

White River–Lake Tapps Project Update

December 2014

Cascade Water Alliance announces that its major rehabilitation activities along the entire White River–Lake Tapps project to update, improve, and enhance the system are underway and ahead of schedule.

Cascade purchased the century-old 48,258 acre feet Lake Tapps from Puget Sound Energy five years ago for use as an eventual municipal water supply. During that time, Cascade has made significant improvements to enhance reliability and safety.

This summer, Cascade began an overhaul of the entire system, eventually bringing the lake down to elevation 500 feet above sea level to perform critical tasks including:

- Sediment removal from the flowline;
- Replace and refurbish the headgates;
- Replace the last remaining sections of the timber flume (2,300 feet) with a concrete flume;
- Dike 3 seismic improvements and stopping seepage;
- Inspect and repair the tunnel intake/tunnel/forebay/penstocks; and
- Inspect and repair the powerhouse relief valves.

An assessment is being done of the lower conveyance system that brings water from the lake to the powerhouse below on East Valley Highway and back into the White River. Once that assessment is complete, necessary improvements can be made. The lake then will be refilled in time for summer recreation.

For a look at the projects that are underway and that have been completed, as well as the latest information and lake levels, visit

www.cascadewater.org

Cascade appreciates the patience and understanding of the community during this time. With the progress Cascade is making it appears that the lake may be refilled on a fairly normal schedule this spring.

Overall, this effort will result in a healthier lake that can be operated more efficiently and safely, and can be refilled with more reliability each spring. Normal refill is between 541.5 and 543 feet. With these improvements Lake Tapps will have stable recreational levels for the next 30 years.

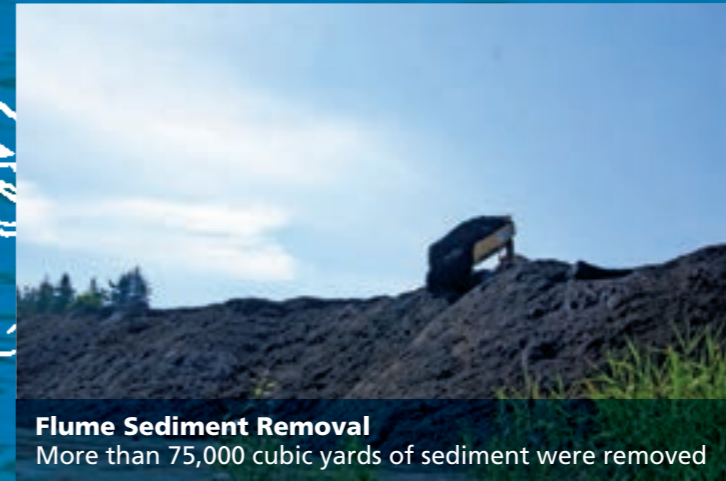
White River–Lake Tapps — Yesterday and Today



Headgates
Remove and refurbish the headgates; replace motorized controls



Timber Flume Replacement
Replace 2,300 feet of 28 feet wide timber flume with 18 foot wide concrete flume; repair sections of existing concrete flume



