

United States Department of the Interior California Department of Parks and Recreation

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Redwood National and State Parks 1111 Second Street Crescent City, California 95531

IN REPLY REFER TO: A44 (Barnum Timber Company)

December 17, 1998

Stephen R. Horner, Registered Professional Forester Barnum Timber Company 1610 Highland Avenue Eureka, California 95502-1365

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Dear Mr. Horner:

Thank you for your December 4th letter addressed to Terrence D. Hofstra, requesting clarification of comments provided by Redwood National and State Parks to the U.S. Environmental Protection Agency (EPA). Realizing that we may not agree on issues raised by our comments on the proposed TMDL for Redwood Creek, we hope this response at least clarifies the basis for our comments.

As managers responsible for the protection of public trust resources in Redwood National and State Parks, we remain concerned about the potential impacts to park resources from upstream. timber harvest and logging roads. Our concerns are based on past experiences of impacts during large, flood producing storms, our current knowledge of forest practices and rules, and recent storm events in the Redwood Creek basin. As you know, there has been a considerable amount of research performed throughout the Pacific Northwest that attempts to understand the complex interactions of land use and watershed processes, and the research often results in conflicting conclusions that sometimes leaves decision making to professional judgment.

In regard to silvicultural practices along streams and on unstable areas, we encourage you to fly slowly over the Redwood Creek basin and examine the numerous landslides found along Redwood Creek and some of its major tributaries. The causes of landsliding will always be a hotly debated issue, and we are certainly not suggesting that all of the recent landslides are a result of clearcutting methods. However, we feel there are good examples of streamside areas, clearcut within the past 10-12 years, that have failed during recent storms. Recent moderate intensity, long duration rainfalls have favored mass movement processes, and have not necessarily tested road system culverts.

In regard to our statement about past and current forest practice rules and how well they consider water quality and aquatic habitat, you are correct. There is a considerable range of opinions on how well forest practices have addressed these concerns. As we pointed out in our letter to EPA, forest practices have improved, but we feel there is still need for further improvement in regards to water quality and aquatic habitat issues. Other agencies and many timber industry representatives agree with this opinion. In fact, we are encouraged by recent timber harvest plans submitted for Redwood Creek that offer improved protection measures that far exceed the basic requirements of the forest practice rules. We encourage you to perform an historical review of forest practice rule development, consider the chronology of timber harvest in the Redwood Creek basin, and review the timber harvest plans submitted within the last 10-12 years to better understand the basis of our concerns.

Our opinion of forest practice rules and their consideration of cumulative impacts from roads should come as no surprise to you. Our opinion is based on the fact that forest practices rules still allow us to walk away from roads and not maintain them. Forest practice rules also place no upper limit on how many roads can be built within a basin. While the actual location of roads might be more important than the number of miles of roads constructed in a basin, the potential hydrologic and erosional impacts from roads are well documented in the literature.

Finally, we are very interested in the results of your study that you presented at the EPA's hearing in Eureka on November 19, 1998. Your results compared erosion from rehabilitated roads inside the park to erosion on Barnum Timber Company roads from the 1997 storm. Please send us whatever information is pertinent to this study (data, maps, citations, criteria, etc.), so that we can better understand the implications of the results and reevaluate our program. Please forward this information to Greg Bundros in our Arcata office.

We hope that you have found our response useful. Enclosed is a list of references that will help explain our opinion of forest practices, and our concern about upstream land use and the protection of downstream park resources. These resources are available from the appropriate agencies, businesses, organizations and libraries.

Sincerely,

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Andrew T. Ringgold Superintendent

Enclosure

REFERENCES

- MacDonald, L.H., and others. 1991. Monitoring Guidelines to Evaluate Effects of Forestry Activities on Streams in the Pacific Northwest and Alaska. U.S. Environmental Protection Agency, Seattle, WA, Technical Report EPA/910/9-91-001.
- Madej, M.A., and Ozaki. 1996. Channel response to sediment wave propagation and movement, Redwood Creek, California, USA. Earth Surface Processes and Landforms 21:911-927.
- Meehan, W.R. (ed). 1991. Influences of Forest and Rangeland Management on Salmonid Fish and Their Habitats. U.S.D.A. Forest Service, American Fisheries Society Special Publication 19.
- Murphy, M.L. 1995. Forestry Impacts on Freshwater Habitat of Anadromous Salmonids in the Pacific Northwest and Alaska - Requirements for Protection and Restoration. U.S. Department of Commerce, NOAA Coastal Program, Decision Analysis Series No.7.
- Nolan, K.M. and others. 1995. Geomorphic Processes and Aquatic Habitat in the Redwood Creek Basin, Northwestern California, U.S. Geological Survey Professional Paper 1454.
- PWA [Pacific Watershed Associates]. 1998. Sediment source investigation and sediment reduction plan for Bear Creek watershed, Humboldt County, California. Report prepared for The Pacific Lumber Company. Pacific Watershed Associates, Arcata, California.
- PWA [Pacific Watershed Associates]. 1998. Sediment source investigation and sediment reduction plan for North Fork Elk River watershed, Humboldt County, California. Report prepared for The Pacific Lumber Company. Pacific Watershed Associates, Arcata, California.
- PWA [Pacific Watershed Associates]. 1998. Sediment source investigation for the lower Eel River. Report prepared for The Pacific Lumber Company. Pacific Watershed Associates, Arcata, California.
- Salo, E.O., and T. Cundy (eds). 1987. Streamside Management: Forestry and Fish Interactions. University of Washington, Seattle, WA. Institute of Forest Resources, No. 57.
- Reid, L.M. 1993. Research and Cumulative Watershed Effects. USDA Forest Service Pacific Southwest Research Station Report PSW-GTR-141.
- Reid, L.M. 1998. Review of the "Sustained Yield Plan/Habitat Conservation Plan for the Properties of The Pacific Lumber Company, Scotia Pacific Holding Company, and Salmon Creek Corporation." Report addressed to Mr. Bruce Halstead, U.S. Fish and Wildlife Service.
- Reid, L.M. 1998. Review of "Sediment Source Investigation and Sediment Reduction Plan for the Bear Creek Watershed, Humboldt County, California." Report to the U.S. Environmental Protection Agency and California Regional Water Quality Control Board.
- Spence, B.C. and others. 1996. An Ecosystem Approach to Salmonid Conservation, "Man Tech Report." U.S. National Marine Fisheries Technical Report TR-4501-96-6057.
- Ziemer, R.R. (TC). 1998. Proceedings of the Conference on Coastal Watersheds: The Casper Creek Story. USDA Forest Service Pacific Southwest Research Station General Technical Report PSW-GTR-168.