



# R & E Grant Application 19-21 Biennium

Project #: 19-014

## *Upper Phillips Dam Passage & Ditch Efficiency*

### ***Project Information***

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**Requested Cycle:** 19-2  
**R&E Project Request:** \$48,816  
**Other Funding:** \$1,335,912  
**Total Project:** \$1,384,728  
**Spending Start Date:** 7/1/2019  
**Spending End Date:** 6/30/2021  
**Project Start Date:** 4/1/2019  
**Project End Date:** 6/30/2023  
**Organization:** Applegate Partnership (Tax ID #: 93-1151372)

### ***Fiscal Officer***

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**Name:** Janelle Dunlevy  
**Address:** PO BOX 899  
Jacksonville, OR 97530  
**Telephone:** 541-899-9982  
**Email:** janelle@apwc.info

### ***Applicant Information***

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**Name:** Julie Cymore  
**Address:** PO BOX 899  
Jacksonville, OR 97530  
**Telephone:** 541-890-9765  
**Email:** julie@apwc.info

### ***Past Recommended or Completed Projects***

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This applicant has no previous projects that match criteria.

### ***Authorized Agent***

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**Name:** Janelle Dunlevy  
**Address:** 3259 Tahitian Avenue  
Medford, OR 97504  
**Telephone:** 541-890-3107  
**Email:** jrdunlevyco@msn.com

## **Location Information**

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### **Where is it?**

The project will occur on private land owned or managed by another party

### **Landowner Information**

**Name:** Steven Weaver  
**Address:** PO BOX 900  
Jacksonville, OR, 97530  
**Phone:** 541-899-1672  
**Email:** weaver@saltmarshranch.com

### **Site Description**

*Street Address, nearest intersection, or other descriptive location.*

5700 Little Applegate Road, Jacksonville, OR 97530

*Directions to the site from the nearest highway junction.*

From Medford take Hwy 238 18 miles to Ruch. Take a left on Upper Applegate Rd. In 2.8 miles, take a left on Little Applegate Rd. Travel 5.8 miles to the site on the right.

*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.*

No access, however increased access to rearing habitat through this project will increase production of salmonid species for fisheries in mainstem Applegate River and Rogue River, which does have public access downstream of the confluence with the Little Applegate River.

*Dominant Land Use Type:*

Range/pasture  
Cropland  
Rural residential

### **Project Location**

*General Project Location.*

**County:** JACKSON  
**ODFW Dist:** Rogue  
**Stream/Lake/Estuary Name:** Little Applegate River  
**Sub-basin:** 17100309  
**Tributary of:** Applegate River

*Specific Project Location.*

Latitude	Longitude
42.15393	-122.96334

## **Project Summary**

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### **Project Summary**

*Please provide a couple sentence summary of the proposal.*

The Upper Phillips Fish Passage and Irrigation Efficiency Project will restore fish passage at the concrete Upper Phillips Dam and upstream pushup dam; install a new headgate and fish screen; and dedicate conserved water instream through piping 0.2 miles of irrigation ditch in Jackson County in the Rogue Basin.

### **Overall Project Goals**

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

Provide adequate fish passage to all life stages and species at the Upper Phillips Concrete Dam and Pushup Dam through removal of the pushup dam and installation of a bypass channel.

Provide adequate fish screening for the Upper Phillips Ditch.

Improve irrigation conveyance efficiency in the Upper Phillips Ditch in order to conserve water quantity, improve production, improve infrastructure, improve water quality, and leave water instream.

Provide outreach to water users about on-farm irrigation efficiency options and instream water dedication.

Provide headgate to reduce streamflow capture by the ditch outside of the irrigation season.

### **Primary objectives of R&E funding**

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

Improve fish passage for all aquatic species and life stages year-round at Upper Phillips Dam.

Eliminate the need for a pushup dam by improving the point of diversion and headgate.

Reduce the quantity and rate of water diversion necessary through installation of a headgate and ditch improvements.

Reduce ditch seepage and water losses.

Employ efficiencies at the diversion structures and ditch in order to leave conserved water instream.

Provide method for accurate water measurement.

Encourage protection of conserved water through assistance and outreach to Upper Phillips Ditch Association members for the purposes of dedication of conserved water.

Encourage on-farm efficiencies through assistance and outreach to Upper Phillips Ditch Association members for the purposes of developing future on-farm efficiency projects.

