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## Northwest **Power** and **Conservation** Council

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June 6, 2023

### **MEMORANDUM**

**TO: Council Members**

**FROM: Mark Fritsch**

**SUBJECT: Update Klickitat Hatchery master plan**

### **BACKGROUND:**

**Presenter:** Bill Sharp, Klickitat coordinator; Joe Blodgett, project manager, Yakama Nation Fisheries, Confederated Tribes and Bands of the Yakama Nation (YN); Mary Todd Haight, fish and wildlife administrator, Bonneville Power Administration (BPA).

**Summary:** Bill, Joe and Mary Todd will provide an overview of the near final design and agreements associated with the Klickitat Spring Chinook Master Plan (MP) prior to construction implementation as requested by the Council. No decision is needed at the meeting.

**Relevance:** On April 10, 2019, the Council approved the Klickitat River Spring Chinook Master Plan (*YKFP-Klickitat Design and Construction, Project #1988-115-35*) for implementation. The Klickitat Spring Chinook Master Plan (MP) has as its primary goal to increase the number and distribution of spring Chinook salmon within the Klickitat Subbasin. To achieve this goal, the YN is proposing to convert the existing segregated harvest program to an integrated broodstock program. The program is designed to increase the viability of the natural population while simultaneously producing the adult fish needed to meet the established 4,000 fish harvest objective for all fisheries combined. To achieve these objectives, it is estimated that the hatchery program should release 800,000 yearling smolts annually. The

Yakama Nation proposes to construct improvements to the existing Klickitat Hatchery near Glenwood, Washington. The hatchery improvements are associated with past Council reviews and [recommendations](#) that addressed improvements to the Lyle Falls Fishway and broodstock collection facility, and the Castile Falls Fishway and escapement monitoring facility.

Workplan: Fish and Wildlife Division work plan 2023; Program planning & coordination, Program implementation.

Background: On March 21, 2018 the YN submitted the 2018 edition of the “Klickitat River Spring Chinook Master Plan”, intended to be a response and update to the ISRP’s last review (ISRP document 2013-01) and the previous Council [recommendation](#) and [decision](#). It is important to note that the focus of the 2018 Master Plan is no longer a multispecies approach but is now solely addressing the needs of Spring Chinook in the Klickitat Subbasin<sup>1</sup>. On May 11, 2018, the ISRP requested a response (ISRP document 2018-4), and on September 14, 2018, the YN provided additional information and clarity intended to address the request from the ISRP.

On November 2, 2018 the ISRP provided their review ([ISRP document 2018-10](#)). The ISRP found that the Klickitat River Spring Chinook Master Plan *meets scientific review criteria (qualified)*.

The ISRP found the submittals and reviews to date have answered their review criteria questions. The four qualifications raised by the ISRP are intended to provide clarity and detail as the hatchery moves forward to implementation and strengthen the project for future reviews.

On April 10, 2019, the Council [recommended](#), based on the ISRP review, past Council recommendation, and the history of this project, that the conditions placed on this project have been met and the Yakama Nation can proceed to implementation. The recommendation was conditioned on the final design and out-year costs be presented to the Council prior to construction.

Since the Council recommendation in 2019 the YN and BPA completed final designs. Out-year O&M costs have been worked out in a 3 party MOU between YN, BPA and National Marine Fisheries Service. It is anticipated that the final NEPA process will be completed in July 2023, with final decision on construction anticipated August 2023. Assuming a successful vendor solicitation process, it is anticipated at this time that construction contract award would be late summer 2023.

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<sup>1</sup> On April 4, 2018 the Council received a [letter](#) for Bonneville supporting the transition to addressing only the spring Chinook program and provides clarity on their position regarding long-term operations and maintenance, and monitoring and evaluation associated with the Klickitat Hatchery.

# Klickitat Hatchery Spring Chinook Integrated Program – Step III Review Northwest Power & Conservation Council June 14, 2023

Joe Blodgett and Bill Sharp – Yakama Nation  
Mary Todd Haight – Bonneville Power Administration



# Klickitat Hatchery

Yakama Reservation (near Glenwood WA.)

