

City of Port Angeles Valley Creek

Cade Roler - WDFW

Presentation Purpose

- Provide information about the Valley Creek crossing
- Provide feedback from City of Port Angeles and local stakeholders.
- Give you information to make decision on how to move forward.





Valley Creek Existing Conditions

- Culvert Length: 2,100 feet.
- Under multiple city blocks.
- Lower portion removed for estuary restoration.
- Pipe is undersized and has many passage issues.
- Limited documented fish use upstream.
- Current Rank: 4th

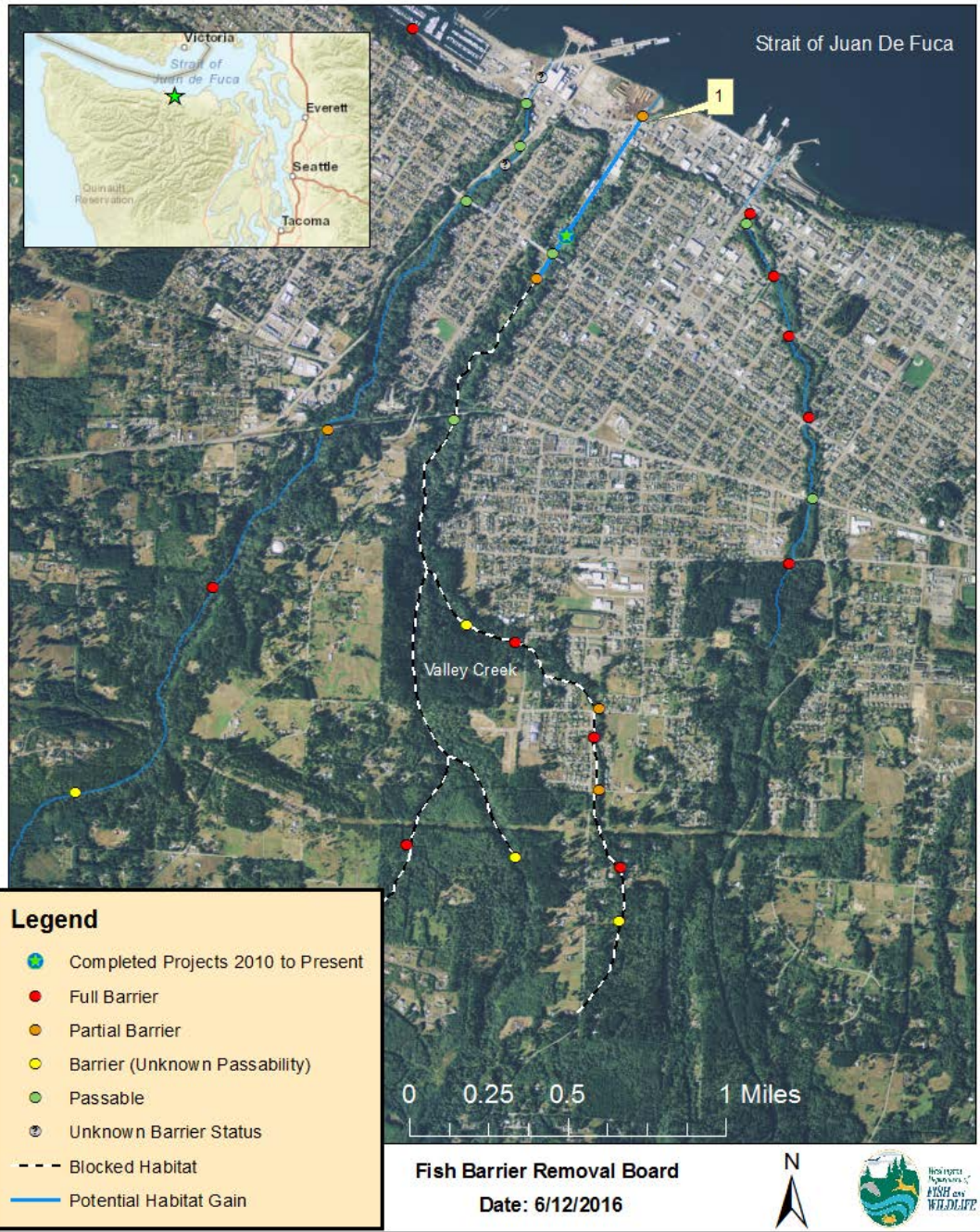


Currently less than 2ft of opening in the existing outlet

Estuary Pictures

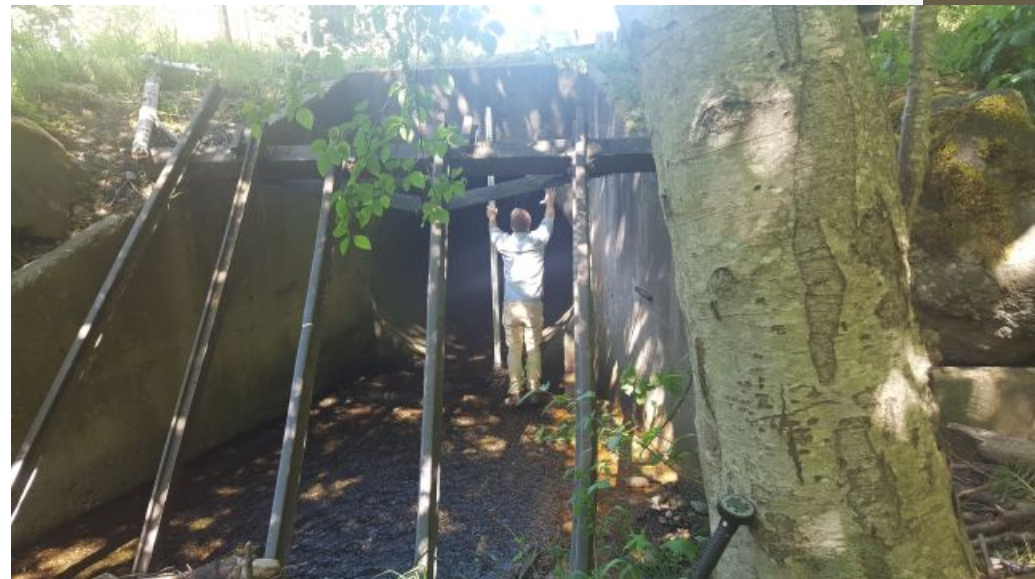


Valley Creek - Coordinated Project Pathway



Project Challenges

- Designs completed in 2011.
 - Do NOT provide unimpeded fish passage
 - Only address upper portion of the culvert.
 - Replace upstream with new culvert
 - Baffle old culvert
 - Lower portion of the culvert is still a barrier.
 - Tidal Backwater
 - Twice a day passage at most
- Upstream Restoration/Channel Rehab not fundable.
 - Upstream channel restoration/rehab was driving the desire for passage through culvert.





Solution!!

- Ennis Creek:
- Crossings owned by City of Port Angeles
