



Fisheries and Oceans / Pêches et Océans  
Canada / Canada

**FISH HEALTH CERTIFICATE**

Name of facility/source Cascade Aqua Farms Address 814 King Road  
Winlock, WA 98596 Telephone No. (360)785-7506

I, John D. Cvitanich, as a Fish Health Official under the Fish Health Protection Regulations, certify that the source indicated above was inspected by the methods approved by the Minister of Fisheries and Oceans Canada, and that the following pathogen status was determined as required by those Regulations.

Pathogen	Detected	Not Detected	Not Tested
Viral Hemorrhagic Septicemia Virus	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Infectious Hematopoietic Necrosis Virus	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Infectious Pancreatic Necrosis Virus	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other filterable replicating agent	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Aeromonas salmonicida</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Yersinia ruckeri</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Mycobolus cerebralis</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Gerabomyxa shasta</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Other pathogens (specify if possible) \_\_\_\_\_

Dates of the last four previous inspections:

25/11/98 (D/M/Y)      22/05/98 (D/M/Y)      22/11/97 (D/M/Y)      29/04/97 (D/M/Y)  
28/05/99 (D/M/Y)      John D. Cvitanich Signature and Address of Fish Health Official      Fish Health Laboratory      (541)367-6300 Telephone No.  
2252 Main Street  
Sweet Home, OR 97386

This certificate expires on the date the pathogen status changes or 28/02/00, whichever is the earlier.

**EXPORTER'S DECLARATION**

I, \_\_\_\_\_ ( ) owner ( ) manager of the above noted facility which was last inspected on (D/M/Y) \_\_\_\_\_, declare that, to my knowledge, no disease agent listed in Schedule II of the Fish Health Protection Regulations (FHPR) that would alter the above described pathogen status have been detected, in this facility, according to the procedures outlined in the FHPR Manual of Compliance since the last FHPR inspection, that no introduction of fish or fish eggs from any source that would alter the above pathogen status has been made into the facility, that the shipment described above will be derived solely from this facility, and that eggs in the shipment will be surface disinfected prior to leaving the source.

I, \_\_\_\_\_ consignor of eggs taken from wild spawners declare that these eggs will be surface disinfected and that they derive solely from the above inspected source.

This shipment consists of:  
\_\_\_\_\_ kg       Live       Eggs      Species: \_\_\_\_\_  
\_\_\_\_\_ Number       Dead       Fish      Species: \_\_\_\_\_

Date \_\_\_\_\_ Signature and Address of Owner, Manager or Consignor \_\_\_\_\_ Telephone No. \_\_\_\_\_

**IMPORTING INFORMATION**

Departing city and country \_\_\_\_\_ Carrier \_\_\_\_\_  
Bill of lading No. \_\_\_\_\_ Date \_\_\_\_\_  
Anticipated port of arrival in Canada (City and Province): \_\_\_\_\_ Date \_\_\_\_\_  
Date \_\_\_\_\_ Signature and Address of Importer \_\_\_\_\_ Telephone No. \_\_\_\_\_

### RPC Aquaculture Diagnostics Fish Health Inspection Report

Fish Source: Boot Lagoon Hatchery  
 Location: Site 306, C-13 R.R. #3  
 Central Lake Road  
 Port Alberni, B.C.

Owner/Manager: Caroline Cherry  
 Phone: (250) 723-4644

Current Inspection: 01/08/00

Prior Inspections: 04/05/00  
 14/04/00  
 14/03/00  
 20/09/99  
 30/08/99

Type of Fish Examined: Hatchery

Water Source: Fresh  
 Water Treatment:

