

MEMORANDUM FOR THE RECORD

SUBJECT: 17BON09 MFR – Bonneville Cascades Island Interim Repairs

Description of the problem

This project will provide an interim repair to the subsidence that is occurring on Cascade Island near the gate repair and storage pits. The scope of work includes an excavator on-site to remove 18 inches of material, place geotextile and geogrid down and then place 3/4 inch gravel on top so that the crane and other vehicles can safely operate near the Cascades Island Fish Ladder.

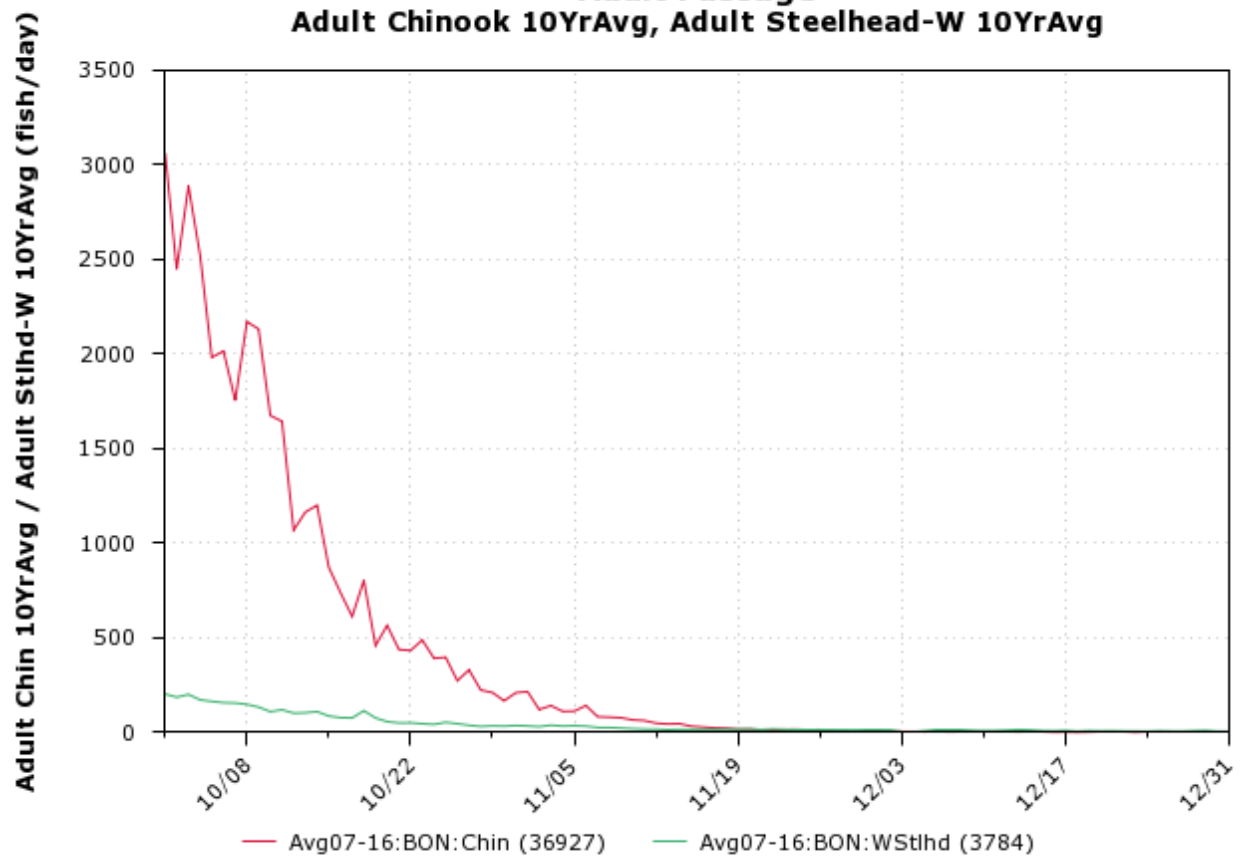
Construction Completion: The goal is to complete the work before the In Water Work Window starts in the winter of 2018-2019, since the subsidence will need to be addressed before the Cascades Island Fish Ladder undergoes maintenance during that IWW so that maintenance can be safely completed.