 - Same as Valley Creek
- Higher priority stream for City and Tribe.
- Higher fish use and biological benefit
- Cheaper/Provide unimpeded fish passage.
- More previous restoration than Valley Creek.
- More future restoration planned than Valley Creek
- Was originally nominated by Lead Entity AND the City of Port Angeles.



More on Ennis Creek

- Nomination was filtered due to downstream barrier.
 - Can be abandoned.
- Current crossings:
 - Lowest: Concrete Slab
 - 33% passable
 - 2 precast concrete culverts
 - 33% passable
 - City has conceptual designs
- Habitat Gain: 1.19 Miles
 - Valley Creek: 0.5 Miles
- Total Cost of both: \$600,000 – 1 Million
 - Valley Creek: ~2 Million
- Upstream WSDOT Barrier with fishway.
 - Adults observed upstream of crossing.
 - Scheduled for 2025



Sewer Line encased in concrete

Ennis Creek - Coordinated Project Pathway



Fish Barrier Removal Board
Date: 9/16/2016



Legend

Fish Passage Sites

Barrier Status

- Full Barrier
- Partial Barrier
- Barrier (Unk Passability)
- Passable
- Unknown Barrier Status
- Non-fish
- No Fish Passage Feature at Site
- Completed Projects 2010 to Present
- Planned Restoration Projects

--- Blocked Habitat

— Potential Habitat Gain

Thoughts?



