



R & E Grant Application 23-25 Biennium

Project #: 23-002

Warrenton Rain Water Connection

Project Information

Requested Cycle: 23-1
R&E Project Request: \$18,000
Other Funding: \$5,000
Total Project: \$23,000
Spending Start Date: 7/1/2023
Spending End Date: 9/1/2024
Project Start Date: 7/1/2023
Project End Date: 9/1/2024
Organization: Warrenton High Fisheries, Inc. (Tax ID #: 02-0763609)

Fiscal Officer

Name: Steve Porter
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Warrenton, OR 97146
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Fax:

Applicant Information

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Past Recommended or Completed Projects

This applicant has no previous projects that match criteria.

Authorized Agent

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Location Information

Where is it?

The project will occur on private land owned or managed by the applicant

Site Description

Street Address, nearest intersection, or other descriptive location.

The location for this project will be on Warrenton High School grounds.

Directions to the site from the nearest highway junction.

1.5 miles north of Highway 101.

Following project completion, public anglers will be allowed the following level of access to the project site:

No access

Please describe what leases, easements, agreements are in place to ensure angler access to the project site, and what is the length of each agreement.

There will be no angler access to this project.

Dominant Land Use Type:

Urban industrial/commercial

Project Location

General Project Location.

County: Clatsop
Town/City: Warrenton
ODFW Dist: North West coast Watershed
Stream/Lake/Estuary Name: Skipanon River
Sub-basin: 170800006
Tributary of: Columbia River

Specific Project Location.

Latitude		Longitude	
	046.1472		-123.9302

Project Summary

Project Summary

Please provide a couple sentence summary of the proposal.

The project we plan to do is to tie in four downspouts in to an all ready existing system that we have. The goal of this is to help subsidize the amount of city water that we use in the hatchery. We got bid's for the work being done.

Overall Project Goals

Describe the primary goals or outcomes of the entire project, including elements not requesting funding from R&E.

Decrease dependency on municipal water supply.

Increase water supply to hatchery.

Remove need to withdraw water from Skipanon R. improving fish health

Increase ability to add tanks allowing for more experimentation.

Allows for better educational opportunity and recourses.

Primary objectives of R&E funding

Please describe the measurable objectives for the R&E portion of the funding request.

Locate and identify existing waterlines

Identify location for new lines

Trench for new water lines

Install new lines

Cover lines and replace asphalt as needed

Test system

Current Situation/Justification

Please describe the current situation and explain why this funding is needed.

The Warrenton High Fisheries program is in need of a stable clean water supply to rear fish on the Skipanon River. The River water is high in organics and its temperature is not always suitable for rearing salmon. The recent work on the roof of the Warrenton High Gym has diverted the water away from the downspouts that we use presently to obtain the necessary water for fish rearing. Establishing new downspout connections would be optimal for our hatchery's continued operation instead of depending on municipal water supplies.

Recreation and Commercial Benefit

This project will provide benefits to:

Recreational fisheries

Commercial fisheries

Explain how this project will contribute to current (and/or potential) fishing opportunities, access, or fisheries management.

The primary purpose of the Warrenton High School STEP Program is education however fish releases may help

supplement a small portion of the sport and commercial fisheries in the lower Columbia River, but due to its size it

probably does not play any major role. The main benefit that the program provides is the increased awareness

and understanding of fisheries resources that it develops in the students and community. This program is also

involved in collaborative educational research projects with partners such as Clatsop County Fisheries (CCF)

Project, North Coast Watershed Association, Columbia River Estuary Task Force (CREST), and others. Fish are fin-clipped prior to release and have the ability to contribute to the local fisheries.

prior to release and have the ability to contribute to the local fisheries.

Percent benefit split between Commercial and Recreational anglers:

50 % Commercial
50 % Recreational

Please explain, or justify, how the percentage split was determined:

Though production numbers are low fish are fin-clipped prior to release and have the ability to contribute equally to both commercial and recreational fisheries. Returning adults from this program are exposed to commercial harvesting in the ocean, and harvest through recreational fisheries in the ocean, Columbia River, and Youngs Bay areas.