### **Current Situation/Justification**

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

This project will restore fish passage at Upper Phillips Dams; install a new headgate and fish

screen; and conserve water through piping 0.2 miles of irrigation ditch in Jackson County. The diversion has 2 dams: a 5- foot concrete structure with a 4-foot pushup dam upstream. Installation of logs will eliminate the pushup dam and a bypass channel will be created around the concrete structure. These dams are located on the Little Applegate River, a high priority tributary of the Applegate River. This project will provide fish passage to 49 miles of essential rearing and cold water habitat, improve water quality, and increase instream flows for ESA-listed and State-listed species Coho salmon, Pacific lamprey, steelhead, and cutthroat trout. Irrigation structure efficiencies will reduce the amount of water diverted and conserved water will be left instream for the benefit of aquatic species in a DEQ-listed flow-limited stream. Two downstream dams have been removed and this project continues the momentum for restoring passage upstream. Designs for this project were developed under an OWEB TA Grant and the project is a result of a decade-long partnership with the Ditch Association, Jackson SWCD, OWRD, BLM, ODFW, Middle Rogue Steelheaders, Trout Unlimited, and the RBP.

### Recreation and Commercial Benefit

*This project will provide benefits to:*  
Recreational fisheries

*Explain how this project will contribute to current (and/or potential) fishing opportunities, access, or fisheries management.*

This project will restore access to essential spawning and rearing habitat for State-listed and ESA-listed species of concern Pacific lamprey, ESA-listed threatened Coho salmon, summer and winter steelhead, and cutthroat trout. Improving access to habitat as well as leaving water instream will support local population production rates and strengthen the recreational fishery. The Little Applegate River is the highest producing steelhead stream in the Applegate watershed and is located above most public access points. This project has very high recreational values for this watershed and the Rogue Basin below the confluence with the Rogue River by enhancing recreational angling opportunities downstream in areas of the Applegate and Rogue Rivers that are open to public angling. Scenic values are promoted by this project through improved streamflows, increased salmon and trout populations in the scenic Applegate Valley, a destination for local residents and tourists alike.

Rogue River salmon and steelhead runs support annually a \$7.2 million sport fishing industry and a \$1.6 million commercial fishing industry, as well as the related tourism industry. Many local families and other families across Southern Oregon depend on these resources including approximately 75 licensed fishing guide companies locally.

*Percent benefit split between Commercial and Recreational anglers:*

0 % Commercial  
100 % Recreational

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

Rogue River salmon and steelhead runs support annually a \$7.2 million sport fishing industry and a \$1.6 million commercial fishing industry, as well as the related tourism industry. Many local families and other families across Southern Oregon depend on these resources including approximately 75 local, licensed fishing guide companies.

*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?*

*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.*

Final Recovery Plan for the Southern Oregon/Northern California Coast (SONCC) Evolutionarily Significant Unit of Coho: SONCC-MRAR.5.1.35.2 Remove barriers, based on evaluation

ODFW Native Fish Conservation Policy Goals #1 and #2 by aiding in the prevention of depletion of any native species and maintaining and restoring naturally produced native fish species.

Oregon Department of Fish and Wildlife's (ODFW) 2013 Statewide Fish Passage Priority list: Addressing fish passage at Upper Phillips Dam is a statewide priority for ODFW.

Oregon Conservation Strategy: This project restores passage and instream flows for State-listed Rogue SMU Coho, lamprey, steelhead, and cutthroat trout; funding of passage projects in Rogue River is recommended action

Oregon Lamprey Recovery Strategy: states that limiting factors are reduced water quality, passage barriers, and altered flow patterns and lists improve passage as a conservation action.

Rogue Basin Partnership's Rogue River basin planning effort lists Upper Phillips Dam Project as a #1 priority under the 2016 Rogue Basinwide Priority Barrier Removal Analysis.

Oregon's 2017 Integrated Water Resources Strategy: 10.A Improve Water-Use Efficiency and Water Conservation, 4.C Promote Strategies That Increase/Integrate Energy and Water Savings, 13.E Invest in Implementation of Water Resources Projects.

Little Applegate Watershed Management Plan: Assist non-federal landowners in developing more efficient irrigation practices; Install pipe in unlined ditches where feasible; Improve fish passage at all identified barriers.

Rogue Basin Coordinating Councils (RBCC) Watershed Health Factors Analysis: Limiting factors in the watershed are water diversions, temperature, fish passage barriers, riparian vegetation condition, dissolved oxygen, and sediment.

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

No

*This project is intended to benefit the following species:*

Coho Salmon  
Lamprey  
Winter Steelhead  
Summer Steelhead  
Cutthroat Trout  
Rainbow Trout