If Not, I need guidance

- Valley Creek Conundrum:
 - Stick with current design and not address outlet?
 - Design outlet and fix upstream design?
 - Just fix upstream - design and build.
 - Could be done in 2018 Corps permit depending.
- City preference: Not address the outlet at this time.
 - Upstream portion of the pipe is the “main” passage issue for the culvert.
 - Match is an unknown for the city at this time.
- Thoughts?

Lessons Learned

Fish Barrier Removal Board

September 20, 2016

Lessons Learned

- Overall Program
- Watershed Pathway
- Coordinated Pathway
- Other Lessons (Board Feedback)

Overall Program

- Offering two pathways is a strategic approach and beneficial to the program.
- Good outreach and presentations to legislative and other groups to keep them up-to-date with the board's progress.
- Development of useful outreach materials.
- Great work by the board members and WDFW staff.

Overall Program

- Provide an opportunity next round for Lead Entities and project sponsors to present their projects to the board.
- Increase program outreach to cities, counties, sponsors, lead entities, recovery regions, interested stakeholders.
- Create a Technical Review Team.
- Streamline grant program with RCO.

Watershed Pathway

- Fish population-based approach.
- WDFW staff worked closely with assigned Recovery Regions/Lead Entities.
- The methods used for prioritizing nominated watersheds.

Watershed Pathway

- Complete culvert inventories in nominated watersheds are essential.
- If possible, the sponsor should provide the cost estimate.
 - WDFW may be requested by the sponsor to do the cost estimate.
- Improve project development process by being very specific about what is needed, deadlines, match requirements, documentation, etc.

Coordinated Pathway

- A lot of interest and demand for barrier removal.
- Ranking criteria developed resulted in good projects identified for funding.
- WDFW formed working relationships with cities, counties, etc. through program outreach and technical assistance.

Coordinated Pathway

- Improve project solicitation process by being very specific about what is needed, deadlines, match requirements, documentation, etc.
- Provide additional time and outreach before and during project solicitations.
- Project ranking could be improved with site visits.
- Review designs for projects when available/submitted by applicants.

Other Lessons

- Tech team to utilize regional WDFW staff
- Use the FFFPP model of contract for engineers depending on need
- Create rolling project list
- Continuous project solicitation with an annual deadline
- More specific application materials
- Weighting and refining the ranking criteria
- Improve messaging on the ground – East side, connect with the right people within organizations & agencies
- Work closer with WSDOT Fish Passage Program

Fish Barrier Removal Board

Work Plan

In 2014, the Washington State Legislature created the Fish Passage Barrier Removal Board to develop a coordinated barrier removal strategy and provide the framework for a fish barrier grant program. The board is established by Chapter 77.95 RCW. This work plan is intended to serve as a guide for the Board's work over the next several years. It will be reviewed annually. The due dates for each action are intended to be general, since the Board's workload will be variable, and actual dates may be later.

Mission

The duty of the board is to identify and expedite the removal of human-made or caused impediments to anadromous fish passage in the most efficient manner practical through the development of a coordinated approach and schedule that identifies and prioritizes the projects necessary to eliminate fish passage barriers caused by state and local roads and highways and barriers owned by private parties.¹

Values

The board values all aspects of salmon recovery and the existing structure developed under the 1999 Salmon Recovery Act, and provides a statewide fish barrier removal strategy and program funding recommendations to the legislature. The board will ensure that the processes to identify, prioritize and fund projects are based on maximizing the opening of high quality habitat through a coordinated investment strategy that prioritizes projects necessary to eliminate fish barriers owned by state and local government, tribes, private parties, and others. This investment strategy values (1) opening high quality salmon habitat that can contribute to salmonid recovery, (2) coordinating with others doing barrier removals to achieve the greatest cost savings, and (3) correcting barriers located furthest downstream.

To achieve the mission, goals, and values the Board will:

- Improve coordination of existing fish passage programs to increase the benefits of barrier removal among multiple jurisdictions.
- Expedite the removal of barriers in the most efficient manner practical through economy of scale and streamline permitting processes.
- Facilitate collaboration, coordination, and communication among state, federal and local agencies, tribes, regional salmon recovery organizations, salmon recovery lead entities, regional fisheries enhancement groups, conservation districts, restoration contractors, landowners and other interested stakeholders on fish passage improvement programs and projects.
- Expedite implementation of on-the-ground projects by identifying and addressing institutional hurdles.
- Educate and increase the public and agency awareness of fish passage issues to develop support for solving problems and preventing new ones.
- Seek funding sources for fish passage projects within Washington and administer a strategic funding program to further the Board's mission once funding is secured.

