R & E Grant Application 25-27 Biennium

Project #: 25-014

Hatchery Restoration (R) Bundle 25 - Cycle 2

Project Information

Requested Cycle:	25-2
R&E Project Request:	$740,000
Other Funding:	$4,540,000
Total Project:	$5,280,000
Spending Start Date:	7/1/2023
Spending End Date:	6/30/2025
Project Start Date:	7/1/2023
Project End Date:	6/30/2025
Organization:	Brent Hinners - ODFW

Applicant Information

Name:	Brent Hinners
Address:	17330 SE Evelyn St Clackamas, OR 97015
Telephone:	971-673-6006
Email:	brent.a.hinners@odfw.oregon.gov

Past Recommended or Completed Projects

This applicant has no previous projects that match criteria.

Authorized Agent

Name:	Chris Kern
Address:	4034 Fairview Industrial Drive Salem, OR 97302
Telephone:	503-947-6218
Email:	chris.j.kern@odfw.oregon.gov

Location Information

Where is it?

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

Site Description

Street Address, nearest intersection, or other descriptive location.

Nehalem Hatchery - Tillamook County
Big Creek Hatchery - Clatsop County
LaGrande ODFW Office - Union County
Trask Hatchery - Tillamook County
Oak Springs Hatchery - Wasco County
Cedar Creek Hatchery - Tillamook County
Clackamas Hatchery - Clackamas County

Directions to the site from the nearest highway junction.

Multiple directions and locations

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

Full 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.

ODFW will allow access as long as the property is managed or owned by ODFW

Dominant Land Use Type:

Fish Hatcheries

Project Location

General Project Location.

County: Tillamook, Clatsop, Union, Wasco, Clackamas
Town/City: Nehalem, Knappa, Lagrande, Maupin, Tillamook, Hebo, Estacada
ODFW Dist: Multiple
Tributary of: Pacific Ocean

Specific Project Location.

Latitude	Longitude
45.8125	-123.776
46.14558	-123.58355
45.31143	-118.07664
45.4332	123.72577
45.21298	-121.10932
45.21417	-123.84695
45.29598	-122.36098

Project Summary

Project Summary

Please provide a couple sentence summary of the proposal.

The intent of this project is to compile a "Fish Hatchery Bundle" which will complete multiple projects statewide at various hatcheries. The Hatchery coordinators prioritized the list of these projects.

Overall Project Goals

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

Nehalem Hatchery has an outdated fish pump that is in disrepair and needs replacement. This pump is used to load >70K legal trout onto liberation trucks. This pump is trailer mounted so could act as a backup to other neighboring hatcheries.

Big Creek hatchery has an adult holding pond that is used to house adults prior to spawning. This project will add dividers to the pond to increase flexibility and allow the hatchery to separate different species. A second piece to the project will add safety railing around the pond.

This request is to replace two F550 liberation trucks which are primarily used to distribute trout for stocking in the east region but can also be used around the state when other trucks are out of service for repairs.

Trask Hatchery has two intakes, one of which is Mary's Creek. This project will repair an intake that undermined during a winter of 24/25 storm and move to a new location upstream. This project was flagged for fish passage and is being worked on with Hatchery, District, Passage and engineering.

Oak Springs – Demo or modify one (1) brood pond and convert to trophy trout raceways (4) that are 10x70x4 ea.
*Alternate Project included in Bundle

This project at Cedar Creek Hatchery will add extra flexibility and rearing space by adding 4 rearing ponds.

Multiple methods of predator hazing are utilized to limit predation at hatcheries. This project will be fund a proof of concept to utilize a licensed falconer to use falcons to haze birds from the Clackamas Hatchery.

Install a restroom at Bandon Hatchery for public and staff use - The only restroom available to the public or staff at Bandon Fish Hatchery is a single stall porta potty

Primary objectives of R&E funding

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

Nehalem Fish Pump - Obtain new and updated operable fish pump

Big Creek - install a divider screen in the adult holding pond to increase flexibility in the system and install safety railing around the holding pond.

Fabricate a moveable wall for the Hatchery’s adult pond. We would use the moveable wall to create optimum densities for our “Fallback System” to operate efficiently, reducing pre-spawn handling and mortality.

New perimeter fencing around the adult pond and shade cloth
to hang from the new fencing to help reduce the stress of the fish.

Two F550 Liberation trucks - Purchase two liberation trucks and outfit with liberation tanks and life support systems

Trask Hatchery intake - secure water supply and utilize the full water right of Mary's Cr. intake while moving the intake to a more accessible location. And adding passage.

Oak Springs – Demo or modify one (1) brood pond and convert to trophy trout raceways (4) that are 10x70x4 ea.

Cedar Creek Hatchery -Add extra flexibility and rearing space by adding 4 rearing ponds.

