R & E Grant Application 25-27 Biennium

Project #: 25-010

Stabilization of new water intake Bandon Hatchery

Project Information

Requested Cycle:	25-1
R&E Project Request:	$135,000
Other Funding:	$87,500
Total Project:	$222,500
Spending Start Date:	7/1/2025
Spending End Date:	8/15/2025
Project Start Date:	7/1/2025
Project End Date:	9/15/2025
Organization:	ODFW

Applicant Information

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

Past Recommended or Completed Projects

Number	Name	Status
25-037	Hatchery mini bundle - egg picker and DO meters	Recommended

Location Information

Where is it?

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

Site Description

Street Address, nearest intersection, or other descriptive location.

55212 Fish Hatchery Road
Bandon, OR 97411

Directions to the site from the nearest highway junction.

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.

The site is not in an area open to angling

Dominant Land Use Type:

Reservoir

Project Location

General Project Location.

County:	Coos
Town/City:	Bandon
ODFW Dist:	Coos/Coquille/Tenmile
Stream/Lake/Estuary Name:	Ferry Creek
Tributary of:	Coquille River

Specific Project Location.

Latitude	Longitude
43.114505	-124.380748

Project Summary

Project Summary

Please provide a couple sentence summary of the proposal.

This project will fund construction work to stabilize the bank of Ferry Creek Reservoir, preventing possible damage to a newly installed water intake and fish screen. This reservoir is owned by ODFW and is a primary water supply source for Bandon Hatchery and the City of Bandon's domestic water system.

Overall Project Goals

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

Reservoir bank will be re-graded and armored to prevent soil movement and potential damage

to new intake. Request does not included funds to design and permit the project, only for construction.

Primary objectives of R&E funding

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

Re-grading and armoring will be completed during the 2025 inwater work window for this area, July 1 – Sept 15, ideally in July to limit impacts to operations. Anticipated that work will only take a few days to a week.

If contracting and delivery of the design work and permitting cannot be obtained in time to meet the 2025 inwater work period, construction work may be delayed until the inwater period of 2026.

Current Situation/Justification

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

The water supply for ODFW's Bandon Fish Hatchery comes from two reservoirs on the hatchery property, Ferry Creek Reservoir and Geiger Creek Reservoir. Ferry Creek also supplies water for the City of Bandon's residential water system. The City and ODFW have coordinated on periodic dredging activities to restore water capacity, given the mutual benefit and reliance on this water source. In 2024, the City secured funding to pay for some dredging. ODFW coordinated with the City on this work, which was 100% funded by the City. ODFW did need to accommodate the work by moving fish production, and other ODFW efforts provided some 'in kind' contributions.

During the dredging a small area of the hillside failed, leading to slumping of soil material into the reservoir. The movement of this material destroyed the existing dilapidated water intake structure. The City and ODFW jointly funded replacement of the intake structure, which was completed in October 2024.

Following the slide event, ODFW contracted with a geotechnical engineering firm to evaluate the site and recommend actions to stabilize the slope and secure the intake. The intake is currently still at some risk from potential future slides. This construction will implement those actions.

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.

Bandon Hatchery produces fall Chinook salmon, winter steelhead, and rainbow trout. Steelhead and trout production benefit freshwater recreational and tribal fisheries in the region. Chinook production benefits recreational, commercial and tribal marine fisheries and freshwater recreational and tribal fisheries. Production for all species could be significantly affected in the event the Ferry Creek water intake becomes inoperable. The effects could be minimal to catastrophic depending on the water availability of Geiger Creek at the time.

Production of fall Chinook for fishery augmentation totals approximately 2.1 m fish for the Coos

River basin, approximately 175,000 fish for the Coquille River basin. Bandon Hatchery also produces Coquille fall Chinook for a conservation hatchery program with a goal of up to 100,000 wild-wild smolts.

Production of winter steelhead totals about 126,000 fish for the Coos basin, about 188,000 for the Coquille basin, and about 25,000 for the Tenmile Lakes basin.

Production of trout totals about 3,000 trophy-sized fish for stocking throughout the local area.

Percent benefit split between Commercial and Recreational anglers:

45 % Commercial
55 % Recreational

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

Assuming a 50/50 benefit to recreational/tribal and commercial fisheries for fall Chinook, and a 100/0 benefit to recreational/tribal and commercial fisheries for steelhead and trout (which may not be taken commercially). Using these percentages and the production goals by species for this facility, we estimate production of 1,437,500 fall Chinook contribute to recreational/tribal fisheries and the same amount to commercial fisheries. The remaining total of around 342,000 steelhead and trout contribute to recreational/tribal fisheries. This generates an estimated 55% recreational benefit and 45% commercial benefit. These estimates do not consider species differences in rates of survival, return-to-fishery, or fishery access differences.

This project has been identified as an ODFW priority for:

Local/watershed
Basin/regional

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

No

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

The West Region manager and watershed leadership have identified a significant need to protect newly installed critical infrastructure. This has been an internal review.

Identify any plan or other document that identifies this priority.

NA

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

Yes
The production programs at Bandon Hatchery are very significant contributors to STEP programs in this watershed district.