This project has been identified as an ODFW priority for:

Local/watershed

Does this project directly support implementation of the ODFW Strategic Plan and/or current Fish Division priorities?

Yes

This Program operates under the ODFW Salmon Trout Enhancement Program (STEP). STEP was created by the Oregon Legislature as a program of ODFW to aid in the recovery and sustainability of the state's native salmon and trout. As such, this Program is an important part of ODFW's mission and goals.

Please briefly explain when this was identified as a priority and what process or workgroup was used to identified this as an ODFW priority.

1981 by the Oregon Legislature with the creation of STEP.

Identify any plan or other document that identifies this priority.

25-Year Recreational Angling Enhancement Plan:

Strategies to Enhance Recreational Angling:

- Use hatchery fish, where appropriate, to enhance recreational fisheries.
- Educate the public regarding fish, fisheries, and the natural

Big Creek Hatchery Coho Hatchery Genetic Management Plan: Identifies Warrenton High School in Purpose(Goal) of Big Creek Hatchery Coho Program

Is this project part of an approved Salmon-Trout Enhancement Program (STEP) activity?

Yes

Warrenton High School has been part of the STEP program for over 33 years and has provided supplemental hatchery fish the the Columbia river watershed during that time. The school's Fish Propagation Project was renewed by ODFW for another 5-years in 2021.

This project is intended to benefit the following species:

Fall Chinook Salmon
Coho Salmon
Winter Steelhead
Rainbow Trout

This project will benefit anglers or fishery by providing:

Education/Outreach
Hatcheries/Propagation/Liberation

Education/Outreach

This project will:

- Educate the public about angling opportunities and fisheries in Oregon
- Teach the public about fish (ecology, life history) and/or fish habitat needs
- Teach the public about watershed health and it's relation to the health of fish populations

The main focus of this project is to:

- Support established education program

Is this education/outreach associated with ODFW efforts?

- Yes
- STEP

This education/outreach effort will target:

- Youth (< 18 years old)
- School groups

Number of people targeted by this proposal:

25

Estimate the average amount of time that each attendee will participate in the proposed effort.

23623

Explain the duration/frequency of the proposed outreach effort.

The Warrenton High School Hatchery is a student led hatchery. We focus on the education of what the salmon needs and than how we can get them that. The proposed of the outreach is to get kid into the field of fisheries and to show them what it is all about. On average, the students spend 5 hours per week and .5 hours on the weekend taking care of and rearing fish. This will continue through the school year (approx. 189 days).

Will the developed materials be available for use by other organizations or the public(i.e curriculum, teaching techniques, educational strategies, materials)?

No

Hatcheries/Propagation/Liberation

Hatchery Name:

Warrenton High School Hatchery

This is a:

- STEP hatchery
- It is a School based Hatchery

As a result of this request hatchery production will:

Maintain

This project will:

- Reduce the impacts of hatchery operations (i.e. reduce disease, stray rates or interbreeding)
- Improve energy efficiency of hatchery operations
- Improve effectiveness of hatchery operations (i.e. improve survival or return to angler)

Fish produced at this facility are for:

- Sport harvest
- Commercial harvest

Project Description

Schedule

Activity	Date	RE Funding
Locate and identify existing waterlines	June 2023	No
Identify location for new lines	June 2023	No
Trench for new water lines	July 2023	No
Install new lines	July 2023	No
Cover lines and replace asphalt as needed	Aug. 2023	No
Test system	Aug. 2023	No
Submit Completion Report	Sept 2023	No

Permits

Permit	Secured?	Date Expected
No permits are necessary for this project.	No	12/31/2023

Project Design and Description

Please describe in detail the methods or approach that will be used to achieve the project objectives.

