



85305 Snively Road  
West Richland, WA 99353  
Phone/Fax 509-967-3023

March 24<sup>th</sup>, 2008

Dept. of Ecology  
Water Resources Program  
PO Box 47600  
Olympia, WA 98504-7600

Subject: CRBWMP Grant Funding Application Program

The Barker Ranch is pleased to submit our grant application describing our proposed project to change the Horn Rapids Canal from an open ditch to a closed pipe system. The overall goal of this project is to conserve water in the lower Yakima and Columbia Rivers by saving conveyance losses in the Horn Rapids Canal. Converting the canal from an open ditch system to a closed pipe system will provide The Dept. of Ecology 10.5 CFS, or 6,436 acre-feet, of water annually. This very significant amount of water will remain in the rivers to help with fish, habitat, and human issues and not be diverted into Horn Rapids Canal. We feel the most significant value of this water will be during low flow times during summer months with 2,957 acre-feet of water being saved during the months of June through October.

Over the past years, Barker Ranch has been aggressive in water management and efficiencies on the ranch. We have worked with the Natural Resource Conservation Service, Ducks Unlimited, US Bureau of Reclamation, WA Department of Ecology, and others to more effectively and efficiently measure and distribute our water. Within the last year, Barker Ranch has installed a new state-of-the-art water measuring weir, converted over 3,300 feet of open ditch to underground pipe, and is participating in a water measuring weir automation project to automatically and remotely report water usage to the WA Department of Ecology. This automation project is called the Columbia and Yakima Rivers Internet and Automation Pilot Project lead by Dr. Ken Schuster, Statewide Water Metering Coordinator, of the WA Department of Ecology.

The Baker Ranch has a long standing reputation for working with various organizations for conservation and habitat improvement. We have worked seemingly countless hours with the NRCS, DU, and many other conservation organizations to achieve extensive wildlife habitat and water efficiency improvements on the ranch. We have demonstrated ourselves to be innovative, flexible and committed to numerous important outcomes. Barker Ranch has also worked with several water management agencies including the



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Dept. of Ecology to be early adaptors of technology and leaders in demonstrating new approaches to conservation and water management. Our relationship with NRCS is of mutual respect and the ranch has become a show piece to demonstrate the effectiveness of their program.

As part of our efforts for the CRBWMP Grant Funding Application, we have worked with the NRCS and Ray Poland and Sons contractors to develop preliminary design and cost estimates of the proposed project. The project is designed to provide approximately 3.06 miles of 54 inch HDPE closed pipe and corresponding structures to reduce the conveyance losses to the ranch. Ray Poland and Sons have provided a formal bid of \$5,605,897.00, which does not include WA State sales tax and is good for 90 days. The total expected cost per acre-foot for this project is \$871.09. However, according to Dr. Darryll Olsen of the Pacific Northwest Project in a report to Barker Ranch dated February 28, 2008, the estimated capital value range for water on Barker Ranch was between \$750 - \$1,500/acre-foot. He estimated the mid-range value of \$1,125/acre-foot, resulting in the value of the water to be donated for this project to be \$7,240,500.00.

The Barker Ranch has a court established water right and clear easement of the canal land. We are ready to proceed immediately with the project upon receiving the grant and will work aggressively to obtain the permits necessary to complete the project. Once the project is completed, Barker Ranch will be responsible for operation and maintenance of the piping system.

Barker Ranch is committed to working with the Dept. of Ecology to demonstrate the success and effectiveness of this project. If you have any questions regarding our grant application, please feel free to contact our General Manager, Michael Crowder at (509) 967-3023, ([barkerranch@verizon.net](mailto:barkerranch@verizon.net)), or myself at (509) 947-5222 ([hfhq@televar.com](mailto:hfhq@televar.com)).

Respectfully,

Bart Gallant  
President, Barker Ranch Ltd.

RECEIVED

MAR 31 2008

Water Resources Program  
Department of Ecology



# 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:** Horn Rapids Canal Piping

**County:** Benton County, Washington

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS

1. APPLICANT INFORMATION		
APPLICANT/BUSINESS NAME The Barker Ranch	PHONE NO. (509) 967-3023	FAX NO. (509) 967-3023
ADDRESS 85305 Snively Road		
CITY West Richland	STATE WA	ZIP CODE 99353

