



R & E Grant Application 17-19 Biennium

Project #: 17-002

Hatchery Maintenance Bundle 2017-19

Project Information

Requested Cycle: 17-1
R&E Project Request: \$2,068,150
Other Funding: \$3,000,000
Total Project: \$5,068,150
Spending Start Date: 7/1/2017
Spending End Date: 6/30/2019
Project Start Date: 7/1/2017
Project End Date: 6/30/2019
Organization: Scott Patterson - ODFW Salem Headquarters

Applicant Information

Name: Scott Patterson
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Salem, OR 97302
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Fax: 541-963-6670
Email: Scott.D.Patterson@odfw.oregon.gov

Past Recommended or Completed Projects

Number	Name	Status
17-058	Small hatchery projects bundle 2018	Approved

Authorized Agent

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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.

Trask Hatchery, 15020 Chance Road, Tillamook Oregon 97141

Nehalem Hatchery, 36751 Fish Hatchery Lane, Nehalem, Oregon 97131

Roaring River Hatchery, 42279 Fish Hatchery Drive, Scio, Oregon 97374

Klamath Falls Hatchery, 46161 Hwy 62, Chiloquin 97624

Directions to the site from the nearest highway junction.

see ODFW web site <http://www.dfw.state.or.us/resources/visitors/> for directions to each hatchery.

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.

State hatcheries are constructed on state owned land or long term lease agreements ("life of the hatchery") with the federal government. Public access to hatcheries might be limited to "daylight" hours.

Dominant Land Use Type:

State fish hatcheries are often located in rural areas several miles from public services. Their location is in close proximity to rivers, flood planes, and riparian habitat.

Project Location

General Project Location.

County: multiple

Town/City: multiple

ODFW Dist: multiple

Stream/Lake/Estuary multiple

Name:

Sub-basin: multiple

Tributary of: multiple

Specific Project Location.

Latitude		Longitude	
	45.43139		123.7328
	45.8130		123.7745
	44.62444		122.7222
	42.6503		121.9475

Project Summary

Project Summary

Please provide a couple sentence summary of the proposal.

The State of Oregon internal audit revealed that ODFW has an estimated \$93 million, and growing, deferred maintenance burden. The majority of the maintenance was identified in Oregon hatcheries. The audit suggested that we consider utilizing more R&E funds for restoration. This request will reduce deferred maintenance by \$1.45 million.

Overall Project Goals

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

Trask Hatchery: Replace 100 year old hatchery building and improve water quality for incubation of eggs and early rearing. The result will address \$300,000 of deferred maintenance and provide modern hatchery building for fish production.

Klamath Falls: Repair failing raceway wall for trophy trout rearing.

Repair Nehalem Raceways. Water has been leaking through the concrete for years. The running water has created large voids under the raceways causing the walls to slump and crack. The goal is to fill voids, seal cracks, and stabilize the concrete. Result will address \$584,483 of deferred maintenance.

Replace Roaring River raceways. Four raceways have failed at Roaring River. The goal is to replace these raceways, pipeline, and valves for additional trophy trout production. Result will address \$389,540 of deferred maintenance.

Repair Klamath Falls trophy trout raceway. Klamath Falls trophy trout pond has wooden wall that is failing and eroding the bank. The goal is to replace the wall and stabilize the bank. The result will address \$176,732 of deferred maintenance.

If funds are available and after consultation with the R&E Board, remaining funds might be used to replace a liberation truck, repair or replace a hatchery house at Rock Creek, or remove UST. Funds spent on housing and UST removal results in \$1 for \$1 reduction in deferred maintenance.

Primary objectives of R&E funding

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

Trask hatchery produces 1.3 million salmon and steelhead, including spring and fall Chinook, Coho, and winter steelhead that are at risk due to 100 year old infrastructure. Concerns include structural integrity, electrical, plumbing, and public safety (asbestos, lead pipes, lead

Nehalem hatchery produces 350 thousand salmon, steelhead and trout. Production is at risk due to lack of maintenance. Concern is raceway failure and high cost of replacement instead of repairs.

