

Grant Application

Derek Wiley



Email : derek.j.wiley@odfw.oregon.gov

Application ID : A25WD69

Custom Ref. -

Application Start Date: 2022-02-16 17:36:16

Application Completed Date: 2022-02-17 16:21:06

1 Have you ever applied for an OWF grant before?

no

2 Have you ever been denied for an OWF grant before?

no

3 Project Title

Tweedle Cr Channel & Wetland Restoration (SEP #2)

4 Name of my Organization

Oregon Department of Fish and Wildlife (ODFW)/Upper Nehalem Watershed Council (UNWC)

5 If your organization is not a tax-exempt nonprofit, please list the name of your fiscal sponsor

-

If this does not apply to you, write N/A

N/A

6 Project Manager Full Name

Derek Wiley/Maggie Peyton

7 Project Manager Mailing Address

-

Please enter full address with city, state & zip

Derek Wiley (Oregon Department of Fish and Wildlife, North Coast Watershed District Office, 4907 Third Street, Tillamook, OR 97141), Maggie Peyton (Upper Nehalem Watershed Council, 1201 Texas Ave. A, Vernonia, OR 97064)

8	Project Manager Phone Number
	Derek Wiley (503-731-8618), Maggie Peyton (503-396-2046)
9	Project Manager Email Address
	Derek Wiley (derek.j.wiley@odfw.oregon.gov), Maggie Peyton (maggie@nehalem.org)
10	Please provide a brief biographical statement about yourself
	Derek Wiley (ODFW Habitat Restoration Biologist, Tillamook), Maggie Peyton (Upper Nehalem Watershed Council Executive Director, Vernonia)
11	Provide any social media handles you use - Enter social handles or URLs such as instagram, facebook, twitter, youtube, etc. so that we can use to cross promote on our channels - if you do not have any, please place N/A
	ODFW (https://www.dfw.state.or.us/), Upper Nehalem Watershed Council (https://www.facebook.com/UpperNehalemWC/)
12	Please indicate if you are currently following Oregon Wildlife Foundation on our social media channels
	- Facebook - YouTube
13	Total estimated project cost
	295114
14	Funding that you are requesting from OWF - If you're request is for more than \$5,000, please contact Tim Greseth - tim@myowf.org before submitting your application.
	93114
15	What type of project are your proposing?
	Fish
16	Will your project address an Oregon Conservation Strategy habitat or species?
	yes
16.1	What habitat or species is addressed?
	The Tweedle Creek Channel Meander Construction and Wetland Restoration Project is a coho-centric habitat enhancement effort with a multitude of benefits for other associated species. The project will abandon 1,280 ft of lower Tweedle Creek and relocate it into a reconstructed relic toe slope channel to restore 4,800 ft of low gradient stream and associated floodplain habitat. This action will increase mid-Nehalem River off-channel habitat in Tweedle Creek nearly fourfold, seasonally connect two small fish bearing tributaries to lower Tweedle Creek and will feed and enhance the existing wetland complex.

17	Start date of project- Day/Month/Year
	01-03-2022
18	End date of project
	01-01-2023
19	Location of project
	Tweedle Creek and the associated property to be restored is located in the Nehalem River Basin off of Hwy 103 near the town of Vinemaple, OR (45.894021, -123.558261).
20	Has a local, state or federal biologist reviewed this project?
	yes
20.1	What is their name and contact info?
	1. Derek Wiley - (ODFW Habitat Restoration Biologist, North Coast Watershed District Office, 4907 Third Street, Tillamook, OR 97141, (503-731-8618)), 2. Troy Laws - (Retired ODFW Habitat Restoration Biologist, North Coast Watershed District Office, 4907 Third Street, Tillamook, OR 97141)
21	Have you already or will you obtain necessary permits from all requisite agencies as applicable to proposed project?
	yes
22	What will the requested funds be used for?
	The \$93,114 OWF request is to make this project whole and include project management, equipment mobilization, channel excavation, erosion control/seeding, spoil trucking and grading, culvert installation, fence removal, plant material, plantings, and maintenance.