Clackamas Hat. Bird hazing - Proof of concept on hazing plan provided by Sky Guardian

Current Situation/Justification

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

Nehalem - Current fish pump is decades old and is in disrepair
Big Creek - Current brood pond has no ability to sort fish by species and hand railing is inadequate.
The main objective of the proposed project is to effectively utilize the Fall Chinook broodstock that
are available. Tule Fall Chinook enter the hatchery facility at an advanced stage of maturation. Physically handling the fish at this point results in high rates of mortality. Big Creek Hatchery staff have developed protocols to reduce handling, the next step is to fabricate a moveable wall for the Hatchery's adult pond. We would use the moveable wall to create optimum
densities for our "Fallback System" to operate efficiently, reducing pre-spawn handling and mortality. The fallback systems works to allow sexually mature fish to separate themselves from the bulk of the population, but only works efficiently when fish densities are optimal. Tied to this project we are requesting funding for new perimeter fencing around the adult pond and shade cloth
to hang from the new fencing to help reduce the stress of the fish.

Liberation trucks (F550's) - Several trucks have been identified for replacement due to their unreliable condition.
Trask Hat. Mary's

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.

Nehalem - Fish pumps are essential to the safe and efficient loading of fish that will be stocked into public waters and will create angling opportunity.

Big Creek - Improvements in brood holding will improve broodstock health by minimizing handling

Liberation trucks - are vital to ODFW and anglers alike by ensuring timely and dependable fish stocking and transfers.

Trask Hatchery intake - Mary's creek adds essential water for the production of fish at Trask hatchery and is a cleaner water source to use during high water and storm events.

Oak Springs / Cedar Creek - adding rearing units will add flexibility and added production capacity at hatcheries with ideal water conditions

Clackamas Hat. Hazing - Birds and other predators have a direct impact on the number and condition of fish being released.

Restroom will benefit all users, anglers, stakeholders, public

Percent benefit split between Commercial and Recreational anglers:

10 % Commercial
90 % Recreational

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

Salmon production is assumed a 50:50 split between recreation and commercial fishing. If salmon production equals 20% of the production, this would equal a 10% benefit to Commercial anglers and a 90% benefit to recreational anglers.
It is assumed that 100% of Steelhead and trout will benefit recreational anglers.

This project has been identified as an ODFW priority for:

Local/watershed
Basin/regional
Statewide

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.

Discussions among Fish Division, Fish Propagation and Hatchery Coordinators

Identify any plan or other document that identifies this priority.

https://www.dfw.state.or.us/fish/hatchery/docs/fish_mgmt_policy.pdf

https://www.dfw.state.or.us/fish/HGMP/docs/2024/Nehalem%20HPMP%202024.pdf

https://www.dfw.state.or.us/fish/HGMP/docs/2024/Big%20Creek%20HPMP%202024.pdf

https://www.dfw.state.or.us/fish/HGMP/docs/2024/Trask%20River%20HPMP%202024.pdf

https://www.dfw.state.or.us/fish/HGMP/docs/2024/Cedar%20Creek%20Hatchery%202024.pdf

https://www.dfw.state.or.us/fish/HGMP/docs/2024/Oak%20Springs%20HPMP%202024.pdf

https://www.dfw.state.or.us/fish/HGMP/docs/2024/Clackamas%20HPMP%202024.pdf

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

No

This project is intended to benefit the following species:

Fall Chinook Salmon
Spring Chinook Salmon
Coho Salmon
Winter Steelhead
Summer Steelhead
Rainbow Trout

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

Angling Opportunity

This project will:
Improve the opportunity for anglers to catch fish (better stocked fish, trapping)

Hatcheries/Propagation/Liberation

Hatchery Name:
Nehalem, Big Creek, Trask, Clackamas, Cedar Creek, Oak Springs, Bandon

This is a:
State hatchery

As a result of this request hatchery production will:
Increase

This project will:
Address a need identified on the ODFW Hatchery Maintenance Priority list
Reduce the impacts of hatchery operations (i.e. reduce disease, stray rates or interbreeding)
Restore, rehabilitate, modify, or replace existing production/acclimation facilities
Restore, rehabilitate, modify, or replace existing liberation equipment
Add new or upgrade production/acclimation facilities/capacity.
Add new or upgrade liberation equipment
Improve safety of hatchery operations
Improve staff efficiency of hatchery operations
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
Mitigation

Project Description

Schedule

Activity	Date	RE Funding
Nehalem Fish Pump -purchase pump	03/2026	Yes
Big Creek adult pond modifications - Currently working with engineering. Construction will be completed in the summer of 2026 prior to adults returning	07/2026	Yes

Two F550's - Price agreements are in place, once approved the trucks will be ordered	03/2026	Yes
Trask Hatchery - This project will occur during the in water work period of 2026	09/2026	Yes
Clackamas Hatchery proof of concept will occur during a period of high predation and prior to smolt releases	06/2026	Yes
Construct restroom at Bandon Hatchery	10/2026	Yes

Permits

Permit	Secured?	Date Expected
All necessary permits will be obtained in collaboration with engineering	No	Prior to the project(s)
Bandon-Per engineering, AAR has submitted the Document to SHPO with the tribe approval. With 30-day AAR will have the cultural permit and in the next few months they do	No	08/25

Project Design and Description

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

Hatchery staff is working with engineering and the screen shop on design

Engineering

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

Yes

On ODFW land or managed by ODFW staff

Project Management and Maintenance

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

Fish pump >25 years
Big Creek pond upgrades >50 yrs
F550 trucks >15 yrs
Trask intake >50 yrs
Cedar Creek and Oak Springs ponds >50 yrs
Clackamas Hatchery bird hazing 1 yr.
Bandon Restroom >50 yrs

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

ODFW Staff will make necessary repairs and maintenance

Will the project require ongoing maintenance?

