



R & E Grant Application 17-19 Biennium

Project #: 17-022

Beeson Robison Fish Passage Project

Project Information

Requested Cycle: 17-2
R&E Project Request: \$15,000
Other Funding: \$111,687
Total Project: \$126,687
Spending Start Date: 7/1/2015
Spending End Date: 6/30/2017
Project Start Date: 7/1/2015
Project End Date: 6/30/2017
Organization: Rogue River Watershed Council (Tax ID #: 11-3823736)

Fiscal Officer

Name: Anna Johnson
Address: 89 Alder Street
Central Point, OR 97502
Telephone: 541-423-6186
Email: ajohnson@rrwc.org

Applicant Information

Name: RR WC
Email: bbarrrrwc@gmail.com

Past Recommended or Completed Projects

This applicant has no previous projects that match criteria.

Location Information

Where is it?

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

Landowner Information

Name: Alain Herriott
Address: 8055 Wagner Creek Road
Talent, OR, 97540
Phone: 541-512-0143
Email: alainh@me.com

Site Description

Street Address, nearest intersection, or other descriptive location.

8055 Wagner Creek Road / Talent, OR 97540

Directions to the site from the nearest highway junction.

I-5 to exit 21; W on Fern Valley; S on Hwy 99; W on Rapp Rd; S on Wagner Creek Rd

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.

This project occurs on private lands and there is no fishing on Wagner Creek per ODFW regulations. However, steelhead produced in Wagner Creek contribute to the Rogue River's world class steelhead fishery.

Dominant Land Use Type:

Rural residential

Project Location

General Project Location.

County: Jackson
Town/City: Talent
ODFW Dist: Rogue
Stream/Lake/Estuary Name: Wagner Creek
Sub-basin: 17100308
Tributary of: Bear Creek

Specific Project Location.

| Latitude | Longitude |
|-----------|-------------|
| 42.217083 | -122.790556 |

Project Summary

Project Summary

Please provide a couple sentence summary of the proposal.

Rogue River Watershed Council plans to replace the Beeson-Robison Diversion Dam with a reprofiled stream channel. This will allow all sizes of fish to pass the site during all flow conditions. The current dam blocks adult and juvenile winter and summer steelhead from 3 miles of Wagner Creek.

Overall Project Goals

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

Provide unhindered fish passage to 3.0 miles of high quality habitat.

Primary objectives of R&E funding

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

Eliminate instantaneous gradient increase of 5.5 feet.

Provide hydraulic conditions to allow for passage of adult and juvenile salmon and steelhead (and other fishes).

Current Situation/Justification

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

Beeson-Robison dam actively diverts water for 19 water rights holders. The dam is 5.5 feet high and completely blocks juvenile passage and impedes adult steelhead and possibly Coho Salmon from 3 miles of habitat.

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.

Although recreational angling is not permitted on Wagner Creek (per ODFW regulations), the tributaries to the Rogue River are where the overwhelming production of steelhead occurs in this river that is famed for its steelhead fishing. Steelhead produced in Wagner Creek will be available to anglers in the mainstem Rogue River. The more production we can stimulate by making habitat easier to reach (for both spawning adults and rearing juveniles), the stronger the recreational fishery will become.

Percent benefit split between Commercial and Recreational anglers:

0 % Commercial

100 % Recreational

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

The principal species affected with this project is steelhead. The steelhead fishery in the Rogue is recreational and internationally famous. While the project also likely improves conditions for Coho Salmon, this species in southern Oregon does not provide a targeted commercial fishery due to its protected status.

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?

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.

Ranked #43 of 69 on ODFW's 2013 list of priority fish passage barriers in the Rogue.

Ranked #21 in Bear Creek Watershed Council's 2007 priority barrier list.

NMFS's SONCC Coho Recovery Plan (2014) lists dams and diversion as a very high threat to Coho Salmon and state "Remove barriers guided by ODFW passage data base".

Rogue Restoration Action Plan (Rogue Basin Partnership 2015); Action 3.2.1 on page 45, remove Beeson-Robinson diversion.
Diversion.