Rivermile 42.0

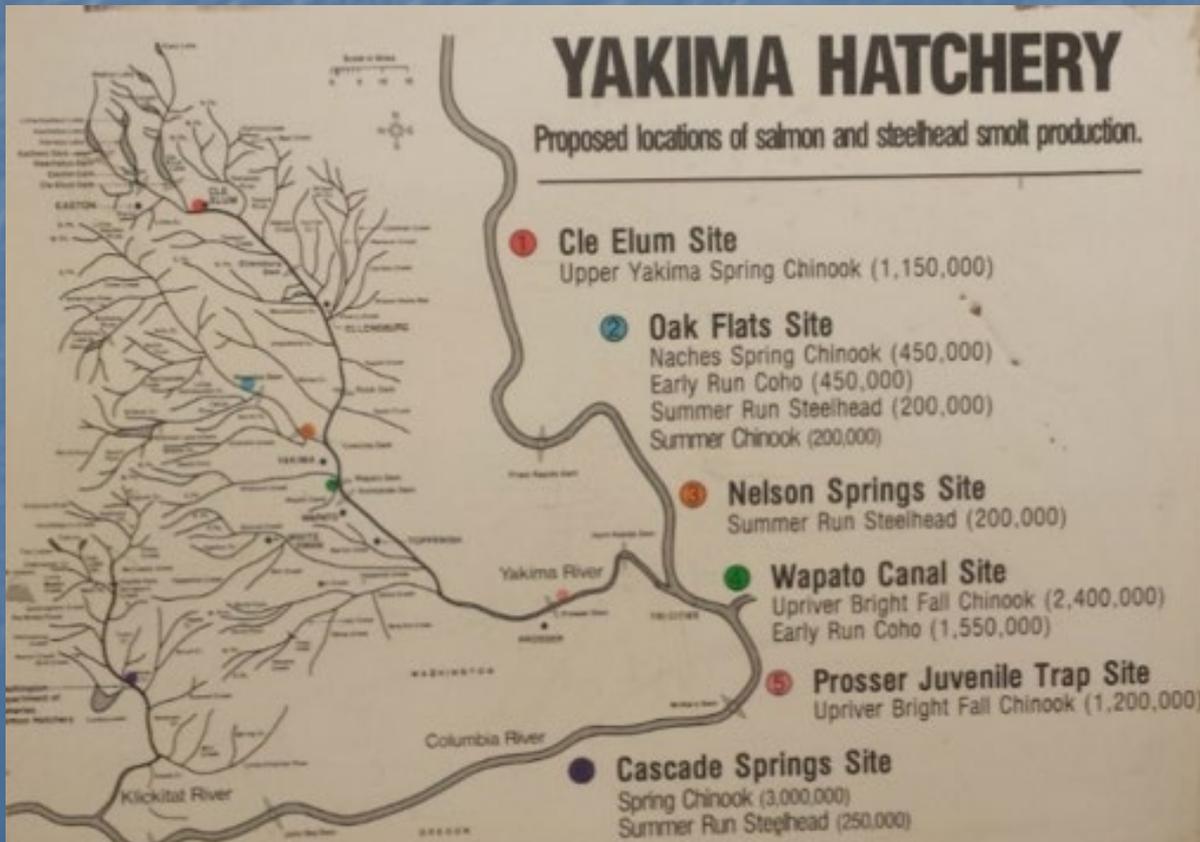
46.04°N 121.17°W

Elev. 1470 ft.



# Yakima/Klickitat Fisheries Project

- The YKFP established in 1982 - NPCC's F&W Program
- NPCC instructed YN, WDFW and BPA to address uncertainties regarding adequacy of hatchery supplementation/ecological interactions
- Apply a scientifically rigorous process that fosters application of knowledge gained about hatchery supplementation and habitat restoration.
- Collaboration between YN & WDFW staff throughout the Yakima and Klickitat River watersheds on fisheries, habitat, instream flows, and production.



# History of Joint Management:

- 1994 – YKFP MOU between YN/WDFW
- 2003 – Transition Plan MOU between YN/WA
- 2005/2006 – Lease and Joint Operation MOA
  - NMFS transfer Mitchell Act funding to YN
- 2022 – YN request to WDFW to complete fee title transfer (~170 acres and facilities).



# Klickitat Hatchery Overview

## Facility History:

- Constructed with Mitchell Act funding, 1949-1951
- In continuous operation since 1951
- Lies within the Yakama Nation Reservation

