

<b>Case</b>	2010-1100	<b>Sent for Confirmation?</b>	No
<b>Type</b>	Diagnostic		
<b>Hatchery</b>	LITTLE CAMPBELL RIVER HATCHERY		
<b>Site</b>	MAIN - LCAM		
<b>Stock</b>	ACT LITTLE CAMPBELL R 2N W 2010		

**Comments** This case is for a submissions of Little Campbell anadromous cutthroat from Little Campbell hatchery. This hatchery is a satellite facility for Fraser Valley Trout Hatchery (FV staff will go out to collect and submit the sample). Hatchery staff report they are seeing higher than normal losses. Fish are held in earthen ponds so an external parasite is a likely suspect. A request has been made for 30 fish to be submitted to the FHL. Fish will be processed for skin wet mounts (20), skin gram stains(20), Gill gram stain (30) and Kidney tissue to be inoculated onto TSA and HS media.

**Results:**

Skin wet mounts: 10/20 fish found positive for the external parasite Trypanophrya on skin.

Skin Gram stain: 3/20 observed a few chain forming gram negative rod

Gill Gram stain: 30/30 positively observed long, thin, gram negative chain forming rods, typical of Bacterial Gill disease (BGD). Moderate to heavy numbers

Kidney on TSA: No pathogenic bacteria detected

Kidney on HS: No pathogenic bacteria detected

Presumptive Findings: Bacterial Gill disease is causing mortalities

Recommended treatment: Treat with Chloramine T at 15 ppm for 1 hour. Treat for 2 consecutive days, rest for 2 days then treat for two more consecutive days using parietalistic pump to initiate drip.

**Related Cases**

**SUBMISSIONS**

<b>Submission Date</b>	November 1, 2010	<b>Contact</b>	charlotte rosenau
<b>Comments</b>	Losses have escalated over the last few weeks. No visible marks or lesions on fish		
<b>Feed</b>	Feeding normally		
<b>Fish Culture Practices</b>	Routine		
<b>Behavior</b>	Normal except higher losses		

**TESTS**

Date	Reason	Disease Tested	Pathogen Type	Medium / Procedure	Tissue	Sample Qty	% Affected	Result
02-Nov-2010	Increased mortality	Gyrodactylus (Gyrodactylus salaris)	Parasitic	Wet Mount - Microscopy	skin	20	50.00	Positive

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**Hatchery** LITTLE CAMPBELL RIVER HATCHERY  
**Site** MAIN - LCAM  
**Stock** ACT LITTLE CAMPBELL R 2N W 2010

**Comments:** 10/20 positive for *Trycophyra*

02-Nov-2010	Increased mortality	Unknown bacterial	Bacterial	Gram stain - Stain	skin	20	15.00	Positive
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**Comments:** 3/20 observed few chain froming gram negative rods, light to med

02-Nov-2010	Increased mortality	Unknown bacterial	Bacterial	Gram stain - Stain	gill	30	100.00	Positive
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**Comments:** 30/30 long, thin, gram negative rods, BGD, med-heavy

02-Nov-2010	Increased mortality	Unknown bacterial	Bacterial	TSA (tryptic soy agar) - Bacterial	kidney	30	3.00	Positive
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**Comments:** 1/30 presumptive for *Vibrio spp.*

02-Nov-2010	Increased mortality	Unknown bacterial	Bacterial	HS (Sheih's media) - Bacterial	kidney	30	0.00	Negative
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**Comments:** no pathogenic bacteria detected

19-Nov-2010	Confirmation	Vibrosis type 1 (Vibrio anguillarum (type 1))	Bacterial	Latex bead agglutination test - Agglutination	bacteria from tissue	1	0.00	Negative
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**Comments:** 1/1 negative for *Vibrio anguillarum* serotype 1

19-Nov-2010	Confirmation	Vibrosis type 2 (Vibrio anguillarum (type 2))	Bacterial	Latex bead agglutination test - Agglutination	bacteria from tissue	1	0.00	Negative
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**Comments:** 1/1 negative for *Vibrio anguillarum* serotype 2

#### RECOMMENDED TREATMENTS

Treatment	Dosage	Priority	Comments
Chloramine T	15 ppm for 1 hour	1	Treat for 2 consecutive days, rest for two days, treat for two consecutive days. Use perstaltic pump.

#### ACTUAL TREATMENTS

Date	Treatment	Container	Cont Type	Water Supply	Comments
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Authorized By \_\_\_\_\_

Date \_\_\_\_\_