Roaring River produces 630 thousand steelhead and trout, and over 10 million eggs for statewide production. Raceways have not been used for years due to disrepair. Produce an additional 5,000 trophy sized trout for distribution.

Repair Klamath Falls. Klamath Fall produces 600 million fish including 16,000 trophy sizes trout. Repairs of this raceway will secure the production of 16,000 trophy size trout for distribution.

Misc. If funds are available from the bundle grant, additional deferred maintenance items will be

addressed such as truck replacement, UST removals, and housing repairs.

Current Situation/Justification

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

The State of Oregon internal audit revealed that ODFW has an estimated \$93 million, and growing, deferred maintenance burden. The majority of the maintenance was identified in Oregon hatcheries. The audit suggested that we consider utilizing more R&E funds for restoration.

State facilities are also in disrepair, but in the tune of approximately \$21 million. It's unclear too me if \$21 million is realistic number or simply "best guess". Our recent experiences with raceway repairs suggest this number is low. Nonetheless, the amount of deferred maintenance in ODFW hatcheries is daunting. My approach focused on 14 state hatcheries that are owned by the state and prioritize mission critical infrastructure.

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.

Maintaining state owned hatcheries is a priority and mission critical to provide fishing opportunity for sportsman and commercial anglers. Infrastructure failure will result in a direct loss of fish and harvest opportunity.

Percent benefit split between Commercial and Recreational anglers:

15 % Commercial
85 % Recreational

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

The salmon produced at Trask and Nehalem hatcheries provide fish for commercial harvest as well as sport harvest. My guess is 25% commercial and 75% sport. Rainbow trout produced at Nehalem, Roaring River, and Klamath hatchery only provide fish for sport harvest. Therefore, I estimated the ratio to 15% commercial and 85% sport.

This project has been identified as an ODFW priority for:

Statewide

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

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

Identify any plan or other document that identifies this priority.

Oregon Secretary of State Audit of facility deferred maintenance; two memo to R&E Board in 2016

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
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)

Hatcheries/Propagation/Liberation

Hatchery Name:

Trask; Nehalem; Roaring River, Klamath

This is a:

State hatchery

As a result of this request hatchery production will:

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
Add new or upgrade production/acclimation facilities/capacity.
Improve safety 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
Trask Hatchery Building design and DOJ review	April 2017	No
Trask Hatchery building bid proposal and acceptance	June 2017	No
Trask Hatchery building construction	June 2018	Yes
Nehalem raceway repair design and bid	July 2017	No
Nehalem raceway construction repair	October 2018	Yes
Roaring River design	July 2017	No
Roaring River raceway construction	Novemeber 2018	Yes
Klamath Hatchery raceway design	August 2018	No
Klamath Hatchery raceway construction	December 2018	No
Purchase of fish lib truck, UST removals, housing repairs	June 2019	Yes

Permits

Permit	Secured?	Date Expected
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SHPO approval to repair or replace hatchery infrastructure	No	June 2017
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Project Design and Description

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

ODFW engineering staff will start design on the Trask Hatchery building during the winter of 2016/17. After commission approval, design bid package will go out for solicitation around July 1, 2017.

ODFW engineering staff will design Nehalem, Roaring River, and Klamath raceway repairs and replacement. Project design packages will go out to bid in the summer of 2017.

If funds are available, all three raceway repair and/or replacement packages will be awarded for construction.

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 life expectancy of these project will range from 20 to 75 years.

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

ODFW fish propagation programs

Will the project require ongoing maintenance?

Yes

Individual hatchery O&M funds and hatchery staff will maintain the project once they are completed.

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?