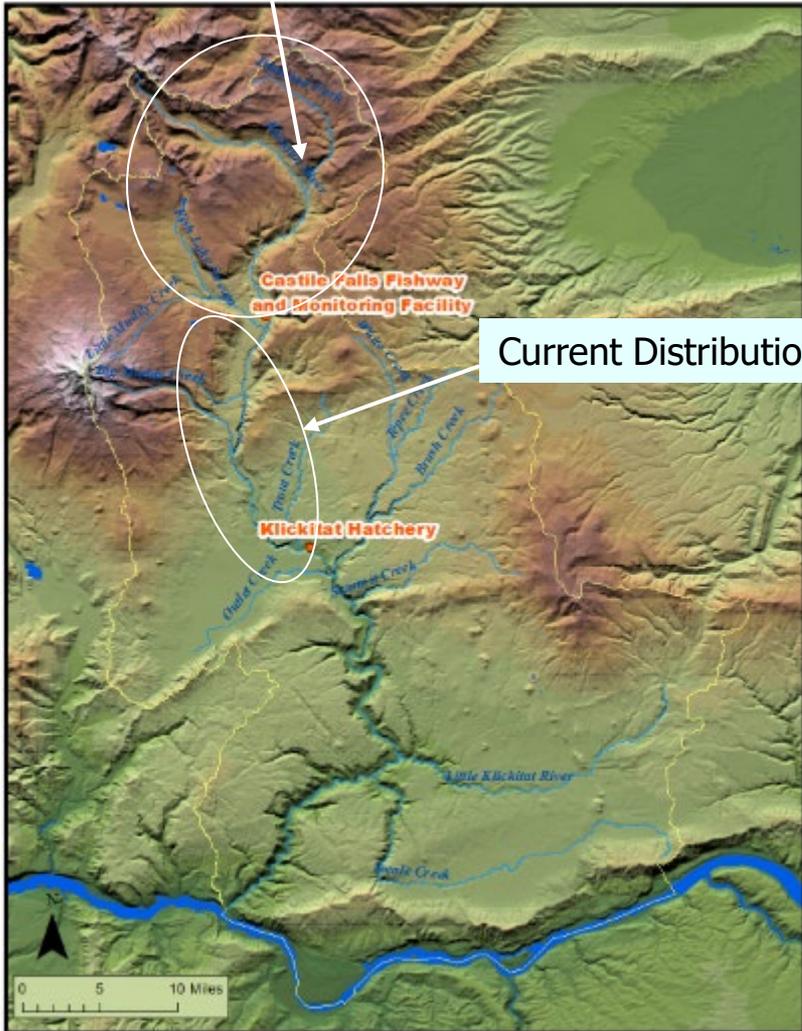
## Current Production:

- Segregated harvest programs, all stocks
- US v. OR Production Goal:*
- 4,000,000 Fall Chinook (subyearling)
  - 1,000,000 Coho (Late, yearling)
  - 600,000 Spring Chinook (yearling)
- WDFW Orca Production Goal:*
- 1,000,000 Fall Chinook (subyearling)

# Spring Chinook Management Objectives:



Upper Klickitat Watershed



Current Distribution

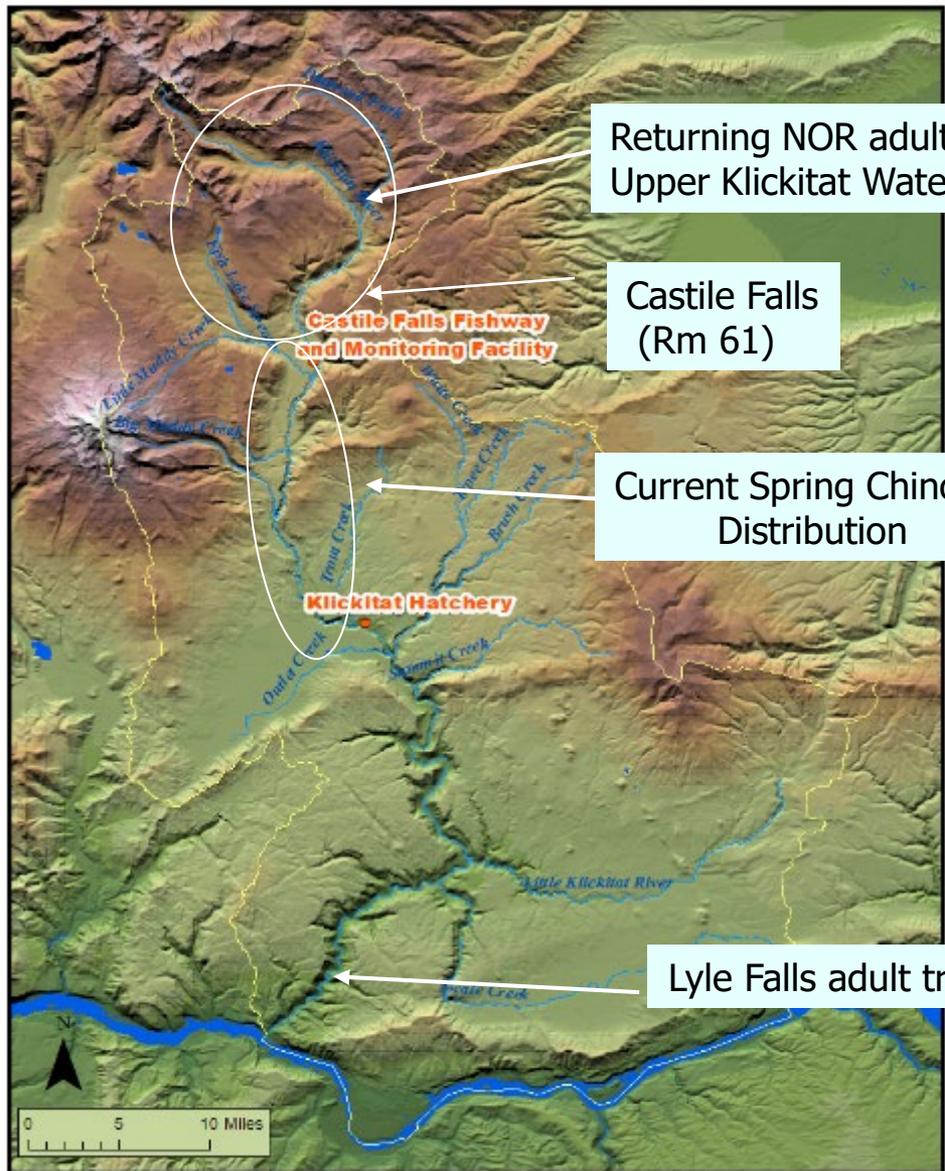
## I. Conservation Objectives:

- *Increase natural population's viability & distribution*
- *Reduce adverse impacts and ecological interactions with hatchery & wild stocks*

## ➤ Strategies:

- Implement hatchery reform measures
- Recolonize upper watershed
- Address environmental limiting factors with habitat restoration

# Integrated Spring Chinook Program



## Future program

### Conservation & Harvest

- Integrated program
  - Incorporate greater proportion natural origin fish
- Broodstock collection
  - Lyle Falls Trap
- ~550 Adults
  - 800k on-station release

### Conservation benefits

- Increase spawning & rearing distribution
  - Increase abundance
- Increase PNI

#### Native Stocks:

I. Spring Chinook



II. Steelhead



#### Introduced Stocks:

I. Fall Chinook

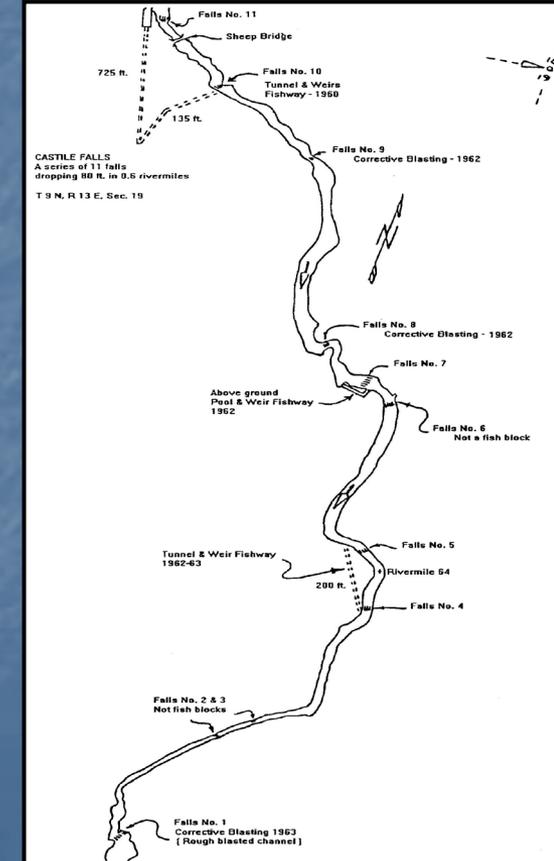
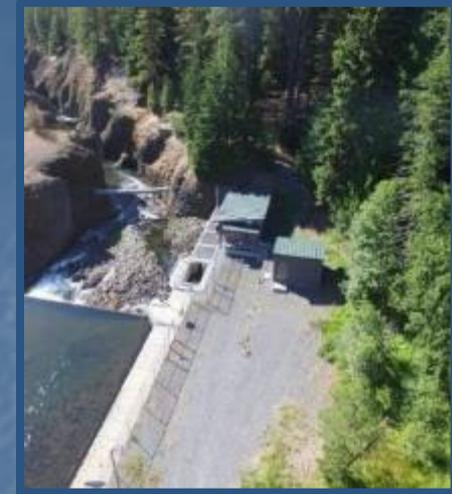