The Tweedle Creek Channel Meander Construction and Wetland Restoration Project is a coho-centric habitat enhancement effort with a multitude of benefits for other associated species. The project will abandon 1,280 ft of lower Tweedle Creek and relocate it into a reconstructed relic toe slope channel to restore 4,800 ft of low gradient stream and associated floodplain habitat. This action will increase mid-Nehalem River off-channel habitat in Tweedle Creek nearly fourfold, seasonally connect two small fish bearing tributaries to lower Tweedle Creek and will feed and enhance the existing wetland complex. The project will also improve hyporheic connectivity to the associated floodplain and wetland complex, create habitat conditions conducive to long-term beaver colonization, provide additional backwater habitat during high flow events, convert >15 acres of farmland to a mix of diverse riparian and wetland complexes, install 23 large wood structures and 2 beaver dam analogs (BDAs) into the newly constructed channel, and ultimately address the habitat needs of salmonids with an overlapping benefit to lamprey. In addition, the abandoned portion of the existing lower Tweedle Creek channel will continue to backwater during high water events and function as off-channel refugia as it remains connected to the Nehalem River. The project site was selected after snorkel inventories identified the presence of upstream migrant juvenile coho occupying the mainstem Nehalem River seeking thermal refugia in the wetland outlet during summer flow regimes. Follow-up assessment determined the sites extensive restoration potential, cooperative land ownership, compatible land use, and high probability for success. Project objectives are designed to address the single most important limiting factor for the OCN nomadic coho life history, elevated summer temperatures. Water temperatures in this reach are far above the upper limit established by the 303d listing for the mainstem Nehalem River. The restoration project implements priority recovery strategies identified in the Nehalem Strategic Action Plan (SAP). Environmental benefits include improved stream habitat/water quality/quantity conditions over time that benefit salmonids by reconnecting Tweedle Creek to a historic oxbow/wetland and two associated tributaries of the Nehalem River, installing large wood and two BDAs in the newly constructed channel, and conducting extensive planting to convert >15 acres of farmland to a mix of diverse riparian and wetland complexes. This project is expected to: 1) Increase hyporheic flow and ground water storage, and enhance the quality of existing cold water refugia by increasing the contribution of winter and spring flows to the existing wetland, 2) re-align Tweedle Creek to flow into and through a historic oxbow/wetland area of the mid-Nehalem River, improve Tweedle Creek connectivity to two associated tributaries, increase the overall primary stream channel length by 4,800 ft, and increase groundwater storage within the Nehalem River floodplain, 3) create habitat conditions conducive to long term beaver colonization that maintain summer water storage in the wetland, 4) restore diverse native vegetation to riparian and floodplain habitat similar to what persisted prior to the agricultural conditions that define the current site, and 5) maintain backwater fish habitat (current Tweedle Creek alignment) and create off-channel overwintering habitat (new Tweedle Creek alignment and wetland) for juvenile salmonids during high flow events along the Nehalem River.

24 Upload pre-project pictures or a video -

By submitting these photos or video I warrant that I am the legal owner of this media and grant the Foundation permission to reproduce, exhibit, or publish them for all general purposes in relation to Oregon Wildlife Foundation's work. If you have questions about photo or video submissions please refer to myowf.org/grants for guidance.

□

Project Revenue	Cash	In-Kind	Committed / Pending
Oregon Wildlife Foundation Request	93114		
National Fish & Wildlife Foundation	82000		
National Oceanic & Atmospheric Administration/Wild Salmon Center	110000		
Oregon Department of Fish and Wildlife		10000	
REVENUE	285114.00	10000.00	
		TOTAL PROJECT SUPPORT	295114.00
Project Expenses	Cash	In-Kind	Total
Upper Nehalem Watershed Council project management & administrative costs (OWF Request)	5000		5000.00
Contracted Services - Equipment Mobilization (OWF Request)	2376		2376.00
Contracted Services - Channel Excavation (OWF Request)	17938		17938.00
Contracted Services - Spoil Trucking and Grading (OWF Request)	12500		12500.00
Contracted Services - Culvert Installation (OWF Request)	5900		5900.00
Contracted Services - Erosion Control/Seeding (OWF Request)	2400		2400.00
Contracted Services - Riparian Fence Removal (OWF Request)	5000		5000.00
Contracted Services - Riparian Planting/Seeding/Maintenance (OWF Request)	32000		32000.00
Contracted Services - Plant Materials (OWF Request)	10000		10000.00
Upper Nehalem Watershed Council Project Management & Administrative Costs (National Fish & Wildlife Foundation Funds)	10000		10000.00
Contracted Services - Consultant Project Management, BDA/LWD Construction, Channel Excavation, Spoil Trucking and Grading, Culvert Installation, Channel Plug Construction, and MAMP Monitoring (National Fish & Wildlife Foundation Funds)	72000		72000.00
Upper Nehalem Watershed Council Project Management & Administrative Costs (NOAA/Wild Salmon Center Funds)	10000		10000.00
Contracted Services - Permits, Engineer, Consultant Project Management, Equipment Mobilization, Channel Excavation, Spoil Trucking and Grading, Culvert Installation, Channel Plug Construction, Fish Salvage, Temperature Loggers, UNWC Travel (NOAA/Wild Salmon Center Funds)	100000		100000.00
Oregon Department of Fish and Wildlife - Project Review/Development, Technical Assistance & Project Implementation		10000	10000.00
		TOTAL PROJECT EXPENSES	295114.00
Balanced budget? This cell should read "0" ---->		NET	0.00