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

Winter Steelhead

Summer Steelhead

This project will benefit anglers or fishery by providing:

Habitat Enhancements

Habitat Enhancements

The primary purpose of this project is to improve/increase:

In water structure, complexity, and habitat

Flow and/or connectivity

Fish passage

Project Description

Schedule

| Activity | Date | RE Funding |
|--------------------------------|-----------------|------------|
| Permits | July, 2017 | No |
| Final Design | March, 2017 | No |
| Bid Solicitation | April, 2017 | No |
| Contracting | May, 2017 | No |
| Materials Acquisition | August, 2017 | No |
| Construction | September, 2017 | Yes |
| Project Inspection | September, 2017 | No |
| Post-implementation Monitoring | August, 2019 | No |

Permits

| Permit | Secured? | Date Expected |
|--------------------------------------|----------|---------------|
| USACE/DSL Joint Permit | No | July, 2017 |
| ODEQ 401 Water Quality Certification | No | July, 2017 |
| Fish Passage Approval | No | July, 2017 |
| National Historic Preservation Act | No | May, 2017 |

| | | |
|-------------------------------------|----|-------------|
| Floodplain Review | No | May, 2017 |
| Riparian Vegetation Management Plan | No | March, 2017 |
| Driveway / Road Approach | No | July, 2017 |

Project Design and Description

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

The work areas will be isolated from flowing water prior to start of work. Work area isolation will be conducted in conjunction with fish salvage within the isolated areas. Details on work area isolation, fish salvage, and erosion control are provided in the attached drawings (see drawings 3, 4, and 5). We anticipate that bulk bags will be used to construct a temporary cofferdam along the upstream edge of the isolated areas and sediment curtains will be deployed downstream of work areas to protect water quality.

100% of the flow in Wagner Creek will be diverted through the Beeson-Robison irrigation conveyance (which flows through a fish screen where water in access of the irrigation water right and diverted fishes will be returned to Wagner Creek). Any water that accumulates within the isolated area that needs to be removed for construction activities will be pumped onto the adjacent ground surface to prevent turbid discharge to the creek (drawing 3).

The dam will be removed with an excavator. Rubble will be hauled offsite to an approved disposal area.

Following dam removal, large boulders will be installed to form grade controls in a step-like fashion. Weirs will generally be ~12 to 15 feet apart (one set will have ~ 20 feet) and each step upstream will gain 0.5 to 0.75 feet in elevation (see drawings 5 and 6). Boulders will be set in place with an engineered stream bed matrix. This matrix will be compacted into place to make it water tight. The full length of this re-profiled stream channel will be 115 feet. It will gain ~ 6 feet in elevation. In this way, water will stay at the surface and flow over and through the boulder weirs, permitting fish and other aquatic organism movement.

When the isolated areas are returned to live flow, they will be wetted slowly and monitored for turbidity by visual observation.

Riparian areas along the creek that are disturbed by construction will be planted and seeded with native species to facilitate the establishment of healthy, streamside conditions (see vegetation management plan).

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?

We expect this re-profiled stream channel to persist for 30 years or more. These structures have only been constructed for the past 20 or so years and many of them persist. Moreover,

construction techniques and design continue to improve, so life expectancy should increase with more modern projects.

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

The Beeson-Robison Ditch Association will maintain and manage the diversion once construction is complete. Maintenance of the re-profiled stream channel will not be required (but gates, valves, headworks of diversion, and etc will need to be maintained at the beginning and end of each irrigation season [April and October] and following freshets).

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?

Yes

Rogue River Watershed Council and Cascade Stream Solutions (engineer) will measure water surface elevations throughout re-profiled stream channel at different flow levels to verify jumps are within standards. We will also measure water velocities throughout the structure at a range of flows to verify flow paths for moving fishes are available within the re-profiled channel.

Project Funding

Funding

Have you applied for OWEB funding for this project?

Yes

OWEB application number: 217-20136

Awaiting a decision from the panel.

Recommended for funding by review panel (rank #1 in region 2). Award pending April, 2017 OWEB Board Meeting.

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

[{"source":"Schwemm Family Foundation","type":"Cash","secured":"Secured","dollarValue":5455,"comments":"Contracted services, travel, materials"}, {"source":"Rogue Flyfishers","type":"Cash","secured":"Secured","dollarValue":3182,"comments":"Contracted services, permits"}, {"source":"Resources Legacy Fund","type":"Cash","secured":"Secured","dollarValue":26536,"comments":"Personnel, contracted services"}, {"source":"Southern Oregon Flyfishers","type":"Cash","secured":"Secured","dollarValue":2764,"comments":"Personnel, contracted services, permits"}, {"source":"Trout and Salmon Foundation","type":"Cash","secured":"Secured","dollarValue":2272,"comments":"Contracted services"}, {"source":"Geos Institute","type":"Cash","secured":"Secured","dollarValue":3214,"comments":"Contracted services"}, {"source":"Rogue Basin Partnership","type":"Cash","secured":"Secured","dollarValue":22727,"comments":"Contracted services, permits"}, {"source":"The Freshwater