In 2007 WarHF installed the existing water collection system by tying in two of the down spouts from the High School Gym and running a 6" pipe to the hatchery. This was a way to get clean water suitable for fish rearing to our fish hatchery's closed system water supply. However, recent roof construction changed the pitch of the roof and now we get very little water off the roof for fish rearing. This project is an attempt to collect a more adequate supply of water by add 7 more down spouts connections that tie into 520 feet of 6" pipe that is incorporated into an already existing system that goes into the hatchery's water supply.

Engineering

Does the project involve capital improvement, engineering, site grading or other construction?

No

Project Management and Maintenance

What is the life expectancy of R&E funded construction, structures, equipment, supplies, data or fishery?

Students and staff are responsible for daily maintenance activities at the facility in addition to minor needs like small plumbing repairs, etc. Long term maintenance needs will be the responsibility of Warrenton School District Maintenance Department.

Who is responsible for long term management, maintenance, and oversight of the project beyond what is funded by R&E.

Warrenton High School's maintenance team will be in charge of all maintenance and oversight of the project. The Warrenton Fisheries leadership team will be responsible for the management of the project.

Will the project require ongoing maintenance?

Yes

Ongoing maintenance needs consist of cleaning roof gutters. This will be accomplished by school maintenance staff.

Is there a plan to collect baseline data and to conduct monitoring efforts to measure the effectiveness

of the project?
No

Project Funding

Funding

Have you applied for OWEB funding for this project?
No

Has this proposal, or similar proposal for this project location, previously been denied by OWEB or other funding source?
No

Other Funding Source	Type	Secured	Dollar Value	Comments
WarHf Inc.	Cash	Secured	5000	
		Total	5000	

Budget

Item	Unit Number	Unit Cost	In-kind or non-cash contributions	Funding from other sources	R&E Funds	Total Costs
PROJECT MANAGEMENT						
			0	0	0	0
		SUBTOTAL	0	0	0	0
IN-HOUSE PERSONNEL						
			0	0	0	0
		SUBTOTAL	0	0	0	0
CONTRACTED SERVICES						
coast of labor	10	500.00	0	0	5000	5000
		SUBTOTAL	0	0	5000	5000
TRAVEL						
			0	0	0	0
		SUBTOTAL	0	0	0	0
SUPPLIES/MATERIALS						
			0	0	0	0
		SUBTOTAL	0	0	0	0
EDUCATION/OUTREACH						
			0	0	0	0
		SUBTOTAL	0	0	0	0
EQUIPMENT						
dich which	5	800.00	0	2500	1500	4000
back hoe	5	800.00	0	2500	1500	4000
tractor	5	1000.00	0	0	5000	5000
truck	5	1000.00	0	0	5000	5000
		SUBTOTAL	0	5000	13000	18000
FISCAL ADMINISTRATION						
			0	0	0	0
		SUBTOTAL	0	0	0	0
		BUDGET TOTAL	0	5000	18000	23000

Internal Review Results

Review Score: 1.1 out of 3

(0 = Do Not Fund, 1 = Strengthen Proposal, 2 = Recommend, 3 = Strongly Recommend)

Summary of Review Team Comments

Review team felt there needed to be some information added to the application to address insufficient details in the budget, how much benefit to the resource is there from this project, and how much benefit is there to the hatchery from collecting the rainwater.

Specific Review Team Comments

Not much description of how the work will be accomplished and little detail in the budget to specify how the funds will be used

It is unclear if the high school administration is aware of and supports the project.

It would be helpful to know how many high school students participate in the program and how many fish of each species are raised and released from the hatchery.

Rainwater capture/reuse appears to be a good project, good educational message to students. Hatchery project is a great exposure to fisheries, work ethic, biology, ecosystem, etc. for high school students. Budget appears reasonable and not a large ask from R&E, albeit perhaps some missing items (mentioned above). Strengthen application by providing more information on fisheries methods, benefits, hatchery operation. Are the fish CWT to monitor return and contribution to fisheries? How does the timing/seasonality of typical rainfall match with the hatchery life stages of the salmon?

