FUTURE FISHERIES IMPROVEMENT PROGRAM GRANT APPLICATION

(please fill in the highlighted areas)

I.	APPLICANT INFORMATION				
	A.	Applicant Name: Big Blackfoot Chapter of Trout Unlimited			
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	B.	Mailing Address: PO Box 1			
	C.	City: Ovando State: MT Zip: 59854			
		, <u> </u>			
		Telephone: 406-240-4824			
	D.	Contact Person: Ryen Neudecker			
	Σ.	Contact Person. Ryen Neudecker			
		Address if different from Applicant:			
		City: State: Zip:			
		City: State: Zip:			
		Telephone:			
		Landowner and/or Lessee Name			
	E.	(if other than Applicant): Grosfield Ranch-Rick & Mary Sampson			
		Mailing Address: PO Box 32			
		City: Dagmar State: MT Zip: 59219			
		Oity. Dagman State. Wil 216.			
		Telephone: 406.483.5265			
II.	PR	OJECT INFORMATION*			
	۸	Dreiget Name: Keen Cool Creek Fish Decore Improvement Dreiget			
	A.	Project Name: Keep Cool Creek Fish Passage Improvement Project			
		River, stream, or lake: Keep Cool Creek			
		Location: Township 14N Range 8W Section 18			
		County: Lewis and Clark			
		,			
	В.	Purpose of Project:			
		The purpose of this project is to 1) remove two undersized culverts on Keep Cool Creek that block migration corridors for trout populations during high flow periods and create channel impairments			
		(see photos 1-4) and 2) to replace these culverts with stream crossings that allow for habitat			
		recovery and the uninhibited movement of wild trout.			
	_				
	C.	Brief Project Description:			

Keep Cool Creek is a spring creek tributary to the upper Blackfoot River located just north of Lincoln. The stream supports primarily brown trout, but does also support westslope cutthroat trout in headwater tributaries and limited bull trout use in the lower spring creek based on FWP telemetry studies. The incidental presence of cutthroat trout are also reported on Keep Cool Creek. The stream originates on public land and flows 12 miles before entering private land near stream mile six.

The Grosfield Ranch is one of the largest ranches in the upper Blackfoot valley with four miles of Keep Cool Creek running through it. Land ownership has changed from multi-family ownership to a single primary owner. Past projects on this ranch have involved restoring three miles of Lincoln Spring Creek and upgrading undersized stream crossings. The landowner has expressed interest in additional large-scale projects that benefit wild trout fisheries. This proposed project builds on past restoration actions and is intended to promote continued work on the ranch. The project also expands on restoration work being completed on Keep Cool Creek on the immediate downstream property.

This project will replace two undersized culverts (near stream-mile 4 and 5) that degrade fish habitat and impede fish passage during high flow periods. At the lower stream crossing, the project will replace an existing undersized 2.5' x 20' culvert with a hardened ford as the access needed at this crossing is very limited. The upper stream crossing involves replacing a 2' x 20' culvert with an 8'-1" x 6'-1" x 20' long steel pipe arch designed following stream simulation principles (see culvert design detail sheet). Because the bankfull channel width is 6', the new structure will accommodate natural channel conditions, floodplain function and allow uninhibited aquatic organism passage.

A basic topographic and hydraulic field survey was conducted to locate key physical features within the area of the existing culverts. A long profile, stream cross-sections, bankfull widths, and general geomorphologic parameters were collected. The new structure dimensions were sized based on stream characteristics collected from the reference reach and hydraulic analysis. The hydraulic capacity of the structure was analyzed to ensure that it satisfies a 100-year flood event. Reference reach data collected indicated that bankfull width is close to six feet. Please refer to attached map, photos and design.

The existing undersized culverts near stream miles 4 and 5.0 will be replaced to restore connectivity to the middle reaches of Keep Cool Creek. Anticipated future work will expand the scale of this project.

- D. Length of stream or size of lake that will be treated:
- E. Project Budget:

Grant Request (Dollars):

\$ 6,000

Contribution by Applicant (Dollars):
\$ In-kind \$ 2,932

(salaries of government employees are not considered as matching contributions)

Contribution from other Sources (Dollars):
\$ 7,620-USFWS In-kind \$ (attach verification - See page 2 budget template)

Total Project Cost:
\$ 16,552.00

F. Attach itemized (line item) budget – see template

- G. Attach specific project plans, detailed sketches, plan views, photographs, maps, evidence of landowner consent, evidence of public support, and/or other information necessary to evaluate the merits of the project. If project involves water leasing or water salvage complete <u>supplemental</u> <u>questionnaire</u> (fwp.mt.gov/habitat/futurefisheries/supplement2.doc).
- H. Attach land management and maintenance plans that will ensure protection of the reclaimed area.

