



Fish Health Laboratory
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FISH PATHOLOGIST REPORT- Annual Disease Certification

Location

Iron Gate Fish Hatchery

Date of Inspection

Nov. 11, 2006

Samples collected by: Mark Clifford, Ph.D. Associate Fish Pathologist

Samples tested by: CA. Dept. of Fish and Game, Fish Health Laboratory (CDFG)
The University of CA, Davis, Fish Pathology Lab (UCD)
Washington Animal Disease Diagnostic Laboratory (WADDL)

Purpose: Annual Certification- Fall Chinook salmon, November release.

Work was performed on 60 yearling (subcatchable) fish, randomly selected.

- Bacteriology was performed on all individual fish by plating kidney cultures onto TSA medium and incubating at 22°C for 5 days (CDFG).
- Whirling disease analysis was performed on the heads of all individuals by the pepsin-trypsin digest method (WADDL).
- Bacterial kidney disease (BKD) was evaluated by direct fluorescent antibody test (DFAT) on all individuals (5-fish pools, 12 samples total, WADDL).
- Virus analysis of kidney and spleen samples (pooled) were conducted on all individuals (5-fish pools, 12 samples total.). Samples were inoculated onto CHSE-214 and EPC cell monolayers and incubated at 15°C and 25°C for a minimum of 30 days (UCD).
- Microscopic evaluation of ectoparasites was performed on skin, fin and gill scrapes on a sub-sample of these fish (~10 fish).

Summary of Test Results:

- **Bacteriology:** no growth of bacteria on TSA medium
- **Whirling disease:** negative
- **Virology:** negative
- **Ectoparasites:** Light *Trichodina* on caudal fin of few fish, light *Trichodina* on skin (flank) of a few fish. No other ectoparasites were observed.

Approving Pathologist Signature