

# Coeur d'Alene Tribe

## Salmonid Aquaculture Facility Overview



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## **Background**

The Coeur d'Alene Tribe, in partnership with the Spokane Tribe of Indians, the Confederated Tribes of the Colville Reservation, the Upper Columbia United Tribes and the State of Washington, are implementing a large-scale feasibility study for reintroduction of Chinook and Sockeye salmon into blocked habitats of the Upper Columbia River. These studies require a consistent supply of hatchery-reared juvenile salmon, of which are acclimated to and released into waters within the study area. The proposed facility will serve as the primary aquaculture program for support of the feasibility studies.

## **Scope of Work**

The project will be located on Coeur d'Alene Tribe property at the physical address of 3515 S. Inland Empire Way, Spokane, Washington 99224, parcel #25361. Ground water will be the primary source of water provided by three (3) production wells located on the parcel, as well as a limited amount of surface water from the adjacent stream. Maximum sustained production of ground water for facility use is dependent on production rates and recharge, of which are currently being evaluated. Surface water use from Hangman Creek is estimated to be 500 gallons per minute (1.11 cfs). Treatment of all incoming surface water will incorporate at minimum UV sterilization and fine sediment filtration. Surface water availability will be intermittent and unreliable. Periods of flashy runoff during the winter and early spring will restrict water withdrawals, as will periods of base flows in the late summer and early fall. Water use for the facility is intended to be non-consumptive, and returned to the source after passing through the facility. Effluent treatment will adhere to Washington Department of Ecology standards.

## **Property Description**

Total size of the property is 47 acres, of which 19 acres are identified for construction. Construction within the stream or riparian protection zones will be avoided. All buildings, with the exception of a 10' X 20' storage shop have been demolished and removed from the property. There are currently no municipal water or sewer services on the property, although the Coeur d'Alene Tribe is open to the option of hooking up to Spokane city water and sewer for municipal use.

## **Fish Production Goals**

The Coeur d'Alene Tribe is proposing a facility that can sustain a maximum of the following fish on station at any given time. We understand water availability and rearing densities will dictate production at the facility. Therefore, the list below is ranked by priority.

1. 75,000 yearling Chinook salmon up to 20 fish per pound
2. 175,000 eyed eggs/subyearling Chinook salmon up to 50 fish per pound
3. 60,000 eyed eggs/subyearling Sockeye salmon up to 50 fish per pound
4. 150 adult salmon short-term holding facilities

These fish will require a separate water supply and treatment to minimize cross contamination and pathogen spread throughout the facility. The facility should include separate rooms or buildings with bio-control measures for each of the three (3) juvenile salmon aquaculture programs identified above, and a separate outdoor facility to hold adult salmon.