III. PROJECT BENEFITS*

A. What species of fish will benefit from this project?:

Primarily brown trout through the project reach, with benefits to westslope cutthroat trout and bull trout anticipated with the additional projects being developed upstream and downstream. Potential future projects may include irrigation upgrades (fish screens and water conservation) and riparian restoration through improved grazing practices.

B. How will the project protect or enhance wild fish habitat?:

Free-ranging, wild trout depend upon high quality habitat and connected systems. This project is an opportunity to begin the restoration process by correcting stream crossings that adversely affect habitat quality and connectivity.

C. Will the project improve fish populations and/or fishing? To what extent?:

Yes, the project is ultimately intended to foster the spawning, rearing and movement of wild trout and thereby providing off-site recruitment to the spring creek and the Blackfoot River as well as angling opportunities on-site. Keep Cool Creek currently provides for local angling opportunities and enters a portion of the Blackfoot River that receives high angling pressure.

D. Will the project increase public fishing opportunity for wild fish and, if so, how?:

Yes, by increasing wild trout habitat in the Blackfoot River drainage.

E. If the project requires maintenance, what is your time commitment to this project?:

The landowner has committed to signing a 20-year landowner agreement.

What was the cause of habitat degradation in the area of this project and how will the project F. correct the cause?:

Already answered.

G. What public benefits will be realized from this project?:

This project involves the continuation of the Blackfoot River Restoration program by expanding restoration into the Lincoln valley and working with a large ranch in the northern portion of the Lincoln valley. Continued restoration is expected to ultimately benefit native trout as identified in other nearby spring creeks in the Lincoln valley. Public benefits include: 1) improved fisheries, 2) improved water quality (sediment reduction) and 3) ultimately contribute to the recovery of imperiled native trout.

H. Will the project interfere with water or property rights of adjacent landowners? (explain):

	No					
	Mail the american manufactor than development of a consequent of a consequence of a consequence of the city of					
I. Will the project result in the development of commercial recreational use on the site?: (explain):						
	No					
J	Is this project associated with the reclamation of past mining activity?:					
	No					
Each approved project sponsor must enter into a written agreement with the Department specifying						
terms and duration of the project.						
IV. AUTHORIZING STATEMENT						
I (we) hereby declare that the information and all statements to this application are true, complete						
			ity complies with rules of the			
Future Fisheries improvement Program.						
cant	Signature:	Date:				
Sponsor (if applicable):						
	appres an AUT I (we accurrently for the count)	I. Will the project No J. Is this project No approved project and duration of the AUTHORIZING I (we) hereby de accurate to the Euture Fisheries cant Signature:	I. Will the project result in the development of commercial recreation No J. Is this project associated with the reclamation of past mining activity No approved project sponsor must enter into a written agreement with and duration of the project. AUTHORIZING STATEMENT I (we) hereby declare that the information and all statements to this appropriate to the best of my (our) knowledge and that the project or active Future Fisheries Improvement Program. Date:			

*Highlighted boxes will automatically expand.

Mail To: Montana Fish, Wildlife & Parks

Habitat Protection Bureau

PO Box 200701

Helena, MT 59620-0701

Incomplete or late applications will be returned to applicant.

Applications may be rejected if this form is modified.

Applications may be submitted at anytime, but must be received by the Future Fisheries Program office in Helena <u>before</u> December 1 and June 1 of each year to be considered for the subsequent funding period.

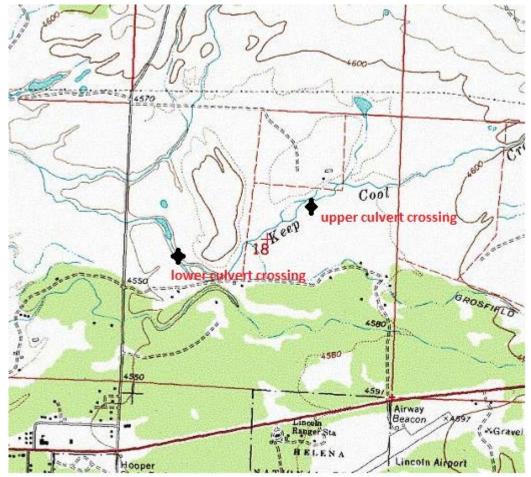


Figure 1: Map depicting Keep Cool Creek stream crossing locations.