¹ RCW 77.95.160 (2) (a)

Goals & Actions

The board provides support to local fish passage programs based on its priorities, available resources, and emergent opportunities.

Goal 1: The Washington Department of Fish & Wildlife shall chair and administer a Fish Passage Barrier Removal Board (FBRB).

- A. *Action:* The WDFW will organize, chair, and provide staff support for the Fish Barrier Removal Board.² The membership of the Board will include, as specified in the statute, other state agencies, the governor's salmon recovery office, tribes, and representatives of local governments.

Responsible Party/Timeline: WDFW/Ongoing

- B. *Action:* Internal communication: Create clear communication to describe board role and duties. Some of this has already been accomplished, including Board by-laws and meeting notes. Additional items to develop include a communication strategy, work plan, fact sheet, and webpage.

Responsible Party/Timeline: FBRB/Ongoing

- C. *Action:* Internal communication: The Board will review its bylaws on an annual basis.

Responsible Party/Timeline: FBRB/annually beginning June 2015

- D. *Action:* The Board should review, on an annual basis, the current membership of the FBRB and consider adding members as appropriate. The Board will consider how to determine when new members are needed.

Responsible Party/Timeline: Chair and FBRB/annually beginning June 2015

- E. *Action:* The Board will develop and implement an annual work plan.

Responsible Party/Timeline: FBRB/By June 2015 with annual updates

Goal 2: The Board will strive to operate transparently and reach out to interested parties in developing and implementing its programs.

- A. *Action:* In order to gain support for the Board's activities and build momentum, the Board will identify communication strategy elements and timeframes for implementing them. Elements may include developing key messages; identifying target audiences for each type of messaging; coordinating with other fish barrier removal programs; deciding how to share information developed by this Board; connecting with other entities including the federal government, tribes, the inter-tribal fisheries commissions, and railroads; and deciding on an education and information strategy. Several key implementers should be specifically addressed, including state agencies, tribes, and local governments. Low cost early activities should also be considered and included in the strategy. The strategy should be reviewed annually by the Board.

Responsible Party/Timeline: WDFW, with assistance from an outside communications expert and other FBRB members/Complete by September 2015 and begin implementing at that point

² RCW 77.95.160 (1): "The board must be composed of a representative from the department, the department of transportation, cities, counties, the governor's salmon recovery office, tribal governments, and the department of natural resources. The representative of the department must serve as chair of the board and may expand the membership of the board to representatives of other governments, stakeholders, and interested entities."

B. *Action:* The Board will participate in the May 2015 Salmon Recovery Conference being held in Vancouver, Washington. There is a specific slot addressing fish passage, and a number of key players involved in fish passage barrier removal projects will be present. The work of the Board can be shared with others interested in the same issues, and opportunities to coordinate and share information can be pursued. If time allows, key messages for sharing with participants should be identified by the FBRB. Annual participation in the conferences will occur.

Responsible Party/Timeline: May 2015/Chair, other members of the FBRB

C. *Action:* WDFW will prepare two reports to the legislature. The first will be more of an update and prepared by October 31, 2015. It will discuss all Board activities that have occurred to that date. The second report will be prepared by October 31, 2016, and discuss the statutorily required items related to permit streamlining. WDFW will also respond to requests from legislative committees and staff for information and briefings, with assistance from other FBRB members.

Responsible Party/Timeline: WDFW and other FBRB members as requested/: October 31, 2016

D. *Action:* Connect with the Washington Forest Protection Association for outreach and to clarify efforts to coordinate with the barrier removal projects of their members. Outreach should also be made to the Department of Ecology.

Responsible Party/Timeline: WDFW/Connect with WFPA and Ecology by September 2015

Goal 3: The FBRB will develop a coordinated approach to identifying and expediting the removal of fish passage barriers.

