

USACE Portland District (NWP) FFDRWG Update Form
September 7, 2017

PROJECT INFORMATION

Project Title	Lamprey Minor Fishway Modifications
SCT Reference Number	
Project Manager (PM)	Mike Turaski (NWP, 503-808-4704)
Technical Lead (TL) Minor Modifications	Sarah Knowles (NWP, 503-808-4980)
Biologist/Coordination	Ricardo Walker (NWP, 503-808-4709)

PROJECT DESCRIPTION

The scope of this project includes relatively small-scale modifications to adult fish ladders to improve lamprey passage conditions at Bonneville (BON), The Dalles (TDA), and John Day Dams (JDA). Examples of such modifications include floor diffuser plating, rounding corners, and modifications to entrance weir crests. This is a multi-year, phased project. Generally, the PDT will focus on modifying a single ladder per year:

Phase 1: BON WA shore completed

Phase 2: BON Bradford Island, JDA S., and TDA E., ladders awarded August 2017

- Orifice ramps through weirs 54-67 as needed
- Lamprey orifices through serpentine weirs
- TDA East Ladder: entrance weir improvements (IWW 17/18)
- JDA South Fish Ladder: ramp/grind a 2.5 inch step near the fish ladder exit

Phase 3: JDA and BON Adult Fish Facility (AFF) Trapping Improvements

- Install LPS style trap at the BON AFF
- Install LPS style trap at the TDA east fish ladder
- Install hoist to move trapped fish from the fish ladder to the roadway deck

SCHEDULE, PROGRESS, AND KEY ISSUES (List)

Phase 1:

- The Bonneville Washington shore minor modifications completed IWW 16/17.

Phase 2:

- Proposed Bradford Island minor modifications awarded August 2017:
 - Lamprey orifices, orifice ramps, rest boxes, wetted wall and video mounting infrastructure.
 - Install winter maintenance period 17/18.
- Weir cap modification plan.

Weir Caps	Design	Fabrication	Current Schedule for Installation	Earliest Possible Installation
BON WA Shore	Complete	Complete	2018-19 (FY19)	2018-19 (FY19)
TDA East, west and south entrances (5 weirs)	TBD based on FY17 fund availability. Fabricate in FY17 would enable FY18 install.		2018-19 (FY19, post CRFM)	2017-18 (FY18)
TDA East, east entrance (3 weirs)			2018-19 (FY19, post CRFM)	2018-19 (FY19, post CRFM) Conflict w AWS work in FY18
TDA North (1 weir)			2018-19 (FY19, post CRFM)	2017-18 (FY18)

Phase 3:

- Install LPS style trap at the BON AFF (March/April 2018)
- Install LPS style trap at the TDA east fish ladder (plans currently under development, IWW 17/18)
- Install hoist to move trapped fish from the fish ladder to the roadway deck (plans currently under development, IWW 17/18)

FFDRWG REVIEW NEEDED AT MEETING? (If YES, list discussion topics below)

- Preliminary lamprey trap design and location at the BON AFF (see attachment A)
- Relocating lamprey orifices at BON BI from baffles 1, 3, and 5 to 4, 5, and 6

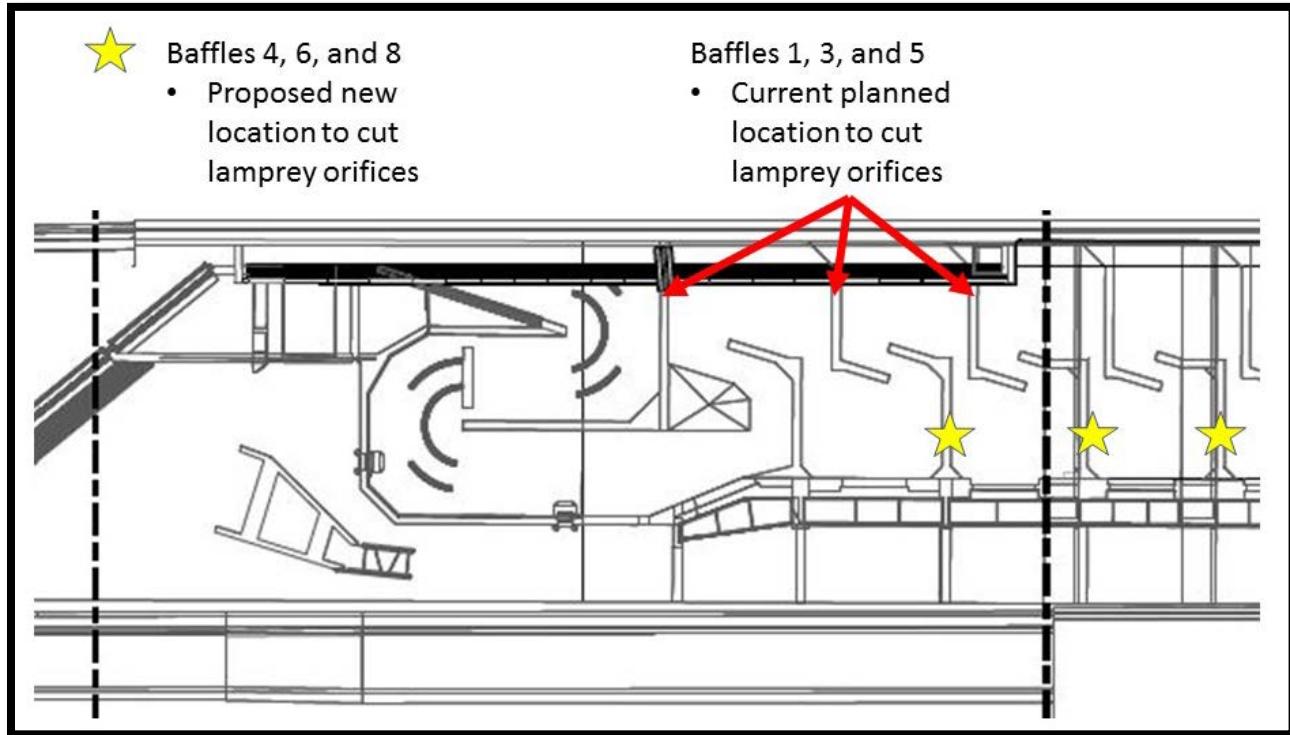


Figure 1. Bonneville Bradford Island fish ladder exit control section. Red arrows show the current location of lamprey orifices to be cut during the following in-water work period (17/18). Yellow stars are proposed new locations replacing currently planned locations.