Species	Lot ID	Age	Number in Lot	Eggs (E) or Fish (F) Origin	Sample Date	Cultureable Viral Pathogens					Protozoan Pathogens		Bacterial Pathogens				Non Cultureable Viral Pathogens			Other	
						OMV	IPN	JHN	VHS	ISA	WD	CS	BF	BRM	BKD	PS	PL	EBS	VEN	Other	
						E24B	E24B	E24B	E24B	E26B	B	C*	A1AG	A1AG	A1G	A17G	A17G	A8G			
ATS	Tank 605	8 mths		(F) Cascade Aquaculture Cascade stock	01/08/00	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
ATS	Tank 606	8 mths		(F) Cascade Aquaculture Cascade stock	01/08/00	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
ATS	Tank 611	8 mths		(F) Cascade Aquaculture Cascade stock	01/08/00	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
ATS	Tank 612	8 mths		(F) Cascade Aquaculture Cascade stock	01/08/00	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
ATS	Tank 613	8 mths		(F) Cascade Aquaculture Cascade stock	01/08/00	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
ATS	Tank 614	8 mths		(F) Cascade Aquaculture Cascade stock	01/08/00	20	20	20	20	20	20	20	20	20	20	20	20	20	20		

**Note:**

\* See other side of sheet for explanation of Pathogens - Methods and Results coding.

Samples were inspected according to the Canadian FHPR Manual of Compliance procedures / O.J.E Diagnostic Manual for Aquatic Animal Diseases 1997 / Disease of Seawater Netpen Reared Salmonid Fishes, Kent et al.

\* *Ceratomyxa shasta* testing was performed using expressed fecal material.

Samples Necropsied By: Rebecca Liston

Affiliation: rpc, 921 College Hill Road, Fredericton, N.B., E3B 6Z9, Canada  
 Telephone: (508) 452-1379

Inspecting Biologist:   
 Dr. Steve Griffiths, Fish Health Officer (FHPR)  
 RPC, 921 College Hill Road, Fredericton, N.B. E3B 6Z9 (506) 452-1368

## RPC Aquaculture Diagnostics Fish Health Inspection Report

**Fish Source:** Boot Lagoon Hatchery  
**Location:** Site 306, C-13 R.R. #3  
 Central Lake Road  
 Port Alberni, B.C.

**Owner/Manager:** Caroline Cherry  
**Phone:** (250) 723-4644

**Current Inspection:** 04/05/00

**Prior Inspections:** 14/04/00  
 14/03/00  
 20/09/99  
 30/08/99

**Type of Fish Examined:** Hatchery

**Water Source:** Fresh  
**Water Treatment:**

05/26/2000 10:23

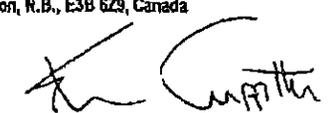
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RPC FFA

PAGE 02

Species	Lot ID	Age	Number in Lot	Eggs (E) or Fish (F) Origin	Sample Date	Cultureable Viral Pathogens					Protozoan Pathogens		Bacterial Pathogens				Non Cultureable Viral Pathogens			Other
						OHV	IPN	IHN	VHS	ISA	WD	CS	BF	BRM	BKD	PS	PL	E/BS	VEN	Other
ATS	Q1 M00-033	4 month		(F) Cascade Aquaculture Cascade stock	04/05/00	30	30	30	30	30	30	30	30	30	30	30	30	30		
						E24B	E24B	E24B	E24B	E26B	B	C*	A1AG	A1AG	A1G	A17G	A17G	A8G		
						-	-	-	-	-	-	-	-	-	-	-	-	-		
ATS	Q2 M00-033	4 month		(F) Cascade Aquaculture Cascade stock	04/05/00	30	30	30	30	30	30	30	30	30	30	30	30	30		
						E24B	E24B	E24B	E24B	E26B	B	C*	A1AG	A1AG	A1G	A17G	A17G	A8G		
						-	-	-	-	-	-	-	-	-	-	-	-	-		
ATS	Q3 M00-033	4 month		(F) Cascade Aquaculture Cascade stock	04/05/00	30	30	30	30	30	30	30	30	30	30	30	30	30		
						E24B	E24B	E24B	E24B	E26B	B	C*	A1AG	A1AG	A1G	A17G	A17G	A8G		
						-	-	-	-	-	-	-	-	-	-	-	-	-		

**Note:**  
 \* See other side of sheet for explanation of Pathogens - Methods and Results coding.  
 Samples were inspected according to the Canadian FHPR Manual of Compliance procedures / O.I.E Diagnostic Manual for Aquatic Animal Diseases 1997 / Disease of Seawater Netpen Reared Salmonid Fishes, Kent et al.  
 \* *Ceratomyxa shasta* testing was performed using expressed fecal material.