[{"source":"Tillamook Anglers","type":"Cash","secured":"Secured","dollarValue":400000,"comments":"Tillamook angels will provide matching funds for the Trask Hatchery building replacement"}, {"source":"ODFW Engineering staff","type":"In-Kind","secured":"Secured","dollarValue":250000,"comments":"ODFW engineers will design and"}]

manage the projects through construction"},"source":"ODFW Fish Propagation","type":"Cash","secured":"Pending","dollarValue":50000,"comments":"Fish Propagation will fund misc. expenses, cost of coordination, and matching cash when needed"},"source":"Tillamook Anglers","type":"In-Kind","secured":"Secured","dollarValue":75000,"comments":"Donation of structure lumber for Trask Hatchery building"]}]

Other Funding Source	Type	Secured	Dollar Value	Comments
Tillamook Anglers	Cash	Secured	400000	Tillamook angels will provide matching funds for the Trask Hatchery building replacement
ODFW Engineering staff	In-Kind	Secured	250000	ODFW engineers will design and manage the projects through construction
ODFW Fish Propagation	Cash	Pending	50000	Fish Propagation will fund misc. expenses, cost of coordination, and matching cash when needed
Tillamook Anglers	In-Kind	Secured	75000	Donation of structure lumber for Trask Hatchery building
		Total	775000	

Budget

Item	Unit Number	Unit Cost	In-kind or non-cash contributions	Funding from other sources	R&E Funds	Total Costs
PROJECT MANAGEMENT						
ODFW Engineers	16	0.00	0	1538400	0	1538400
		SUBTOTAL	0	1538400	0	1538400
IN-HOUSE PERSONNEL						
ODFW Engineers, surveyors, and draftors	16	0.00	0	961600	0	961600
ODFW Fish Hatchery staffs	16	0.00	0	80000	0	80000
		SUBTOTAL	0	1041600	0	1041600
CONTRACTED SERVICES						
Trask Hatchery Building	1	1000000.00	0	400000	1000000	1400000
Nehalem raceway repairs	0	0.00	0	0	450000	450000
Roaring River raceway replacement	0	0.00	0	0	500000	500000
Klamath Fall Hatchery raceway repair	0	0.00	0	0	100000	100000
		SUBTOTAL	0	400000	2050000	2450000
TRAVEL						
Trask Hatchery building	0	0.00	0	0	3300	3300
Nehalem Raceway repairs	7000	0.00	0	0	3850	3850
Roaring River raceway replacement	4000	0.00	0	0	2200	2200
Klamath Falls raceway repairs (mileage, per diem, lodge)	0	0.00	0	0	8800	8800
	0	0.00	0	0	0	0
		SUBTOTAL	0	0	18150	18150
SUPPLIES/MATERIALS						
Trask Hatchery signs	0	0.00	0	20000	0	20000
		SUBTOTAL	0	20000	0	20000
EDUCATION/OUTREACH						
	0	0.00	0	0	0	0
		SUBTOTAL	0	0	0	0
EQUIPMENT						
	0	0.00	0	0	0	0
		SUBTOTAL	0	0	0	0
FISCAL ADMINISTRATION						
	0	0.00	0	0	0	0
		SUBTOTAL	0	0	0	0
		BUDGET TOTAL	0	3000000	2068150	5068150

Internal Review Results

Review Score: 2.6 out of 3

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

Summary of Review Team Comments

The review team was supportive of this proposal. It will help address the recent audit and begin to address deferred maintenance backlogs. Additional justification for each project would have been appreciated. Scores include three 2s and five 3s.

Specific Review Team Comments

Broad and generalized statements about the big ticket items to fund within this bundle. More specificity on the status of the facilities looking to be rebuilt and why do they need to be replaced. We all understand the deferred maintenance issue, but the more you can be specific and identify why full replacement is necessary would strengthen your bundled proposal.

Use of more R&E funds was recommended by Secretary of State's Audit of ODFW, for restoration of hatchery infrastructure. Prioritized approach seems reasonable.

Good projects for R&E funding

Specific Review Team Questions

Presumably travel and mileage is for ODFW engineering staff. Please explain why this is not covered in engineering or propagations budget?

Need better justification for repair of raceways at Nehalem. Why not replace them?

More trout production could come from Roaring Rivers. Would that be funded, or just the space capable of producing them?

Additional Files

Budget Information

[OFRS Report](#)

project final expenses

Maps

Photos

Design Information

Management Plans and Supporting Documents

[R&E Board memo](#)

correspondance

[R&E Board memo](#)

correspondance 2

[Summary](#)

RE Board presentation

Permits and Reviews

Partnerships

Public Comment

Administrative Documents

[REIS](#)

Completion Report

A completion report has not been submitted for this project.