Trust","type":"Cash","secured":"Pending","dollarValue":22727,"comments":"Contracted services"},{"source":"Bureau of Land Management","type":"Cash","secured":"Pending","dollarValue":9091,"comments":"Contracted services"},{"source":"OWEB","type":"Cash","secured":"Pending","dollarValue":21734,"comments":"Contracted services, permits"},{"source":"Cascade Stream Solutions","type":"In-Kind","secured":"Secured","dollarValue":3200,"comments":"Effectiveness Monitoring labor and equipment"},{"source":"Rogue River Watershed Council","type":"In-Kind","secured":"Secured","dollarValue":440,"comments":"Volunteer planting and plant maintenance"}]

| Other Funding Source | Type | Secured | Dollar Value | Comments |
|-------------------------------|---------|---------|--------------|--|
| Schwemm Family Foundation | Cash | Secured | 5455 | Contracted services, travel, materials |
| Rogue Flyfishers | Cash | Secured | 3182 | Contracted services, permits |
| Resources Legacy Fund | Cash | Secured | 26536 | Personnel, contracted services |
| Southern Oregon Flyfishers | Cash | Secured | 2764 | Personnel, contracted services, permits |
| Trout and Salmon Foundation | Cash | Secured | 2272 | Contracted services |
| Geos Institute | Cash | Secured | 3214 | Contracted services |
| Rogue Basin Partnership | Cash | Secured | 22727 | Contracted services, permits |
| The Freshwater Trust | Cash | Pending | 22727 | Contracted services |
| Bureau of Land Management | Cash | Pending | 9091 | Contracted services |
| OWEB | Cash | Pending | 21734 | Contracted services, permits |
| Cascade Stream Solutions | In-Kind | Secured | 3200 | Effectiveness Monitoring labor and equipment |
| Rogue River Watershed Council | In-Kind | Secured | 440 | Volunteer planting and plant maintenance |
| | | Total | 123342 | |

Budget

| Item | Unit Number | Unit Cost | In-kind or non-cash contributions | Funding from other sources | R&E Funds | Total Costs |
|--|-------------|--------------|-----------------------------------|----------------------------|-----------|-------------|
| PROJECT MANAGEMENT | | | | | | |
| Executive Director | 100 | 37.83 | 0 | 3783 | 0 | 3783 |
| | | SUBTOTAL | 0 | 3783 | 0 | 3783 |
| IN-HOUSE PERSONNEL | | | | | | |
| Executive Director | 80 | 37.83 | 0 | 3026 | 0 | 3026 |
| | | SUBTOTAL | 0 | 3026 | 0 | 3026 |
| CONTRACTED SERVICES | | | | | | |
| Complete designs and bid specifications | 25 | 125.00 | 0 | 3125 | 0 | 3125 |
| Contractor mobilization | 1 | 9515.00 | 0 | 9515 | 0 | 9515 |
| Dewatering | 1 | 3000.00 | 0 | 3000 | 0 | 3000 |
| Clear and grub | 1 | 4375.00 | 0 | 4375 | 0 | 4375 |
| Tree removal | 5 | 625.00 | 0 | 3125 | 0 | 3125 |
| Erosion control | 1 | 1250.00 | 0 | 1250 | 0 | 1250 |
| Demolish dam | 1 | 1725.00 | 0 | 1725 | 0 | 1725 |
| Off-haul concrete rubble | 15 | 46.00 | 0 | 690 | 0 | 690 |
| Channel excavation | 300 | 16.10 | 0 | 4830 | 0 | 4830 |
| Off-haul and dispose removed material | 100 | 40.25 | 0 | 4025 | 0 | 4025 |
| Place re-profiled channel (includes boulders and stream bed matrix) | 350 | 103.50 | 0 | 26225 | 10000 | 36225 |
| Bank reconstruction | 150 | 23.00 | 0 | 1500 | 1950 | 3450 |
| Large wood placement (includes large wood) | 12 | 1150.00 | 0 | 10750 | 3050 | 13800 |
| Pipefitting and headwall construction (includes concrete and gates and pipe) | 1 | 12880.00 | 0 | 12880 | 0 | 12880 |
| Construction oversight | 32 | 125.00 | 0 | 4000 | 0 | 4000 |
| Revegetation | 20 | 22.00 | 440 | 0 | 0 | 440 |
| Survey and monitor | 45 | 100.00 | 2500 | 2000 | 0 | 4500 |
| Letter of Map Revision | 60 | 100.00 | 0 | 6000 | 0 | 6000 |
| Historic and archaeology survey | 40 | 60.00 | 0 | 2400 | 0 | 2400 |
| | | SUBTOTAL | 2940 | 101415 | 15000 | 119355 |
| TRAVEL | | | | | | |
| Travel to and from site (Central Point to Talent, 10 trips) | 250 | 0.53 | 0 | 134 | 0 | 134 |
| | | SUBTOTAL | 0 | 134 | 0 | 134 |
| SUPPLIES/MATERIALS | | | | | | |
| Trees and shrubs | 285 | 0.90 | 0 | 257 | 0 | 257 |
| Erosion control seed | 0 | 400.00 | 0 | 132 | 0 | 132 |
| | | SUBTOTAL | 0 | 389 | 0 | 389 |
| EDUCATION/OUTREACH | | | | | | |
| | | | 0 | 0 | 0 | 0 |
| | | SUBTOTAL | 0 | 0 | 0 | 0 |
| EQUIPMENT | | | | | | |
| | | | 0 | 0 | 0 | 0 |
| | | SUBTOTAL | 0 | 0 | 0 | 0 |
| FISCAL ADMINISTRATION | | | | | | |
| Waived | 0 | 0.00 | 0 | 0 | 0 | 0 |
| | | SUBTOTAL | 0 | 0 | 0 | 0 |
| | | BUDGET TOTAL | 2940 | 108747 | 15000 | 126687 |