2. NEW (PROPOSED) WATER USE AND PROJECT BUDGET		
PROJECT NAME Horn Rapids Canal Piping		
PROJECT LOCATION Benton County, Washington		
STREAM REACH MILE/ LOCATION The Yakima River below Wannawish/Horn Rapids Dam, approximately river mile 18		
PROJECT DESCRIPTION (TYPE) Conservation - Pumps/Pipes: Converting Horn Rapids Canal from an open ditch system to a closed pipe system. This will allow 10.5 CFS, or 6,436 AF, of water to remain in the Yakima River to help with fish and habitat issues on the Yakima and Columbia Rivers, with 2,957 AF of water being saved during the months of June through October.		
FEASIBILITY STUDY BUDGET None requested		
OPERATIONS AND MAINTENANCE BUDGET (INDICATE DURATION OF AGREEMENT PROPOSED) None - Barker Ranch will operate and maintain system.		
	MATERIALS	LABOR
ESTIMATED CONSTRUCTION COST	\$3,806,000.00	\$1,176,270.00
DESIGN FEES	\$20,000.00	\$35,000.00
PROFESSIONAL FEES	\$15,000.00	\$26,000.00
SOFT COSTS (ALL PERMITS, LOCAL FEES, AND SO ON)	\$10,000.00	\$8,000.00
OTHER CONTINGENCIES	\$385,100.00	\$124,527.00

### 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)

The total amount requested is \$5,605,897.00 (100%). This amount includes \$4,236,100.00 for materials (76%) and \$1,369,797.00 for labor (24%). The enclosed bid does not include WA State sales tax and is good for 90 days from submission of the application.

TOTAL EXPECTED COST (PROGRAM GRANT) PER ACRE FOOT OF WATER GAINED FOR THE PROGRAM FROM THIS PROJECT.  
The total expected costs per acre foot for this project is \$871.09. However, according to Dr. Darryll Olsen of the Pacific Northwest Project in a report to Barker Ranch dated February 28, 2008, the estimated capital value range for water on Barker Ranch was between \$750 - \$1,500 per acre foot. He estimated the mid-range value of \$1,125/acre-ft, resulting in the value of the water to be donated for this project to be \$7,240,500.00.

#### B. FUNDING SOURCE INFORMATION

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

0%

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: None proposed

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: NA \_\_\_\_\_

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: \_\_\_\_\_



**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 checked="" type="checkbox"/>	WATERSHED PLAN	Detailed Implementation Plan of the Yakima Basin	2 - 4
<input checked="" type="checkbox"/>	CONSERVATION DISTRICT	Consistent with the Benton Conservation District's 5 Year Plan 2008-2015, Water Quality Issues and Savings	1-2
<input type="checkbox"/>	LEAD ENTITY STRATEGY		
<input checked="" type="checkbox"/>	NPCC SUBBASIN PLAN	Consistent with Northwest Power and Conservation Council's Yakima Subbasin Plan 2004	4.2.3
<input type="checkbox"/>	SALMON RECOVERY PLAN		
<input checked="" type="checkbox"/>	OTHER RECOVERY PLAN	USDA - NRCS/Barker Ranch Wetland Reserve Program's Wetland Restoration Plan	2002
<input type="checkbox"/>	COMPREHENSIVE WATER SYSTEM PLAN		
<input checked="" type="checkbox"/>	GMA COMPREHENSIVE PLAN	Benton County Washington's Comprehensive Plan - Natural Resources Element	2-20,21
<input checked="" type="checkbox"/>	OTHER PUBLISHED PLAN	Ecologically Sensative Areas of Benton County	1982
<input checked="" type="checkbox"/>	OTHER PUBLISHED PLAN	Columbia and Yakima Rivers Internet and Automation Pilot Project - WA DOE	2008

**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 checked="" type="checkbox"/>	COUNTY	Yakima Basin Water Resources Agency
<input checked="" type="checkbox"/>	WATERSHED PLANNING UNIT	Yakima Basin Fish & Wildlife Recovery Board
<input checked="" type="checkbox"/>	CONSERVATION DISTRICT	Benton Conservation District Benton Conservation Association
<input type="checkbox"/>	IRRIGATION DISTRICT	
<input type="checkbox"/>	SALMON RECOVERY LEAD ENTITY	
<input checked="" type="checkbox"/>	OTHER PLANNING ENTITY	Natural Resource Conservation Service Richland Rod and Gun Club Ducks Unlimited

**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? Barker Ranch will be responsible for operation and maintenance upon completion of the piping system.

HAVE OPERATION AND MAINTENANCE COSTS BEEN IDENTIFIED?  YES  NO IF YES, PROVIDE REFERENCE \_\_\_\_\_

HOW WILL ONGOING OPERATION AND MAINTENANCE COSTS BE FUNDED? NA

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

Barker Ranch has been involved in a project for over a year which includes the US Bureau of Reclamation, WA Department of Ecology, Natural Resource Conservation Service, and Benton Conservation District to install a new state-of-the-art water measuring system immediately below the fish screens on Horn Rapids Canal. The weir is now operational, but we are in the process of installing automation for headgates at Wannawish/Horn Rapids Dam and Horn Rapids Canal, as well as automatic water reporting to the WA Department of Ecology and US Bureau of Reclamation through a pilot automatic water usage reporting system. This is part of the Columbia and Yakima Rivers Internet and Automation Pilot Project headed by Dr. Ken Schuster, Statewide Water Metering Coordinator, of the WA Department of Ecology.

