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May 4, 2004

MEMORANDUM

TO: Fish and Wildlife Committee Members

FROM: Mark Fritsch

SUBJECT: Presentation on the Chief Joseph Dam Hatchery Program, Project # 2003-023-00¹

In October 2002, the Council approved Proposal #29040¹ as part of the issue summary for the Columbia Cascade provincial review. This project, now titled Chief Joseph Dam Hatchery Program, is a proposed hatchery intended to increase abundance, distribution and diversity of naturally spawning populations of summer/fall Chinook salmon in the Okanogan River and in the Columbia River above Wells Dam.

At your meeting in Walla Walla the Confederated Tribes of the Colville Reservation (Colville Tribes) will be presenting an overview of their Master Plan (Step 1) for a summer/fall Chinook salmon hatchery to be located at the base of Chief Joseph Dam (see attachment power point presentation). The Colville Tribe will be submitting their Master Plan the end of this month to initiate Step 1 review of the Three-Step Review Process.

In addition, the Colville Tribe will request that the propagation of spring chinook be a component of the Mater Plan step review. While the focus of the Chief Joseph Dam Hatchery Program Master Plan is on propagation of summer/fall Chinook salmon, an important secondary priority for the Colville Tribes is consideration of the proposed facility to include propagation of spring Chinook salmon².

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¹ OK-11 Develop And Propagate Local Okanogan River Summer/Fall Chinook, Proposal # 29040

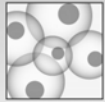
² It is anticipated that Council staff will provide a recommendation to the Fish and Wildlife Committee regarding this request at your June meeting prior to the initiation of the ISRP review and development of the issue paper.



Presentation Purpose

- introduce the Council to the pending Master Plan
- submission – May 26, 2004
- preview anticipated decisions



