



R & E Grant Application 21-23 Biennium

Project #: 21-015
Amendment #: 2

2021-23 Hatchery Maintenance Bundle

Project Information

Requested Cycle: 21-2
R&E Project Request: \$1,082,000
Other Funding: \$515,000
Total Project: \$1,597,000
Spending Start Date: 7/1/2021
Spending End Date: 6/30/2023
Project Start Date: 7/1/2021
Project End Date: 6/30/2023
Organization: Brent Hinnners - ODFW

Applicant Information

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

Past Recommended or Completed Projects

This applicant has no previous projects that match criteria.

Authorized Agent

Name: Scott Patterson
Address: 4034 Fairview Industrial Drive SE
Salem, OR 97302
Telephone: 503-947-6218
Fax: 541-963-6670
Email: Scott.D.Patterson@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.

Alsea Hatchery: 29050 Fish Hatchery Rd, Alsea OR 97324

Oregon Hatchery Research Center: 2457 East Fall Creek Rd, Alsea, OR 97324

Trask Hatchery: 15020 Chance Road, Tillamook OR 97141

Clackamas Hatchery: 24500 S Entrance Road, Estacada OR 97023

Cole Rivers Hatchery: 200 Cole M. Rivers Drive, Trail OR

Cedar Creek Hatchery: 33465 Highway 22, Hebo OR 97122

Directions to the site from the nearest highway junction.

Various

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 provide access to anglers as long as the property is owned or managed by ODFW

Dominant Land Use Type:

Forest

Project Location

General Project Location.

County: Lincoln, Clackamas, Tillamook, Jackson

Town/City: Alsea, Estacada, Tillamook, Chiloquin, Hebo

ODFW Dist: North Coast, NWWD, Rogue

Sub-basin: Several

Tributary of: Pacific Ocean, Alsea, Clackamas, Trask, Rogue, Three Rivers

Specific Project Location.

Latitude		Longitude	
	44.4228		-123.5658
	44.4060		-123.7500
	45.2961		-122.3603
	45.4322		-123.7219
	42.665		-122.68
	45.2158		-123.8453

Project Summary

Project Summary

Please provide a couple sentence summary of the proposal.

These funds will improve efficiencies, secure access and offset operational costs at various

hatcheries. Projects will include; repairing an undercut bank which threatens a hatcheries water source, protects fish and minimizes unintended passage by extending a dam apron, adding hydropower, replacing an inoperable fish pump, and adding two liberation trucks.

Overall Project Goals

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

Alsea - Design and stabilize the road to the intake and access screens to secure water

OHRC - Extend dam apron to minimize unintended fish passage over the dam and damage to fish attempting to clear the dam. The work on this project will not affect fish passage as the ladder will remain open

Clackamas - Generate power to off-set cost of water usage to PGE

Trask - Replace inoperable fish pump

Cole Rivers - Add "new" Liberation truck and 2000 gal tank

Cedar Creek - Add Liberation truck and 2000 gal tank to allow the current truck to be transferred to Salmon River Hatchery

Primary objectives of R&E funding

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

Alsea - Improve safety and secure access to the intake

OHRC - Extend the downstream apron with low friction concrete to eliminate unintended fish passage and/or damage

Clackamas / Trask - Improve cost effectiveness

Trask - Obtain operable fish pump

Cole Rivers - Improve efficiency and fish distribution

Cedar Creek - Improve efficiency and fish distribution

Current Situation/Justification

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

Alsea - The road to the intake is severely undercut and widening the road is not feasible due to the high slope.

OHRC - Adult salmonids are able to access the dam. Some species are able to clear the dam and others damage themselves while attempting to clear the dam.

Clackamas - Current cost for water paid to PGE is \$56,000/yr. Adding Hydro power generation is expected to offset this cost by \$50,000/yr.

Trask - The current fish pump is extremely old, and is no longer operable. Fish pumps are necessary to safely and efficiently load fish onto liberation truck.

Cole - Adding a new liberation truck to the fleet will improve efficiency

Cedar - Adding a better suited liberation truck to Cedar would make fish distributions more efficient and allow the current truck to be utilized by Salmon River Hatchery.

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.

