FISH PATHOLOGIST REPORT- Annual Disease Certification

Location  
Iron Gate Hatchery

Date of Inspection  
January 23, 2007

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

Work was performed on 60 yearling (subcatchable) steelhead, 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
- **BKD**: negative
- **Ectoparasites**: Few Capriniana piscium (Tricophora) on gills.

Mark Clifford, Ph.D.
Approving Pathologist Signature

Conserving California’s Wildlife Since 1870