II. Coho



# LYLE ADULT TRAP and CASTILE FALLS FACILITY

- 2008 Fish Accord – BPA Capital (\$15,200,000)
- Adult Escapement Monitoring & Brood Collection
- Castile Passage Monitoring
  - 33 miles of spawning/rearing habitat, underutilized



## Klickitat Hatchery - Infrastructure improvements:

- Vehicle Bridge, \$1,700,000 (Fish Accord)

## Non-Accord Infrastructure improvements:

- 3-Phase Power, \$180,000
- Fish Transport, \$250,000
- Truck Storage/Shop, \$150,000
- Incubation Chiller, \$630,000
- Circular Rearing Tanks – SRKW Prey, \$150,000
- Manpower/Deferred Maintenance, \$140,000

BPA  
Bridge  
2010



# Integrated Spring Chinook Master Planning Timelines

## Environmental Compliance

- Mitchell Act EIS/BiOp
- BPA NEPA
- WDFW SEPA

Klickitat Hatchery Spring Chinook Upgrades  
Final Environmental Assessment



Milestones	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Mar-25
Vendor Request for Information									
Draft EA Public Comment (30 days)									
EA Revisions									
Bid Ready Design/Specs									
Final EA/FONSI (BPA EC Complete)									
WDFW SEPA Compliance									
NPCC Check in/Response									
Request for Proposals									
Award/Construction									Est. 18 mos

# Integrated Spring Chinook Program Operations & Maintenance Funding

+\$300,000/yr.

## Supports:

- Additional staffing
  - Increase fish food need
  - Diagnostic marking
  - Brood and F1 transport
- 
- BPA transfers \$300,000 to Idaho Fish & Game Screening Program (#1994-015-00)
  - IDFG reduces NOAA Mitchell Act annual award by \$300,000.
  - Yakama Nation NOAA Mitchell Act annual award increased by \$300,000

### MEMORANDUM OF UNDERSTANDING

Among

CONFEDERATED TRIBES AND BANDS OF THE YAKAMA NATION  
BONNEVILLE POWER ADMINISTRATION  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL MARINE FISHERIES SERVICE

