

## United States Department of the Interior

## U.S. FISH & WILDLIFE SERVICE Idaho Fish Health Center



276 Dworshak Complex Drive Orofino, ID 83544-

Phone: 208-476-9500
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Case Information				
Case Number	18-095	Report Date	2018-02-28	
Case Date	2018-02-28	Reported By	MARILYN BLAIR	
Case Type	MONITORING	Title		

Facility Information				
Facility	Dworshak National Fish Hatchery	Location		
Address	276 DWORSHAK COMPLEX DRIVE	Contact	ADAM IZBICKI	
	OROFINO, ID 83544	Phone	208-476-4591	
		Fax		

Comments					
Background	Gas bubble monitoring for steelhead in System 2.				
	TDGs in North Fork Clearwater River: 122.7% at 1400 hours on 2/28/18.  TDGs in Hatchery Collection Channel: 104.9% at 1400 hours on 2/28/18.				
Remarks					

## **Species Information: steelhead (Clearwater)**

Sample Information				
Lot/Other Id		Water Source	Clearwater River	
Container	BP-26	Age Class	JUVENILE	
Number	10	Age(months)		
Condition	Live	Size(mm)		

Species Comments				
Remarks	All fish were collected arbitrarily from the general population of the pond.			
Internal Obs.	All fish had normal full levels of food in stomachs.			
	Nine fish had 50% visceral fat levels and 1 fish had 75% visceral fat.			
	Kidney and gill samples were taken to test for the parasite Nucleospora salmonis.			
External Obs.	Gills: Entire gill arches were excised for examination. Six fish had gas bubbles in the gills. Of these, four fish each had one bubble in the gills. The fifth fish had one bubble in each of 2 gill filaments and 2 bubble in a third filament. The sixth fish had 2 bubbles in each of 2 filaments and 1 bubble in a third filament.			
	Lateral lines: Four fish had 1-3 bubbles along the lateral line (1,3,3,3 bubbles per fish), all of rank 1.			
	Unpaired fins: One fish had 1 bubble in the anal fin, of rank 1.			
	No gas bubbles were observed in any eyes.			

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Species Comments	
Recommendations	Continue to watch for increases in mortality or fish going off of feed.

Assay Results				
# Tested	Pathogen/Syndrome Tested	Tissue Tested	Result	Result Comments
10	Nucleospora Salmonis	Kidney/Gill	Pending	5 2p PCR.
10	Gas Bubble Trauma	Eye	Not Detected	Both eyes of each fish.
10	Gas Bubble Trauma	Fin clip	Detected	One fish had one bubble in the anal fin, of rank 1.
10	Gas Bubble Trauma	Skin	Detected	Four fish had 1-3 bubbles along the lateral line, all of rank 1.
10	Gas Bubble Trauma	Gill	Detected	Six fish had 1-5 gas bubbles in the gills.