



Columbia River Basin Water Management Program Technical Advisory Group FINAL APPLICATION EVALUATION WORKSHEET



Applicant The Barker Ranch	Project Name Horn Rapids Canal Piping	Category C
WRIA 37	County Benton	

Subcategory	Description	Scoring Levels	Points per Level	Maximum Possible Score	Bruce Beauchene	Jon Culp	Dave Cummings	Dan Haller	Steve Martin	Peggy Miller	Mark Nielson	Onni Perala	Tom Ring	Steve Hays	Paul LaRiviere	Final Score
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1. PROJECT COSTS																
Percentage (of the Entire Project) of Matching Funds or In-Kind Match Available to Proponent [§3b]	Projects that can secure funding from local or "other" sources should be more attractive to Ecology.	0 to 25% 25 to 50% > 50%	0 1 2	2	0	-	0	0	-	-	0	0	-	-	-	0
Total Cost Per Acre Foot [§3a & §3c]	Water procured at a lower cost should score higher.	\$0 to 100 \$101-1000 \$1001-3000 > \$3000 per acre foot	3 2 1 0	3	2	-	2	2	-	-	2	2	-	-	-	2
Total Cost Per Acre Foot of Consumptive Water [§3a & §3c]	Water procured at a lower cost should score higher.	\$0 to 100 \$101-500 \$501-1000 \$1001-3000 > \$3000 per acre foot	5 4 3 2 1	5	-	-	3	1	-	-	1	3	-	-	-	1
TOTAL UNWEIGHTED CATEGORY SCORE															3	

2. NET WATER SAVINGS																
Estimate Total Water Placed in Storage for State Use or in Trust Through This Project [§3c]	Projects that put larger amounts of water in terms of acre feet should be scored at a higher level.	<100 AF 100 to 1000 AF > 1000 AF	0 1 2	2	-	2	-	2	-	-	2	1	-	-	-	2
Estimate Total Water Added to a Tributary reach as a Percent of Low Flow [§3c]		< 5% 5 to 10% 10 to 25% 25 to 50% > 50%	0 1 2 3 4	4	-	1	-	0	-	-	0	0	-	-	-	0
Water can be Protected to the Columbia or Snake	Review of the water rights priority confirms either a yes or no here.	Yes No	4 0	4	-	0	-	4	-	-	0	0	-	-	-	4
TOTAL UNWEIGHTED CATEGORY SCORE															6	

3. PROJECT SUPPORT																
Consistency with Other Local Plans [§3d]	Projects that are consistent with, or called for in, local planning documents receive a higher score.	1 point for each planning document up to 6 points	1-6	6	-	6	-	-	-	-	6	-	-	-	-	6
Local Support [§3e]	Projects accompanied by many letters of support score higher.	1 point for each letter of support up to 4 letters	1-4	4	-	4	-	-	-	-	-	4	-	-	-	4
TOTAL UNWEIGHTED CATEGORY SCORE															10	