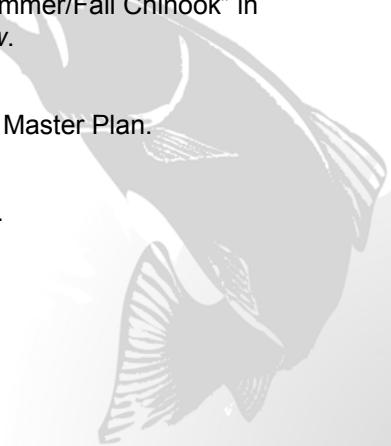


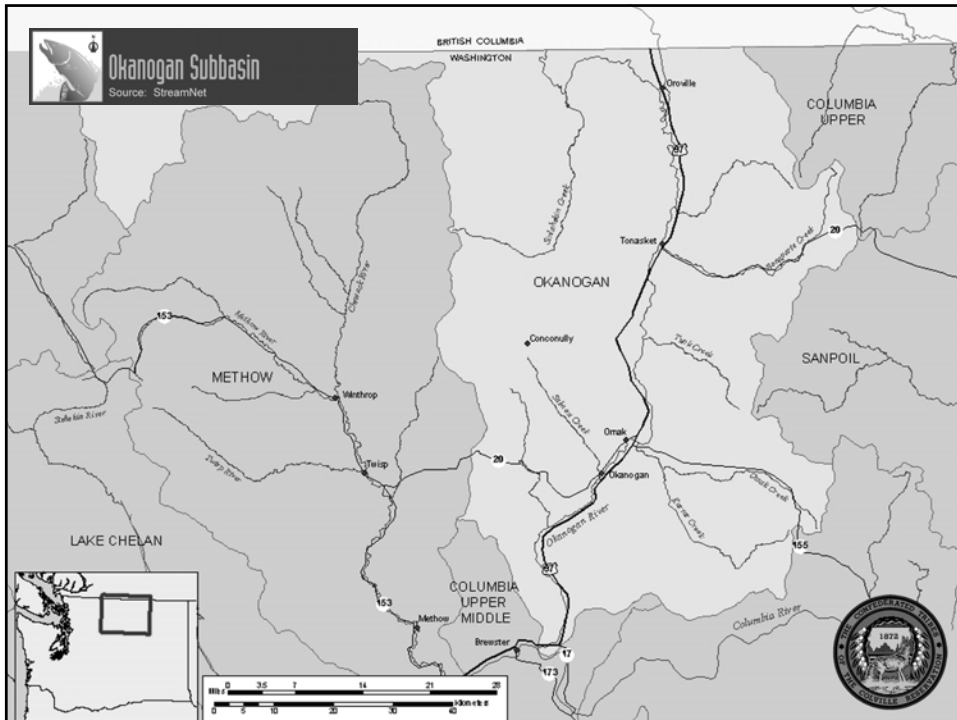
Project History



Chronology

- **December 2001**
Colville Tribes submitted proposal #29040, “Develop and Propagate Local Okanogan River Summer/Fall Chinook” in *Columbia Cascade Provincial Review*.
- **October 2002**
Council approved funding for Step 1, Master Plan.
- **July 2003**
BPA funded Colville Tribes’ proposal.
- **May 2004**
Master Plan submission.





Program Principles

- **accountability**
- **best-available science**
- **cost-effectiveness**
- **flexibility**
- **innovation**





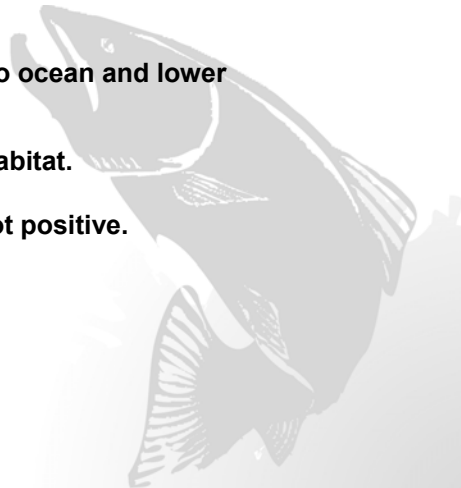
Program Purpose

Support conservation and harvest of Upper Columbia summer / fall Chinook in the Okanogan and Columbia Rivers.



Program Need

- **Okanogan Chinook must pass 9 dams during juvenile and adult migrations.**
- **Okanogan Chinook are subject to ocean and lower Columbia fisheries.**
- **Okanogan River has degraded habitat.**
- **Long-term population trend is not positive.**





Program Need

- **No salmon mitigation for Colville Tribes from construction and operation of U.S. Army Corps of Engineers':**

