

# PACKS Checklist

## PROJECTS ALONG CUSHMAN AND KOKANEE SHORELINES (PACKS) PROGRAMMATIC - OVERVIEW, INSTRUCTIONS, PROJECT DETERMINATION, AND GENERAL CCM'S

### PACKS OVERVIEW

The following checklists are provided to help you design your project and application materials to meet the requirements for coverage under the US Army Corps of Engineers (Corps) Programmatic Biological Opinions issued by the U.S Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS), collectively referred to as "Projects Along Cushman and Kokanee Shorelines" (PACKS).

Tacoma Power has worked with the Corps, NMFS, USFWS, and the Skokomish Indian Tribe to provide an avenue for streamlining the regulatory permitting process for shoreline projects, provided those projects are being built to, or are coming into compliance with, Tacoma's Cushman Shoreline Management Plan (SMP). Meeting the requirements of PACKS will significantly reduce the time it takes to obtain your Corps Clean Water Act, Section 404 permit (404 permit) and get your shoreline project started.

If your proposed shoreline project includes the use, preexistence, or removal of fill materials (rock, poured concrete, etc.), a regulatory permit from the Corps is likely required. Most applicants' projects will require review by the Corps at minimum.

The general and category-specific Construction Conservation Measures (CCMs) and impact avoidance and minimization measures identified in PACKS will reduce impacts on nearshore habitat functions for the conservation of Endangered Species Act (ESA)- listed species and their designated critical habitats, as required under Section 404 of the Clean Water Act.

### DIRECTIONS

1. Complete the table on page 2 to determine the PACKS category(ies) and subcategory(ies) applicable to each facet of your project.
2. For each applicable subcategory, complete the associated PACKS Checklist(s).

As emphasized at the top of the General CCMs checklist, in the space provided after each CCM, applicants must provide a citation referencing the appropriate document, page number, and section that addresses the CCM (i.e., geotechnical report, plan sheet, etc.), or enter "n/a" to indicate not applicable.

Once an applicant has reviewed and cited applicable CCMs, they must sign and date the last page. The applicant's signature represents their agreement and commitment to incorporate the applicable CCMs into the project design, construction, and methods. Submit these documents to the Corps as part of your permit application package to streamline the review process.

### DISCLAIMER

This checklist is provided by Tacoma Power as an application tool and does not guarantee PACKS coverage.

**PROJECTS ELIGIBLE FOR PACKS CONSIDERATION:**

Category	Subcategory and Covered Activity	Covered Activity Details	Included in your project? Y or N/A	Use the following checklists
<b>Category A: Repair, Replace, Maintain In-Place<sup>b</sup></b>	A1. Shoreline Stabilization Measures - Structural and Non-Structural	Repair, replacement, and/or maintenance of existing shoreline stabilization measures, including structural measures (e.g., concrete, rock, or lumber <sup>c</sup> , including bulkhead, footings, and/or foundations) and non-structural measures (e.g., natural shorelines or bioengineering).	<input type="checkbox"/> YES <input type="checkbox"/> N/A	General CCM's & Category A
	A2. Boat Ramps - Community and Public <i>(NOTE: Private boat ramps are prohibited. Subcategory A2 for Community and Public Boat Ramps has an individual checklist.)</i>	In-place repair, replacement, or maintenance of existing community and public boat ramps comprised of poured concrete, concrete planks, and/or packed gravel.	<input type="checkbox"/> YES <input type="checkbox"/> N/A	General CCM's & Category A
	A3. Dock - Single Family, Shared, and Community <sup>d</sup>	Repair or replacement of non-commercial dock structure (including pile installation and removal).	<input type="checkbox"/> YES <input type="checkbox"/> N/A	General CCM's & Category A
	A4. Stairways/Steps and Walkways; Paths	Repair or replacement of existing stairway/steps, walkways, and paths.	<input type="checkbox"/> YES <input type="checkbox"/> N/A	General CCM's & Category A
	A5. Temporary Use/Temporary Access	Temporary uses that require a CWA Section 404 permit (e.g., Use of construction-related materials during reservoir drawdown [e.g., bulk bags, sandbags] to access site).	<input type="checkbox"/> YES <input type="checkbox"/> N/A	General CCM's & Category A
<b>Category B: New or Ancillary Structures</b>	B1. Dock - Shared	New shared dock structures for use by at least 3 or more lessees who share a single dock, if the action results in the removal of at least one existing single family dock.	<input type="checkbox"/> YES <input type="checkbox"/> N/A	General CCM's & Category B
	B2. Mooring Buoy; Swimming Float	Mooring buoys and swimming floats.	<input type="checkbox"/> YES <input type="checkbox"/> N/A	General CCM's & Category B
	B3. Lighting (solar or battery only) <sup>e</sup>	Lighting (associated with repair/replacement actions of, e.g., docks/piers).	<input type="checkbox"/> YES <input type="checkbox"/> N/A	General CCM's & Category B
<b>Category C: Habitat Improvement Actions</b>	Includes habitat improvement actions that may accompany actions requiring a CWA permit.	Actions include: derelict debris removal, use of encapsulated floats, removal of treated wood pilings, reduction in overwater structure footprint, replacement of decking with grated surface, large wood installation.	<input type="checkbox"/> YES <input type="checkbox"/> N/A	General CCM's & Category C