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 According to the WA Department of Ecology and the Benton Conservation District, there is no gauging station on the Yakima River below Barker Ranch.

RIVER MILE : NA

**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)

Barker Ranch has worked with the USDA-NRCS and Ray Poland and Sons contractors to develop preliminary design and cost estimates on the proposed project. Ray Poland and Sons have provided a formal bid of \$5,605,897.00, which includes a 10% contingency fee. The bid does not include WA State sales tax and is good for 90 days after submission of this application. Barker Ranch is ready to proceed immediately with the project upon receiving grant and will obtain whatever permits necessary to complete the project.

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)

No. Baker Ranch owns a perpetual easement for Horn Rapids Canal and 50 feet from the center line on both sides of the ditch from the United States Department of Energy. Easement deeds to the canal property are enclosed.

**DESIGN/ ENGINEERING STATUS:**

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

## 4. SIGNATURES

*I certify that the information above is true and accurate to the best of my knowledge. I understand that in order to process my application, I am hereby granting staff from the Department of Ecology access to the above site(s) for inspection and monitoring purposes. If assisted in the preparation of the above application, I understand that all responsibility for the accuracy of the information rests with me. I also understand that I may rescind this application at any time prior to signing the Agreement with no other obligations or requirements.*

Brent Gell, PRESIDENT 3/27/08  
(Applicant/ Grant Recipient) (Date)

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
(Water Right Holder) (Date)

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
(Land Owner(s) of Existing Place of Use) (Date)

### For More Information

**Contact:** Alvin Josephy  
**Voice:** (360) 407-6456  
**Email:** [ajos461@ecy.wa.gov](mailto:ajos461@ecy.wa.gov)  
**Web:** <http://www.ecy.wa.gov/programs/wr/cwp/crwmp.html>

*If you need this document in an alternate format, please call the Water Resources Program at 360-407-6600. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*

P.O BOX 6772  
525 W. GRAND RONDE  
KENNEWICK, WA 99336



WWW.RPSINCGC.COM  
(509) 586-2158  
FAX: (509) 582-6912

GENERAL CONTRACTOR  
RAYP08243JE

**PROPOSAL**

PROPOSAL SUBMITTED TO	PHONE	DATE
Barker Ranch	509-967-3023	3/26/2008
STREET	JOB NAME	
85305 N. Snively Rd.	Barker Ranch Piping Main Canal	
CITY, STATE AND ZIP CODE	JOB LOCATION	
West Richland, WA 99353	Barker Ranch - West Richland, WA.	

We hereby submit specifications and estimates for:

The installation of a 54" HDPE Pipeline for the Fish screen to the last distribution at end of canal

**Price includes:**

Design & Surveying Erosion control plan  
3-miles of 54" HDPE DR-26 80psi pipe.  
A transition with trash rack from sediment basin to pipe.  
Distribution structure at Lateral # 1  
Gravel roadway on top or side of pipeline.  
10% contingencie

Professional Fees Permits and Local fees etc.  
A sediment basin at start of pipeline ( 100ft x 40ft concrete)  
Four access area's into the 54" mainline with air vents  
Distribution structure at Lateral # 2  
Swinging gates at road crossings when needed

	Materials	Labor
<b>Estimated Construction Costs</b>	\$3,806,000.00	\$ 1,176,270.00
<b>Design Fees</b>	\$ 20,000.00	\$ 35,000.00
<b>Professional Fees</b>	\$ 15,000.00	\$ 26,000.00
<b>Soft Costs ( All Permits,Local Fees, etc.)</b>	\$ 10,000.00	\$ 8,000.00
<b>Other Contingencies 10%</b>	\$ 385,100.00	\$ 124,527.00
	\$4,236,100.00	\$ 1,369,797.00
<b>Total Project</b>	\$	\$ 5,605,897.00

Not included : Sales Tax

*We Propose* hereby to furnish material and labor- complete in accordance with above specifications, for the sum of:

Five million six hundred five thousand eight hundred ninety seven dollars and 00 cents. Dollars \$ \$ 5,605,897.00

Payment to be made as follows:

**Monthly progress billings**

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tomado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance.