26 Upload your Project Narrative -
Please make sure your narrative is no more than 7 pages long, single spaced, 12 pt. font (Calibri preferred).

1 Document Uploaded

27 Upload letters of support

1 Document Uploaded

28 I understand that I am required to submit a Project Completion Report, copies of any publications or social media posts crediting the Foundation's support, and post-project pictures at the completion of my project

yes

Powered by **Submit.com**

— Grant Application

Derek Wiley

Application ID: **A25WD69**



Supplemental Environmental Project Application

Oregon Department of Environmental Quality
Office of Compliance and Enforcement
700 NE Multnomah St., Suite 600
Portland OR 97232

Case Name: In the Matter of Fishhawk Lake Reserve and Community, Inc., Notice of Civil
Penalty Assessment and Order Case No. WQ/NP-NWR-2019-244.

Project Contact: Chris Knutsen, Robert Bradley, and Derek Wiley (all ODFW NCWD)

Type of Project (choose one):

- Pollution Prevention** – preventing waste or pollution at the source, by conserving energy or natural resources, or by making process changes (such as chemical substitutions) or by making a process more efficient so that less waste is created for a given amount of product.
- Pollution Reduction** – reducing the amount and/or danger presented by some form of pollution, often by providing better treatment and disposal of the pollutant.
- Public Health Protection**- an example is the medical examination of residents in a community to determine if anyone has experienced any health problems because of the violations at issue.
- Environmental Restoration and Protection** –improving the condition of the land, air or water in the area damaged by the violation. For example, restoring a wetland or planting trees along a riparian zone to reduce erosion and provide shade for improved water quality.
- Emergency Planning and Preparedness** – providing assistance to a responsible state or local emergency response or planning entity. Such assistance may include the purchase of computers and/or software, communication systems, chemical emission detection and inactivation equipment, HAZMAT equipment or training.
- Assessments and Audits** to determine if the Respondent is causing any other pollution problems or can run its operation better to avoid future violations.

Environmental Compliance Promotion- providing training or technical support to other members of the regulated community to achieve, or go beyond, compliance with applicable environmental requirements.

Other Projects that have environmental merit but do not fit within the categories listed above.

Who is conducting the project? (i.e., Respondent or third party entity such as a watershed council or other nonprofit organization)

Payment for this project will be made to the Oregon Wildlife Foundation (OWF). OWF will conduct the project in cooperation with ODFW NCWD and the Upper Nehalem Watershed Council (UNWC). The contact for OWF is Tim Greseth, Executive Director, Oregon Wildlife Foundation, 901 SE Oak Street, #103, Portland, OR 97214, Phone: 503.255.6059
Email: tim@myowf.org

Location where project will take place: Mid-Nehalem River Basin - Tweedle Creek

Project description (Please attach an extra sheet of paper, if necessary):

The Tweedle Creek Channel Meander Construction and Wetland Restoration Project is a coho-centric habitat enhancement effort with a multitude of benefits for other associated species. The project will abandon 1,280 ft of lower Tweedle Creek and relocate it into a reconstructed relic toe slope channel to restore 4,800 ft of low gradient stream and associated floodplain habitat. This action will increase mid-Nehalem River off-channel habitat in Tweedle Creek nearly fourfold, seasonally connect two small fish bearing tributaries to lower Tweedle Creek and will feed and enhance the existing wetland complex. The project will also improve hyporheic connectivity to the associated floodplain and wetland complex, create habitat conditions conducive to long-term beaver colonization, provide additional backwater habitat during high flow events, convert >15 acres of farmland to a mix of diverse riparian and wetland complexes, install 23 large wood structures and 2 beaver dam analogs (BDAs) into the newly constructed channel, and ultimately address the habitat needs of salmonids with an overlapping benefit to lamprey. In addition, the abandoned portion of the existing lower Tweedle Creek channel will continue to backwater during high water events and function as off-channel refugia as it remains connected to the Nehalem River.