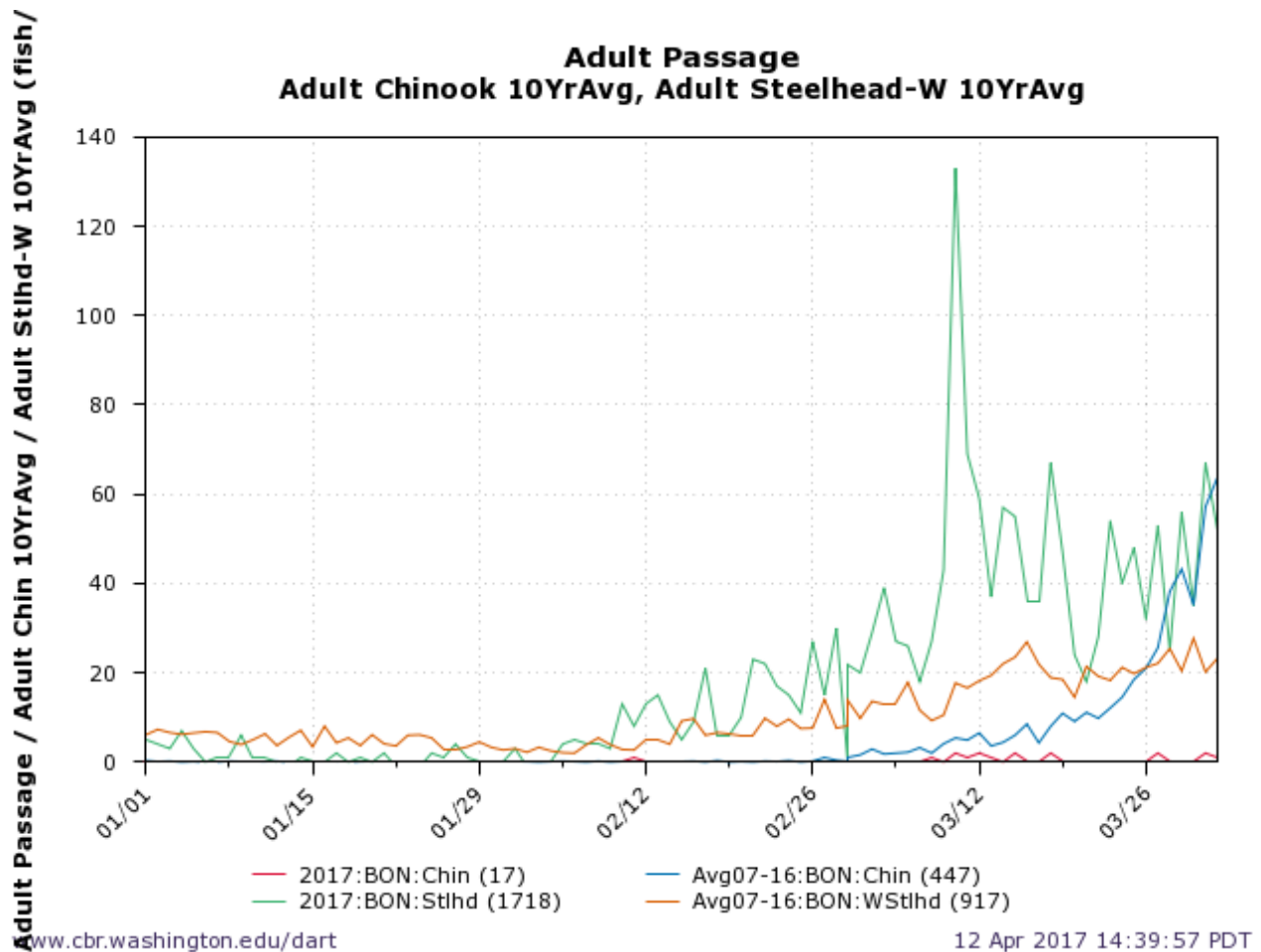
Potential Construction Periods: Our estimate at this point is that the work will take approx. 2 weeks onsite. During the winter of 2017-2018, the Bradford Island Fish Ladder will be down during the IWW for maintenance, meaning Cascades Island Fish Ladder will be operating. Our work is adjacent to the fish ladder (within 50 feet) and therefore the PDT considered the three options below for when work can occur.

1. During the IWW (Dec to Feb) during the night
2. Just before the IWW (due to the contracting timeline, it is unlikely a contract will be awarded in time for this to occur in 2017)
3. Just after the IWW

The graphs below show adult Chinook and Steelhead passage trends during the proposed work window.

Adult Passage Adult Chinook 10YrAvg, Adult Steelhead-W 10YrAvg





Type of outage required – None

Impact on facility operation - None

Impact on unit priority- None

Impact on forebay/tailwater operation – None

Impact on spill – None.

Dates of impacts/repairs: Two weeks between November 2017 and March 2018.

Length of time for repairs: Two weeks.

Comments from agencies

Please email or call with questions or concerns.
Thank you,
Andrew

Andrew Derugin
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and

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