Samples Necropsied By: Lynn A. Hutchin  
 Affiliation: rpc, 921 College Hill Road, Fredericton, N.B., E3B 6Z9, Canada  
 Telephone: (506) 452-1374  
 Inspecting Biologist:  
  
 Dr. Steve Griffiths, Fish Health Officer (FHPR)



RPC Aquaculture Diagnostics Fish Health Inspection Report

Fish Source: Boot Lagoon Hatchery  
 Location: Site 306, C-13 R.R. #3  
 Central Laka Road  
 Port Alberni, B.C.

Owner/Manager: Caroline Cherry  
 Phone: (250) 723-4644

Current Inspection: 04/05/00

Prior Inspections: 14/04/00  
 14/03/00  
 20/09/99  
 30/08/99

**DRAFT**

Type of Fish Examined: Hatchery

Water Source: Fresh  
 Water Treatment:

Species	Lot ID	Age	Number In Lot	Eggs (E) or Fish (F) Origin	Sample Date	Cultureable Viral Pathogens					Protozoan Pathogens		Bacterial Pathogens				Non Cultureable Viral Pathogens			Other	
						OMV	IPN	IHN	VHS	ISA	WD	CS	BF	BRM	BKD	PS	PL	EB3	VEN	Other	
ATS	Q1 M00-033	4 month		(F) Cascade Aquaculture Cascade stock	04/05/00	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
						E24B	E24B	E24B	E24B	E26B	B	C*	A1AG	A1AG	A1CL	A17G	A17G	A8G			
ATS	Q2 M00-033	4 month		(F) Cascade Aquaculture Cascade stock	04/05/00	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
						E24B	E24B	E24B	E24B	E26B	B	C*	A1AG	A1AG	A1CL	A17G	A17G	A8G			
ATS	Q3 M00-033	4 month		(F) Cascade Aquaculture Cascade stock	04/05/00	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
						E24B	E24B	E24B	E24B	E26B	B	C*	A1AG	A1AG	A1CL	A17G	A17G	A8G			
<p>Note:</p> <ul style="list-style-type: none"> <li>* See other side of sheet for explanation of Pathogens - Methods and Results coding.</li> </ul> <p>Samples were inspected according to the Canadian FHPR Manual of Compliance procedures / O.I.E Diagnostic Manual for Aquatic Animal Diseases 1997 / Disease of Seawater Netpen Reared Salmonid Fishes, Kent et al.</p> <ul style="list-style-type: none"> <li>* Ceratomyxa shasta testing was performed using expressed fecal material.</li> </ul>						<p>Samples Necropsied By: Lynn A. Hutchin</p> <p>Affiliation: rpc, 821 College Hill Road, Fredericton, N.B., E3B 6Z9, Canada                  Telephone: (506) 452-1374</p> <p>Inspecting Biologist:</p> <p><i>Steve Griffiths</i>                  Dr. Steve Griffiths, Fish Health Officer (FHPR)</p>															

PC: 10:34

DB: 04/05/00

RPC: H-1A

PAGE: 04

**RPC Aquaculture Diagnostics Fish Health Inspection Report**

Fish Source: **Boat Lagoon Hatchery**  
 Location: **Site 306, C-13 R.R. #3**  
**Central Lake Road**  
**Port Alberni, B.C.**

Owner/Manager: **Caroline Cherry**  
 Phone: **(250) 723-4644**

Current Inspection: **14/03/00**

Prior Inspections: **20/09/99**  
**30/08/99**

Type of Fish Examined: **Fresh**

Water Source: **Fresh**  
 Water Treatment:

*fish too small to carry out full work out.*

Species	Lot ID	Age	Number in Lot	Eggs (E) or Fish (F) Origin	Sample Date	Cultureable Viral Pathogens					Protozoan Pathogens		Bacterial Pathogens			Non Cultureable Viral Pathogens			Other
						OMV	IPN	IHN	VHS	ISA	WD	CS	BF	BRM	BKD	PL	EBS	VEN	Other
ATS	Q1 M00-033	2 month		(F) Cascade Aquaculture Cascade stock	14/03/00	30	30	30	30	30			10	10					10
						E24B	E24B	E24B	E24B	E26B			ABIAG	AB1AG					AB4BG
						-	-	-	-	-			**	**					**
ATS	Q2 M00-033	2 month		(F) Cascade Aquaculture Cascade stock	14/03/00	30	30	30	30	30			10	10					10
						E24B	E24B	E24B	E24B	E26B			ABIAG	AB1AG					AB4BG
						-	-	-	-	-			**	**					**
ATS	Q3 M00-033	2 month		(F) Cascade Aquaculture Cascade stock	14/03/00	30	30	30	30	30			5	5					5
						E24B	E24B	E24B	E24B	E26B			ABIAG	AB1AG					AB4BG
						-	-	-	-	-			**	**					**
<p>Note:</p> <ul style="list-style-type: none"> <li>* See other side of sheet for explanation of Pathogens - Methods and Results coding.</li> <li>Samples were inspected according to the Canadian FHPR Manual of Compliance procedures / O.I.E Diagnostic Manual for Aquatic Animal Diseases 1997 / Disease of Seawater Netpen Reared Salmonid Fishes, Kent et al.</li> <li>** See attached sheets for Bacteriology and Histology results.</li> </ul>						<p>Samples Necropsied By: <b>Lynn A. Hutchin</b></p> <p>Affiliation: <b>rpc, 921 College Hill Road, Fredericton, N.B., E3B 6Z9, Canada</b>                  Telephone: <b>(506) 452-1374</b></p> <p>Inspecting Biologist:</p> <p style="text-align: center;">  <b>Dr. Steve Griffiths, Fish Health Officer (FHPR)</b></p>													

04/14/2000 12:42

00000000/3

RPC:THA

FAC: 07



# ***Fish Health***

Diagnostic & Research Laboratory

2252 Main St.  
Sweet Home, OR 97386 ~ USA  
Phone) 541-367-6300 Fax) 541-367-6399

Brian Mencke  
Cascade Aqua Farms  
814 King Road  
Winlock, WA 98596

November 22, 1999

Reference No: FH 032-99

Dear Mr. Mencke,

On October 29 and 30, 1999, samples were taken from 3 groups of spawning Atlantic salmon broodstock at your Cascade Aqua Farms facility located on Cinebar creek, Cinebar, WA. The groups included (1) 280 4-year old Gaspe (CAF-4) (30 females/lethal, 30 males/lethal, and 220 females/non-lethal), (2) 90 3-year old Gaspe (CAF-3) (30 females/lethal, 30 males/lethal, 30 females/non-lethal), and (3) 64 4-year old Cascade Aqua Farm stock (CAF) (all females/non-lethal). These adult samples were taken to satisfy requirements for Canadian certification and Chilean requirements for importation of eggs. Eggs from CAF-4 and CAF to be used for Chilean egg sales.

All samples were processed according to methods described in the Canadian Fish Health Protection Regulations Manual of Compliance.

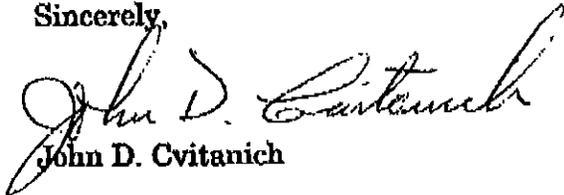
Virus samples consisted of gill, kidney, spleen, and pyloric caeca tissues from lethally sampled fish, and ovarian fluid from non-lethally sampled fish. Samples from individual fish were processed in up to 5-fish pools and assayed for viruses on the EPC and CHSE-214 cell lines. Tissue samples from 30 CAF-4 females and ovarian fluids from 220 CAF-4 and 64 CAF females were also processed in 5-fish pools and additionally tested for Infectious Salmon Anemia virus (ISAV) on the SHK cell line. SHK cells were grown in Leibovitz's L-15 medium supplemented with 5% fetal bovine serum, 2 mercaptoethanol (800 µl / liter of a 1000x solution; Gibco cat. no 21985-023), and the normal antimicrobials. All cell lines were

FH 032-00

incubated at 15° C, the EPC's and CHSE-214's for 21 days and the SHK's for 28 days. Fish heads were processed using the plankton-centrifuge method and examined for the presence of *Myxobolus cerebralis*. Wet mounts of rectum contents were examined for the presence of *Ceratomyxa shasta*. Kidney tissue taken from individual fish was inoculated onto Trypticase Soy Agar (TSA) plates and incubated at room temperature for one week. Kidney smears from lethally sampled fish and smears prepared from ovarian fluids from non-lethally sampled fish were examined for the presence of *Renibacterium salmoninarum* (all groups) and *Piscirickettsia salmonis* (CAF-4 & CAF) using the direct fluorescent antibody technique (DFAT).