This project is intended to benefit the following species:

Fall Chinook Salmon
Winter Steelhead
Rainbow Trout

This project will benefit anglers or fishery by providing:

Fish Screening
Hatcheries/Propagation/Liberation

Fish Screening

This fish screening project will:

Project is intended to protect a newly installed fish screen which was installed in 2024. Note, this screen replaced an older existing screen but updated it to meet new screening criteria.

We have contacted or have been working with:

ODFW fish screening staff
ODFW has been contacted

Hatcheries/Propagation/Liberation

Hatchery Name:

Bandon

This is a:

State 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
Commercial harvest
Conservation

Project Description

Schedule

Activity	Date	RE Funding
Contract for design work and permitting	March 2025	No
Contract for construction	June 2025	Yes
Excavate and re-grade area	July 2025	Yes
Install shoreline armoring	July 2025	Yes
Demobilize and secure site	July 2025	Yes
Secure cultural and other permits (part of design contract)	July 1, 2025	No

Permits

Permit	Secured?	Date Expected
USACE/DSL permit, to be secured by design consultant	No	July 1, 2025

Project Design and Description

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

Following the slide event, ODFW contracted with a geotechnical engineering firm to evaluate the site and recommend actions to stabilize the slope and secure the intake. Groundwater seeps at several locations in this area contribute to risk of future slides, as does the nature of the soils in the area which are relatively loose and unconsolidated, with high amounts of sand. As a result, the intake is currently still at some risk from potential similar future slides.

The geotechnical engineer has recommended re-grading reservoir edge, followed by installation

of rock revetment to harden the slope in the area immediately adjacent to the intake (but not the full shoreline of the reservoir). The current recommendation is for a 4-foot-thick rock revetment extending from the dam to about 50 feet east of the dam. The recommended revetment work is conceptual in nature, and final designs would be provided by a consultant (not RE funded), for review and approval by ODFW engineering. If this proposal is approved, ODFW would fund the consultant for design and permitting, and construction would be funded by RE.

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?

The goal of this project is to create an armored shoreline that should last indefinitely unless future needs require some intentional modification.

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

In the past ODFW and the City of Bandon have successfully coordinated to share responsibility. However, as the landowner ODFW maintains ultimately responsibility.

Will the project require ongoing maintenance?

No

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

Not necessary

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
ODFW West Region existing funds	Cash	Pending	50,000	Funds are to contract with design consultant; anticipate cost shares with City of Bandon
Contributions from City of Bandon or other sources		Pending	0	ODFW has had initial discussions with the City of Bandon but had not received final agreement by 2/21 COB.
		Total	50,000	

Budget

Item	Unit Number	Unit Cost	In-kind or non-cash contributions	Funding from other sources	R&E Funds	Total Costs
PROJECT MANAGEMENT						
ODFW West Region manager	20	125	2,500			2,500
		SUBTOTAL	2,500			2,500
IN-HOUSE PERSONNEL						
		SUBTOTAL				
CONTRACTED SERVICES						
Design work and permitting				50,000		50,000
Construction mobilization					30,000	30,000
Construction sediment and erosion control					40,000	40,000
Construction site grading					30,000	30,000
Construction bank stabilization				25,000	25,000	50,000
Construction site clean up and demobilization				10,000	10,000	20,000
		SUBTOTAL		85,000	135,000	220,000
TRAVEL						
		SUBTOTAL				
SUPPLIES/MATERIALS						
		SUBTOTAL				
EDUCATION/OUTREACH						
		SUBTOTAL				
EQUIPMENT						
		SUBTOTAL				
FISCAL ADMINISTRATION						
		SUBTOTAL				
		BUDGET TOTAL	2,500	85,000	135,000	222,500

Internal Review Results

Review Score: 3.3 out of 5

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

Summary of Review Team Comments

While the IRT agrees that this water intake is vital for the function of the Bandon Hatchery, they also agree that is the intake is shared with the City then they should be responsible for some of the costs of this project.

Specific Review Team Comments

Please adjust budget to show in-kind contribution amount from west region manager. Current budget amount is shown as 0.

Applicant will need to secure cultural surveys and in-water work permits.

Specific Review Team Questions

If the City of Bandon and ODFW have a mutual interest in protecting the water source, why is the City of Bandon not being asked to contribute to this project?

We have coordinated with the City and initial response is that the City may be able to contribute $25,000 to the project. They had a few questions before committing fully, which we responded to. As of COB on 2/21, we had not received response from that follow up. I think it is likely that the contribution will come through and will provide updates when I can.

Make the budget section more specific, more clarity is needed. If exact budget amounts are not attainable at this time, then please explain where your estimated costs are coming from.

Budget estimates were provided by Ryan McCormick, Chief Engineer. The 2024 geo tech survey provided a general sense of what work will need to be done and Mr. McCormick generated the estimates based upon his experience with similar work.

Additional Files

Budget Information

Maps

Photos

Design Information

- ODFW Engineering cost estimates

Management Plans and Supporting Documents

- Additional background and photos — *Addn information, site map, photos and conceptual design*
- Partnerships — *Discussion of partnerships and cost sharing opportunities*

Permits and Reviews

Partnerships

Public Comment

Administrative Documents

- signature

Completion Report

A completion report has not been submitted for this project.