Regarding

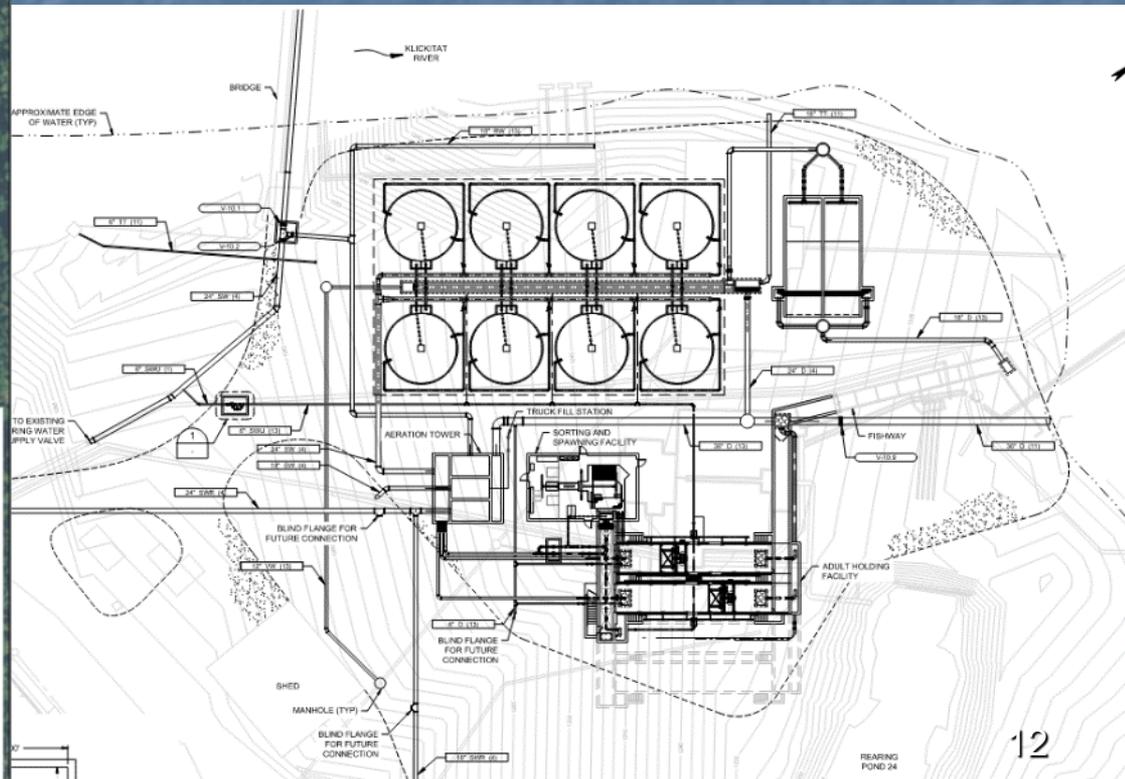
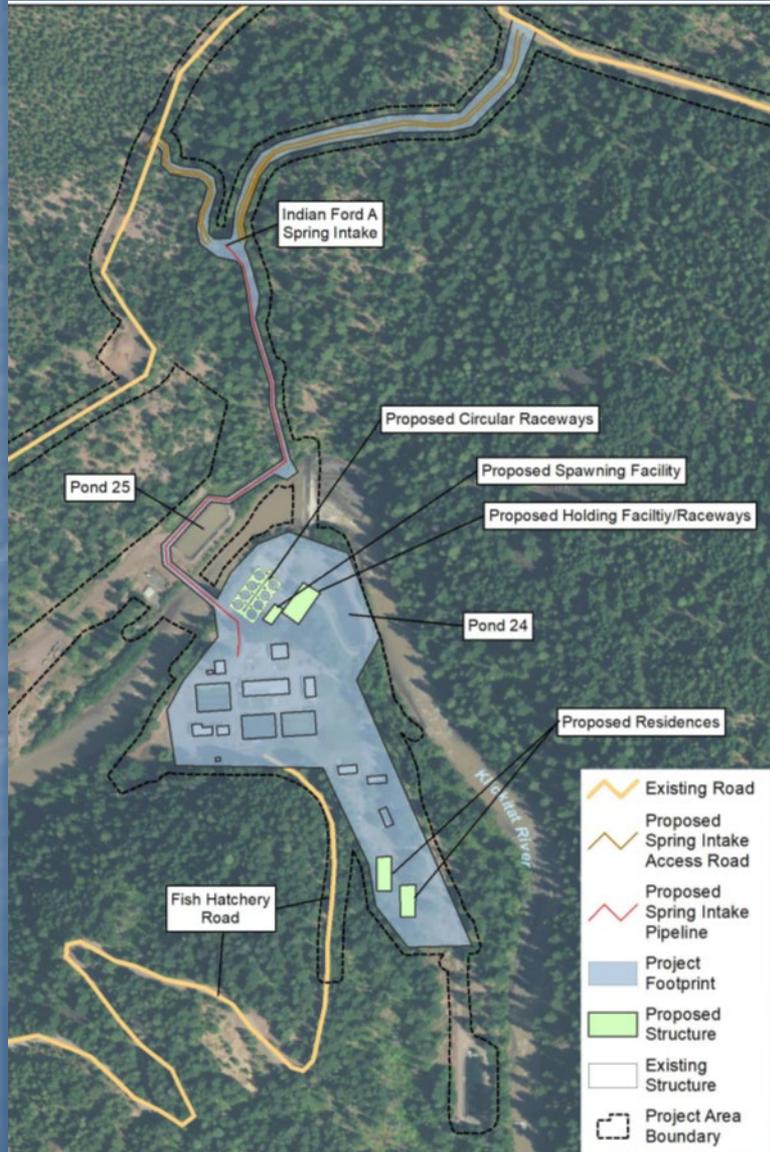
KLICKITAT FISH HATCHERY SPRING CHINOOK PROGRAM IMPROVEMENT,  
EXPANSION, AND FUNDING

### PARTIES

This Memorandum of Understanding ("MOU") is between the Confederated Tribes and Bands of the Yakama Nation ("Yakama Nation"), the National Oceanic and Atmospheric Administration by and through the National Marine Fisheries Service ("NOAA"), and the Bonneville Power Administration ("Bonneville"), collectively referred to as the "Parties." Each party has distinct roles under this MOU:

# Klickitat Hatchery Capital Construction - Overview

- Spring Intake and Water Supply Line Rehab.
- Circular Rearing Tanks
- Adult Holding & Spawning Building