<sup>b</sup> In-place equates to repair/replacement/maintenance of structures within the same footprint and location of existing structure, with an allowed expansion no greater than 10 percent beyond the original footprint, below the OHWM, for shoreline stabilization and boat ramps.

<sup>c</sup> The use of pressure-treated lumber is not authorized.

<sup>d</sup> A dock is a structure built over or floating upon the water that abuts the shore and is used to provide water access or moorage facility for watercraft. Docks include any combination of piers, ramps, and floats attached to the shore.

<sup>e</sup> Electrical below the 742-foot elevation contour or within the reservoir is not permitted (Section 2.3.3). Lighting associated with docks must be solar or battery operated.

## GENERAL CONSTRUCTION CONSERVATION MEASURES (CCMS):

All PACKS activities must comply with the following general CCMs, as applicable:

In the space provided after each CCM, applicants must provide a citation referencing the page number addressing that CCM in the appropriate document (i.e., geotechnical report, plan sheet) or “n/a” if not applicable. Submit these documents with your permit application package.

Construction related impact minimization measures	Citation or N/A
To the extent feasible, natural vegetation will be retained, and otherwise the extent and duration of earthwork (e.g., compacting, drilling, excavation, and filling) will be minimized.	<input type="checkbox"/> N/A
Geotextile fabric will be laid down prior to work to collect any debris during construction and for easy removal.	<input type="checkbox"/> N/A
All debris will be disposed of properly at an approved disposal site.	<input type="checkbox"/> N/A
Construction equipment will be cleaned and regularly checked for leaks, off-site and daily, before work is begun. Any required repairs will be completed in an upland location before the equipment is used in or near the water.	<input type="checkbox"/> N/A
Staging areas (used for activities such as equipment storage, vehicle storage, fueling, servicing, and hazardous material storage) will be established in a location and manner that will prevent contaminants such as petroleum products, hydraulic fluid, fresh concrete, sediments, sediment-laden water, chemicals, or any other toxic or harmful materials from entering waters of the state (Washington Administrative Code [WAC] 220-660-120[3]).	<input type="checkbox"/> N/A
All staging areas will be in uplands and avoid effects on wetlands and lake(s).	<input type="checkbox"/> N/A
After construction is complete, all temporary staging, storage, or stockpile areas will be returned to their pre-project condition (e.g., stabilize the soil, revegetate the area, and fill in any depressions caused from construction equipment used in the project). Areas where vegetation has been temporarily removed must be revegetated with trees, shrubs, and grasses native to the watershed at a density similar to pre-disturbance conditions.	<input type="checkbox"/> N/A
The use of equipment will be confined to specific access and work corridors to protect riparian, wetland, and aquatic vegetation.	<input type="checkbox"/> N/A
If wet or muddy conditions exist in or near a riparian zone or wetland area, equipment that reduces ground pressure will be used whenever feasible.	<input type="checkbox"/> N/A
The use of pressure-treated lumber is not authorized under this consultation in any location.	<input type="checkbox"/> N/A
Equipment operating below the 742.0-foot contour of Lake Cushman must use environmentally acceptable lubricants composed of biodegradable base oils. These are vegetable oils, synthetic esters, and polyalkylene glycols.	<input type="checkbox"/> N/A