The project site was selected after snorkel inventories identified the presence of upstream migrant juvenile coho occupying the mainstem Nehalem River seeking thermal refugia in the wetland outlet during summer flow regimes. Follow-up assessment determined the sites extensive restoration potential, cooperative land ownership, compatible land use, and high probability for success. Project objectives are designed to address the single most important limiting factor for the OCN nomadic coho life history, elevated summer temperatures. Water temperatures in this reach are far above the upper limit established by the 303d listing for the mainstem Nehalem River. The restoration project implements priority recovery strategies identified in the Nehalem Strategic Action Plan (SAP).

What environmental benefits are expected?

Environmental benefits include improved stream habitat/water quality/quantity conditions over time that benefit salmonids by reconnecting Tweedle Creek to a historic oxbow/wetland and two associated tributaries of the Nehalem River, installing large wood and two BDAs in the newly constructed channel, and conducting extensive planting to convert >15 acres of farmland to a mix of diverse riparian and wetland complexes. This project is expected to: 1) Increase hyporheic flow and ground water storage, and enhance the quality of existing cold water refugia by increasing the contribution of winter and spring flows to the existing wetland, 2) re-align Tweedle Creek to flow into and through a historic oxbow/wetland area of the mid-Nehalem River, improve Tweedle Creek connectivity to two associated tributaries, increase the overall primary stream channel length by 4,800 ft, and increase groundwater storage within the Nehalem River floodplain, 3) create habitat conditions conducive to long term beaver colonization that maintain summer water storage in the wetland, 4) restore diverse native vegetation to riparian and floodplain habitat similar to what persisted prior to the agricultural conditions that define the current site, and 5) maintain backwater fish habitat (current Tweedle Creek alignment) and create off-channel overwintering habitat (new Tweedle Creek alignment and wetland) for juvenile salmonids during high flow events along the Nehalem River.

How will you measure/assess the benefits?

Pre- and post-monitoring is a requirement of funding secured from the National Oceanic and Atmospheric Administration (NOAA). Water temperature, groundwater, channel morphology, floodplain habitat, wetland expansion, and riparian vegetation will be monitored pre-restoration, during the “as-built” condition, and at defined intervals as outlined in the Tweedle Creek Channel Meander Construction and Wetland Restoration Pre-Monitoring report (2021). If results of a monitoring metric are outside of defined limits, the project team will determine potential maintenance or corrective actions depending on severity or failure.

What is the total projected cost of the project? Explain. (Qualifying costs are all reasonable costs of executing the SEP and may include costs of preparing the SEP proposal, costs of materials and services, wages paid to employees (appropriate to the work), and wages and proportional overhead for employees of a third party executing the project. Qualifying costs do not include entertainment or refreshment costs related to the SEP.