*This project will benefit anglers or fishery by providing:*

Fish Screening  
Fish Passage

#### Fish Screening

*This fish screening project will:*

Modify or repair an existing screening structure

Replace an existing screening structure

*We have contacted or have been working with:*

ODFW fish screening staff

ODFW has been contacted

The project is being reviewed

The project has been reviewed and is awaiting approval

The project has received approval

### Fish Passage

*This fish passage project will:*

Add a fishway/passage structure

Remove a barrier that does not have an existing fishway/passage structure

*We have contacted or have been working with:*

Local ODFW staff

ODFW has been contacted

The project is being reviewed

The project has been reviewed and is awaiting approval

The project has received approval

## **Project Description**

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### Schedule

Activity	Date	RE Funding
Permit Applications/Consultation	6/19	Yes
Partner Coordination	Duration	Yes
Final Design Drafting	9/19	Yes
Contracting	6/19	Yes
Materials Acquisition	8/19	Yes
Fish Screen & Headgate Construction	12/19	Yes
Construct Pipeline	12/19	Yes
Construct Dam Bypass	6/20	Yes
Planting/Reseeding	1/20	Yes
Post Project Review	12/20	Yes
Monitoring/Reporting	6/21	Yes

### Permits

Permit	Secured?	Date Expected
USACE 404 Permit/DSL Fill/Removal Permit: Communication with USACE, NOAA Fisheries, and ODFW. Expected to submit 10/2019.	No	6/20
Riparian Ordinance Permit: The APWC has a rolling Jackson County Riparian Restoration Permit. We will add this project site to this permit as soon as funding is secured.	No	9/19
No Rise Certification: The engineer will complete this report as soon as funding is available.	No	11/19
SHPO Review: Based on USACE Fill/Removal Permit application. We hope to work with BLM on SHPO clearance. If not this is a funding limited action and will await secured funding.	No	11/19
NOAA Consultation: NOAA Consultation began in 2014	No	ongoing
ODFW Fish Passage Approval: Consultation began in 2014; preliminary approval (see Attachment 2d)	No	4/20

### Project Design and Description

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

This proposed project contains three components: 1) improving fish passage at the associated dam site through creation of a bypass channel, 2) upgrading the current headgate and fish

screen, and 3) irrigation efficiency improvements along Upper Phillips Ditch through piping that will allow for dedication of conserved water instream. The project will provide access and screening at an ODFW Fish Passage Priority listed dam for Endangered Species Act-listed Coho, Pacific lamprey, steelhead, and cutthroat trout and will provide the water users of Upper Phillips Ditch with an efficient, improved water delivery system that will leave water instream. Through grant opportunities (application April 2019) with the OWRD, piping irrigation efficiencies will be implemented which will dedicate water instream. The Little Applegate River is the #1 steelhead producer in the Applegate watershed. There are 31.6 miles of high-quality steelhead habitat impeded by this dam. This recreational fishery is extremely popular and important to local anglers as well as for fishing guides and related tourism in the Rogue River Basin. The fish passage project designs were developed under the OWEB Technical Assistance Grant (215-2033- 11631) awarded to the APWC and pipeline and screen project designs were developed by the Jackson County Soil Water Conservation District, ODFW, and Jackson County OWRD, in partnership with Upper Phillips Ditch Association members and the Applegate Partnership and Watershed Council. The OWRD Conserved Water program application has been submitted as of 4/16/19 and an OWEB application will be submitted by 4/29/19, with additional match funding for this project a target implementation date of 2020 instream is forceable.

Cascade Stream Solutions developed fish passage designs for a bypass channel and instream large wood that will replace the need for the currently used pushup dam (OWEB TA Grant # 215-2033-11631). The resulting project designs address adult and juvenile salmonid and lamprey passage, while also addressing water user concerns including bank stabilization and irrigation water conveyance needs. This project will implement the designs that will facilitate adult access and provide new juvenile access to 31.6 miles of high-quality steelhead habitat; 1 mile of Coho habitat; 6.2 miles of Pacific lamprey habitat; and 49 miles of cutthroat trout habitat located upstream of this point of diversion, thus supporting population recovery through access to high quality spawning and rearing habitat. Improved fish passage at this site is leveraged by the removal of downstream barriers including the Buck and Jones Dam in 2006 and Farmer's Ditch Dam in 2012, and dedication of senior water rights instream. These completed projects add value to all additional work proposed in the Little Applegate River.

The fish passage designs enhance a naturally occurring bypass that currently only conveys water during high flows. We propose to construct a bypass channel to provide opportunities for fish passage past the concrete Upper Phillips Dam (see attached Designs that were developed under a previous OWEB grant). The preliminary design have received initial approval from ODFW staff and are being developed in ongoing consultation with NOAA who cannot give passage approval until the designs are finalized. This would occur under this grant. The channel will be excavated into existing bedrock using a rock hammer mounted on an excavator, jack-hammers, and non-explosive demolition agents. The channel will have a bottom slope of about 0.051 ft/ft, a bottom width of about 4 feet, right bank side slope of 2 horizontal to 1 vertical, and left bank side slope of 1.5 horizontal to 1 vertical. The channel will be excavated to form offset rows of large roughness elements. Roughness elements will be constructed in rows with three roughness elements per row. Within each row of roughness elements would be spaced about 3.5 feet from center of top of roughness element to center of top of roughness element. Rows would be spaced about 4 to 5 feet apart and offset from the up and downstream row. The designs are based on research presented Baki and Rajaratnam's article titled 'Mean Flow Characteristics in a Rock-Ramp-Type Fish Pass' published in the August 2012 edition of the Journal of Hydraulic Engineering. The series of roughness elements will improve passage opportunities along the boundary layer and improve fish passage success for weaker swimming