<b>Timing of Activities Taking Place within the OHWM of Lake Cushman or Lake Kokanee:</b>	<b>Citation or N/A</b>
At Lake Cushman, projects will not occur in-water; construction will occur in the dry when the reservoir is drawn down below the full pool elevation of 738 feet. Work within the OHWM must occur when the full pool elevation is a minimum of 5 feet waterward of proposed activities (i.e., 5 feet of dry land between water and work area).	<input type="checkbox"/> N/A
Activities proposed below the OHWM of Lake Kokanee will occur between July 1 and October 1, or when the lake is drawn down below the work area, or as determined by WDFW during HPA review.	<input type="checkbox"/> N/A

<b>Isolation of Concrete Work:</b>	<b>Citation or N/A</b>
All concrete will be placed in the dry at Lake Cushman above the full pool elevation as prescribed above (e.g., when the full pool elevation is a minimum of 5 feet waterward of proposed activities [i.e., 5 feet of dry land between water and work area]) using containment systems (e.g., watertight forms) and not connected to surface waters; concrete must cure a minimum of 7 days before contact with surface water. Should new concrete technology develop that has a quicker curing rate, information must be provided as part of the project submittal, and the Corps and Services will evaluate whether a shorter cure time will be no more impactful than the cure time evaluated in this programmatic.	<input type="checkbox"/> N/A
Water used during the placement of concrete for washdown or related operations will not be allowed to enter waterbodies. Any process water/contact water will be routed to a contained area for treatment and will be disposed of at an authorized upland location.	<input type="checkbox"/> N/A
No on-site concrete washout will occur.	<input type="checkbox"/> N/A

<b>Pile Installation:</b>	<b>Citation or N/A</b>
Any piles subject to abrasion must incorporate design features to minimize contact between all of the different components of overwater structures during all reservoir elevations.	<input type="checkbox"/> N/A
The use of pressure-treated lumber (wrapped or unwrapped) is not authorized under this consultation in any location.	<input type="checkbox"/> N/A
Whenever practical, a vibratory hammer will be used for pile installation.	<input type="checkbox"/> N/A
In Lake Cushman, pile installation must occur in the dry during the reservoir drawdown period.	<input type="checkbox"/> N/A
In Lake Kokanee, pipe piles must be driven by hand or by a vibratory driver.	<input type="checkbox"/> N/A
For protection of marbled murrelets and northern spotted owls: All impact pile driving conducted under this programmatic must occur outside of the nesting seasons for marbled murrelets and northern spotted owls (March 1-September 30).	<input type="checkbox"/> N/A
Vibratory or impact hammer installation of piles less than or equal to 12 inches is allowed under this programmatic. However, the smallest diameter and number of piles required to construct a safe structure should be proposed, and appropriate pile-driving methods will be employed to minimize impacts to aquatic resources.	<input type="checkbox"/> N/A

Pile Installation:	Citation or N/A
At Lake Cushman, pile removal must occur in the dry during the reservoir drawdown period.	<input type="checkbox"/> N/A
If a pile breaks above the surface of sediment or less than 2 feet below the surface, every feasible attempt short of excavation must be made to remove it entirely. If the pile cannot be removed without excavation, the pile should be driven deeper if possible.	<input type="checkbox"/> N/A
Removal of all creosote-treated wood from existing dock and shoreline stabilization structures proposed for replacement within the proposed project area and waterward of OHWM is required to be eligible for programmatic coverage.	<input type="checkbox"/> N/A