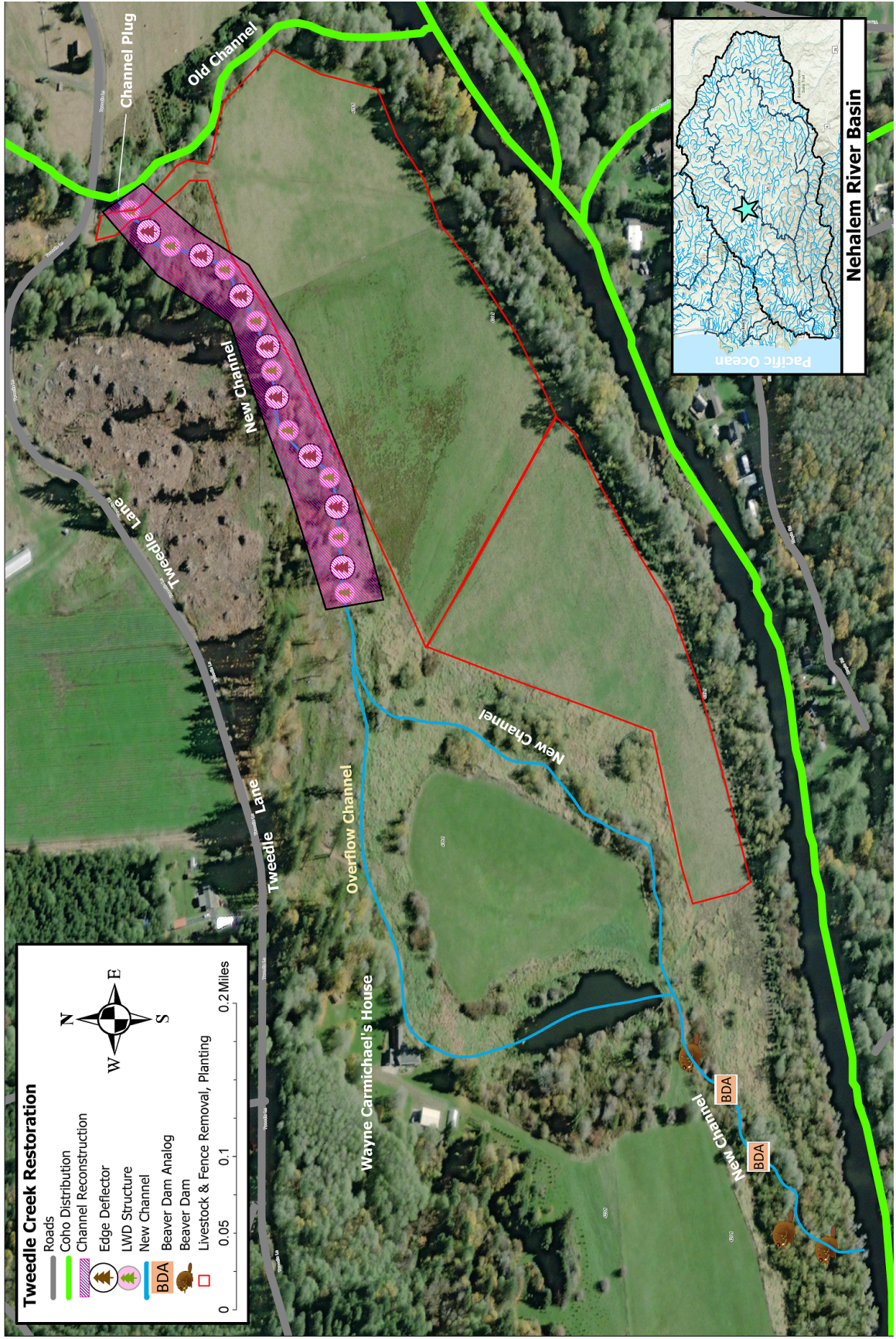
Total project cost is estimated at \$295,114 (\$93,114 OWF request, \$192,000 funds secured through NOAA, Wild Salmon Center, and the National Fish and Wildlife Foundation, and \$10,000 of in-kind donations from ODFW for project development and technical assistance). Project costs requested from OWF are to make this project whole and include project management, equipment mobilization, channel excavation, erosion control/seeding, spoil trucking and grading, culvert installation, fence removal, plant material, plantings, and maintenance. Prices are based on comparable projects recently implemented within the same physio-geographical area by the same partners/programs.

What is the timeframe for the project (most projects are completed within one year)?

Include milestones and final completion date.

This project will be implemented in 2021/22 with project development, material sourcing/acquisition, permitting, layout, and contracting occurring during the winter/spring 2021/22 and project implementation during the summer instream work window of July-August 2022, followed up with riparian plantings during the fall/winter 2022.

Date : _____ Signature _____



Tweedle Creek Restoration

- Roads
- Coho Distribution
- Channel Reconstruction
- Edge Deflector
- LWD Structure
- New Channel
- Beaver Dam Analog
- Beaver Dam
- Livestock & Fence Removal, Planting

0 0.05 0.1 0.2 Miles

Nehalem River Basin

Pacific Ocean



Wayne Carmichael's House

Channel Plug

Old Channel

New Channel

Tweedle Lane

Overflow Channel

New Channel

BDA

BDA

New Channel