

**OFFICIAL COORDINATION REQUEST FOR  
NON-ROUTINE OPERATIONS AND MAINTENANCE**

**COORDINATION TITLE- 23BON007 MOC Bradford Island Hydro Survey**  
**COORDINATION DATE- 17 February 2023**  
**PROJECT- BON**  
**RESPONSE DATE- 24 February 2023**

**Description of the problem**

BON Fisheries is requesting a hydro-survey of the BI exit to help facilitate awarding a dredging contract for the winter of 23/24. The goal is to survey the cove area, close to the exit, so it may be included in the dredge contract. This area typically grows a lot of aquatic weeds, which cause problems when they lodge on the FV3-7 and FV3-9 trashracks.

The hydro-survey crew is available to conduct the survey on 27 February, after the Washington Shore ladder has returned to service but possibly before the fish units are back in service. This would result in no fishways in FPP criteria for two hours.

**Type of outage required** - BI fishway would be out of FPP criteria with the ladder effectively at orifice flow.

**Impact on facility operation** - The survey requires FV3-7 and FV3-9 be mostly closed for the duration of the work, this will cause water levels in the BI ladder and entrance differentials to drop below FPP criteria.

**Impact on unit priority** None

**Impact on forebay/tailwater operation** None

**Impact on spill** None

**Dates of impacts/repairs** – The survey crew is available on 27 February, however, the Project can schedule the survey for a different time if need be. It does have to be prior to the start of the winter maintenance period for 2023/2024.

**Length of time for repairs** ~2 hours

**Analysis of potential impacts to fish**

1. 10-year average passage by run during the period of impact for adults and juvenile listed species, as appropriate for the proposed action and time of the year;

*Table 1: 10-Year average for work period 10/02 – 11/06*

<b>Date</b>	<b>02/27 10-year avg</b>	<b>10 Year avg total run</b>	<b>Percent Run Affected</b>
Chinook	1	817,285	1.2e-6 %
Steelhead	57	173,873	3.2e-4 %

Coho	0	113,422	0%
Lamprey	0	35,458	0%

2. Statement about the current year's run (e.g., higher or lower than 10-year average)  
NOAA and WDFW forecasts for Fall Chinook and Coho in 2023 are not yet available.  
Spring Chinook returns are forecast to be slightly higher than 2022 returns.
3. Estimated exposure to impact by species and age class (i.e., number or percentage of run exposed to an impact by the action); **See Table 1**
4. Type of impact by species and age class (increased delay, exposure to predation, exposure to a route of higher injury/mortality rate, exposure to higher TDG, etc.);  
Adults that are in the BI ladder when it goes to orifice flow will either flow or move down the ladder until flows resume. They may be delayed, and if they move all the way out into tailwater then they could be exposed to increased sea lion predation.  
Downstream migrating juveniles will not be significantly impacted by this work. Only fish moving upstream through the Bradford Island will be affected.

**Summary statement - expected impacts on:** If Washington Shore has not returned to FPP criteria, there will be no fishway in criteria for two hours on 27 February at BON. If Washington Shore has returned to criteria (at least one fish unit operating) then BON will still be within FPP guidelines for winter maintenance activities.

**Downstream migrants** None expected.

**Upstream migrants (including Bull Trout)** Fish looking for a fishway during the outage may be more susceptible to pinniped predation as there could be no fishway in FPP criteria for up to two hours.

**Lamprey** None expected since we are outside the primary lamprey migration period.

#### Comments from agencies

##### NOAA Fisheries –

-----Original Message-----

From: Trevor Conder - NOAA Federal <trevor.conder@noaa.gov>  
Sent: Wednesday, February 22, 2023 12:18 PM  
Subject: [Non-DoD Source] Re: FW: FPOM: Official Coordination - 23BON007 BI exit hydrosurvey - comments requested by 24 Feb

Noaa supports.

##### Final coordination results

BON returned WS and CI to service prior to conducting the hydrosurvey on 27 February.

Please email or call with questions or concerns.

Thank you,

Tammy Mackey

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