



R & E Grant Application 21-23 Biennium

Project #: 21-004

Maintenance & upgrades - Noble Creek STEP Hatchery

Project Information

Requested Cycle: 21-1
R&E Project Request: \$11,915
Other Funding: \$4,508
Total Project: \$16,423
Spending Start Date: 7/1/2021
Spending End Date: 10/1/2022
Project Start Date: 7/1/2021
Project End Date: 10/1/2022
Organization: Coos River STEP Association (Tax ID #: 93-0969210)

Fiscal Officer

Name: Vickie Flemming
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Charleston, OR 97420
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Applicant Information

Name: Vickie Fleming
Address: P.O. Box 5907
Charleston, OR 97420
Telephone: 541-290-7828
Email: flemrv@pioneer.net

Past Recommended or Completed Projects

This applicant has no previous projects that match criteria.

Authorized Agent

Name: Gary Vonderohe
Address: PO Box 5003
Charleston, OR 97420
Telephone: 541-888-5515

Fax: 541-888-6860
Email: Gary.R.Vonderohe@odfw.oregon.gov

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.

93638 Green Acres Lane
Coos Bay, OR 97420

Directions to the site from the nearest highway junction.

Take the Green Acres turnoff at mile marker 3.2 on Highway 42, half way between Coos Bay and Coquille. The Hatchery is 1.1 miles on the right hand side of the road.

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

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.

The public is allowed at this STEP hatchery but there is no public angling on site.

Dominant Land Use Type:

Hatchery located on private rural residence.

Project Location

General Project Location.

County: COOS
ODFW Dist: Umpqua
Stream/Lake/Estuary Name: Ferry Creek
Sub-basin: 17100304
Tributary of: Noble Creek

Specific Project Location.

Latitude	Longitude
43.25235	-124.19965

Project Summary

Project Summary

Please provide a couple sentence summary of the proposal.

The Coos River STEP Association would like to make much needed maintenance repairs and upgrades at Noble Creek STEP Hatchery which include Concrete stabilization, concrete leveling, electrical panel upgrades, purchase of aerators, replacement of old roofing, pump repairs, purchase of new screening and UV Filter.

Overall Project Goals

Describe the primary goals or outcomes of the entire project, including elements not requesting

funding from R&E.

Stabilize concrete under the floor of the fish trap, concrete leveling in rearing pond in locations of fish screens.

Electrical panel upgrades to support Auto fin marking trailer, host trailer, and appliances on site.

Replacement of old roofing and repair of washdown pump.

Purchase of new floating in-pond aerators, UV filter system for rearing raceway, materials for new intake screens.

Primary objectives of R&E funding

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

R&E funds will be used for concrete stabilization and leveling

R&E funds will be used for electrical panel upgrade and roof repairs

R&E funds will be used to purchase 2 floating aerators

Current Situation/Justification

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

The Noble Creek Hatchery was built in the mid 1980s with additional buildings/storage added in later years. We recently discovered there is an undercut at the end of the fish trap that goes back several feet. If this is not fixed relatively soon we are afraid the concrete will collapse, making the fish trap unusable. The concrete raceway has settled over time and is no longer level in several places, making it very difficult to place screens to keep fish separated (specifically during fin clipping). Because this STEP hatchery has been around for quite a while there are several other things that need to be fixed or upgraded to operate this hatchery safely and efficiently.

The STEP group is a non-profit with very little incoming funds. The STEP group has some funds to pay for some of the repairs/upgrades but need outside funding to complete the remainder.

Recreation and Commercial Benefit

This project will provide benefits to:

Recreational fisheries

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

Hatchery fall Chinook produced at this facility accounts for about 30% of the total hatchery Chinook released into the Coos Basin. These hatchery fish contribute well to the sport salmon fishery in Coos Bay. From previous ODFW creel data, hatchery fall Chinook accounted for anywhere from 25% to 80% of the harvested salmon in the Coos Basin salmon fishery each fall. Some of these repairs are essential to the continued operation of the Noble Creek Hatchery. The other repairs/upgrades will help us continue to operate the facility safely and efficiently. Completing these repairs/upgrades will allow us to keep producing hatchery fall Chinook for many more years.