Pollution and Erosion Control (general):	Citation or N/A
Site planning and site erosion control measures commensurate with the scope of the project will be used to minimize damage to natural vegetation and permeable soils and prevent erosion and sediment discharge from the project site.	<input type="checkbox"/> N/A
Before significant earthwork begins, appropriate temporary erosion controls will be installed downslope to prevent sediment deposition in the water body.	<input type="checkbox"/> N/A

Pollution and Erosion Control (during construction):	Citation or N/A
Earthwork in the reservoir below OHWM will be completed as quickly as possible.	<input type="checkbox"/> N/A
If eroded sediment appears likely to be deposited in the reservoir during construction, additional sediment barriers should be installed as necessary.	<input type="checkbox"/> N/A
Temporary erosion control measures may include fiber wattles, silt fences, jute matting, wood fiber mulch and soil binder, or geotextiles and geosynthetic fabric.	<input type="checkbox"/> N/A
Pollution and erosion control measures will be inspected and monitored throughout the length of construction.	<input type="checkbox"/> N/A
All disturbed soils will be stabilized following any break in work unless construction will resume within 4 days.	<input type="checkbox"/> N/A

Grating Requirements for Docks and Piers:	Citation or N/A
A dock or float 6 feet wide or narrower must have at least 30 percent of the deck surface covered in functional grating. A dock or float wider than 6 feet (up to 8 feet wide) must have at least 50 percent of the deck surface covered in functional grating. The grating material's open area must be at least 60 percent.	<input type="checkbox"/> N/A
Functional grating must not be covered (on the surface or underneath) with any items (e.g., kayaks, planters, sheds, lawn chairs).	<input type="checkbox"/> N/A
All new/replacement ramps/gangways must be 100 percent grated.	<input type="checkbox"/> N/A

Minimal Disturbance of Vegetation:	Citation or N/A
Existing habitat features (e.g., vegetation, large wood) shall be retained to the extent possible to avoid causing erosion and to maintain food sources, shading, and other ecological functions important to water quality and aquatic species.	<input type="checkbox"/> N/A
Disturbance of bank vegetation shall be limited to a 12-foot work corridor on either side of the proposed work.	<input type="checkbox"/> N/A
Tree removal associated with actions covered under this programmatic is prohibited unless the applicant provides an arborist report stating that trees represent a hazard to life or property. This measure will protect trees along the shoreline and ensure that they can contribute to future large wood recruitment in the reservoirs.	<input type="checkbox"/> N/A
Suitable nesting habitat(s) for marbled murrelets or northern spotted owls will not be removed as part of any activities covered under this programmatic.	<input type="checkbox"/> N/A
Trees that must be removed should be re-installed along the nearshore as downed habitat features where possible. Any anchors for securing large wood should be buried.	<input type="checkbox"/> N/A
Areas where vegetation has been temporarily removed must be revegetated with trees, shrubs, and grasses native to the watershed at a density similar to pre-disturbance conditions.	<input type="checkbox"/> N/A
All disturbed areas must be protected from erosion within 7 calendar days of completion of the project using vegetation or other means.	<input type="checkbox"/> N/A

Specimen Notification:	Citation or N/A
Notify the USFWS Law Enforcement Office at (425) 883-8122 or the Washington Fish and Wildlife Office at (360) 753-9440 within three (3) working days upon locating a dead, injured, or sick endangered or threatened species specimen. Include the date, time, precise location of the injured animal or carcass, and any other pertinent information. When necessary, handle the specimen with care. Ensure that evidence associated with the specimen is not unnecessarily disturbed.	<input type="checkbox"/> N/A

**I have read through the above-listed CCMs and agree to incorporate all applicable CCMs into the project design, construction, and methods.**

Project Applicant Name Signed	Date
Project Applicant Name Printed	