



R & E Grant Application 05-07 Biennium

Project #:
05-085

Ana River Improvement Project

Project Information

R&E Project Request: \$5,551.00
Match Funding: \$4,511.00
Total Project: \$10,062.00
Start Date: 6/15/2006
End Date: 10/1/2006
Project Email: Shannon.M.Hurn@state.or.us
Project Biennium: 05-07 Biennium
Organization: ODFW - Lakeview Field Office

Applicant Information

Name: Shannon Hurn
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Lakeview, OR 97630
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Past Recommended or Completed Projects

This applicant has no previous projects that match criteria.

Project Summary

This project is NOT part of ODFW's 25 Year Angling Plan.

Activity Type: Habitat
Summary: Repair breached retention pond walls in order to hold back excess rainwater runoff. This activity would decrease sedimentation and alkali salt inputs into the river enhancing rainbow trout habitat. We are also going to add juniper snags into the river to increase trout habitat, stabilize banks, and increase channel complexity within the river.

Objectives:

- 1) Retain runoff in upland areas before reaching the river preventing excessive amounts of sediment and alkali salts from reaching the river. Increased water retention within the soil would also allow for subterranean coldwater inputs as the water from the retention ponds seeps into the soils.
- 2) Increase instream fish habitat, diversify overall channel morphology, and provide areas for higher fishing success rates.

Fishery Benefits: This project will provide an overall enhancement of fish habitat both in

regards to water quality and instream habitat. Recreational fisherman will benefit greatly from the increase in, fish densities, habitat quality, and visual reference sites to attract fish and fishermen.

Watershed Benefits:	This project is directly addressing a limiting factor in the lower reaches of the Ana River. Heavy sediment and salt inputs during spring runoff have significantly negative effects on rainbow trout in the lower reaches of the river. Also, the excessive sediments have begun to fill wetland habitats downriver that are utilized by waterfowl year round. This project would also improve this situation.
Current Situation:	Currently, the earthen dams that were constructed in the late 1960's to retain runoff water, sediment, and salts in the uplands are breached or in significant disrepair. A few smaller retention ponds are still functioning and are holding back water. The larger structures will be repaired during this project.
Alternatives:	N/A
Designer:	ODFW Personnel, Local Contractor
Methods:	<p>Dam reconstruction will be completed using a backhoe and front-end loader. Breached sections of the dam will be reinforced with rebar, and recompacted with soil. In addition, all reconstructed dams will be fitted with a 10" aluminum culvert pipe running perpendicular through the dam 1.5 ft below the top of the structure. This will allow excess water to run into lower retention ponds without spilling over the actual structure. The reconstructed dams will also be planted with salt grass in order to increase structure stability.</p> <p>Junipers from adjacent uplands will be used for the LWD treatments. Four pieces per kilometer will be placed instream using a front-end loader and/or manual labor. Unstable non-vegetated banks will be lined with juniper root wads in order to trap sediment before entering the stream. LWD will not be anchored in the site to allow natural placement within the stream channel. Due to no downstream impediments and relatively stable flows out of the dam this option is ideal.</p>

Inspector: ODFW Fish Biologist and Wildlife Area Manager

Funding Elements: R&E funding will be used to hire a contractor to excavate and repair retention dams.

Partners: No

Existing Plan: No

Affected Contacted: No

Affected Supportive: No

Project Schedule/Participants/Funding

This project has no Schedule/Participants/Funding.