Alsea - Will improve the safety of staff while the secure and adjust flows at the intake, providing a better environment to rear fish
OHRC - Reduce damage to, and increase success of wild origin salmonid spawners and lower upstream pHs of Steelhead
Clackamas - Reduces the operational cost of fish production
Trask- Will improve fish health and efficiencies while loading fish for liberations
Cole Rivers - Allows for more efficient distribution and fish liberations
Cedar - Allows for more efficient distribution and fish liberations

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?

Yes

With successful completion of these projects, It will allow for the implementation of Fish Division's individual HGMP's, Harvest, Opportunity and reintroduction objectives.

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

Alsea- failure to road was identified in 2020 after being undercut by river
OHRC-Following dam upgrades in 2020, staff and engineers determined this to be the simplest solution
Clackamas- identified in 2017 following completion of the pipeline
Trask- 2020
Cole - Truck addition
Cedar - Truck replacement

Identify any plan or other document that identifies this priority.

Individual HGMP
CMP
Reintroduction Plan
Disaster Emergency Rebuilding Directive

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

Yes

All hatcheries provide eggs and other opportunities to various STEP volunteer activities

This project is intended to benefit the following species:

Fall Chinook Salmon

Spring Chinook Salmon

Coho Salmon

Winter Steelhead

Summer Steelhead

Cutthroat Trout

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)

Provide new opportunity for anglers to catch fish (new pond, more fish to stock more areas, new species)

Enhance natural production of fish stocks to levels that allow for recreational fishing opportunities

Restore a degraded fishery

Hatcheries/Propagation/Liberation

Hatchery Name:

Alsea, Oregon Hatchery Research Center, Clackamas, Trask, Cole Rivers, Cedar

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
Conservation

Project Description

Schedule

Activity	Date	RE Funding
Alsea - bank/road stabilization design	July 2021	Yes
Alsea - Implement/construct bank/road stabilization	Aug/Sept. 2021 or 2022	Yes
OHRC	July/August 2022	Yes
Clackamas - hydro unit installation	Jan-June 2022	Yes
Trask - Purchase Fish Pump	Dec 2021	Yes
Cole Rivers	Nov 2021	Yes
Cedar Creek	Nov 2021	Yes

Permits

Permit	Secured?	Date Expected
Alsea - will require in stream permit	No	June 2021
OHRC - will require in stream permit	No	

Project Design and Description

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

Alsea- Widening the road would destabilize the hillside and increase the risk of landslides.

OHRC - Work will be isolated with a coffer dam and water will be routed around work area utilizing adult trap. Concrete forms will be built, rebar installed and filled with low friction concrete.

Clackamas- The Hydro power generation was included in the original pipeline project design but was delayed due to total costs.

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?

Alsea bank -75 year flood event

OHRC - The life of the dam

Clackamas - 25 years

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

All projects will be maintained by ODFW staff

Will the project require ongoing maintenance?

Yes

Alsea - Some minor vegetation control until well established

Clackamas - Maintenance of a dedicated fund to capture revenue, and make payments to PGE for water usage

Cole Rivers and Cedar Liberation trucks - regular vehicle maintenance schedule

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
Alsea Hatchery	In-Kind	Pending	5000	Hatchery staff and project oversight
Clackamas Hatchery	In-Kind	Pending	5000	Hatchery staff and project oversight
Oregon Hatchery Research Center	In-Kind	Pending	5000	Hatchery staff and project oversight
		Total	15000	

Budget

Item	Unit Number	Unit Cost	In-kind or non-cash contributions	Funding from other sources	R&E Funds	Total Costs
PROJECT MANAGEMENT						
Alsea Bank Stabilization	0	0.00	0	200000	229654	429654
OHRC Dam Apron	0	0.00	0	0	192365	192365
Clackamas Hydro	0	0.00	0	300000	0	300000
Trask Fish Pump	0	0.00	0	0	68567	68567
Cedar Creek Lib Truck	0	0.00	0	0	150719	150719
Cedar Creek 2000 gal tank	0	0.00	0	0	54190	54190
Cole Rivers Lib Truck	0	0.00	0	0	150719	150719
Cole Rivers 2000 gal tank	0	0.00	0	0	54191	54191
Salmon River Pipeline & Valves	0	0.00	0	0	181595	181595
		SUBTOTAL	0	500000	1082000	1582000
IN-HOUSE PERSONNEL						
Alsea Bank Stabilization	0	0.00	5000	0	0	5000
OHRC Dam Apron	0	0.00	5000	0	0	5000
Salmon River Pipeline & Valves	0	0.00	5000	0	0	5000
		SUBTOTAL	15000	0	0	15000
CONTRACTED SERVICES						
			0	0	0	0
		SUBTOTAL	0	0	0	0
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						
			0	0	0	0
		SUBTOTAL	0	0	0	0
FISCAL ADMINISTRATION						
			0	0	0	0
		SUBTOTAL	0	0	0	0
		BUDGET TOTAL	15000	500000	1082000	1597000