species and life stages. Velocities were estimated using velocity prediction equations based on empirical hydraulic geometry relationships. Mean channel velocities are estimated to be less than about 4 fps for a flow with a 10 percent exceedance probability and about 1 fps for a flow with a 95 percent exceedance probability. Roughness elements will create a heterogeneous velocity field that will produce low velocities near the boundary layer and resting areas in the lee of roughness elements. Flow depths will range from about 0.5 ft at a flow with an exceedance probability of about 95 percent to more than 1.5 ft at a flow with an exceedance probability of about 95 percent.

A headgate and new fish screen will be installed by ODFW. ODFW engineers will provide in-kind engineered designs and ODFW Screen Shop will provide in-kind labor for fabrication and construction of the fish screen and headgate. ODFW will utilize any parts from the current fish screening that can be used for the upgraded structure. The necessary materials will be provided through this project. Improved fish screening will reduce the risk of entrainment and mortality of salmon and steelhead.

1.8 miles of the ditch are proposed to be piped through an OWRD Grant application that will be submitted in April 2019. Current water loss is severe and through the upper 1.4 miles of the 2.7 mile ditch, an estimated 1500 ac-ft of water are lost per year. The irrigation association will provide a minimum of 0.25-0.5 cfs of the current 2 cfs water diversion to be dedicated instream under the Allocation of Conserved Water Program. This would result in 0.25-0.5 cfs less water being diverted because the irrigators will receive a reduced certificate. The APWC has entered into agreements with the water users to complete this process with assistance from JSWCD.

The goal for the amount left instream is 0.5 cfs, which has been determined to be attainable and ecologically significant in late summer when flows are low (2-6 cfs). Additionally, installation of the headgate would eliminate capture of streamflow outside of the irrigation season.

The ditch conveyance would allow the irrigators to reduce the rate and volume of water diverted, thereby leaving water instream. While utilizing less water, the conveyance efficiencies (piping) will efficiently deliver water to users along Upper Phillips Ditch; improve production; improve water delivery to the lower 0.7 mile of the ditch, thus allowing an additional 31 acres to receive their full allotment while reducing the amount of water diverted; improve water quality by reducing ditch runoff; and encourage conserved water to be dedicated water instream. One farm served by the ditch, Salant Family Ranch (<https://salantfamilyranch.wordpress.com/>) raises local, natural, Grass-Fed and Grain-Finished beef, which supplies local residents and restaurants, Rogue Valley Farm to School, and Rogue Valley Farmer's Markets.

Eliminating runoff from the unlined, open ditch will improve water quality. The conserved instream water will improve water quality by reducing water temperatures of the Little Applegate River. Installation of a new headgate will eliminate the year round flow conditions currently existing in the ditch. This modification will reduce ditch erosion and erosion of the neighboring property during high water events, eliminate water quality issues and introduction of sediment and nutrients created by high flows, surface flows and infiltration, and eliminate wasted water running down the ditch.

The amount of water diverted would be reported to OWRD. Currently there are 3 flume locations for manual measurements along the ditch. Under Phase 1, they would be replaced with an ultrasonic flow meter or similar flow meter located near the fish screen and point of diversion. The measuring device and location will be determined based on consultation with the Jackson County Watermaster. There is a streamflow gauge located at the mouth of the Little Applegate River, thereby the instream amount can be measured and protected from the point of diversion downstream for at least 5 miles. This gauge allows the Watermaster or private citizens to monitor instream flows remotely in real-time

([http://apps.wrd.state.or.us/apps/sw/hydro\\_near\\_real\\_time/display\\_hydro\\_graph.aspx?station\\_nbr=14365500](http://apps.wrd.state.or.us/apps/sw/hydro_near_real_time/display_hydro_graph.aspx?station_nbr=14365500)). Additionally, the need for increased summer streamflows due to water withdrawals is evidenced by the listing of the river by the ODEQ, and the seniority of this water right would give any dedicated water high ecological value.

### Engineering

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

Yes

Not associated with ODFW

### Project Management and Maintenance

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

The bypass channel will improve fish passage in perpetuity. The fish screen and pipeline have a life span of approximately 50 and 100 years, respectively.

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

The bypass channel will not require maintenance or oversight. The pipeline infrastructure will be managed, maintained, and overseen by the Upper Phillips Ditch Association. The fish screen will be maintained by ODFW.