Affected Species:
Rainbow Trout

Project Permits

Name	Issued By	Secured?	Date Secured	Date Expected
Klamath Tribes Archeological Permit	Perry Chocktoot	Yes	11/30/2005	1/1/0001

Project Monitoring

Organization	Address	Activity	Frequency
ODFW	PO Box 1214 Lakeview, OR 97630	Monitor fish population before and after activity to determine changes in fish abundance	1/year for 5 years

Project Maintenance

Organization	Address	Activity	Frequency
ODFW	PO Box 1214 Lakeview, OR 97630	Monitor retention dams and do minor maintenance when needed	1/year for 5 years

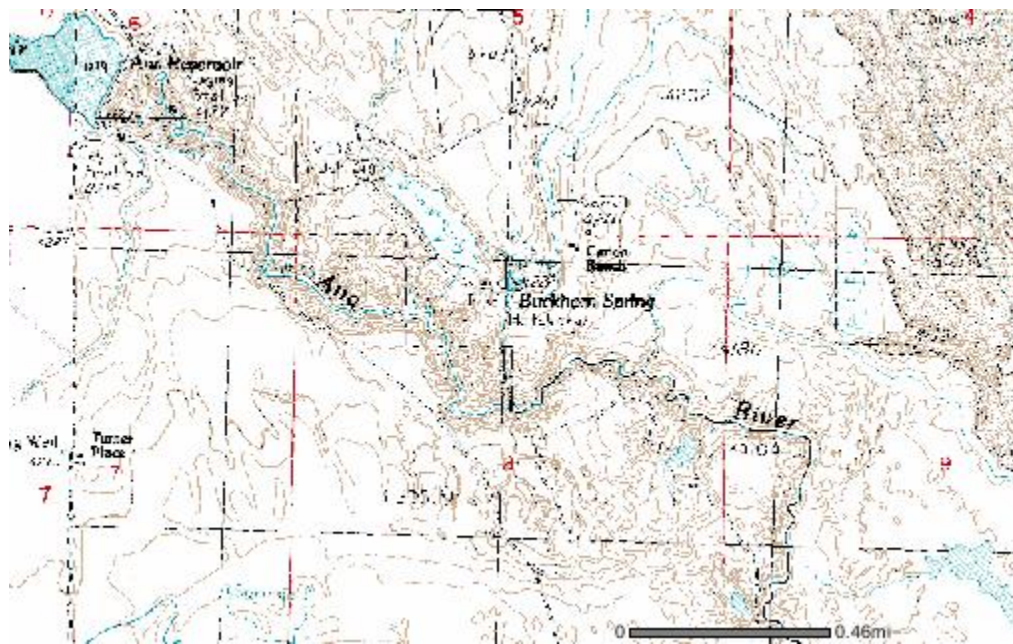
Project Match Funding

Funding Source	Cash	In-Kind	Other	Description	Total	Secured?	Conditions?	Comments
R&E Request	\$5,551.00	\$0.00	\$0.00		\$5,551.00	No	No	
ODFW	\$0.00	\$4,511.00	\$0.00		\$4,511.00	Yes	No	
				Total Match Funding:	\$10,062.00			

Project Budget

Item	Item Type	Units	Unit Cost	R&E Funds	Match Funds	Total
D-6 dozer for dam repair and construction	Contracted Services	24	\$150.00	\$3,600.00	\$0.00	\$3,600.00
Equipment delivery to site (back and forth)	Contracted Services	2	\$750.00	\$1,500.00	\$0.00	\$1,500.00
Backhoe	Equipment	24	\$50.00	\$0.00	\$1,200.00	\$1,200.00
Chainsaw	Equipment	16	\$20.00	\$0.00	\$320.00	\$320.00
Pick-Up	Equipment	16	\$17.50	\$0.00	\$280.00	\$280.00
ODFW District Personnel	Personnel	40	\$16.40	\$0.00	\$656.00	\$656.00
ODFW WMA Personnel	Personnel	40	\$22.00	\$0.00	\$880.00	\$880.00
ODFW WMA Personnel--Tech 1	Personnel	80	\$14.69	\$0.00	\$1,175.00	\$1,175.20
Corrugated Pipe (15")	Supplies/Materials /Services	2	\$225.53	\$451.00	\$0.00	\$451.06
					Total Budget:	\$10,062.26

Project Map



Additional Files

Click a link to view that particular file.

[Archeological permit](#)

[document](#)

[email re: project](#)

[email re: project](#)

[email re: project\(2\)](#)

[photo of breached structure](#)

[photo of breached structure, 2](#)

[Signature page](#)