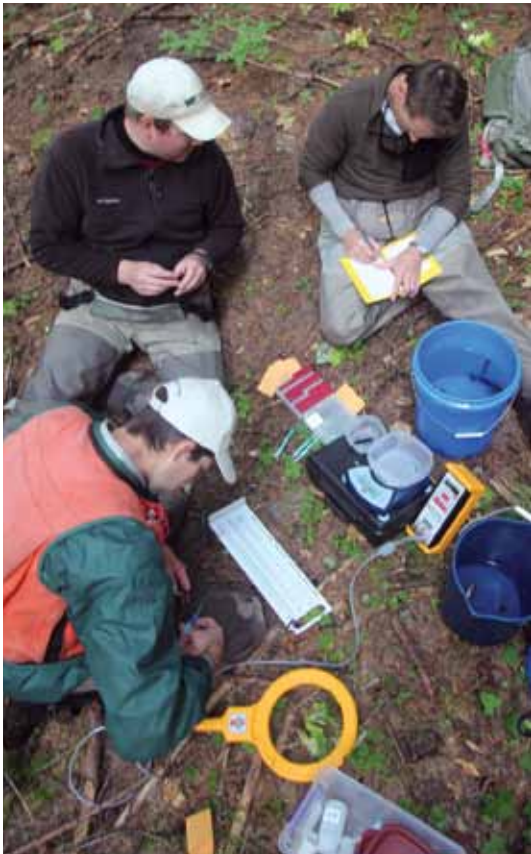


Science Based Decision Making
and Management.

TRIBUTARY AQUATIC HABITAT PROGRAM



The new Boundary license focusses heavily on off-site mitigation, a key component of which is the Tributary Aquatic Habitat Program (TAHP). The tributaries to Boundary Reservoir provide essential habitat for westslope cutthroat trout, endangered bull trout and other native fish in the vicinity of Boundary Dam.

Spanning over a 30 year period and encompassing a broad range of actions to promote recovery of native fish, the TAHP includes eradication and suppression of non-native brook trout populations, removal of fish passage barriers, placement of wood in streams, riparian forest rehabilitation, closure of dispersed recreation sites in close proximity to the channel, and implementation of sediment reduction measures along forest roads.

Over the term of the license, Seattle City Light (SCL) will restore habitats across the entire Boundary area, however between now and 2023, activities focus on improving conditions in Sullivan Creek.

In later years, the focus will shift to Slate Creek, Flume Creek and Sweet Creek as the next largest of the 28 tributaries draining to Boundary Reservoir. In Sullivan watershed, works will be closely coordinated with the removal of Mill Pond Dam and the development of a Native Salmonid Conservation Hatchery.

Eradication and Suppression of Non-Native Fish

Brook trout and other non-native fish have become established in the Boundary Project tributaries. As a result of interbreeding (with bull trout) and competition for habitat and food, brook trout are a serious threat to the persistence and recovery of native westslope cutthroat trout and bull trout. SCL has agreed to control and eliminate brook trout and other non-native fish through mechanical means and, in limited locations to be determined, through chemical application.

continued on back



The Tributary Aquatic Habitat Program encompasses a broad range of actions to address limiting factors and to promote recovery of native fish such as the westslope cutthroat trout (pictured above).

Approximate schedule

Sullivan Creek Habitat Restoration (complete in license year 1-10)

- **Sullivan Creek Stream and Riparian Improvements Downstream of the Canyon**
Place wood and boulders to improve habitat in Sullivan Creek adjacent to the city of Metaline Falls. Replant the riparian forest along the left bank downstream of the historic Sullivan Creek powerhouse.
- **Sullivan Creek Stream and Riparian Improvements Below Mill Pond Dam**
Construct engineered logjams, place wood, and place boulders to improve habitat conditions in Sullivan Creek downstream of Mill Pond Dam. Replace the North Fork Sullivan Creek culvert and improve bank conditions where the river abuts the road at two locations.
- **Sullivan Creek Wood Placement and Road Improvements Upstream of Outlet Creek**
Place several hundred pieces of wood to increase habitat quantity and complexity between the confluence of Outlet Creek and the headwaters around Gypsy Meadows. Replace five culverts to improve fish passage. Stabilize two eroding slopes and repair the Sullivan Creek Road to reduce sediment runoff.
- **Closure and Restoration of Sullivan Creek Restoration Sites**
Close and restore up to 38 dispersed recreation sites that have a negative impact on Sullivan Creek habitat and riparian conditions. The Forest Service will develop a proposal for the potential replacement of recreation opportunities, including but not limited to new sites and facilities.

Habitat Restoration in Other Tributaries to Boundary Reservoir (mostly license year 11-25)

- **Culverts and Wood Placement in Boundary Tributaries beyond Sullivan Creek**
In the next phase of restoration, beginning in 2023, SCL will replace 12 culverts and enhance habitat in the Boundary tributaries outside of the Sullivan Creek watershed. The plan includes fish passage improvements and wood placement in the Flume Creek, Pcochantas Creek, Lime Creek, Sweet Creek, Linton Creek and Sand Creek watersheds. Plans at Linton Creek include channel reconstruction and riparian restoration through the Metaline Waterfront Park. Sweet Creek restoration plans include riparian and wood placement and improved fish passage at the Highway 31 culvert within the first 20 years following license issuance.
- **Small (Tier 2) Tributary Enhancements**
Nineteen other small tributaries drain to the Pend Oreille River between Box Canyon and Boundary dams. SCL will assess habitat conditions within these tributaries and identify potential habitat improvement measures in consultation with the Fish and Aquatics work group. SCL will implement projects identified beginning in 2033.

For more information, visit:

www.seattle.gov/light/generation/boundary

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