Percent benefit split between Commercial and Recreational anglers:

0 % Commercial

100 % Recreational

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

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?
Unknown

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

Although not specifically called out in the ODFW Strategic Plan, this hatchery can help achieve Goal 2, Objective 2.2 in the Strategic Plan which is to "Increase participation in hunting, fishing, and shellfishing".

Identify any plan or other document that identifies this priority.

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

The Noble Creek STEP Hatchery has been approved to raise and release hatchery fall Chinook through the STEP Propagation approval process.

This project is intended to benefit the following species:
Fall Chinook Salmon

This project will benefit anglers or fishery by providing:
Hatcheries/Propagation/Liberation

Hatcheries/Propagation/Liberation

Hatchery Name:
Noble Creek STEP Hatchery

This is a:
STEP hatchery

As a result of this request hatchery production will:
Maintain

This project will:
Restore, rehabilitate, modify, or replace existing production/acclimation facilities
Improve safety of hatchery operations

Fish produced at this facility are for:
Sport harvest

Project Description

Schedule

Activity	Date	RE Funding
Upgrade electrical panel	07/2021	Yes
Stabilization and leveling of concrete	07/2021	Yes
Replace roofing	08/2021	Yes
Purchase floating aerators	08/2021	Yes
Build and install intake screens	02/2021	No
Installation of UV filters	1/2021	No

Repair of washdown pump	01/2021	No
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Permits

Permit	Secured?	Date Expected
	No	

Project Design and Description

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

To stabilize and fill the void under the concrete at the fish trap at the hatchery, we are looking to work with a company that specialize in fixing foundations. We will isolate the site by diverting water away from the project area. The contractor will drill holes through the concrete in the undercut section of the fish trap. Specialized concrete will be pumped into the hole to fill the void under the fish trap. They will then move down and do the process again until the undercut is filled with concrete.

For leveling the concrete in the rearing pond, we do not plan to level the entire pond but instead just leveling out short sections where the fish screens will be placed. A contractor will be hired and will cut out/rough up the concrete in the area to be leveled. They will pour a new level area of concrete and work to round the edges as much as possible so we don't unintentionally create any tripping hazards.

For the new intake screens, we will purchase aluminum tubing and aluminum screening material and take them to Bandon Fish Hatchery. Hatchery staff have an aluminum welder and have offered to weld up the new screens.

For the electrical panel upgrade, a licensed electrician will be hired who will install the new electrical panel and breakers. They will also be in charge of obtaining any permits and inspections necessary for this project.

The old roof is made of cedar shingles which are old, covered in moss and in need of replacement. Currently the roof leaks and is causing damage to the inside ceiling. To replace the old roofing we will hire a contractor to remove the old roofing and install new metal roofing which will be much easier to clean and maintain.

The new floating in-pond aerators we would like to purchase, come as a recommendation from Jim Robinson, retired ODFW Bandon Hatchery manager, to meet the needs at Noble Creek Hatchery. Jim conducted a lot of research on aerators for Morgan Creek STEP Hatchery and is very happy with this brand/model.

New UV filter systems were researched by volunteers within the STEP group. They will be purchased and installed by the volunteers. Repairs for the washdown pump will also be completed by volunteers within the STEP group.

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?

The life expectancy for the concrete work and new roofing will be more than 15 years. The new electrical panel and aerators should last more than 10 years.

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

The Coos River STEP Association is responsible for the long term maintenance and oversight of the facility and equipment on site.

Will the project require ongoing maintenance?

