



State of Washington
DEPARTMENT OF FISH AND WILDLIFE

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DETERMINATION OF NONSIGNIFICANCE (DNS) AND ADOPTION OF EXISTING ENVIRONMENTAL DOCUMENT (CATEGORICAL EXCLUSION)

Name of Proposal: DNS/Adoption 17-054: LAKE CHELAN EROSION CONTROL

Description of Current Proposal:

Background

In the 2002 erosion control plan, the NPS and Chelan PUD agreed to protect 400 ft of this shoreline site with a rock wall. At that time, the retreating shoreline was within 20 ft of the trail. In 2016 the erosion has gotten closer to the trail, which would be difficult and expensive to relocate due to steep slopes farther away from the eroding bank. After a winter 2016 survey, some parts of the shoreline show increased vegetation growth and stability, while in other sections erosion has proceeded (p. 7 of Attachments).

Proposed Site 82 Stabilization Design:

NPS no longer proposes to build a 400 ft long structure, but intend to focus on a 160 ft area in the center of the site where erosion has cut closest to the trail (p. 2 of Attachments). This area includes several tall eroding bluffs. The rapidly eroding section is broken by an area where large woody debris has accumulated, and where bank erosion is minimal.

Recognizing the changed conditions and the value of the large wood accumulation, we propose to use two 60 ft long rock walls and enhance the accumulation of large wood along the 40 ft long middle section to protect the trail. The rock wall design will follow the same specifications as used at several other sites on the lake (p. 3-5 of Attachments). Key design features are burial of the toe of the structure, use of both a graded soil filter and filter fabric behind the wall, and proper rockery construction techniques (e.g. face/batter angle, long axis perpendicular to bank, two-point minimum contact, bridging of gaps, etc.). Given the steep bank slope, the wall will be about 5 ft tall, and 2-3 ft wide at the base. The two sections of rock wall will require placement of about 70 yd³ of angular rock, and 10-15 yd³ of sand and gravel for the soil filter, and 3-4 yds³ of topsoil for revegetation.

The existing wood accumulation will be enhanced by adding logs and anchoring a few key large pieces to stabilize the feature. Anchors could include large rocks or duckbill type anchors attached to the logs with short cables. In some cases large logs with root-wads can also be used to anchor other pieces.

Denuded or disturbed areas of the eroding bank above the OHW will be replanted with local native species of shrubs and ground cover. Species on site include nootka rose, birchleaf spirea, snowberry, ceanothus, kinickinck, bracken fern and bluebunch wheatgrass. We prefer not to use trees because of their greater water demand, and the likelihood that they could compromise the wall if they tipped over by the roots. However, the three large conifers will be retained and stabilized by the proposed work.

The work will be completed in winter when lake levels are low enough so the site is in the dry but can be accessed by the crane mounted barge (1092-1087 ft). Work will be done using a crane mounted barge for areas that can be reached. If there are areas that can't, they will be done using

an excavator on dry land.

The following best management practices will be implemented to minimize impacts to water quality during construction:

- a. Work will only occur during low lake levels when entire site is in the dry.
- b. No equipment will enter the watercourse. Work will be done using a crane mounted barge for areas that can be reached by the crane. If there are areas that can't, they will be done using an excavator on dry land.
- c. Equipment will use biodegradable hydraulic fluid.
- d. Appropriate spill containment equipment will be onsite.
- e. Rock will be clean.

Proponent/Applicant: National Park Service
North Cascades National Park Service Complex
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Location of Current Proposal: Site 82 on the Lakeshore Trail approximately 3 miles southeast of Stehekin Landing, Lake Chelan National Recreation Area, Chelan County, Washington: Township 32N, Range 18E, Section 17.

Title of Document being Adopted: Categorical Exclusion Form #66153 for “FERC Erosion Control – Site #82”

Agency that Prepared Document Being Adopted: National Park Service

Date Adopted Document was Prepared: October 13, 2017

Description of Document (or Portion) Being Adopted: The entire contents of the Categorical Exclusion Form.

If the Document Being Adopted has been Challenged, Please Describe: N/A

Name of Agency Adopting the Document: Washington Department of Fish and Wildlife (WDFW)

The Document is Available to be Read at:

Washington Department of Fish and Wildlife - Natural Resources Building,
1111 Washington Street SE, Olympia, WA, Monday - Friday 8:00 am - 5:00 pm.

This document is also available for review online at:

http://wdfw.wa.gov/licensing/sepa/sepa_comment_docs.html

Adoption of Existing Environmental Document: After independent review, we have identified and adopted the referenced document as being appropriate for this proposal. The document meets our environmental review needs for the current proposal and will accompany the proposal to the decision maker.

We issued this Determination of Nonsignificance/Adoption Notice under WAC 197-11-340(2), WAC 197-11-610, and WAC 197-11-630. We will **not act on this proposal for 14 days** from the date of issue below. Agencies, affected tribes, and members of the public are invited to comment on this proposal or DNS. We must receive your comments within 14 days of the date

of this letter. The comment period will end at **5:00 pm on November 9, 2017.**

Responsible official: Lisa Wood

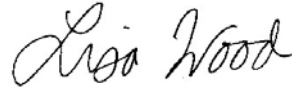
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DATE OF ISSUE: October 26, 2017 **SIGNATURE:**

A handwritten signature in black ink that reads "Lisa Wood". The signature is written in a cursive, flowing style.

SEPA Log Number: 17-054.dns/adpt