\$18K is not a big investment, but I see limited return on this grant request.

Specific Review Team Questions

Does rainwater (seasonal, inconsistent, and unpredictable) provide dependable water supply for hatchery rearing needs? Is there storage of rainwater available, or is it simply "run-through" as available? Has roof water been tested for contaminants? Budget does not include new pipe, fittings, replacing asphalt. What are the budget units? Hours, days?

The rainwater does give us a dependable water supply, but the supply of water is a little below the amount of water that we need to operate our facilities. The water is stored in a 9,000 gallon tank that serves as our reserve water supply. There has been no sign of contaminants on the roof or any of the pipe that the water runs through.

How many fish are reared here? How many return?

What proportion of students continue on to a career in fisheries?

The hatchery rears 20,000 chinook, 5,000 Coho, and 5,000 winter steelhead annually. It is unclear at this time how many of our fish do return, but Coho and chinook have been found in the river that we release into. The Warrenton High Hatchery falls under the STEP program and we focus more on the education of fisheries and not careers in fisheries.

Are there alternative funding sources from the local community or additional commitment from the Warrenton Highschool to help fund this project. Is there an option to ask for donations from local contractors to implement the project? With the roof redesigned it impacted the water supply for the facility? Why wasn't this taken into account and mitigated through that process? Grant is asking for contractor work only, is their money earmarked for the new piping?

We have looked in to alternative funding sources for this project, but ultimately this would be our

best chances to get the funding in full and the project done at once, instead of doing the project in fazes. We were not involved with the changes to the roof. The solution was to incorporate more down spouts into our system. We have included our construction bid for you to view.

This is mostly an education/outreach project (though the cost is relatively small).

It wasn't clear to me whether the result of the roofing project would be a similar volume of water as prior to the project (did surface area or drainage change), and it seems like testing water quality would be appropriate before spending the money to do this. Whether because of water flowing over new roofing materials or different roofing materials than the previous roof, it is possible the water would not be suitable for use without some direct or indirect pre-treatment.

We still continue to incorporate a little amount of rain water that the original system gives us, that has shown to have no impacted on the fish what so ever. Our hope is with the new expansion to have a lagged volume of water to subsidize the city water that we use, that has show to have an impact on our fish.

Additional Files

Budget Information

[Bid for Downspout Connection](#)

Construction Estimate

Maps

Photos

[aerial photo](#)

Design Information

Management Plans and Supporting Documents

[Previous Projects](#)

Picture of table of previous projects

[project description](#)

over all description

Permits and Reviews

Partnerships

[commitment letter](#)

Public Comment

[High School letter of support](#)

Administrative Documents

[501c3](#)

[Signature Authorization Page](#)

Signature Page

Completion Report

Objectives and Accomplishments

Locate and identify existing waterlines

Did you meet the objective? Yes

With the help of Carlson Contracting they were able to find the already existing waterlines.

Identify location for new lines

Did you meet the objective? Yes

With the help of Carlson Contracting they were able to identify the best locations for the new waterlines.

Trench for new water lines

Did you meet the objective? Yes

With the help of Carlson Contracting they were able to dig all the trenches for the new waterlines in the locations that they had concluded were the best location.

Install new lines

Did you meet the objective? Yes

Carlson Contracting were were able to install the new waterlines in the trenches.

Cover lines and replace asphalt as needed

Did you meet the objective? Yes

Carlson Contracting was able to repair all road surfaces and put down new gravel on top to prolong it life expectancy.

Test system

Did you meet the objective? Yes

The system has meet and exceed the test parameters and our expectations.

Comments

Over all the project was a great success. We will have the much needed green supply of clean water for the rearing of fish in our hatchery. Thank you for your support.

Grantee agreed to forfeit all remaining funds.