Internal Review Results

Review Score: 0.8 out of 3

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

Summary of Review Team Comments

This project, while a high priority and a great candidate for native migratory fish migration restoration has not been submitted to the ODFW Fish Passage Program, nor have there been any meetings to discuss engineering plans. The plans show a design that, at this preliminary point in time, are inconsistent with fish passage design criteria. With coordination with ODFW's fish passage program there are opportunities to work the site specific design details into a plan set that is consistent with fish passage criteria. The review team recommends postponing a recommendation on this proposal until fish passage approval has been obtained or is at least imminent. Review team scores included two 0s and seven 1s.

Specific Review Team Comments

Coho benefits may be overstated. Not much reference to juvenile passage, and no description of the habitat upstream (can be inferred to be in good shape but not much description other than length).

R&E request is not large, due to the number of partners. Benefit should be great, relative to the overall cost.

The proposal states .5 to .75 feet jumps between weirs. A fish passage approval letter was not attached to the application. Current fish passage criteria limits jumps to a max of .5 ft. If this project used .75 feet without prior approval, it will have to be changed, that will increase the cost. This must be verified before approval.

All permits are unsecured as of this application, do not allocate funds until all permits have been secured.

This may be a good project but this may benefit very few anglers and may not be a strong use of R&E funds.

Construction techniques to divert all flow through water diversion and fish screen are problematic and will need to be discussed. More details are necessary on how existing water will be diverted without diversion dam in place. Specific questions on weir design, spacing, and jump heights associated with solution.

Coordinate with ODFW's fish passage program (Greg Apke) on project and design details adequate to seek fish passage approval.

Specific Review Team Questions

Work order is for screens/headgates- how does this relate to the passage? Is this part of a larger project? If so, have you looked into any screening or passage program funding?

Is the 3 miles of quality habitat above the dam equally good rearing and spawning habitat? Please explain and add photos that better define the value of this habitat and the likely lift to salmon populations if the project is completed.