4. FISH AND WATER QUALITY BENEFITS																
Current Instream Species and Status [§2]	Consideration of presence and status of salmonids, amphibians, and other aquatic species, and prioritization of this stream reach for instream flow restoration.	See Fish & Water Quality matrix	0-2.5	2.5	-	-	-	-	-	1.17	-	-	2.5	-	1.17	-
Current Instream Habitat Conditions [§2]	Analysis of need for project in relation to reach length, need for barrier removal, riffle depth, distance to holding cover and off-channel habitat access.	See Fish & Water Quality matrix	0-3	3	-	-	-	-	-	2	-	-	3	-	2	-
Terrestrial Species, Habitat Conditions and Potential for Improvement [§2]	Consideration of local species and status, species richness, the terrestrial migration corridor, & anticipated improvement to overall terrestrial habitat values.	See Fish & Water Quality matrix	0-1.5	1.5	-	-	-	-	-	.9	-	-	1	-	.9	-
Potential Future Water Quantity or Quality Conditions [§2]	Consideration of the project's effect on flow quantity and flow timing, as well as degree of flow and water quality improvement that is anticipated as a result of the project.	See Fish & Water Quality matrix	0-1.5	1.5	-	-	-	-	-	1.1	-	-	1	-	1.1	-
Ecological Considerations * [§2]	Consideration of expected project effectiveness in relation to ecological connectivity, potential effects of climate change, improvement in riparian condition and function, whether current or future exempt wells affect project effectiveness, & potential effect of the planned construction.	See Fish & Water Quality matrix	0-1	1	-	-	-	-	-	.53	-	-	.25	-	.53	-
Social and Human Aspects [§2]	Potential effects of future development and land use conversions on project values to fish/wildlife; effects on supplementation efforts and fish and wildlife recreation and potential to contribute to local goodwill.	See Fish & Water Quality matrix	0-0.5	.5	-	-	-	-	-	.3	-	-	.1	-	.3	-
TOTAL UNWEIGHTED CATEGORY SCORE															7	

* If the project is anticipated to impose more than short-term negative construction effects on fish/wildlife (i.e. is likely to cause harm), the total fish and wildlife score will be zero.

5. CURRENT AND LONG TERM RESOURCES																
Adequate Resources Currently Committed to Ensure Long-Term Performance of the Proposed Project [§3f]	This category can be scored with a positive number if there are resources listed to support operations and maintenance and a zero if not	Yes No	4 0	4	4	4	0	-	-	-	-	2	-	-	-	4
Proponent's Readiness to Proceed [§3g]	This category is based on the applicant's progress in designing and permitting the project prior to filing an application.	Range between No Progress and Approved Construction Documents	0-6	6	3	6	0	-	-	-	-	2	-	-	-	4
TOTAL UNWEIGHTED CATEGORY SCORE															8	

TOTAL UNWEIGHTED SCORE FOR ALL CATEGORIES **36**

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Horn Rapids Canal Piping

Weighting Table					
Categories	Maximum Possible Unweighted Score	Total Unweighted Score	Weighting Factor	Maximum Possible Weighted Score	Weighted Score
1. Project Costs	10	3	2	20	6
2. Net Water Savings	10	6	3.3	33	19.8
3. Project Support	10	10	1.5	15	15
4. Fish/Water Quality Benefits	10	7	2.2	22	15.4
5. Long Term Resources	10	8	1	10	8
TOTAL SCORE FOR ALL CATEGORIES	50	36	10	100	64.2

CR-TAG Comments / Annotations:

Jon Culp: seems like a sound project.

Peggy Miller: In combination with other projects proposed for the Yakima Basin this project will provide fish and wildlife benefits to the Barker Ranch primary reach. Alone the non-consumptive water savings for this project appears insignificant relative to average instream flow, and will not alter temperature, a significant limiting factor within this reach. But this and other water savings could address water quality issues over time and the fish stocks would respond. Historically the Yakima Basin supported sockeye salmon. Additional water in the lower reach of the Yakima River for a July migration is a necessary step for the return of sockeye salmon.

- The 10.5 cfs will supplement surface flows in a critical riffle zone immediately below Horn Parker Dam during a critical flow period and improve fish passage.
- The water will complement other Yakima Basin projects.

Onni Perala: has thought and planning behind this proposal. As far down in the system it doesn't propose as much change to the mainstem Yakima as it does to the Richland Canal system. The change to the Columbia is minuscule, however the change will obviously reach there. I also wonder about the commitment to take care of the new system and operate it to the benefit proposed.

Tom Ring: It is unclear how much, if any of the savings is consumptive, and therefore creditable to the Columbia River. Proposal looks good for the reach, questionable for Columbia. Some credit should be given for small contributions to low flow. In order to now how far down the water can be protected, must know where return flows come in. It is unclear how to calculate Total Score (add column or multiply role).