



Fisheries
and Oceans

Pêches
et Océans

Fish Health Unit
343 Université Ave.
P.O. Box 5030
Moncton, NB, E1C 9B6

(506) 851-2079 Fax
(506) 851-6081 Phone

December 6, 2011

LABORATORY REPORT

TO: Canadian Food Inspection Agency
4321 Still Creek
Burnaby, BC
V5C 6S7

Attn: Dr. Ray Fletcher

CASE # 2011-214
REFERENCE #
REGION Pacific
RECEIVED 2011/10/20

SAMPLE DATA

SPECIES 288 sockeye salmon (*Oncorhynchus nerka*); 10 coho salmon (*Oncorhynchus kisutch*); 1 chum salmon (*Oncorhynchus keta*)

DATE COLLECTED May/June 2011

SAMPLE 299
SIZE

AGE smolt

SAMPLE SITE unknown

LENGTH 4 -7 cm

POPULATION
SIZE N/A

ORIGIN OF STOCK unknown

REASON FOR EXAMINATION Response to notification - ISAV

DIAGNOSIS Inconclusive for infectious salmon anaemia virus (ISAV) by quantitative reverse transcriptase polymerase chain reaction method.

REPORT On October 20, 2011 the National Aquatic Animal Health Laboratory at the Gulf Fisheries Centre (GFC) received a total of 299 frozen fish collected at Simon Fraser University to be tested for the infectious salmon anaemia virus (ISAV) by the quantitative reverse transcriptase polymerase chain reaction (qRT-PCR) method. All 299 fish were necropsied on October 20-21, 2011.

Sample tissues of heart, kidney and gills were extracted from the fish for qRT-PCR assay; due to sample condition, no heart tissues were taken from 2 out of 299 fish. Due to small volume of tissues available, backup kidney tissues were taken from only three fish for potential subsequent confirmatory testing by cell culture assay.

None of the 297 heart tissues and 157 gill tissues tested showed positive results for ISAV by qRT-PCR. Although the qRT-PCR assay passed the quality assurance test based on the results obtained from positive and negative controls for all samples, the reference gene test results on the first batch of 84 samples indicated compromising RNA degradation (hence the inconclusive result) and testing was halted at this point for that reason.

**FILE
COMPLETED**
25/11/11 PB

Nellie Gagné - Head
Molecular Biology Unit

Pascal Boudreau - Head
Fish Health Unit

Anne Veniot - Head
Aquatic Animal Health