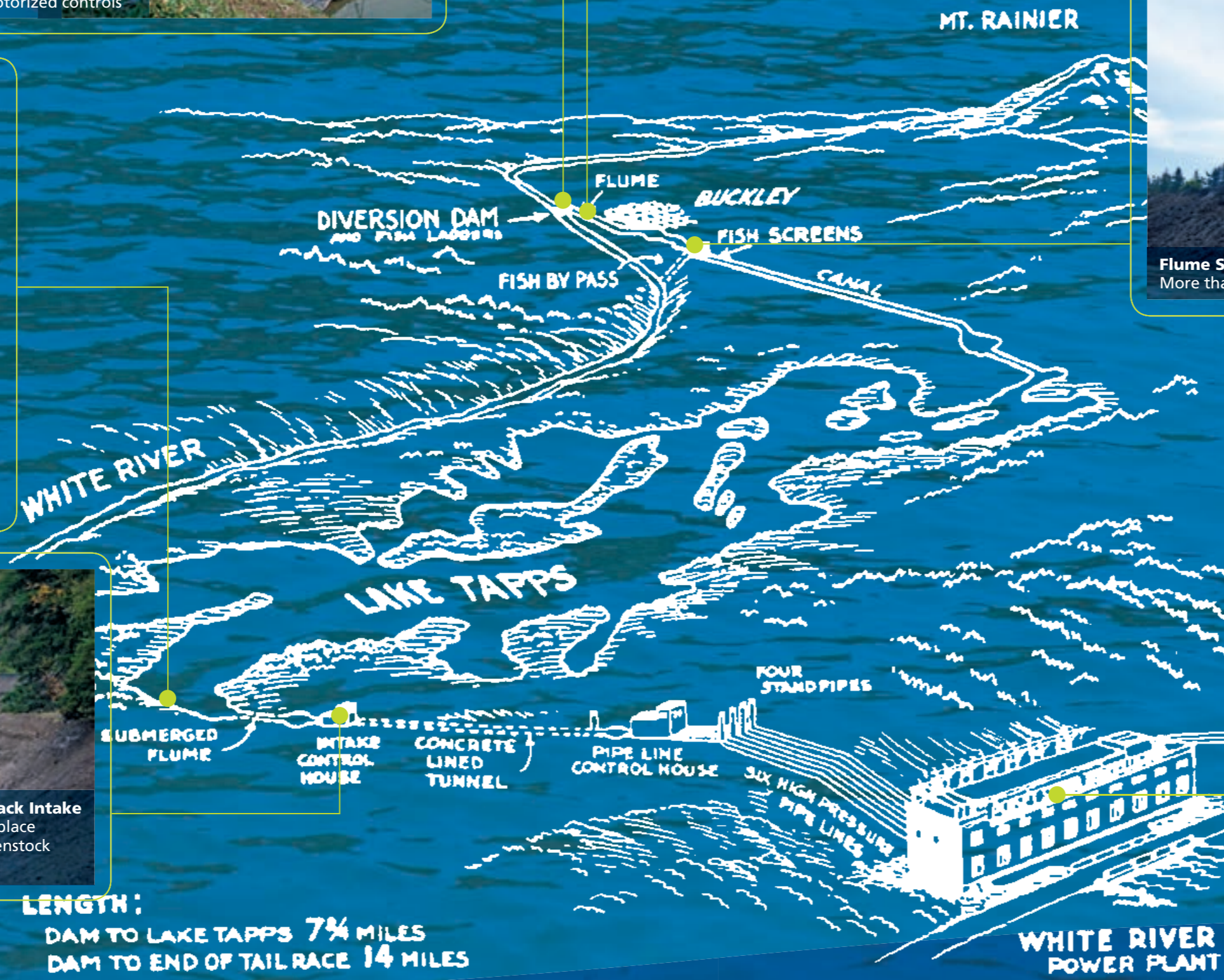
Flume Sediment Removal
More than 75,000 cubic yards of sediment were removed



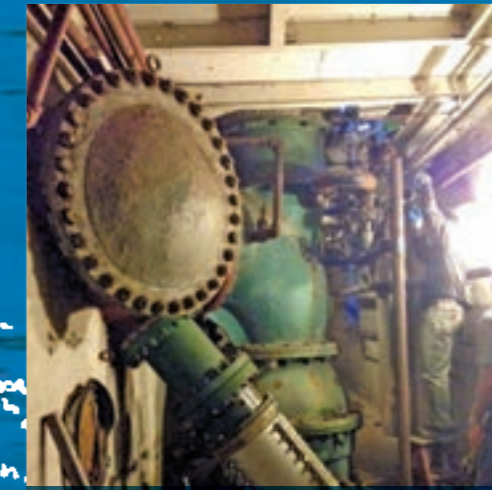
Dike 3 Seismic Remediation
To make the dike earthquake safe, and work to stop water seepage



Lower Conveyance Assessment and Trash Rack Intake
Inspect intake tunnel, forebay and penstocks; replace intake trash rack and stop logs; decommission Penstock No. 4; conduct additional repairs as necessary



LENGTH:
DAM TO LAKE TAPPS 7 1/4 MILES
DAM TO END OF TAIL RACE 14 MILES



Powerhouse
Inspect system; refurbish relief valves; repair discharge tunnels



The White River–Lake Tapps improvement projects are underway, and the lake has reached historic low levels to allow Cascade to inspect, assess, and fix all conveyances and systems.

The lake bed is visible and in many instances accessible. Cascade owns the lake bed and, while the public is allowed to recreate on the waters of Lake Tapps, the public is not allowed on the lake bed for any reason.

Anyone on the lake bed is trespassing. Access to the lake bed on foot, with all-terrain and other vehicles is strictly prohibited. Pierce County Sheriff and Bonney Lake Police officers will be patrolling to enforce against trespassing occurrences.

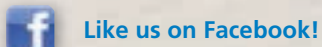
The lake bed may have areas of instability, stumps and other protrusions, and soft areas where individuals and vehicles might be injured or become stuck. Parents should advise their children to stay out of the lake bed.

In an emergency, call 911.

NO TRESPASSING!

For a look at the projects that are underway and that have been completed, as well as the latest information and lake levels, visit

cascadewater.org



cascadewater.org