Authorized Signature / Bryan Knapik

Note: This proposal may be withdrawn by us if not accepted within 90 Days

**Acceptance of Proposal** - The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. payment will be made as outlined above.  
Date of Acceptance: \_\_\_\_\_

Signature \_\_\_\_\_

Signature \_\_\_\_\_

# YAKIMA BASIN WATER RESOURCES AGENCY

2301 Fruitvale Blvd.  
Yakima, Washington 98902  
Phone: 509.574.2650 Fax: 509.574.2651  
[www.co.yakima/YBWRA/](http://www.co.yakima/YBWRA/)

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March 27, 2008

The Barker Ranch, Ltd.  
85305 Snively Rd.  
West Richland, WA 99353

RE: Letter of Support – Horn Rapids Canal Piping

Dear Sir:

The YBWRA Board wishes to express its support for the proposed Barker Ranch, Irrigation System Rebuild. Conservation is a recommended strategy to aggressively manage available water resources in order to meet growing demand in an area of limited supply. This project is one of many proposed conservation projects in the Yakima basin recognized to reduce river diversions thus improving instream flows, while remaining Total Water Supply Available neutral.

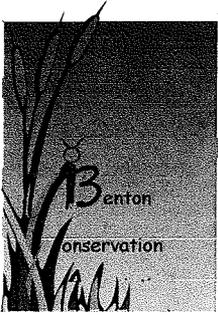
The Yakima River is an integral part of the region's economy and culture and is considered the Columbia River tributary that provides a great opportunity for restoration of the aquatic ecosystem to support anadromous fisheries, but it has been over appropriated. Thus, improved water management is in the common interest of all parties in the basin. The project will provide improved irrigation delivery as well as increased flows for fish.

This project fits the strategy for conservation as identified in the Watershed Management Plan, approved August 2005. It also fits with similar projects identified in the Detailed Implementation Plan, approved September 2007. Local, state, and federal jurisdictions and agencies that participated in this planning process have an interest in seeing this technology implemented.

We join other partners in supporting the funding and implementation of this project.

Sincerely,

Richard Dieker  
Chair, YBWRA



Benton Conservation Association  
415 Wine Country Road  
Prosser, WA 99350

March 27, 2008

Michael Crowder  
Barker Ranch  
85305 N Snively Rd  
West Richland, WA 99353

Dear Mr. Crowder

Benton Conservation Association is a non-profit organization supporting education and conservation of Benton County's natural resources. We assist Benton Conservation District with community partnerships, including the Salmon in the Classroom program in schools throughout Benton, Yakima and East Klickitat counties. Salmon in the Classroom allows students to hatch salmon eggs and rear salmon in their classroom, while learning about water quality, salmon life cycle and habitat. Teachers incorporate salmon as a theme for problem-solving in math, science, geography, social studies and history.

Each season ends with **Salmon Summit**, a special celebration of salmon when each student releases a fish into the Yakima River at Horn Rapids Park, just upstream of the Barker Ranch. Barker Ranch has been an active partner in the Salmon Summit for a many years, helping to make the day a memorable one for the >1200 students, teachers, and parents that participate annually.



The proposal by Barker Ranch to improve their irrigation efficiency through a canal piping project will result in increased instream flows in a critical salmon migration reach of the Yakima River. The transfer of Barker Ranch water rights to the state for the conserved water is a progressive philosophy that is not often shared by many of the other water users in the Yakima Basin. This project can serve as a model of conservation and agricultural production in harmony with the environment.

We support for the Barker Ranch application to the Department of Ecology's Columbia River Water Management Program Grant Program for funding. Please feel free to contact me if you have any questions.

*Sandy Halstead*

Chair, Benton Conservation Association  
509-786-9225

United States Department of Agriculture



Natural Resources Conservation Service  
32 C St NW  
Ephrata, WA 98823

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Subject: Barker Ranch

Date: March 25, 2008

To: Bart Gallant  
President, Barker Ranch Ltd.

The NRCS has been involved with the Barker Ranch on a Wetland Restoration Program for the past years and continue to support activities that are compatible with our program objectives. The proposed project would insure a consistent supply of water necessary for the management of the wetland hydrology which is the primary element in our wetland restoration and maintenance program on the Barker Ranch.

The existing earthen delivery canal is the primary conveyance of water for the Ranch. The proposed piping of the canal would maximize delivery efficiencies by reducing seepage losses and potential ditch breaching.

The Natural Resources Conservation Service supports this project

\s\ Harold Crose

Harold Crose  
Central Area Conservationist



# **RICHLAND ROD & GUN CLUB**

(INCORPORATED)

P. O. BOX 337  
RICHLAND, WASHINGTON  
99352

March 26, 2008

Dept. of Ecology  
Water Resources Program  
PO Box 47600  
Olympia, WA 98504-7600

Subject: CRBWMP Grant Funding Application Program

The Richland Rod and Gun Club is an organization that is comprised of 198 men and women whose experiences encompass a wide range of expertise in a wide range of fields. I have contacted 50% of the Board Members along with various volunteers and have requested comments in support of your proposed ditch enhancement project at Barker Ranch. At present the Board and Volunteers are in support of your proposed ditch project, provided the saved water as a result of the piping will be returned back to the Yakima River. The proposed piping of the Horn Rapids Canal will save a significant amount of water for in-stream flows for the Yakima and Columbia Rivers that will benefit fish and wildlife habitat. It can make a significant impact on endangered salmon and steelhead habitat in this area of the Yakima and downstream. Also, we feel the water savings will benefit both the water quality and associated wildlife in the Yakima River corridor.