As noted in the enabling legislation, “The duty of the board is to identify and expedite the removal of human-made or caused impediments to anadromous fish passage in the most efficient manner practical through the development of a coordinated approach and schedule that identifies and prioritizes the projects necessary to eliminate fish passage barriers caused by state and local roads and highways and barriers owned by private parties.³” The approach should reflect opportunities that exist within existing funding and programs as well as opportunities that will be provided by a future grant program.

A. *Action:* Develop a statewide coordinated approach. Sub-actions needed to accomplish this action are listed in the table below:

SUB-ACTION	BY WHOM	TIMELINE
1. Meet with on-the-ground implementers of barrier removal projects to gain an understanding of their perspectives on a strategy. This should include, at a minimum, Regional Fisheries Enhancement Groups (RFEs), Conservation Districts (CDs), local governments, and the Associated General Contractors. Meetings can occur either as part of the agenda for FBRB meetings or by attending meetings of implementers, as appropriate. Questions for these implementers should be framed in advance that are additive to the process. One opportunity is the upcoming Salmon Recovery Conference in May, 2015.	FBRB	Start during summer/fall 2015

³ RCW 77.95.160 (2) (a) “The duty of the board is to identify and expedite the removal of human-made or caused impediments to anadromous fish passage in the most efficient manner practical through the development of a coordinated approach and schedule that identifies and prioritizes the projects necessary to eliminate fish passage barriers caused by state and local roads and highways and barriers owned by private parties.”

2. Develop a prioritization methodology aimed at prioritizing which focus areas should be addressed first. Once those areas are chosen then conduct strategic barrier inventories and develop prioritized lists of barriers. Work within the framework provided by the regional salmon recovery organizations and continue to work with them on the methodology.	FBRB	Summer 2015
3. Continue to work with the Puget Sound Partnership Salmon Recovery Council (SRC) to define a Puget Sound approach. Initial discussions have already occurred with the SRC, and work will continue as needed to incorporate into the overall FBRB prioritization approach.	WDFW	Summer 2015
4. Get feedback from the public on the draft prioritization methodology; consider comments and adopt a final prioritization methodology.	FBRB	Summer 2015
5. WDFW was not given any additional resources to support the Fish Barrier Removal Board. Although some existing resources are available, additional resources are needed to support the development of the Fish Barrier Removal Board statewide strategy, prioritization methodology, and development of grant program framework. WDFW will first do an assessment of what resources are needed to implement this work plan and present this to the FBRB. Second, WDFW and the FBRB will seek out these additional resources.	WDFW for assessment; all FBRB members for locating resources	Assessment due December 2015, search for resources ongoing after that
6. Develop a plan to coordinate information sharing and coordination between the FBRB and other entities involved in fish passage barrier removal projects. The plan should address how the FBRB will coordinate with other state and federal programs on project funding lists; how communication and outreach will work; and how the information already known can be shared.	FBRB	By December 2015, with annual updates
7. The FBRB will discuss technical assistance through the program and how it will be provided. This is referenced in RCW 77.95.170 (5) (b). Determine the scope of technical assistance that WDFW needs to provide, including barrier inventory training and other training/technical assistance needed. Develop the “technical assistance toolbox” that WDFW will offer.	WDFW with FBRB assistance	By December 2015
8. The authorizing legislation explains that there is a partnership between WSDOT and WDFW to identify and complete fish passage barrier removals. ⁴¹ WSDOT will annually review their work and look for opportunities to coordinate with the FBRB. It is not intended that the FBRB has any oversight, but rather this information will inform the work of the FBRB.	WSDOT	First report September 2015; annually thereafter
9. Develop recommendations to the legislature, as part of a periodic report. Recommendations will be by WRIA with assistance from the regional salmon recovery organizations.	FBRB	Biennially
10. Develop a funding package for a potential grant program (see goal 5). An initial request that initiates some components of a program should be made in time for the 2016 legislative session; a full grant program request should be made for the 2017-2019 legislative session.	FBRB	September 2015 for the 2016 session; Summer 2016 for a full grant program

⁴ RCW 77.95.180 (1) (b)

Goal 4: The FBRB will strive to seek out available data and information and develop ways to make data and information readily available.