*Will the project require ongoing maintenance?*

Yes

The fish screen will be maintained by ODFW and the Upper Phillips Ditch Association will maintain the pipeline.

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

No

### **Project Funding**

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#### Funding

*Have you applied for OWEB funding for this project?*

Yes

OWEB application number: 219-2028

R&E money is needed as matching funds.

Did not receive an award.

Awaiting a decision from the panel.

Project was recommended for funding 2 times and ranked 7/15 for Restoration applications but only projects 1-6 are within the funding threshold per OWEB staff. We are reapplying in 4/2019. We are also applying for additional funding from OWRD.

*Has this proposal, or similar proposal for this project location, previously been denied by OWEB or other funding source?*

[{"source":"Jackson County Soil Water Conservation District Technical Assistance, Outreach","type":"In-Kind","secured":"Secured","dollarValue":18700,"comments":"Engineering

and survey for pipeline"}, {"source": "Bureau of Land Management: NEPA, SHPO clearance, permitting, seed", "type": "In-Kind", "secured": "Pending", "dollarValue": 10400, "comments": "NEPA, SHPO clearance, permitting, seed"}, {"source": "Middle Rogue Steelheaders", "type": "In-Kind", "secured": "Pending", "dollarValue": 900, "comments": "Volunteer planting, cash donation"}, {"source": "Rogue Basin Partnership", "type": "In-Kind", "secured": "Pending", "dollarValue": 2100, "comments": "Permitting, Contracting"}, {"source": "APWC Fish Passage Program", "type": "In-Kind", "secured": "Secured", "dollarValue": 2366, "comments": "Permitting, Willow stakes"}, {"source": "ODFW-District Fish Biologists", "type": "In-Kind", "secured": "Pending", "dollarValue": 675, "comments": "Staff hours"}, {"source": "ODFW-Screens & Passage", "type": "In-Kind", "secured": "Secured", "dollarValue": 58919, "comments": "Engineering, Labor & Construction"}, {"source": "Trout Unlimited", "type": "In-Kind", "secured": "Secured", "dollarValue": 800, "comments": "Instream Water Dedication"}, {"source": "Water User Match", "type": "Cash", "secured": "Pending", "dollarValue": 13040, "comments": "Labor, Water measurement, Logs/Root wads"}, {"source": "Cascade Stream Services", "type": "In-Kind", "secured": "Secured", "dollarValue": 770, "comments": "Engineering"}, {"source": "USFS-Fish Biologist", "type": "Cash", "secured": "Pending", "dollarValue": 800, "comments": "Staff Hours"}, {"source": "OWRD", "type": "Cash", "secured": "Pending", "dollarValue": 1031234, "comments": "OWRD Grant Funding, application 4/2019 will cover irrigation efficiency project"}, {"source": "OWEB", "type": "Cash", "secured": "Pending", "dollarValue": 195208, "comments": "OWEB, App 4/2019, funding fish passage and irrigation efficiency"}]

Other Funding Source	Type	Secured	Dollar Value	Comments
Jackson County Soil Water Conservation District Technical Assistance, Outreach	In-Kind	Secured	18700	Engineering and survey for pipeline
Bureau of Land Management: NEPA, SHPO clearance, permitting, seed	In-Kind	Pending	10400	NEPA, SHPO clearance, permitting, seed
Middle Rogue Steelheaders	In-Kind	Pending	900	Volunteer planting, cash donation
Rogue Basin Partnership	In-Kind	Pending	2100	Permitting, Contracting
APWC Fish Passage Program	In-Kind	Secured	2366	Permitting, Willow stakes
ODFW-District Fish Biologists	In-Kind	Pending	675	Staff hours
ODFW-Screens & Passage	In-Kind	Secured	58919	Engineering, Labor & Construction
Trout Unlimited	In-Kind	Secured	800	Instream Water Dedication
Water User Match	Cash	Pending	13040	Labor, Water measurement, Logs/Root wads
Cascade Stream Services	In-Kind	Secured	770	Engineering
USFS-Fish Biologist	Cash	Pending	800	Staff Hours
OWRD	Cash	Pending	1031234	OWRD Grant Funding, application 4/2019 will cover irrigation efficiency project
OWEB	Cash	Pending	195208	OWEB, App 4/2019, funding fish passage and irrigation efficiency
		Total	1335912	