Yes

ODFW properties and equipment will be maintained by ODFW staff to ensure longevity

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
Hatchery Maintenance Bond Funds	Other	Pending	4,500,000	This will be the primary funding source for Cedar Creek ponds. R&E funds will be used to supplement
Program Funds	Cash	Pending	40,000	If additional funds (other than R&E) are needed to complete this project, they will be sourced from hatchery project funding.
		Total	4,540,000	

Budget

Item	Unit Number	Unit Cost	In-kind or non-cash contributions	Funding from other sources	R&E Funds	Total Costs
PROJECT MANAGEMENT						
		SUBTOTAL				
IN-HOUSE PERSONNEL						
		SUBTOTAL				
CONTRACTED SERVICES						
Depredation bird hazing - Proof of concept					15,000	15,000
Trask Hatchery intake (Mary's Cr.) repair, upgrade, passage					120,000	120,000
Cedar Creek raceway expansion				4,500,000	90,000	4,590,000
Oak Springs raceway expansion (alternate project)						
Adult holding pond upgrades (Big Creek)					140,000	140,000
Bandon restroom				40,000	90,000	130,000
		SUBTOTAL		4,540,000	455,000	4,995,000
TRAVEL						
		SUBTOTAL				
SUPPLIES/MATERIALS						
		SUBTOTAL				
EDUCATION/OUTREACH						
		SUBTOTAL				
EQUIPMENT						
F550 Lib Truck (1 of 2)					100,000	100,000
F550 Lib Truck (2 of 2)					100,000	100,000
Fish pump replacement - Nehalem					85,000	85,000
		SUBTOTAL			285,000	285,000
FISCAL ADMINISTRATION						
		SUBTOTAL				
		BUDGET TOTAL	0	4,540,000	740,000	5,280,000

Internal Review Results

Review Score: 3.9 out of 5

(1 = Do Not Fund, 2 = Strengthen Proposal, 3 = Recommend with Conditions, 4 = Recommend, 5 = Strongly Recommend)

Summary of Review Team Comments

Do the projects in this application trigger Engineering review, cultural assessment, and Fish Passage review? If so, have these been accounted for?

Specific Review Team Questions

It is likely that there will be requirements for cultural surveys, engineering support, and fish passage review for some of the projects listed in this application. Has this been accounted for?

Yes, Engineering has been engaged in the construction projects in this list and are at varying levels of design.

The application states that hatchery production will increase as a result of this project. Please explain- are there proposed increases in the number of fish to be raised?

Cedar Creek Hatchery project will allow for future expansions or overflow from other facilities. Depredation hazing will increase the amount of fish to be released as they will have not been depredated.

Will the fish pump be able to be used at multiple hatcheries, or will it only be used at Nehalem Hatchery?

Fish pumps are versatile in nature and are mounted on road stable trailers. Fish pumps are currently circulated around facilities when there is a need to do so. Unfortunately, it is rather challenging to have a pump that is intended to be shared amongst facilities as the needs typically overlap. But, when emergencies or mechanical issues arise, they can pretty easily be moved to fill the needs of multiple facilities. Along with the versatility, they can also be set up to pump large amounts of water, which could be used for various things.

Will the falconry be a sustainable way to haze predatory birds from the hatchery, and is this applicable to other hatcheries?

This is definitely applicable at other hatcheries and could be expanded if we find this to be a long term solution. Falconry has been used as deterrents at many locations, including hydropower projects within the Columbia.

Below is a presentation https://www.nwcouncil.org/fs/17777/2022_06_f1.pdf

Additional Files

Budget Information

Bandon Hatchery Restroom Budget	*Bandon Hatchery Restroom Budget*
Clackamas Hatchery predator Hazing	*Quote for Falconry Hazing*
F550	*F 550 bid from 2024*
Nehalem Fish pump	*Quote*

Maps

Photos

Marys Creek intake	*Compromised intake photo*
Marys Creek intake	*Compromised intake photo*
Marys Creek intake	*Compromised intake photo*

Design Information

Cedar Creek Ponds	*Prelim. Design work*

Management Plans and Supporting Documents

Bandon Hatchery Restroom Summary	*Bandon Hatchery Restroom Summary*

Permits and Reviews

Partnerships

Public Comment

Administrative Documents

Signature Page	*Signature Page*

Completion Report

A completion report has not been submitted for this project.