

release as an alternate summer chum release location. Once hatched and ready for emigration (mid Feb-March) the resulting fry would be transported to Thomas Bay for rearing and release. This is proposed as an alternate strategy to improve marine survival of chum fry released from Hidden Falls hatchery THA. Adult returns would be harvested for cost recovery or common property harvest only.

There should be no change to existing wild stock seine fisheries. Conflict with sport/troll fisheries could be minimized by THA line or time restrictions. Nearby Cascade Creek and Patterson River have coho listed as the only salmon species in the Anadromous Waters Catalog.

Returning adults will be harvested in existing fisheries in the Chatham Strait/Frederick Sound corridor as well as the THA/SHA created for the release site. At full production of 40 million and using average assumptions on survival (2%), weight, and price the common property value of the returning 750,000 adults is ~\$3.5 million per year beginning in 2023.

NSRAA will 100% otolith mark fry, with a unique Hidden Falls/Thomas Bay mark, to determine marine survival and interception rates in existing fisheries in the Chatham corridor. Otolith sampling will occur on catches in the THA/SHA during common property fisheries and cost recovery operations. If approved at the fall 2016 RPT meeting a unique mark would not be possible until BY2017. All BY2016 fish transported would still possess a Hidden Falls Mark.

This PAR was discussed at the fall 2015 RPT meeting.

PERMIT ALTERATION REQUEST

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III. IMPACTS ON EXISTING HATCHERY PROGRAM

A. Present Permitted Capacity
(numbers of green eggs by species)

Pink		Coho	7.7 million + 1 million non-NSRAA
Chum	101 million (HF) + 24 million (MCIF) + 55 million non-NSRAA	Chinook	3.8 million
Sockeye		Other	

B. Capacity After Request
(numbers of green eggs by species)

Pink		Coho	No Change
Chum	No Change	Chinook	No Change
Sockeye		Other	

C. Water Use

1. List the total amount of water available and the source.

Approximately 40 cfs is available (based on water rights, far more water is available in the watershed) from Hidden Falls Lake. Water can be taken from one of two inlet pipes in the lake (A-line upper water column or B-line lower water column). A portion of the intake water is run through the hydro plant and re-used for incubation and rearing. Intake water can bypass the hydro plant for multiple production uses.

2. List the amount of water presently being used.

41 cfs is used at peak demand.

3. List the additional amount of water needed for this alteration.

No additional water is needed for this request.

No additional water is needed for this request.

PERMIT ALTERATION REQUEST

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IV. ***HATCHERY DESIGN***

- A. Please provide a detailed description of new facilities needed with this alteration (e.g., buildings, incubators, rearing space, piping, etc.). This description should represent a solid concept of the proposed hatchery changes/expansion. Drawings showing the layout of new structures should be attached when appropriate.

No Changes to hatchery design or facilities.

V. ***DECLARATION AND SIGNATURE***

I declare that the information given in this application is, to my knowledge, true, correct, and complete.

Scott Wagner
Name of Applicant

10/12/16
Date Signed

Scott Wagner
Signature of Applicant