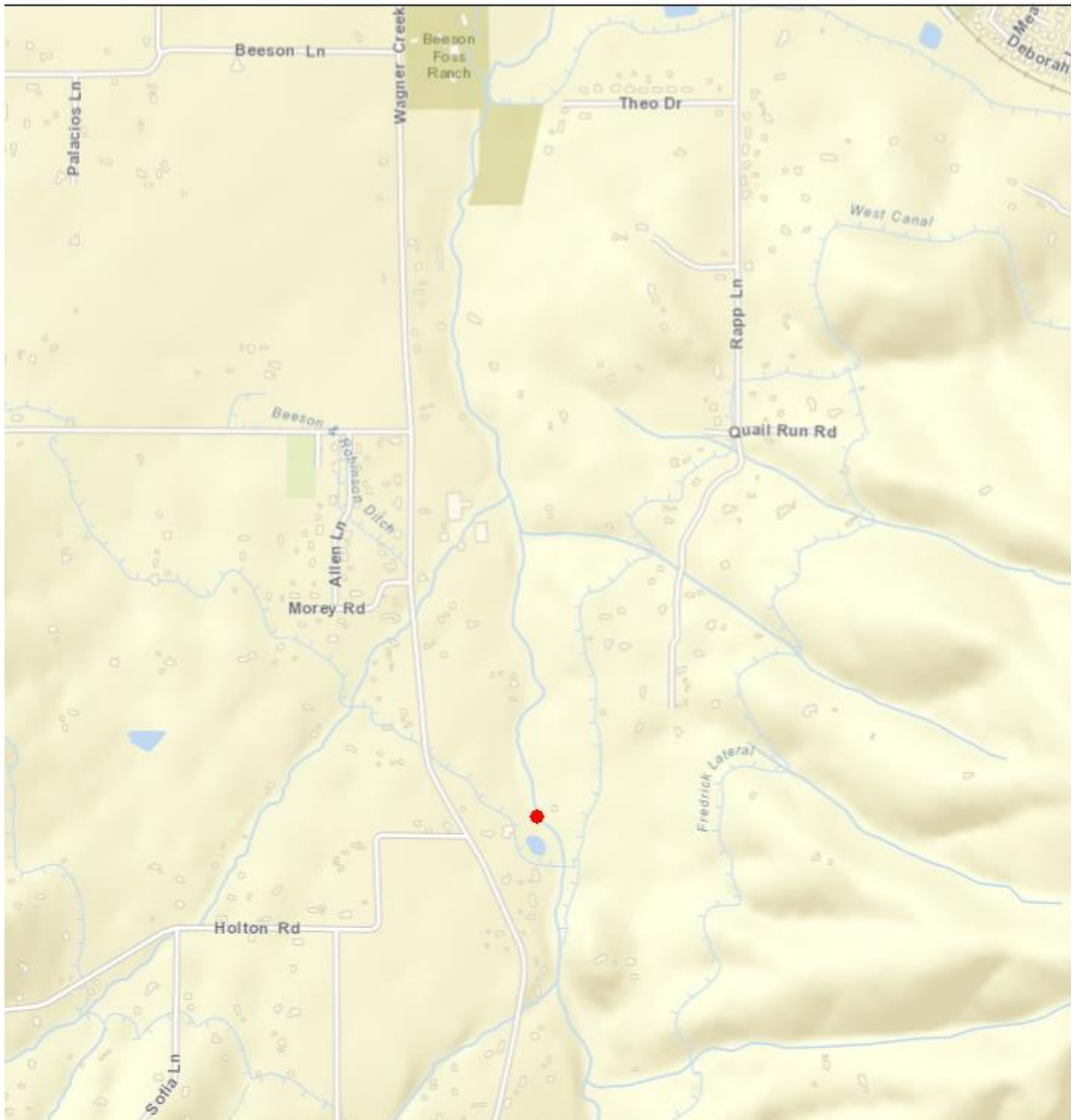
What evidence is there that adult steelhead are attempting to pass by this dam? Have there been surveys? What evidence is there of historical spawning above the dam? How many additional adult

steelhead will return to the Rogue system for anglers to pursue from opening up this 3 miles of habitat?

Why was this project selected? Are other higher ranked area fish passage opportunities unavailable for projects? Where does this fall on the statewide list of passage priorities?

What other fishes occur in Wagner Creek that can't make that jump? (e.g. suckers or sculpin). Were these fishes considered when designing the fish passage?

Project Map



Additional Files

Budget Information

Maps

[Project Map](#)

Map image of project location

Photos

[Beeson-Robison Photos](#)

Images of diversion structure

Design Information

[Beeson-Robison Fish Passage Designs](#)

Engineering plans

[Beeson-Robison Revegetation Plan](#)

Riparian revegetation plan

[ODFW Work Order](#)

Work order for ODFW engineering staff

Management Plans and Supporting Documents

[RRWC Racial and Ethnic Impact Statement](#)

Racial and Ethnic Impact

Permits and Reviews

Partnerships

[Beeson-Robison landowner agreement](#)

Agreement with landowner to perform construction

Public Comment

Administrative Documents

[RRWC IRS letter of determination](#)

Proof of 501(c)(3)

[RRWC Signature Page](#)

Completion Report

A completion report has not been submitted for this project.