No evidence of Infectious Pancreatic Necrosis Virus (IPNV), Infectious Hematopoietic Necrosis Virus (IHNV), Viral Hemorrhagic Septicemia Virus (VHSV), Epizootic Hematopoietic Necrosis Virus (EHNV), *Oncorhynchus masou* Virus (OMV), ISAV, or any other CPE-producing agent was observed in cell cultures. Spores resembling *M. cerebralis* were not detected in concentrates of head-cartilage preparations and rectum contents were negative for *C. shasta*. No bacterial fish pathogens were detected on TSA and *R. salmoninarum* and *P. salmonis* were not observed in any preparations.

Sincerely,



John D. Cvitanich

Canadian Fish Health Official  
USFWS Title 50 Inspector  
AFS/FHS Certified Fish Pathologist



Fisheries and Oceans Canada / Pêches et Océans Canada

**FISH HEALTH CERTIFICATE**

Name of facility/source Cascade Aqua Farms Address 814 King Road  
Winlock, WA 98596 Telephone No. (360)785-7506

I, John Cvitanich, as a Fish Health Official under the Fish Health Protection Regulations, certify that the source indicated above was inspected by the methods approved by the Minister of Fisheries and Oceans Canada, and that the following pathogen status was determined as required by those Regulations.

Pathogen	Detected	Not Detected	Not Tested
Viral Hemorrhagic Septicemia Virus	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Infectious Hematopoietic Necrosis Virus	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Infectious Pancreatic Necrosis Virus	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other filterable replicating agent	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Aeromonas salmonicida</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Yersinia ruckeri</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Mycobolus cerebralis</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Ceratomyxa shasta</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Other pathogens (specify if possible) \_\_\_\_\_

Dates of the last four previous inspections:

28/05/99      25/11/98      22/05/98      22/11/97  
 (D/M/Y)      (D/M/Y)      (D/M/Y)      (D/M/Y)

21/11/99      John Cvitanich      Fish Health Laboratory      (541)367-6300  
 Date of Issue      Signature and Address of Fish Health Official      2252 Main Street      Telephone No.  
 Sweet Home, OR 97386

This certificate expires on the date the pathogen status changes or 21/08/00, whichever is the earlier.

**EXPORTER'S DECLARATION**

I, \_\_\_\_\_, owner  manager of the above noted facility which was last inspected on (D/M/Y) \_\_\_\_\_, declare that, to my knowledge, no disease agent listed in Schedule II of the Fish Health Protection Regulations (FHPR) that would alter the above described pathogen status have been detected, in this facility, according to the procedures outlined in the FHPR Manual of Compliance since the last FHPR inspection, that no introduction of fish or fish eggs from any source that would alter the above pathogen status has been made into the facility, that the shipment described above will be derived solely from this facility, and that eggs in the shipment will be surface disinfected prior to leaving the source.

I, \_\_\_\_\_, consignor of eggs taken from wild spawners declare that these eggs will be surface disinfected and that they derive solely from the above inspected source.

This shipment consists of:

\_\_\_\_\_ kg       Live       Eggs      Species: \_\_\_\_\_  
 \_\_\_\_\_ Number       Dead       Fish      Species: \_\_\_\_\_

\_\_\_\_\_  
 Date      Signature and Address of Owner, Manager or Consignor      Telephone No.

**IMPORTING INFORMATION**

Departing city and country \_\_\_\_\_ Carrier \_\_\_\_\_

Bill of lading No. \_\_\_\_\_ Date \_\_\_\_\_

Anticipated port of arrival in Canada (City and Province): \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_  
 Date      Signature and Address of Importer      Telephone No.