRAM FROM THIS PROJECT.

B. FUNDING SOURCE INFORMATION

TOTAL PROJECT AMOUNT EXPECTED TO BE PROVIDED BY SOURCES OTHER THAN THIS PROGRAM (DOLLAR TOTAL AND PERCENT OF PROJECT BUDGET)

IDENTIFY SOURCES AND TYPE OF FUNDING OTHER THAN THROUGH THIS PROGRAM GRANT. INCLUDE EXPECTED DATES OF PARTICIPATION. INCLUDE AS AN ATTACHMENT; LETTERS OF COMMITMENT, OFFER LETTERS, APPLICATION APPROVALS, AND SO ON.

SOURCE AND TYPE OF FUNDING: _____

AMOUNT: _____

STATUS: _____

DATES OF PARTICIPATION: _____

SOURCE AND TYPE OF FUNDING: _____

AMOUNT: _____

STATUS: _____

DATES OF PARTICIPATION: _____

SOURCE AND TYPE OF FUNDING: _____

AMOUNT: _____

STATUS: _____

DATES OF PARTICIPATION: _____

SOURCE AND TYPE OF FUNDING: _____

AMOUNT: _____

STATUS: _____

DATES OF PARTICIPATION: _____

SOURCE AND TYPE OF FUNDING: _____

AMOUNT: _____

STATUS: _____

DATES OF PARTICIPATION: _____

SOURCE AND TYPE OF FUNDING: _____

AMOUNT: _____

STATUS: _____

DATES OF PARTICIPATION: _____

C. ESTIMATED TOTAL WATER SAVINGS

CONSERVATION PROJECT: ESTIMATE THE WATER TO BE CONSERVED THROUGH THIS PROJECT. PROVIDE ENGINEERING OR TECHNICAL ANALYSIS TO SUPPORT THIS ESTIMATE.

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
Qa (ACRE-FEET)													
Qi (CFS)													

HOW MUCH WATER IS THE APPLICANT PREPARED TO PLACE IN TRUST? _____ AF
(NOTE: THE MINIMUM TRUST QUANTITY IS PROPORTIONATE TO FUNDING UNDER THIS PROGRAM.)

HOW MUCH OF THE TRUST WATER QUANTITY ACCRUES IN A TRIBUTARY? (AMOUNT) _____

TRIBUTARY NAME _____

HOW MUCH OF THE TRUST WATER QUANTITY ACCRUES TO THE COLUMBIA RIVER? (AMOUNT) _____

STORAGE PROJECT: ESTIMATE THE WATER TO BE STORED UNDER THIS PROJECT. PROVIDE ENGINEERING OR TECHNICAL ANALYSIS TO SUPPORT THIS ESTIMATE. ESTIMATED ACRE-FEET= _____ AF

ESTIMATE THE TOTAL QUANTITIES AND TIMING WATER WILL BE DIVERTED INTO STORAGE BELOW.

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOT
Qa (ACRE-FEET)													
Qi (CFS)													

HOW MUCH STORED WATER IS THE APPLICANT PREPARED TO ASSIGN FOR STATE USE FOR THE COLUMBIA RIVER PROGRAM?
_____ AF

NOTE: THE MINIMUM QUANTITY ASSIGNED IS PROPORTIONATE TO FUNDING UNDER THIS PROGRAM.

HOW MUCH OF THE STORED WATER QUANTITY WILL BE RELEASED IN A TRIBUTARY? _____ AF

TRIBUTARY NAME _____

HOW MUCH OF THE STORED WATER QUANTITY WILL BE RELEASED TO THE COLUMBIA RIVER? _____ AF

FOR THE PORTION OF STORED WATER ASSIGNED TO THE STATE, DESCRIBE ANY CONSTRAINTS (HYDRAULIC, DEMAND, ETC.) ON THE RELEASE OF THE WATER FOR STATE USE.

D. TO WHAT EXTENT IS THE PROJECT CONSISTENT WITH, SUPPORTIVE TO, OR CITED IN LOCAL NATURAL RESOURCE PLANS?

CITATION PROVIDED ✓	PLAN TYPE	PLAN TITLE	PAGE NUMBER OR OTHER CITATION
<input type="checkbox"/>	WATERSHED PLAN		
<input type="checkbox"/>	CONSERVATION DISTRICT		
<input type="checkbox"/>	LEAD ENTITY STRATEGY		
<input type="checkbox"/>	NPCC SUBBASIN PLAN		
<input type="checkbox"/>	SALMON RECOVERY PLAN		
<input type="checkbox"/>	OTHER RECOVERY PLAN		
<input type="checkbox"/>	COMPREHENSIVE WATER SYSTEM PLAN		
<input type="checkbox"/>	GMA COMPREHENSIVE PLAN		
<input type="checkbox"/>	OTHER PUBLISHED PLAN		
<input type="checkbox"/>	OTHER PUBLISHED PLAN		