## Budget

Item	Unit Number	Unit Cost	In-kind or non-cash contributions	Funding from other sources	R&E Funds	Total Costs
PROJECT MANAGEMENT						
Project Management	240	41.00	0	6569	3236	9805
Permitting	176	41.00	1960	2858	2373	7191
Construction Management & Coordination	480	41.00	0	16079	3530	19609
Landowner/Water User Communication (17 households)	176	41.00	0	7190	0	7190
Final Report Drafting	30	41.00	0	822	405	1227
Monitoring	110	41.00	0	4329	0	4329
		SUBTOTAL	1960	37847	9544	49351
IN-HOUSE PERSONNEL						
Planting & Site Prep Lead	40	41.00	0	1224	0	1224
Planting & Site Prep Crew	48	26.00	0	1634	0	1634
Post-Grant Monitoring/Planting (OWEB)	1	4500.00	0	4500	0	4500
		SUBTOTAL	0	7358	0	7358
CONTRACTED SERVICES						
ODFW Fish Passage Design Review	15	45.00	675	0	0	675
ODFW Engineering of Headgate/Screens	1	13000.00	13000	0	0	13000
ODFW Installation of Headgate/Screens	1120	42.00	44479	2341	0	46820
BLM Technical Support-NEPA, Permitting	150	60.00	9000	0	0	9000
USFS Technical Support	16	50.00	800	0	0	800
RBP Technical Support Permitting, Contracting	30	70.00	2100	0	0	2100
SWCD Outreach/Technical Assistance	300	29.00	8700	0	0	8700
Trout Unlimited Technical Assistance	16	50.00	800	0	0	800
Water Measurement Monitoring	32	20.00	640	0	0	640
Engineering: No Rise Certification Completion	1	3110.00	0	3110	0	3110
Engineering: Final Design & Coordination - Fish Passage	1	11773.00	770	11003	0	11773
Engineering: Final Design & Coordination - Pipe Line	100	100.00	10000	0	0	10000
As Built Survey-Fish Passage	1	980.00	0	980	0	980
SHPO Historical Structure Review	1	3500.00	0	2345	1155	3500
SHPO Cultural Structure Review	1	4000.00	0	2680	1320	4000
Passage: Mobilization & Prep	2	4750.00	0	4750	4750	9500
Passage: Clearing, Grubbing, Access	1	1370.00	0	685	685	1370
Erosion Control	1	2380.00	0	1190	1190	2380
Water Management	1	6500.00	0	3250	3250	6500
Bedrock Excavation	1	8125.00	0	4063	4063	8126
Log & Boulder Placement	1	16782.00	0	8391	8391	16782
Rootwad Transport	3	700.00	0	1050	1050	2100
Bonding	1	2314.00	0	1157	1157	2314
Fish Salvage (hours)	28	50.00	1400	0	0	1400
Site Cleanup	1	1000.00	0	500	500	1000
Headgate/Screen: Paint	1	4500.00	0	4500	0	4500
Headgate/Screen: Fabrication	1	750.00	0	750	0	750
Headgate/Screen: Concrete Pumper	1	750.00	0	750	0	750
Pipeline: Labor, Grade, Install	1	312834.00	0	312834	0	312834
Erosion Control/Planting	45	20.00	900	0	0	900
Permit Fees: LUI, Jackson County	1	231.00	0	0	231	231
Permit Fee: Floodplain Rvw Type 1, Jackson Co	1	420.00	0	0	420	420
Permit Fees: State Lands, < 500 cyd Removal	1	106.00	0	106	0	106
Permit Fees: State Lands, < 500 cyd Fill	1	312.00	0	312	0	312
Permit Fees: USACE	1	0.00	0	0	0	0
DEQ 401 Permit	1	4300.00	0	4300	0	4300
Fee: Allocation of Conserved Water Program	1	4030.00	0	4030	0	4030
Permit Fees: Riparian Restoration Permit, Jackson Co.	1	231.00	0	231	0	231

Fire Suppression: (500G Waterboy Trailer)	1	1750.00	0	875	875	1750
Diversion & Care of Creek During Construction	1	3600.00	0	1800	1800	3600
Construction Staking, Observation, & Inspection-Fish Passage	1	3800.00	0	1900	1900	3800
		SUBTOTAL	93264	379883	32737	505884

#### TRAVEL

Mileage	1404	1.00	112	703	0	815
Mileage-Supplies	700	1.00	0	406	0	406
Mileage-Agency Personnel	2620	1.00	1441	0	0	1441
		SUBTOTAL	1553	1109	0	2662

#### SUPPLIES/MATERIALS

Logs, yarded	2	600.00	1200	0	0	1200
Logs, rootwad not yarded	3	400.00	1200	0	0	1200
Logs, Transport	5	225.00	0	563	563	1126
Boulder Delivery	55	80.00	0	2200	2200	4400
Mechanical Anchors	1	1000.00	0	500	500	1000
Headgate/Screen: Form	1	10300.00	0	10300	0	10300
Headgate/Screen: Components	1	13250.00	0	13250	0	13250
Headgate/Screen: Rock Slope Protection	10	80.00	0	800	0	800
Flow Meter	1	2500.00	0	2500	0	2500
Pipeline: Materials	1	542362.00	10000	532362	0	542362
Pipeline: Backfill	1	110406.00	0	110406	0	110406
Pipeline: Mobilization	1	13745.00	0	13745	0	13745
Plants & Materials (75)	75	7.00	0	0	574	574
Straw	18	11.00	0	0	198	198
Native Grass Seed (25lb/ac)	50	60.00	3000	0	0	3000
Willow Stakes	80	1.00	80	0	0	80
		SUBTOTAL	15480	686626	4035	706141