We support this project and recommend that the Department of Ecology under the Columbia River Basin Water Management Grant Program give consideration to the Barker Ranch Horn Rapids Canal Piping Grant Application. It has been a pleasure working with Barker Ranch on various other projects and we look forward to many more in the future. Please contact us if you have any questions.

Respectfully,

A handwritten signature in black ink, appearing to read "Rick Nelson", written in a cursive style.

Rick Nelson

President – Richland Rod and Gun Club

509-628-2636



PACIFIC NORTHWEST FIELD OFFICE  
17800 SE Mill Plain Boulevard, Suite 120  
Vancouver, WA 98683  
(360) 885-2011 Fax (360) 885-2088  
www.ducks.org

March 24, 2008

Department of Ecology  
Water Resources Program  
PO Box 47600  
Olympia, WA 98504-7600

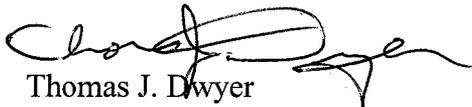
Subject: CRBWMP Grant Funding Application Program

Ducks Unlimited is pleased to support The Barker Ranch on its proposed piping project for the Horn Rapids Canal under the Columbia River Basin Water Management Grant Program. Ducks Unlimited is the largest waterfowl and wetland conservation organization in North America with over 13,000 members in the state of Washington and a million members and supporters nationwide.

The proposed piping of Barker Ranch's Horn Rapids Canal will save a significant amount of water for in-stream flows for the Yakima and Columbia Rivers which will benefit both fish and wildlife habitat. Significant amounts of water savings will be during critical summer months when increased water flow is needed for both human and wildlife impacts.

Ducks Unlimited has previously partnered with Barker Ranch on major wetland restoration projects in cooperation with United States Department of Agriculture's Natural Resource Conservation Service Wetland Reserve Program. Wetland and associated upland habitats were restored from previous conditions of cattle grazing and agriculture to highly productive wetland conditions. We support the proposed project and recommend that the Department of Ecology give due consideration to the Barker Ranch's Horn Rapids Canal Piping Grant Application. Please contact us if you have any questions.

Sincerely yours,



Thomas J. Dwyer

Director, Conservation Programs

---

**From:** "The Schielke's" <adi.schielke@verizon.net>  
**To:** "Michael Crowder - Barker Ranch" <Barkerranch@verizon.net>  
**Sent:** Wednesday, March 19, 2008 11:09 PM  
**Subject:** Barker Ranch, Horn Rapids Canal Piping Grant Application

I am pleased to send this message of support for the proposed piping of the canal to the Barker Ranch. I have been involved with wood duck nesting box conservation projects along the Yakima River since 1983 as well as a fisherman. I coordinate the annual maintenance and nesting box checks for over 200 wood duck nest boxes in the Tri-Cities area, most are located along the Yakima River between the mouth and Benton City (many on or adjacent to the Barker Ranch). The proposed grant project will reduce canal losses and enhance in-stream flows. The enhanced in-stream flows will benefit *both waterfowl and fish*. I support this project and recommend that the Department of Ecology, Columbia River Basin Water Management Grant Program give due consideration to the Barker Ranch Horn Rapids Canal Piping Grant Application.

Dale Schielke  
2635 Harris Ave  
Richland, WA 99354

426757

NO. 180 PAGE 422

Filed for record, NOV 12 1959 6:49 A.M.

Record of: John B. Hagon

243 Symons, Richland, Wash.

**SPECIAL WARRANTY DEED**

VERNER MILLER, County Auditor

The United States of America (hereinafter called "Grantor"), acting by and through the Atomic Energy Commission (hereinafter called "Commission"), does convey unto the City of Richland, Washington (hereinafter called "Grantee"), the property described in Appendix "A" which is attached hereto and made a part hereof. As used in said Appendix "A", the term "the Flat of Richland" means the Flat of Richland, as recorded in Volumes 6 and 7 of Flats, records of Benton County, Washington, and the amendment thereto recorded under Fee Number 373909, records of said County. All bearings used in said Appendix "A" are according to the Lambert Meridian unless otherwise noted. All of the land described in said Appendix "A" is located in Benton County, Washington.

This conveyance is made subject to easements defined in the Flat of Richland, referred to above, and the amendment thereto, and all other existing easements of record, together with the easements reserved and except as stated and described in Appendix "A".

