

**From:** Steven Vigg  
**Sent:** Tue 7/24/2007 5:02 PM  
**To:** O'Toole, Patty  
**Cc:** Wolf Dammers; Patrick Frazier; Bryce Glaser; Brad James; Guy Norman; Todd Pearsons; John Weinheimer  
**Subject:** Comment on Proposal 200754200: Shad for Nutrient Enhancement

Patty -

As administrative contact for Proposal 200754200, I offer a brief response to ISRP comments. The project is designed to evaluate four aspects of the use of American Shad for future Columbia Basin nutrient enhancement projects: (1) Demonstration of Fishery Supply, (2) Disease Evaluation, (3) Evaluation of Product Type and (4) Potential Demand. Detailed study designs will be developed for each of these components when/if the decision is made by the NPCC to fund this project.

We have heard from NOAA Fisheries in the US v. Oregon process that use of nutrient enhancement in various areas of the Columbia Basin has a great potential and its efficacy should be experimentally tested on a larger scale. Concurrently, we have heard from Washington Fish Enhancement Groups that they need a greater supply of salmon carcasses for streams within the same and adjacent basins that produce the surplus hatchery fish. This apparent fish management dilemma points to the opportunity and timeliness of the shad utilization proposal. We appreciate the positive overall comments of the ISRP, and their understanding of the management implications if this potential beneficial use of shad could be realized.

The ISRP has identified several points that need further clarification and more detailed description in terms of study design and methodology:

- What scale would shad carcasses or carcass analogs be introduced?
- What would be the spatial and temporal variation in shad placement and density?
- How will control sites be established and monitored?
- Where will the work be done (without confounding effects of other enhancement actions)?
- Logistics of fishery supply?
- The timing and form of nutrient additions.
- Effects on both focal and non-focal species.

We want to acknowledge that these are important details. The WDFW-lead inter-agency team plans to develop a detailed scientifically based study design given a "go-ahead" decision by the Council. We thank you for providing an opportunity to comment.

Steven Vigg, WDFW  
Region 5 Fish Harvest Manager