Bonneville Dam

The Dalles Dam

John Day Dam

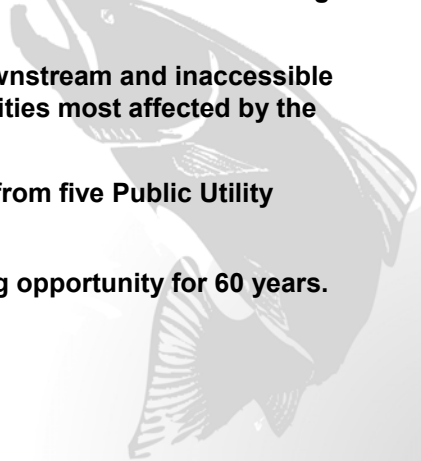
McNary Dam

Chief Joseph Dam



Program Need

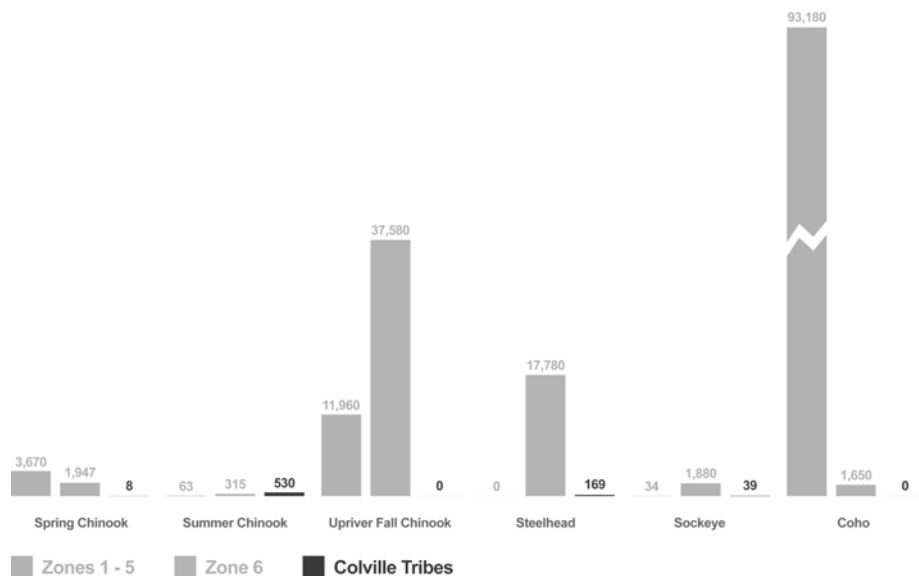
- **Fourth and final hatchery authorized as mitigation for Grand Coulee Dam was never constructed in the Okanogan River.**
- **Existing mitigation located downstream and inaccessible to Colville Tribes and communities most affected by the dam.**
- **Inadequate salmon mitigation from five Public Utility District dams.**
- **Colville Tribes have lost fishing opportunity for 60 years.**





Columbia River Anadromous Fish Harvests

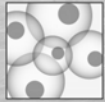
Average 1991 - 2000



Program Need

Federal Trust responsibilities for Colville Tribes' salmon and steelhead resources and fisheries have been seriously abrogated.





Program Overview



Program Goal 1

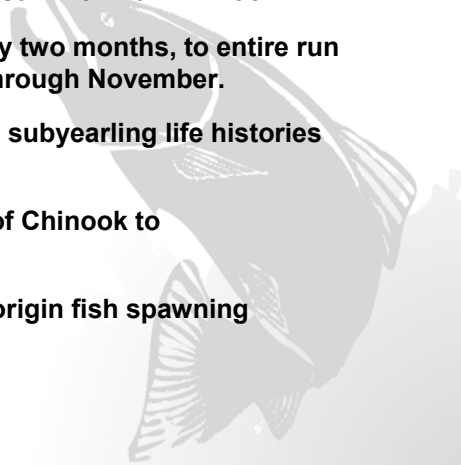
Increase abundance, distribution and diversity of naturally spawning summer / fall Chinook in Okanogan and Columbia Rivers.





Goal 1 • Conservation Actions

- **Initiate local broodstock for Okanogan River.**
Avoid co-mingling with Methow summer / fall Chinook.
- **Expand broodstock collection by two months, to entire run of summer / fall Chinook, July through November.**
- **Propagate both the yearling and subyearling life histories to achieve full, natural diversity.**
- **Improve spawning distribution of Chinook to historical habitats.**
- **Control proportion of hatchery-origin fish spawning in the wild.**



Program Goal 2

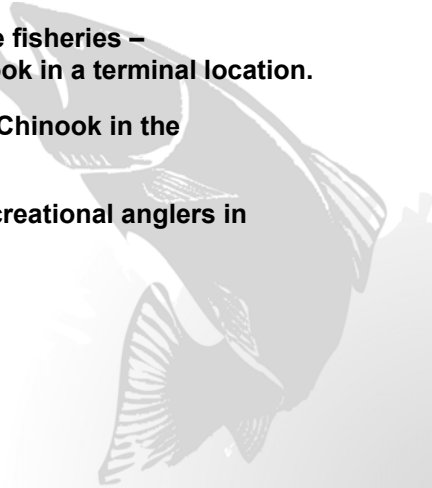
Increase and stabilize tribal ceremonial and subsistence fishery and recreational fishery.