Except as otherwise stated herein, the Grantor will warrant and defend its title thereto against the lawful demands of all persons claiming by, through, or under the Grantor, but not further or otherwise.

This deed is made and executed under authority of the Atomic Energy Community Act of 1955 (Public Law 221, 84th Congress, 1st Session), as amended.

IN WITNESS WHEREOF, Grantor has caused this deed to be executed in its name and on its behalf by its authorized representative on the 15<sup>th</sup> day of October, 1959.



UNITED STATES OF AMERICA  
ATOMIC ENERGY COMMISSION

By H. H. Schipper  
H. H. Schipper, Acting Manager  
Hanford Operations Office

STATE OF WASHINGTON }  
COUNTY OF BENTON } SS.

On this 15<sup>th</sup> day of October, 1959, before me personally appeared H. H. Schipper, to me known to be the authorized representative of

the Atomic Energy Commission that has executed the within and foregoing instrument, and acknowledged said instrument to be a free and voluntary act and deed of the United States of America, acting through the Atomic Energy Commission, for the uses and purposes therein mentioned, and on oath stated that he was authorized to execute said instrument and that the seal affixed is the seal of the Atomic Energy Commission, Hanford Operations Office.

In Witness Whereof, I have hereunto set my hand and affixed my official seal the day and year first above written.



*Richard S. Swann*  
Notary Public, in and for the  
State of Washington, residing  
at Richland, Benton County

## PARCEL A-1

WATER SUPPLY SYSTEM FROM HORN RAPIDS DAM  
TO CAMP HANFORD BOUNDARY

VOL. 180 PAGE 424

1. **WATER RIGHTS** - All of the rights now owned by the Grantor to appropriate water from the Yakima River which were acquired by the Grantor from the Richland Irrigation District.
2. **DIVERSION STRUCTURES** - An undivided one-half interest in Horn Rapids Dam, located on the Yakima River near Horn Rapids, in the South Half of Section 3, Township 10 North, Range 27 East, Willamette Meridian, as now constructed, together with headgates, and other works and structures used in connection with diverting water from the Yakima River into the former Richland Irrigation District main canal.
3. **CANAL RIGHT-OF-WAY** - An easement to use, maintain, repair and replace existing main canals, spillways and appurtenances of the former Richland Irrigation District which are now in use to conduct Yakima River water diverted at Horn Rapids Dam, said easement being a strip of land 100 feet wide, being 50 feet on each side of the centerline of said canals and spillways and being located as follows:

Canal "A" - Beginning at the canal headworks at Horn Rapids Dam, thence in a generally Southeasterly direction across the following Sections and portions of Sections: South Half of Section 3, Northeast Quarter of the Northeast Quarter of Section 10, Section 11, Northeast Quarter of Section 14, Section 13, all in Township 10 North, Range 27 East, W.M.; Southwest Quarter of the Southwest Quarter of Section 18, North Half and Southeast Quarter of Section 19, Southwest Quarter of Section 20, Section 29, and Section 28, to and including the headgate of the inverted siphon in the Southeast Quarter of the Northeast Quarter of said Section 28, all in Township 10 North, Range 28 East, W.M.; thence continuing along Canal "A" (the portion of the canal known at one time

as Lateral No. 1) in a generally Southerly direction across the following portions of Sections: Southeast Quarter of Section 23 and East Half of Section 23, both in Township 10 North, Range 28 East, W.M.; and Northeast Quarter of Section 4, Township 9 North, Range 28 East, W.M., to the terminus of the portion of Canal "A" presently in use, which terminus is located at canal station 510+00 which is 91 feet beyond an 18" outlet pipe to the right (South) used as a spillway; except that the width of the above described strip of land is only 40 feet on the right (South) side of the centerline of the canal in that portion of the South Half of the Southeast Quarter of Section 13, Township 10 North, Range 27 East, W.M. lying East of a line 30 feet East of the centerline of the Crosscut lateral canal; and

Canal "B" - Beginning at the said headgate of the inverted Siphon in the Southeast Quarter of the Northeast Quarter, Section 28, Township 10 North, Range 28 East, W.M.; thence in a generally Northeasterly direction across the following portions of Sections: Southeast Quarter of the Northeast Quarter of Section 28, North Half of Section 27, South Half of the Southeast Quarter of Section 22, and Southwest Quarter of the Southwest Quarter of Section 23, all in Township 10 North, Range 28 East, W.M. (the latter portion of the canal known at one time as Lateral No. 3), to a terminus at the boundary of the military reservation of U. S. Army, Camp Hanford, which terminus is a connection with the easement described in "Parcel A-2-(2) Canal" of this Appendix.

subject to the right of owners of certain lands in Sections 19, 24, 23, 24, and 25 of Township 10 North, Range 27 East, W.M., and Sections 19, 29, 30 and 31 in Township 10 North, Range 28 East, W.M. to take water from the former Richland Irrigation District main canal in accord with that certain agreement recorded under Auditor's File No. 65921, records of Benton County, Washington; and

Appendix "A" Page 2 of 54  
 subject to that certain agreement between the Grantor and Joe Barker, an individual, dated September 30, 1959, a copy of which is attached hereto and made a part hereof.