Unknown

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
Coos River STEP Association	Cash	Secured	3748	
Coos River STEP Association	In-Kind	Pending	460	
Oregon Department of Fish and Wildlife	In-Kind	Pending	300	
		Total	4508	

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						
Labor to repair washdown pump	8	20.00	160	0	0	160
Labor to install UV Filters system	15	20.00	300	0	0	300
Labor to build intake screens (ODFW Bandon Hatchery staff)	15	20.00	300	0	0	300
		SUBTOTAL	760	0	0	760
CONTRACTED SERVICES						
Electrical panel upgrade (permits, parts, labor)	1	2500.00	0	0	2500	2500
Roofing (materials and labor)	1	3465.00	0	0	3465	3465
Concrete stabilization under fish trap	1	2730.00	0	0	2730	2730
Concrete leveling in rearing pond	1	1000.00	0	0	1000	1000
		SUBTOTAL	0	0	9695	9695
TRAVEL						
			0	0	0	0
		SUBTOTAL	0	0	0	0
SUPPLIES/MATERIALS						
Washdown pump parts for repair	1	118.00	0	118	0	118
Aluminum intake screen materials(2 screens)	2	575.00	0	1150	0	1150
		SUBTOTAL	0	1268	0	1268
EDUCATION/OUTREACH						
			0	0	0	0
		SUBTOTAL	0	0	0	0
EQUIPMENT						
Kasco Marine 3/4 hp floating aerator	2	1110.00	0	0	2220	2220
UV filters for water supplies	2	1240.00	0	2480	0	2480
		SUBTOTAL	0	2480	2220	4700
FISCAL ADMINISTRATION						
			0	0	0	0
		SUBTOTAL	0	0	0	0
		BUDGET TOTAL	760	3748	11915	16423

Internal Review Results

Review Score: 2 out of 3

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

Summary of Review Team Comments

The review team is supportive of the proposal but requested additional information to fully justify and explain the proposed work. Scores included one 3, eight 2s, and one 1.

Specific Review Team Comments

Seems like a good use of funds to shore up this STEP facility, but the applicant should identify the sort of consultation has been done with an engineer or others to get their perspectives on the need for this work and the proposed solutions. The second opinion could help show the work is worth the investment.

Roof photos are small making it difficult to see condition of existing roofing. While there is moss in the photos, the description and photos do not highlight the need for replacement. May want to expand on the reason for replacement and what kind of normal maintenance will be performed to limit future moss growth.

This program also provides some commercial fishery benefit from Chinook released through this program.

Great restoration project and it is for a non-ODFW facility.

Specific Review Team Questions

Is this replacement of the UV filter system, or additional UV filtration equipment?

The UV filtration equipment is completely new for Noble Creek Hatchery. Up to this point the only filters we have had at the hatchery were sand filters. The UV filters will be used to filter the water in the deep matrix hatchboxes and early rearing troughs.

How does this hatchery/program fit into ODFW management goals/priorities for this basin?