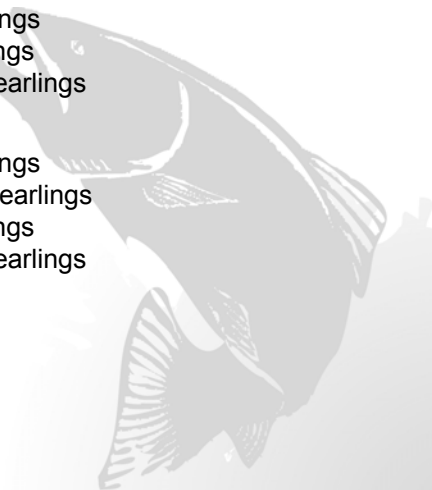
Goal 2 • Harvest Actions

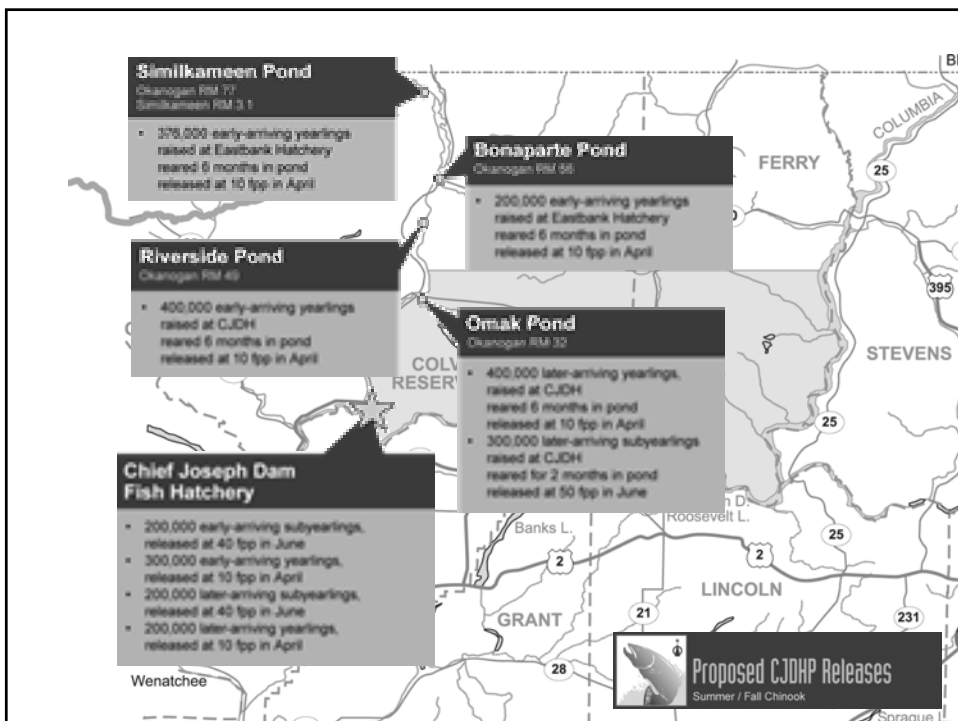
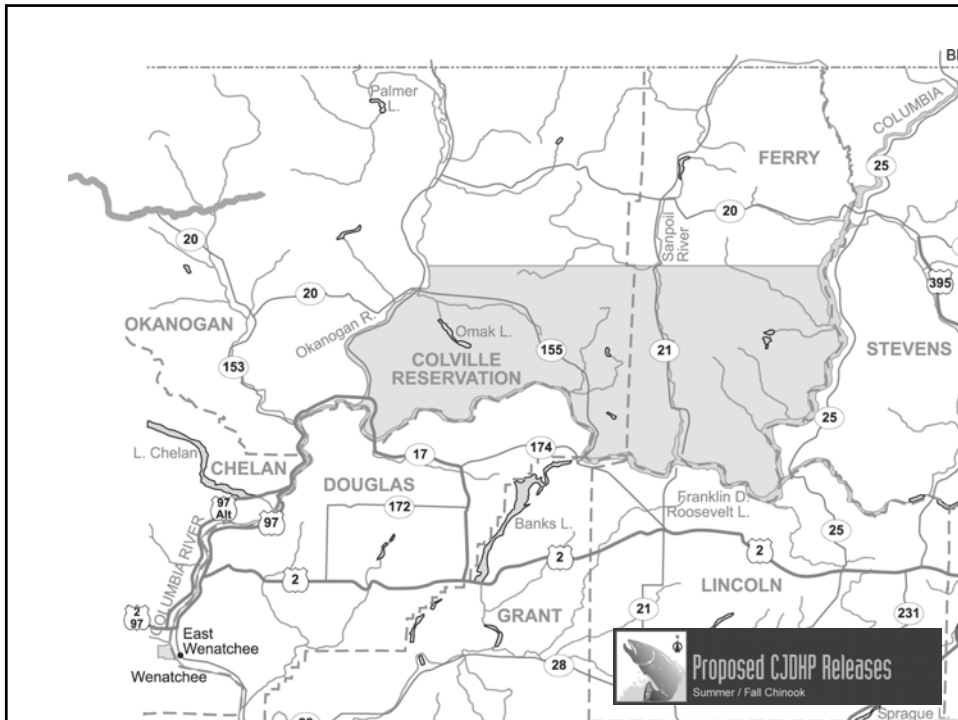
- **Mark all hatchery Chinook.**
- **Initiate tribal live-capture, selective fisheries – targeting on hatchery-origin Chinook in a terminal location.**
- **Optimize escapement of hatchery Chinook in the naturally-spawning population.**
- **Share harvest opportunity with recreational anglers in local communities.**