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~~14-10-27 NE 100~~  
~~13-10-27 NE 100~~

MAY 20 9 12 AM '65

QUITCLAIM DEED

VERNER MILLER, AUDITOR  
DEPUTY  
RECORDED

The Grantor, the CITY OF RICHLAND, in consideration of the  
mutual promises contained in a certain contract of even date here-

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INDEXED BY [initials]  
CHECKED BY [initials]

with between the said City, Joe B. Barker, and Horn Rapids Corporation, a Washington corporation, conveys and quitclaims to HORN RAPIDS CORPORATION, the Grantee, the following described property, whether real, personal or mixed, situated in Benton County, Washington, including any interest therein which the Grantor may hereafter acquire:

1. Water Rights. (a) The water appropriated by that certain notice of water right filed December 28, 1889 by the Yakima Irrigating and Improvement Company, recorded in Book "A" of Water Rights, Page 3, records of Benton County, covering the appropriation of running water in the Yakima River at the point of diversion thereof, to wit:

At a point in the Yakima River on the north or left bank in the northwest quarter of the southeast quarter in Lot 2, of Section 3, Township 10 North, Range 27 E.W.M., at a point 2300 feet west and 600 feet south of the Government Section post on line between Sections 3 and 5, ver. 22°30' East, being all of the water at said point of diversion flowing in said stream at any and all times to the extent of 300 cubic feet per second under four inch pressure, for the purposes and by the means set forth in notice of appropriation;

(b) The water appropriated by that certain notice of water right filed in the office of the County Auditor on October 17, 1892, by Nelson Rich, records of Benton County, Washington, covering the appropriation of 200 cubic feet of water per second time of the unappropriated water of the Yakima River at the point of diversion thereof described as a canal, of stated dimensions, on the east or left bank of the Yakima River near the northwest corner of the southeast quarter of Section 30, Township 10 North, Range 28 East, W.M., for the purposes and by the means set forth in the notice of appropriation;

(c) The water appropriated by that certain notice of water right filed on September 25, 1908, by the Lower

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Mail  
City of Richland  
Richland, Wash.

Page 2 - Quitclaim Deed

Yakima Irrigation Company in the office of the County Auditor of Benton County, covering the appropriation of 250 cubic feet per second of time of the waters lying, being and running in the Yakima River at the point of diversion thereof, for the purposes and by the means set forth in the notice of appropriation;

Which said water rights were by mesne conveyances transferred to the United States of America and by the United States of America transferred to the Grantor by special warranty deed dated the 1st day of October, 1959, and recorded on the 12th day of November, 1959, in the office of the Auditor of Benton County in Volume 180 of Deeds, Page 422, it being the intention of the Grantor herein to transfer and convey to the Grantee, HORN RAPIDS CORPORATION, all of its water rights in the Yakima River heretofore conveyed or acquired by the Grantor through the above mentioned deed from the United States of America.

2. Diversion Structures: An undivided one-half interest in Horn Rapids Dam, located on the Yakima River near Horn Rapids, in the South Half of Section 3, Township 10 North, Range 27 East, Willamette Meridian, as now constructed, together with headgates, and other works and structures used in connection with diverting water from the Yakima River into the former Richland Irrigation District main canal, it being the intention of the Grantor herein to convey to the Grantee, HORN RAPIDS CORPORATION, all of its right, title and interest in the said Horn Rapids Dam heretofore conveyed or acquired through the deed from the United States of America mentioned in Section 1 above, or otherwise.

3. Irrigation Canal: All of the right, title and interest of the Grantor, including its canal right of way easements, in and to the former Richland Irrigation District Canal, including but not limited to the existing main canal, spillways and appurtenances, whether said appurtenances may be real or personal property, which are now in use to conduct Yakima River water diverted at Horn Rapids dam, including a strip of land 100 feet wide, being 50 feet

Page 3 - Quitclaim Deed

on each side of the centerline of said canals and spillways and being located as follows:

LOC

BEGINNING at the canal headworks at Horn Rapids Dam, thence in a generally southeasterly direction across the following sections and portions of sections: South Half of Section 3, Northeast Quarter of the Northeast Quarter of Section 10, Section 11, Northeast Quarter of Section 11, and Section 13, all in Township 10 North, Range 27 East, W.M.; and the Southwest Quarter of the Southwest Quarter of Section 18, the North Half and Southeast Quarter of Section 19, the Southwest Quarter of Section 20, to Station 310, a canal outlet point located on the Yakima River at approximately the center of Section 29, all in Township 10 North, Range 28 East, W.M., said Station 310 being the location of the Weidle Spill used for wasting water into the Yakima River; thence 1100 feet east downstream, to the concrete check or dam located immediately below the east watergate situated on property belonging to Harvey Stoller in said Section 29; comprising 6.38 miles of main canal, more or less, from the intake at Horn Rapids Dam to Station 310 and an additional 1100 feet of canal downstream therefrom.

