



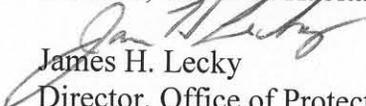
UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Silver Spring, MD 20910

MAR - 6 2007

MEMORANDUM FOR: Regional Administrators

Patricia Montanio
Director, Office of Habitat Conservation

FROM:


James H. Lecky
Director, Office of Protected Resources

SUBJECT: Technical White Paper on Dissolved Copper's Effects on Juvenile Salmonid Sensory Systems

The Office of Protected Resources, in collaboration with the Northwest Fisheries Science Center, the Northwest Region's Washington State Habitat Office, and the U.S. Geological Survey has prepared an overview of dissolved copper's potential effects to juvenile salmonids. It is our hope that this information will assist programs in addressing activities that may have dissolved copper issues. The purpose of this paper is to: (1) summarize information on the effects of dCu to the sensory systems of juvenile salmonids in freshwater (also see Appendix); (2) conduct a benchmark concentration analysis to generate examples of dCu effect thresholds; and (3) to discuss site-specific considerations for sensory system effects. As such, the overview does not specifically address potential population level consequences from exposure to dissolved copper, but focuses on sensory system effects in individual juvenile salmonids.

I hope you will find this white paper useful. If you have any questions or comments you may direct them to Scott Hecht, 360-534-9306.

Attachment