#### EDUCATION/OUTREACH

			0	0	0	0
		SUBTOTAL	0	0	0	0

#### EQUIPMENT

			0	0	0	0
		SUBTOTAL	0	0	0	0

#### FISCAL ADMINISTRATION

Administration	1	115463.00	0	110832	2500	113332
		SUBTOTAL	0	110832	2500	113332
		BUDGET TOTAL	112257	1223655	48816	1384728

## ***Internal Review Results***

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**Review Score:** 0.8 out of 3

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

### ***Summary of Review Team Comments***

While the review team felt this was a good project, the team did not believe the planning and coordination needed for a project of this size was far enough along. R&E could be a funding source however it should not be the primary source and the current ask is too much for R&E, especially considering some of the concerns and level of uncertainty. The team felt like the project should be withdrawn, revised, and then resubmitted after full coordination with ODFW staff. Scores included two 0's and seven 1's.

### ***Specific Review Team Comments***

Beyond preliminary local ODFW District Fish Biologist support, no fish passage approval exists for this project. Similarly, there are fundamental questions on the POD transfer and the proposed fish screen. Additional coordination is needed with the ODFW Fish Passage and Screening program. While coordination did occur a couple of years ago, it needs to be reinitiated with ODFW staff to develop an appropriate solution, approval, and funding plan. If funded through the R & E Grant, this coordination must occur prior to expending the R&E award.

While ODFW typically funds screening replacements, this project appears to ask ODFW to fully fund a new screen in order to consolidate the two POD's. ODFW, while supportive of the project, does not presently have adequate funding identified for this project. ODFW would certainly entertain a new screening cost share project at this location where there is an ODFW-Applicant Cost Share which generally is a 40% project owner cost share contribution. Please work with ODFW Screening Program staff (Rich Kilbane and Ken Loffink) to identify appropriate funding alternatives.

This project is situated toward the lower end of the Draft 2019 ODFW Statewide Fish Passage Priority Barriers (group 14 of 16, around #300). It is a good project but numerous questions exist regarding fish screens and passage details related with this project. The project represents the ODFW fish screening funding as secured, which it presently is not. ODFW screening engineers are not actively working on this screening design and the project proponents need to closely coordinate with ODFW Fish Passage and Screening Program.

Consolidation of water POD's may require mitigation. The project will need to coordinate with the ODFW Water Quality-Quantity Program and the Oregon Water Resources Department.

A stated benefit of the project includes that additional water will be left in-stream. However, that will not occur until phase 2. There appears to be no assurance that phase 2 will occur or that it will legally improve water flows. More information needs to be provide as to actual priority date, amount, duration, and distance of improved flows. Funding should be delayed and contingent on securing the improved flows.

This relies too much on R&E funds with not enough evidence for the benefit to the angler. It is difficult to see how anglers would get significant return on a \$250K investment. It needs to bring in other funding from users, OWEB, ODFW Screening Program to reduce the R&E request. Some of the benefits listed are non-fish related (reduce bank erosion and flooding) and water users are getting economic benefit from the water.

The administrative costs are too high and need to be consistent with direction from the R&E Board.

The project management and administrative sections are nearly \$50,000. The \$26,390 in Project management needs to be justified and the \$23,000 requested in the Fiscal Administration section is not consistent with R&E Board direction of a maximum of \$2,500. Please refer to page 10 of the "Project Proposal Information Packet"