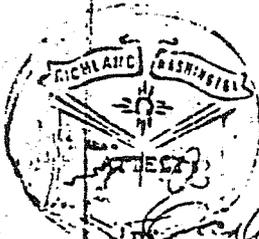
4. Ditchrider's House: That portion of the East 200 feet of Government Lot 1 of Section 3, Township 10 North, Range 27 East, W.M., bounded on the north by Horn Rapids Road and on the South by the canal right of way described in Section 3 above; subject to easements of record.

IN WITNESS WHEREOF, the Grantor has caused these presents to be executed by its City Manager pursuant to authority expressly delegated to him for that purpose by the City Council of the City of Richland.

Dated this 17<sup>th</sup> day of May, 1965.

CITY OF RICHLAND

By Murray H. Fuller  
City Manager



W. L. Luegel  
City Clerk



YAKIMA BASIN  
FISH AND WILDLIFE  
RECOVERY BOARD

March 27<sup>th</sup>, 2008

Michael Crowder  
Barker Ranch  
85305 N Snively Rd  
West Richland, WA 99353

Dear Mr. Crowder,

On behalf of the Yakima Basin Fish & Wildlife Recovery Board, I would like to thank you for the opportunity to review the Barker Ranch's applications for the Department of Ecology's Columbia River Water Management Program Grant Program. We would like to express our support for your proposal to pipe the upper portion on the ranch's irrigation ditch.

The ultimate goal of this project is to provide an efficient irrigation system for the Barker Ranch. The reduced water diversions that result from this project will improve the quantity and quality of instream flows in the lower reach of the Yakima River. We also look forward to working with the Barker Ranch to explore how the increased operational flexibility resulting from this project can also be used to enhance floodplain recharge.

The Board developed the Yakima Steelhead Recovery Plan to guide efforts to restore Endangered Species Act-listed steelhead in the Yakima Basin. It identifies 94 actions that will improve conditions for steelhead. This project contributes to implementing two of those actions: Basinwide Action #4: Increase irrigation water delivery efficiency, and Lower Mainstem Action #2: Improve flows below Parker through irrigation system improvements.

The flows of the Yakima River and its tributaries sustain one of the nation's most productive agricultural regions, growing communities with diverse economies, and a productive natural ecosystem that is home to multiple runs of salmon and steelhead. Balancing these competing demands for water requires forward thinking efforts like the project presented here.

This project should create solid benefits in the lower Yakima River. We are not in a position to judge how this project fits with the requirements of the Columbia River Water Management Program regarding making water available to Columbia River users. We encourage you to apply and work with Ecology to make that determination.

Sincerely,

A handwritten signature in cursive script that reads "David B. Bowen".

David Bowen  
Chair

# YAKIMA BASIN WATER RESOURCES AGENCY

2301 Fruitvale Blvd.  
Yakima, Washington 98902  
Phone: 509.574.2650 Fax: 509.574.2651  
[www.co.yakima/YBWRA/](http://www.co.yakima/YBWRA/)

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March 27, 2008

The Barker Ranch, Ltd.  
85305 Snively Rd.  
West Richland, WA 99353

RE: Letter of Support – Horn Rapids Canal Piping

Dear Sir:

The YBWRA Board wishes to express its support for the proposed Barker Ranch Irrigation System Rebuild. Conservation is a recommended strategy to aggressively manage available water resources in order to meet growing demand in an area of limited supply. This project is one of many proposed conservation projects in the Yakima basin recognized to reduce river diversions thus improving instream flows, while remaining Total Water Supply Available neutral.

The Yakima River is an integral part of the region's economy and culture and is considered the Columbia River tributary that provides a great opportunity for restoration of the aquatic ecosystem to support anadromous fisheries, but it has been over appropriated. Thus, improved water management is in the common interest of all parties in the basin. The project will provide improved irrigation delivery as well as increased flows for fish.

This project fits the strategy for conservation as identified in the Watershed Management Plan, approved August 2005. It also fits with similar projects identified in the Detailed Implementation Plan, approved September 2007. Local, state, and federal jurisdictions and agencies that participated in this planning process have an interest in seeing this technology implemented.

We join other partners in supporting the funding and implementation of this project.

Sincerely,



Richard Dieker  
Chair, YBWRA