Internal Review Results

Review Score: 2.5 out of 3

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

Summary of Review Team Comments

While there is a need for some additional details and justification in the application, the review team was supportive of this proposal. While this proposal is not as glamorous as past bundles, the projects address significant issues and move the program forward during a time when fires, bond improvements, and other challenges have limited our ability to pursue many of the larger or higher priority projects. The team felt this was a reasonable plan to help R&E meet our obligation to invest in restoration projects. Scores included four 2s and four 3s.

Specific Review Team Comments

There is no mention of the fish passage review or if the work on the apron is not a trigger. This should be identified in the application.

While these are priority projects explaining how and why these projects are a priority for the Propagation Program would be appreciated.

Providing additional details, information, and justification for each element would make this proposal easier to review.

Good use of wood and natural materials in the Alsea bank stabilization.

Specific Review Team Questions

Please explain why you will be reducing the size of the tank on the Cedar Creek tuck from 2,000 gallons to 1,000 gallons. This seems that it would make fish stocking less efficient and require more trips

After further clarification, both trucks being requested are 2,000 gallon tanks. Priority one would be a single compartment 2,000 gallon tank for Cedar Creek. Priority two, is a 2 compartment 2,000 gallon tank (each compartment 1,000 gallon each) for Cole Rivers.

Additional Files

Budget Information

Maps

Photos

[Lib Truck and Tank](#)

Truck to be replaced

[Lib Truck and Tank](#)

Truck to be replaced 2

[Lin Truck and Tank - New](#)

New truck and 2000 gal tank

[OHRC](#)

Video of Fish Jumping Dam

[Trask Fish Pump](#)

Fish pump 1

[Trask Fish Pump](#)

Fish pump 2

[Trask Fish Pump](#)

Fish pump 3

[Trask Fish Pump](#)

Fish pump 4

[Trask Fish Pump](#)

Fish pump 5

Design Information

[Alsea Hatchery Plans](#)

Plans

[OHRC](#)

Design

[OHRC](#)

Design extension sheet

Management Plans and Supporting Documents

[Alsea Hatchery](#)

Project Summary

[Clackamas](#)

Project Summary

[OHRC](#)

Project Summary

[Project Priorities](#)

Project Priorities

[Trask](#)

Fish Pump Project Summary

Permits and Reviews

Partnerships

Public Comment

Administrative Documents

[sig page](#)

signature form

Completion Report

Objectives and Accomplishments

Alsea - Improve safety and secure access to the intake

Did you meet the objective? Yes

The project was completed by securing and repairing the undercut bank

OHRC - Extend the downstream apron with low friction concrete to eliminate unintended fish passage and/or damage

Did you meet the objective? Yes

The concrete apron was extended

Clackamas / Trask - Improve cost effectiveness

Did you meet the objective? Yes

The Clackamas Hatchery project was not completed but the Trask fish pump was replaced and is now operable.

Trask - Obtain operable fish pump

Did you meet the objective? Yes

Trask fish pump was replaced and is now operable.

Cole Rivers - Improve efficiency and fish distribution

Did you meet the objective? Yes

Truck, tank and supporting equipment has been obtained

Cedar Creek - Improve efficiency and fish distribution

Did you meet the objective? Yes

Truck, tank and supporting equipment has been obtained

Comments

Due to savings from the OHRC apron and unforeseen delays to the Clackamas Hydro project, R&E funds were repositioned to allow for the replacement of the Salmon River Pipeline. This project was identified while contractors were on site making improvements to the intake, screens and valves and was able to complete the work due to the hatchery being dewatered for the valve work.

Grantee agreed to forfeit all remaining funds.