

Independent Review of the 2008 National Marine Fisheries Service Analytical Framework for its OCAP Biological Opinion

Specific questions for review of the NMFS analytical approach:

1. Does the analytical approach fully address the concerns described in the independent peer review reports of the NMFS 2004 OCAP biological opinion (CALFED Science Program, January 3, 2006 ; McMahon, CIE; Maguire, CIE, January 12, 2006; and NMFS Science Center, May 25, 2006)?
2. Does the analytical approach fully incorporate the framework presented by Lindley *et al.* (2007), “Framework for Assessing Viability of Threatened and Endangered Chinook and Steelhead in the Sacramento-San Joaquin Basin?”
3. Does the analytical approach fully explain how the exposure, response, and risk to listed individuals, populations, and diversity groups¹ resulting from project operations will be assessed?
4. Does the analytical approach describe a method that allows evaluation of combined project operations effects on the listed species?

References

CALFED Science Program 2006:

http://www.science.calwater.ca.gov/events/workshops/workshop_ocap.html#OCAP_05

Lindley *et al.* 2007: <http://repositories.cdlib.org/jmie/sfews/vol5/iss1/art4/>

Maguire CIE review:

http://swr.nmfs.noaa.gov/news/Maguire_CALFED_Salmon_review_report-January_18_2006.pdf

McMahon CIE review:

<http://www.montana.edu/~wwwbi/staff/mcmahon/CALFED%20Review.pdf>

NMFS Science Center review:

<http://swr.nmfs.noaa.gov/pdf/ScienceCenterReportOnOCAPBiOpReviews.25May06.final.pdf>

¹ Lindley *et al.* (2007) established salmonid ecoregions (*i.e.*, diversity groups) based on climatological, hydrological, and geological conditions in order to describe the population spatial structure of threatened and endangered Chinook salmon and steelhead in the Central Valley.