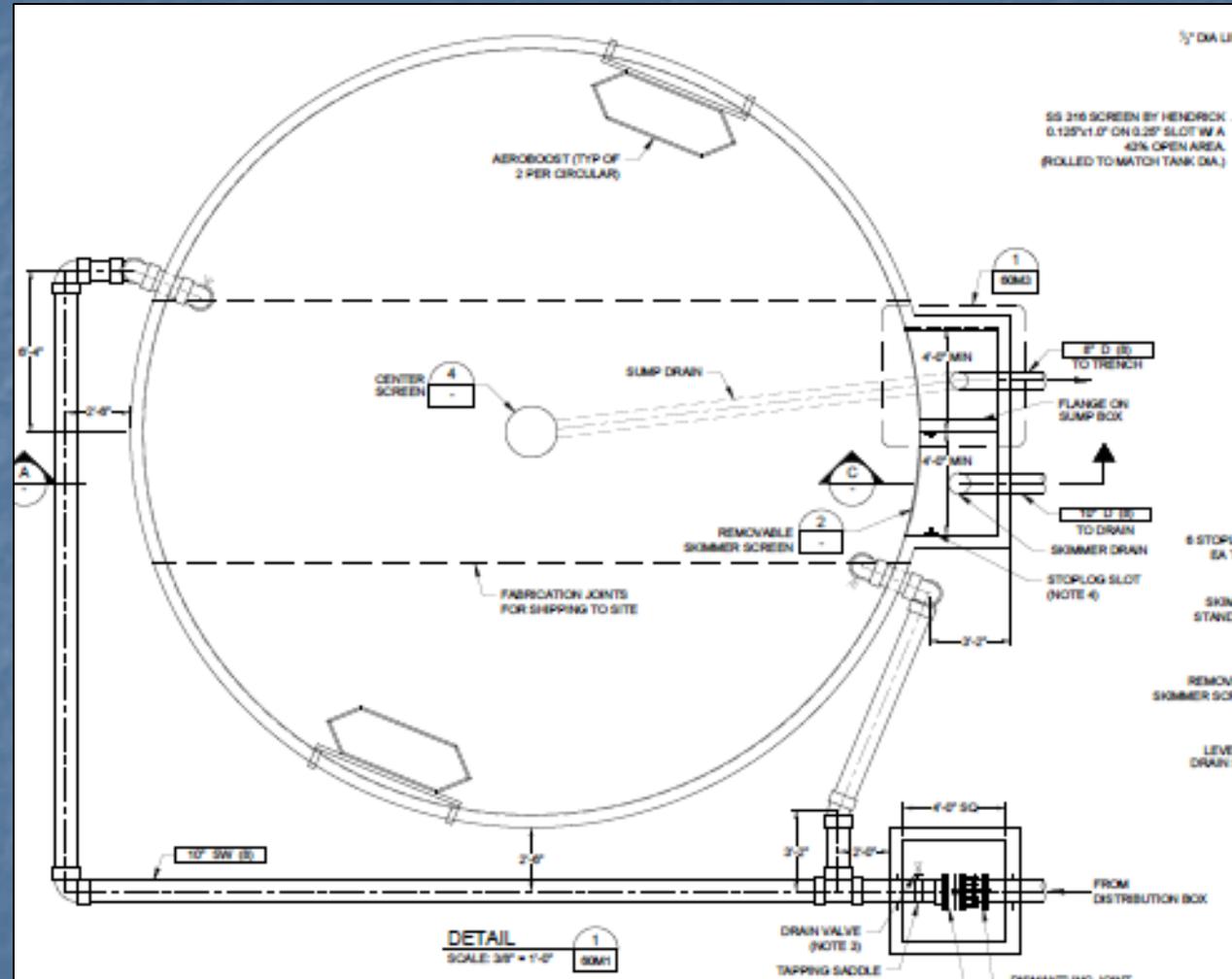
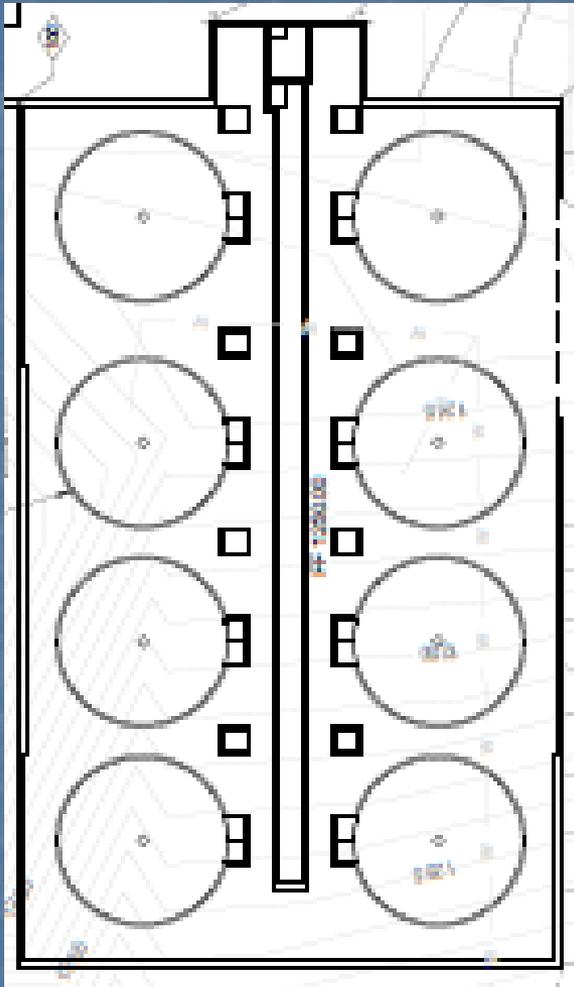