Chief Joseph Dam Hatchery Production

- **Conservation**
 - 400,000 early-arriving Chinook yearlings
 - 400,000 later-arriving Chinook yearlings
 - 300,000 later-arriving Chinook sub-yearlings
- **Harvest**
 - 300,000 early-arriving Chinook yearlings
 - 200,000 early-arriving Chinook sub-yearlings
 - 200,000 later-arriving Chinook yearlings
 - 200,000 later-arriving Chinook sub-yearlings
- **Total**
 - 2 million summer / fall Chinook**



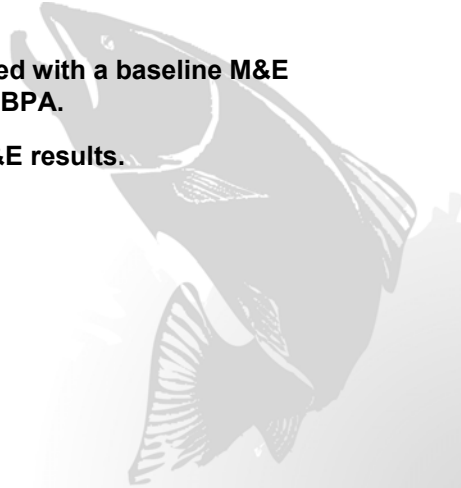






Accountability, Flexibility, Monitoring and Evaluation

- Comprehensive set of performance standards and performance measures.
- Hatchery M&E program integrated with a baseline M&E program recently funded by the BPA.
- Contingency plans based on M&E results.



Conceptual Plan Costs

- Hatchery - \$16.2 million
- Acclimation ponds - \$1.2 million
- **Total Capital - \$17.4 million**