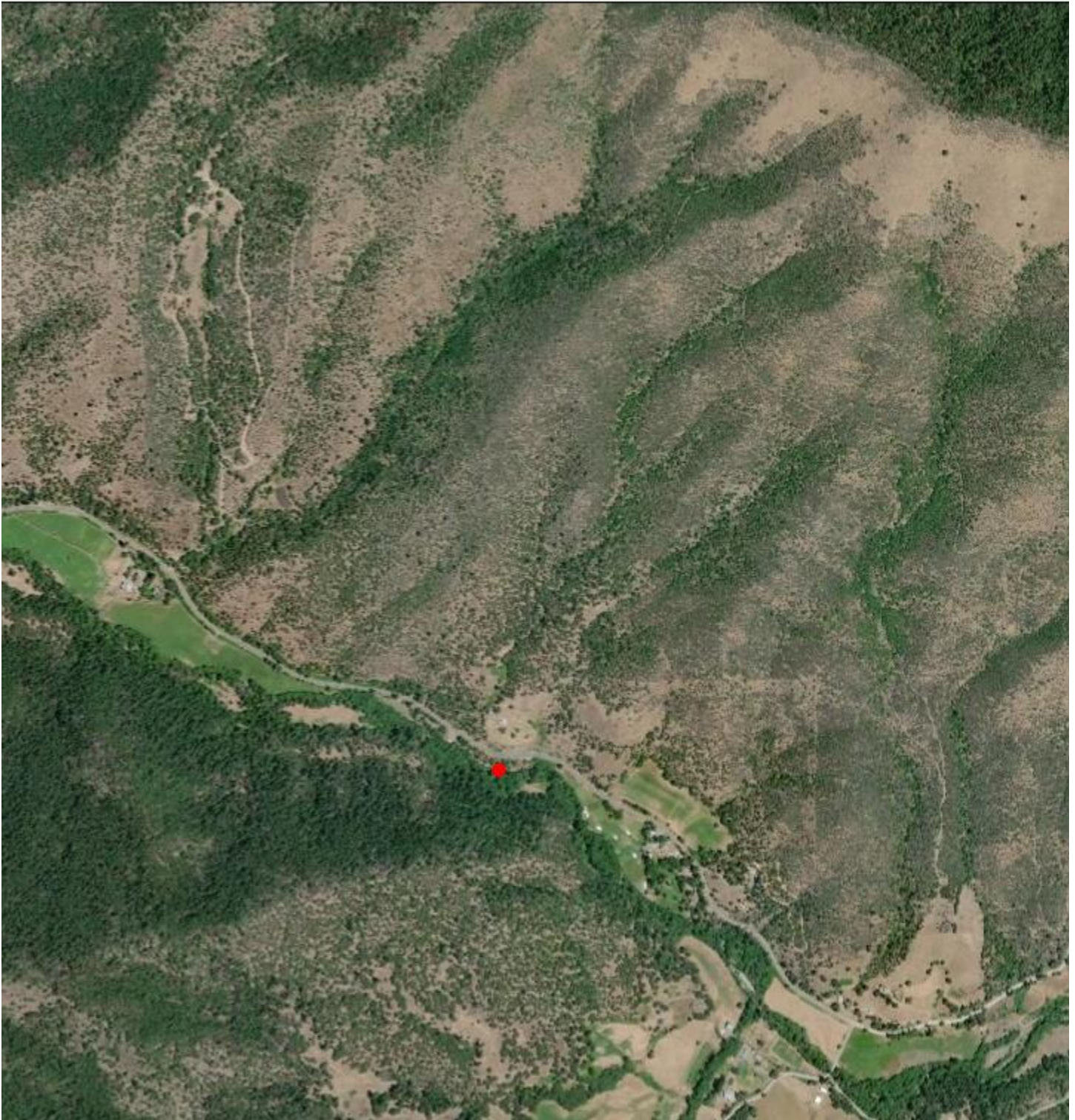
([https://www.dfw.state.or.us/fish/RE/docs/Project\\_Proposal\\_Informational\\_Packet\\_5-2017.pdf](https://www.dfw.state.or.us/fish/RE/docs/Project_Proposal_Informational_Packet_5-2017.pdf))

The application shows SHPO clearance as covered by BLM in the other funding table and then identifies it as a line item that R&E is being asked to fund.

There is no commercial benefit unless there are Chinook in the system.

## Project Map

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## ***Additional Files***

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### **Budget Information**

[Fish Screen Budget](#)

*Fish Screen Budget*

[Pipeline Cost Estimate](#)

*Pipeline Cost Estimate*

### **Maps**

[Location Maps](#)

*Maps*

[Project Map](#)

*Map image of project location*

### **Photos**

[Photos of Upper Phillips Dam Site](#)

*Photos of Site*

### **Design Information**

[Fish Screen Designs](#)

*Fish Screen Designs*

[Planting Plan](#)

*Planting Plan*

[Preliminary Engineering Designs](#)

*Preliminary Engineering Designs*

### **Management Plans and Supporting Documents**

[Map of Current Ditch Efficiency](#)

*Map of Current Ditch Efficiency*

[Response to Comments](#)

*Response to ODFW Internal Review Comments*

[Response to IRT comments](#)

### **Permits and Reviews**

[ODFW Passage Approval](#)

*ODFW Passage Approval*

### **Partnerships**

[Cooperative Agreements](#)

*Cooperative Agreements*

[Secured Match](#)

*Secured Match*

### **Public Comment**

[Letters of Support](#)

*Letters of Support*

### **Administrative Documents**

[501\(c\)3 Non Profit Letter](#)

*Letter of Proof for tax exempt status from IRS*

[Signature Authorization Page](#)

*Financial assistance request*

## ***Completion Report***

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A completion report has not been submitted for this project.