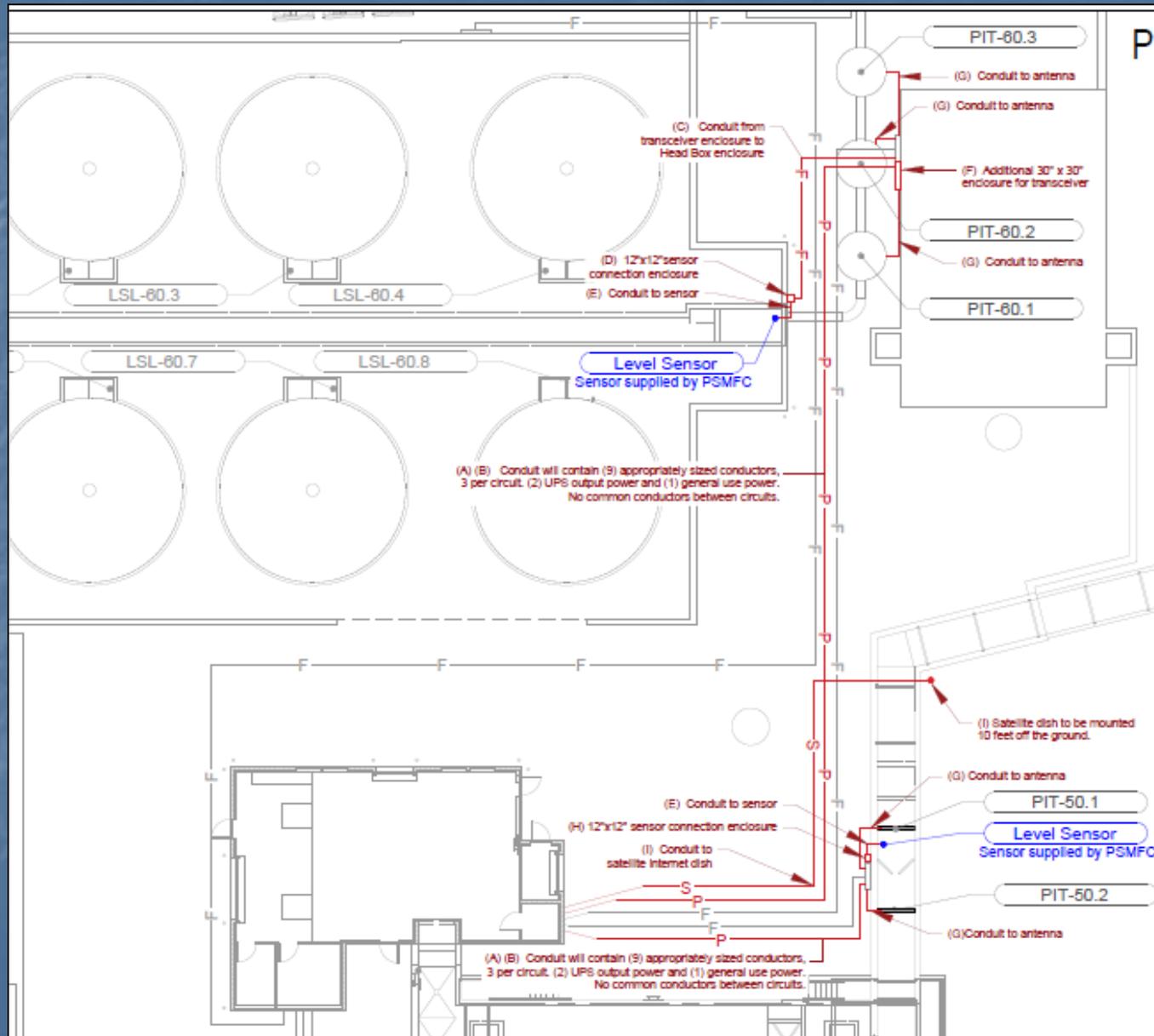




# Spring Chinook Rearing



# PSMFC – PIT Array



# Questions?

mthaight@bpa.gov  
bill\_sharp@yakama.com