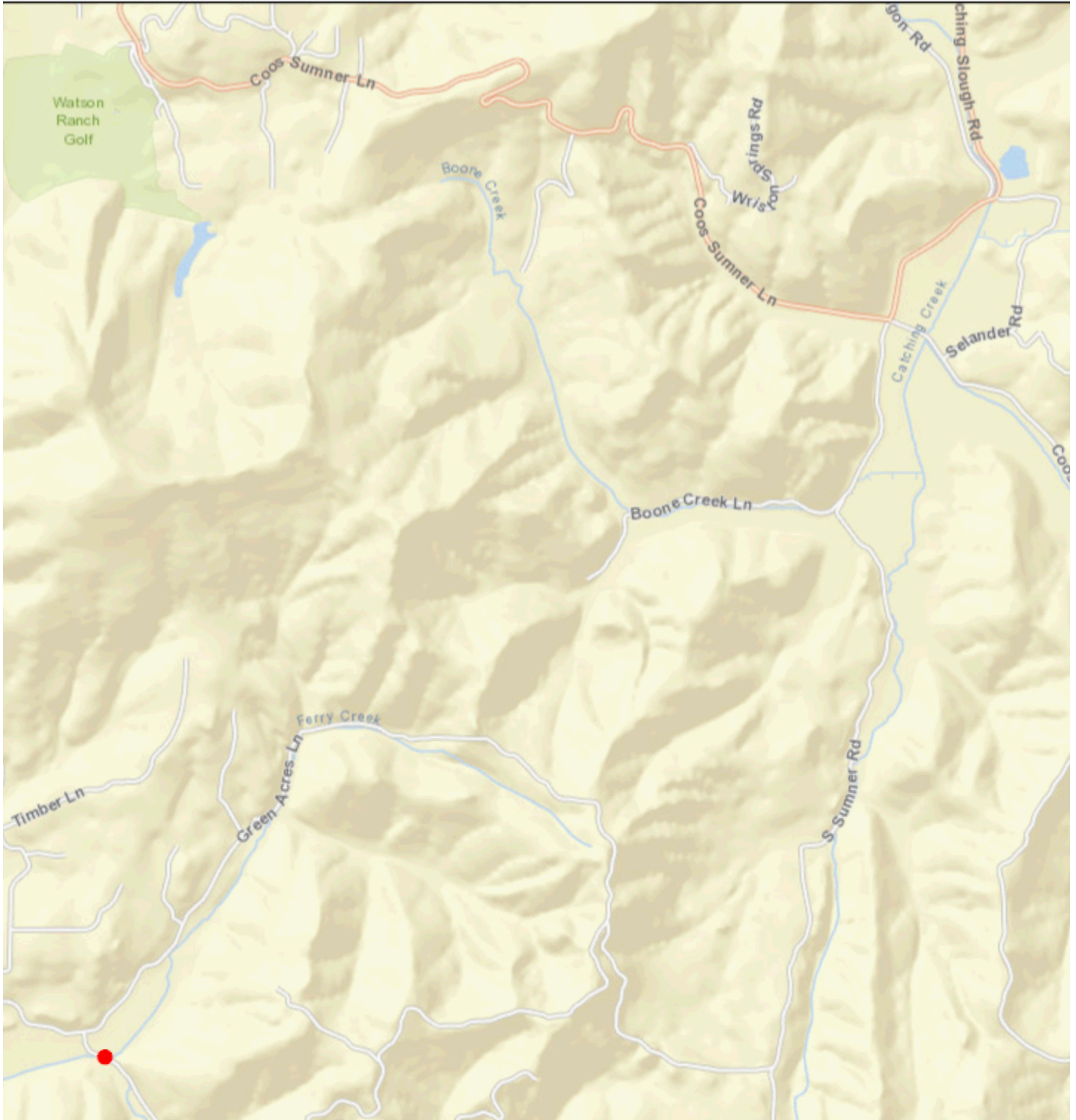
The hatchery fall Chinook production from Noble Creek is part of the approved Chinook releases under the ODFW Coastal Multi species Conservation and Management Plan. Based on angler creel information in the Coos Basin from 2009-2013, hatchery fall Chinook contribute very well to the overall harvest within Coos Bay. Some years hatchery fall Chinook accounted for up to 80 percent of the total Chinook harvested in the bay.

Are there any permits, cultural surveys, or engineering plans needed?

For the concrete work we are conducting maintenance and will not work outside the existing footprint of the hatchery rearing pond/trap so no permits are needed.

For the replacement of the electrical panel, any and all permits will be handled by the electricians.

Project Map



Additional Files

Budget Information

[Concrete quote for undercut to trap](#)

quote

[Invoices for Aluminum Screens](#)

invoices

[Invoices for UV filters](#)

invoices

[Invoices for Washdown pump](#)

invoices

Maps

[Project Map](#)

Map image of project location

Photos

[Roof pictures](#)

Roof picture 1

[Roof pictures](#)

Roof picture 2

[Roof pictures](#)

Roof picture 3

[UV Filter pictures](#)

UV picture 1

[UV Filter pictures](#)

UV picture 2

[UV Filter pictures](#)

UV picture 3

Design Information

Management Plans and Supporting Documents

Permits and Reviews

Partnerships

Public Comment

Administrative Documents

[Signature page](#)

[Tax forms](#)

Completion Report

A completion report has not been submitted for this project.