**E. ATTACH LETTERS OF SUPPORT FROM LOCAL COMMUNITY ENTITIES INVOLVED IN NATURAL RESOURCES.
Provide entity type and title, and attach letters to application.**

LETTER PROVIDED ✓	PLANNING ENTITY TYPE	PLANNING ENTITY TITLE
<input type="checkbox"/>	TRIBE	
<input type="checkbox"/>	COUNTY	
<input type="checkbox"/>	WATERSHED PLANNING UNIT	
<input type="checkbox"/>	CONSERVATION DISTRICT	
<input type="checkbox"/>	IRRIGATION DISTRICT	
<input type="checkbox"/>	SALMON RECOVERY LEAD ENTITY	
<input type="checkbox"/>	OTHER PLANNING ENTITY	

F. RESOURCES CURRENTLY COMMITTED TO ENSURE LONG-TERM PERFORMANCE OF THE PROPOSED PROJECT (OPERATION AND MAINTENANCE).

WHO IS RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PROJECT? _____

HAVE OPERATION AND MAINTENANCE COSTS BEEN IDENTIFIED? YES NO. IF YES, PROVIDE REFERENCE. _____

HOW WILL ONGOING OPERATION AND MAINTENANCE COSTS BE FUNDED? _____

ARE MEASUREMENT DEVICES OTHER THAN DIVERSION SOURCE METERS NECESSARY TO MONITOR COMPLIANCE WITH THE PROJECT INTENT OR PLAN? IF YES, DESCRIBE IN THE BOX BELOW. YES NO

DOES A WATER MEASUREMENT DEVICE EXIST ON THE SOURCE AND DOWNSTREAM OF THE PROPOSED PROJECT? YES NO

IF NO, WILL A WATER MEASUREMENT DEVICE BE INSTALLED AS PART OF THIS PROJECT? YES NO

IF YES, DESCRIBE LOCATION AND OPERATING ENTITY _____

IF YES, PROVIDE RIVER MILE _____

WHAT IS THE NEAREST STREAM GAGE DOWNSTREAM OF THE PROPOSED PROJECT? SOURCE NAME _____

—

RIVER MILE : _____

—

G. PROPONENT'S READINESS TO PROCEED:

DESCRIBE STATUS OF FEASIBILITY REPORTS, ENGINEERING DESIGN, AND PERMITS. PROVIDE DOCUMENTATION FOR THESE DELIVERABLES AND DESCRIBE THE PROJECT EFFORT TIMELINE AS APPROPRIATE. (SUBMIT TWO (2) COPIES OF ALL REQUIRED DOCUMENTS)

This project is in it's infancy and many of the requests in this portion are unavailable.

DOES PROJECT PROPONENT OWN THE LAND FOR THE PROPOSED PROJECT? IF NOT, DOES THE PROPONENT HAVE DOCUMENTED ACCESS TO THE RIGHT OF WAY OR OWNS AN EASEMENT TO THE PROPERTY PROPOSED (PLEASE ATTACH APPROPRIATE DOCUMENTATION INCLUDING TITLE REPORTS AS APPLICABLE)

DESIGN/ ENGINEERING STATUS:

- | | | | |
|-----------------------------------|--------------------------|---------|-------|
| PRE-PLANNING (Pre -- permitting) | <input type="checkbox"/> | Status: | _____ |
| PRE-DESIGN (DESIGN REPORTS) (10%) | <input type="checkbox"/> | Status: | _____ |
| SCHEMATIC DESIGN (30%) | <input type="checkbox"/> | Status: | _____ |
| DESIGN DEVELOPMENT (75%) | <input type="checkbox"/> | Status: | _____ |
| CONSTRUCTION DOCUMENTS (95%) | <input type="checkbox"/> | Status: | _____ |
| BID DOCUMENTS (Ready for bid) | <input type="checkbox"/> | Status: | _____ |

PERMIT STATUS

- | | | | |
|--------------------------------------|--------------------------|---------|-------|
| SEPA | <input type="checkbox"/> | Status: | _____ |
| 401 | <input type="checkbox"/> | Status: | _____ |
| FISH AND WILDLIFE CONSULTATION | <input type="checkbox"/> | Status: | _____ |
| STORAGE AND /OR SECONDARY USE PERMIT | <input type="checkbox"/> | Status: | _____ |
| OTHER (_____) | <input type="checkbox"/> | Status: | _____ |
| OTHER (_____) | <input type="checkbox"/> | Status: | _____ |
| OTHER (_____) | <input type="checkbox"/> | Status: | _____ |