- A. *Action:* The FBRB will receive a database management update from WDFW. This will include a general briefing from WDFW and a demonstration of the database, as well as a discussion of information from other entities that is included in the database.

Responsible Party/Timeline WDFW/October 2015

- B. *Action:* After the update discussed in Action A above, the FBRB will form a subcommittee to further discuss and explore this topic. Considerations will include data and information from WDFW and from other entities including other state agencies, tribes, and the private sector if available. This will also address appropriate timing for obtaining RMAP information from WDNR.

Responsible Party/Timeline: FBRB/form the subcommittee and begin work following the briefing.

- C. *Action:* The FBRB receives a briefing on WDFW's training program as described by the enabling legislation. The purpose of the training is to increase the awareness and consistency of fish passage barrier data collection, use of WDFW's database, and modern techniques of fish passage barrier correction methods.

Responsible Party/Timeline: WDFW/By December 2015

Goal 5: The FBRB will develop a Grant Program for distributing available funding in an efficient and effective manner.

- A. *Action:* Identify available and funding that could be used for the program and a proposed funding mechanism.

Responsible Party/Timeline: WDFW (with assistance from other FBRB members)/ By December 2015

- B. *Action:* Develop a grant program that will allocate available funding, and address elements including match requirements, whether and how funding might be allocated between regions, provisions for opportunities that emerge ("just-in-time" or "shovel-ready" projects) and other factors. Consider provisions that should be presented to the legislature in time for the 2016 supplemental session and provisions that should be presented as part of a more complete package for the 2017 legislative session.

Responsible Party/Timeline: FBRB/By September 2015

Goal 6: The FBRB will participate in efforts to streamline Project Permitting and seek ways to efficiently use mitigation funding for barrier removal projects.

- A. *Action:* Seek permitting efficiencies and streamlining regarding federal permits. Coordinating with the Governor's office, initiates contact with USACE, NOAA, and USFWS to explore and develop the feasibility of bundling of projects under any available nationwide permits for the purpose of achieving streamlined federal permitting.

Responsible Party/Timeline: WDFW/ Ongoing; work on this action has begun.

- B. *Action:* Seek authority to use local and state mitigation monies for barrier removal projects.. There should be the ability to determine that local and state mitigation funding would be better used for barrier removal projects in some instances.

Responsible Party/Timeline: FBRB/By December 2015

TIMELINE FOR ACTIONS

This table presents, in chronological order, the actions included above under Goals 1 – 6. They are summarized below; see discussion under each Goal for details of each action.

ACTION	TIMELINE	RESPONSIBILITY
Organize, Chair and Support Fish Passage Barrier Removal Board	6/2014	WDFW
Develop internal bylaws and communication	Ongoing	FBRB
Review bylaws annually	June 2015	FBRB
Consider FBRB membership annually	June 2015	FBRB
Develop annual work plan and update annually	June 2015	FBRB
Develop communication plan	September 2015	WDFW w/FBRB assistance
Participate in annual Salmon Recovery workshops	May 2015	Chair/other members
Connect with WFPA and Ecology	August 2015	WDFW
Meet with on-the-ground implementers of projects	Begin in Summer 2015	FBRB
Develop a prioritization methodology	Summer 2015	FBRB
Continue work with PSP/Salmon Recovery Council on Puget Sound approach to prioritization	Summer 2015	FBRB
Get feedback from public and adopt prioritization approach	Summer 2015	FBRB
Do assessment of what resources are needed to support FBRB	December 2015	WDFW
Seek resources as described by assessment	December 2015/ongoing	WDFW and FBRB
Develop plan to coordinate information sharing and coordinate activities	December 2015/ongoing	FBRB
Discuss technical assistance	December 2015	WDFW w/FBRB assistance
Annual report to BRB on WSDOT and WDFW coordination efforts	September 2015	WDFW, WSDOT
Database presentation to FBRB	September 2015	WDFW
Training program presentation to FBRB	December 2015	WDFW
Identify available funding for grant program and propose funding mechanism	December 2015	WDFW with FBRB assistance
Develop a grant program	September 2015	FBRB
Seek efficiencies/streamlining for federal permits	Ongoing	WDFW
Seek authorization for using local/state mitigation funding for barrier removal projects	December 2015	FBRB