- O&M - \$858,000
- M&E - \$316,000
- **Total Annual Operating - \$1,174,000**





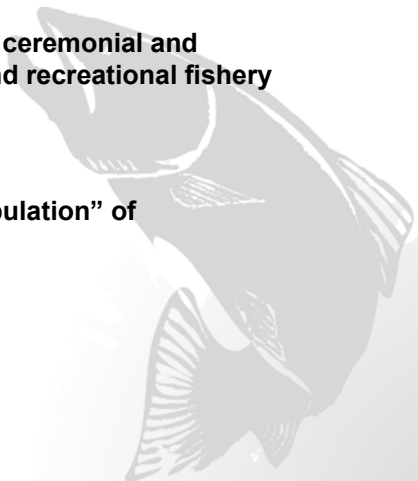
Spring Chinook Option

- **Okanogan spring Chinook program not approved in *Columbia Cascade Provincial Review*.**
- **Colville Tribes desire to reintroduce spring Chinook and restore their lost fishery.**
- **Cost-effective to include conceptual design of separable spring Chinook facilities in Chief Joseph Dam Hatchery Master Plan.**



Spring Chinook Option

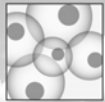
- **Goal #1 reintroduce spring Chinook to historical habitats**
- **Goal #2 restore Colville Tribes ceremonial and subsistence fishery and recreational fishery**
- **Phase I use Carson stock**
- **Phase II use “experimental population” of ESA-listed Chinook**





Spring Chinook Option

- Master Plan will include an HGMP and conceptual design for separable spring Chinook facilities.
- Facilities designed to rear 900,000 yearlings.
- Capital cost of separable facilities - \$5.6 million
Separable annual O&M cost - \$222,000



Next Steps



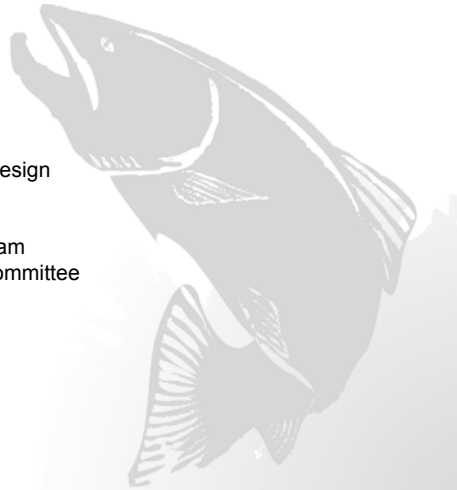


Volume 1: Master Plan

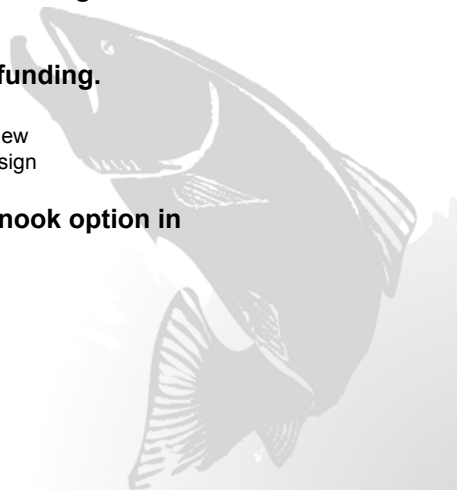
Volume 2: Appendices

- a. Letters of Support
- b. Detailed Cost Estimates
- c. Summer / Fall Chinook HGMP*
- d. Spring Chinook HGMP*
- e. Immediate Research Critical to Design
- f. Hatchery Water Supply Report
- g. Hatchery Conceptual Design
- h. Conceptual Hatchery M&E Program
- i. Hatchery Steering and Design Committee

*contributed by Colville Tribes



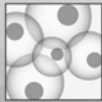
- **Consider spring Chinook option during review of Master Plan.**
- **Approve Master Plan for Step 2 funding.**
 - preliminary design
 - environmental assessment and ESA review
 - two research initiatives critical to final design
- **Approve inclusion of spring Chinook option in Step 2 planning.**





Step 2 • Partnerships

- Colville Tribes will confirm partnership with Oroville Tonasket Irrigation District for joint use of acclimation ponds.
- Colville Tribes will seek interest in cost-sharing partners for hatchery construction and O&M.
- Colville Tribes will seek funding for testing live-capture, selective fishing gears.



Thank you.

