

Article 4. Bull Trout Management Plan

Chelan PUD shall implement a Bull Trout Management Plan to identify, monitor, and address on-going Project effects on bull trout, as described in Chapter 4 of the Comprehensive Plan, which is incorporated herein by reference. Specifically:

(a) **Operate upstream fishway and downstream bypass.** (1) Chelan PUD shall continue to provide upstream passage for adult bull trout through the existing upstream fishway and downstream passage for adult and sub-adult bull trout through the existing downstream bypass. Chelan PUD shall continue to operate such upstream fishway and downstream bypass in accordance with the criteria for anadromous salmonids set forth in the Rocky Reach Anadromous Fish Agreement and Habitat Conservation Plan and the annual Rocky Reach Fish Passage Plan, as approved and/or amended by the Rocky Reach HCP Coordinating Committee.

(2) **Upstream fishway counts.** Chelan PUD shall continue to conduct video monitoring in the upstream fishway, except during the annual fishway maintenance period, at Rocky Reach Dam to count bull trout passing through the fishway to provide information on the size, age, and condition of bull trout that move upstream via the upstream fishway.

(b) **Adult bull trout upstream and downstream passage evaluation.**
(1) Beginning in year 10 of the New License and continuing every ten years thereafter during the term of the New License, Chelan PUD shall conduct a one-year adult bull trout monitoring program for the purpose of determining whether Chelan PUD remains in compliance with the Project's allowable level of incidental take of bull trout due to upstream and downstream passage, as described in section 4.2.1 of Chapter 4 of the Comprehensive Plan. If the Project's allowable level of incidental take for the Project is exceeded during one such monitoring year, Chelan PUD shall conduct monitoring in the succeeding year. If the Project's allowable level of incidental take for the Project is exceeded during the succeeding monitoring year, Chelan PUD shall develop and implement a plan, in consultation with the Rocky Reach Fish Forum (RRFF), to identify and address the factors contributing to exceedence of the allowable level of incidental take.

(2) **Report and correlation analysis.** Chelan PUD shall prepare a report on results gathered during each of the one-year periods described in section (b)(1) of this Article. Such annual report shall also examine whether a correlation exists between upstream and downstream passage times and Project operations, as described in section 4.2.1 of Chapter 4 of the Comprehensive Plan.

(c) **Sub-adult bull trout monitoring measures.** Upon the recommendation of the RRFF, Chelan PUD shall implement reasonable and feasible methods for monitoring sub-adult bull trout at the Rocky Reach Dam, as described in section 4.2.2 of Chapter 4 of the Comprehensive Plan.

(d) **Implement reasonable and feasible options.** Chelan PUD, as agreed to by the USFWS and in consultation with the RRFF, shall identify and implement reasonable and feasible options to modify the upstream fishway and downstream bypass or operations to reduce the identified impacts to bull trout passage, if any, as described in section 4.3 of Chapter 4 of the Comprehensive Plan.

(e) **Participate in development and implementation of the USFWS Recovery Plan.** (1) Chelan PUD shall continue to attend meetings of the Upper Columbia River Bull Trout Recovery Team, as scheduled by the U.S. Fish and Wildlife Service (USFWS), until completion of the Bull Trout Recovery Plan. Chelan PUD will participate, as appropriate, in implementation of such Bull Trout Recovery Plan once it is completed by the USFWS.

(2) **Tributary enhancement.** Chelan PUD shall consider the feasibility of collecting and hauling large woody material that is captured at Rocky Reach Dam for placement in tributaries for use as fish habitat in projects funded by the Tributary Conservation Plan contained in the Rocky Reach Anadromous Fish Agreement and Habitat Conservation Plan.

(3) **Funding collection of tissue samples for genetic analysis.** Beginning in year 10 of the New License, and continuing every 10 years thereafter for the term of the New License, Chelan PUD shall, if recommended by the RRFF, collect up to 30 adult bull trout tissue samples and up to 40 sub-adult bull trout tissue samples over a period of one year, and fund their genetic analysis. If genetic analysis is conducted, the annual cost is estimated to be \$3,700.

(4) **Information exchange and regional monitoring efforts.** During the New License, Chelan PUD may continue to participate in information exchanges with other entities conducting bull trout research and regional efforts to explore methods to monitor upstream and downstream movement of sub-adult bull trout in the mainstem Columbia River. If monitoring methodologies become available, Chelan PUD shall work with the RRFF to identify and implement reasonable and feasible methods for monitoring sub-adult bull trout at the Rocky Reach Dam.