

Commission of Inquiry into the Decline of
Sockeye Salmon in the Fraser River



Commission d'enquête sur le déclin des
populations de saumon rouge du fleuve Fraser

Public Hearings

Audience publique

Commissioner

L'Honorable juge /
The Honourable Justice
Bruce Cohen

Commissaire

Held at:

Asia Pacific Hall at the
Morris J Wosk Centre for Dialogue
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Vancouver, B.C.

Monday, December 19, 2011

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Asia Pacific du
Morris J Wosk Centre for Dialogue
580 rue Hastings Ouest
Vancouver (C.-B.)

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No appearance	Heiltsuk Tribal Council ("HTC")

TABLE OF CONTENTS / TABLE DES MATIERES

	PAGE
PANEL NO. 67 (cont'd):	
SIMON JONES	
Cross-exam by Mr. Taylor (cont'd)	1/2/3/4/5/110/116
Cross-exam by Ms. Callan	21/22/23
Cross-exam by Mr. McDade	50
Cross-exam by Mr. Harrison	56/60/66
Cross-exam by Mr. Rosenbloom	73
Cross-exam by Ms. Schabus	94/100/101
KIM KLOTINS	
Cross-exam by Mr. Taylor (cont'd)	6/7/8/9/12/13/14/15/113
Cross-exam by Ms. Callan	19/20/21/25/26/27
Cross-exam by Mr. Hopkins-Utter	27/28/29/30
Cross-exam by Mr. McDade	35/36/38/39/40/42/44/45/55
Cross-exam by Mr. Harrison	58/61/63/64
Cross-exam by Mr. Rosenbloom	76
Cross-exam by Ms. Pence	80/85/86/87/88/89/92
Cross-exam by Ms. Schabus	94/99/101
Cross-exam by Ms. Robertson	103/105/108
STEPHEN STEPHEN	
Cross-exam by Mr. Taylor (cont'd)	7/8/9/10/11
Cross-exam by Ms. Callan	26
Cross-exam by Mr. McDade	35/37/38/39/40/44/45/49/54
Cross-exam by Mr. Harrison	58/64
Cross-exam by Mr. Rosenbloom	67/78
Cross-exam by Ms. Pence	83/85/86/87/88/89/91/92
Cross-exam by Ms. Schabus	93/98/101
Cross-exam by Ms. Robertson	104/106/109
Re-exam by Mr. Martland	118/120

TABLE OF CONTENTS / TABLE DES MATIERES

	PAGE
PANEL NO. 67 (cont'd):	
PETER WRIGHT	
Cross-exam by Mr. Taylor (cont'd)	10/11/12/116
Cross-exam by Ms. Callan	17/18/19/20/24/25/26
Cross-exam by Mr. Hopkins-Utter	30/31/32/33/34
Cross-exam by Mr. McDade	50/60/62
Cross-exam by Ms. Pence	80/87
Cross-exam by Ms. Schabus	94
Cross-exam by Ms. Robertson	107
Re-exam by Mr. Martland	119

EXHIBITS / PIECES

<u>No.</u>	<u>Description</u>	<u>Page</u>
2118	Series of e-mails between Dr. Fred Kibenge and Dr. Simon Jones re: ASK-2 cell line and viral RNA, et al, with attached untitled documents	4
2119	Memorandum to the Minister, Complementary Surveillance Effort in Cultured and Wild Salmonid Species in B.C.	12
2120	E-mail dated 11/30/2011, from Brian Evans to Cornelius Riley, Subject: TR: ISA virus British Columbia, with attached copy of OIE letter to Alexandra Morton	13
2121	CFIA Aquatic Animal Health Laboratory Assessment Working Group National Emergency Response Team (NERT)	14
2122	Summary of Information from a Document Review and On-Site Visit (November 18, 2011) for the ISA OIE Reference Laboratory at Atlantic Veterinary College	14
2123	LC480 Data Analysis of ISAV Testing at AVC, November 29, 2011	14
2124	E-mail dated December 2, 2011, from Peter Wright to Nellie Gagné, Stephen Stephen, et al, Subject: Paper authored by Molly Kibenge et al	14
2125	E-mail dated December 9, 2011, from Nellie Gagné to Nellie Gagné, Subject: Latest tests on 2004 Molly Kibenge's samples, with attachments	15
2126	CFIA Call Log by Ray J. Fletcher, dated November 30, 2011	15
2127	Umbrella Memorandum of Understanding (MOU) on the Development and Implementation of a National Aquatic Animal Health Program between DFO and CFIA	15
2128	CFIA website Screenshot re: Changes to the Health of Animals Regulations - Aquatic Animal Diseases, with attached weblink	16
2129	CFIA website screenshot re: Infectious Salmon Anaemia, with attached weblink	16

EXHIBITS / PIECES

<u>No.</u>	<u>Description</u>	<u>Page</u>
2130	DFO website screenshot re: Infectious Salmon Anaemia (ISA) Virus - Accepted Testing Methods, with attached weblink	16
2131	DFO and CFIA Joint Letter of Co-Operation on Fish Disease Management, dated November 18, 2011	16
2132	DFO, Protecting Canada's Aquatic Species from a Disease - a Focus on Canada's Pacific Region	16
2133	E-mail dated December 9, 2011, from Nellie Gagné to Nellie Gagné, Subject: ISAV test results, case 2011-261 samples of RNA submitted from Kristi Miller, with 10 attachments	16
2134	Aquatic Code, Ch. 1.4 Aquatic Animal Health Surveillance	66
2135	Email from Timothy Davis and attached PCR Issues	80
2136	Email from Peter Wright to Stewart Johnson dated November 18, 2011	80
2137	Email chain between Stephen Stephen and Dr. Kiley	82
2138	Aquatic Animal Health's Technical Briefing Regarding the Reported Suspect Finding of Infectious Salmon Anaemia Virus (ISAV) in BC	87
2139	Assembly of First Nations First Nations Perspectives: Review of National Aquatic Animal Health Program	92
2140	Email from Molly Kibenge to Dr. Jones dated March 5, 2004	113
2141	Timeline ISAV #1	114
2142	Timeline ISAV #2	114
2143	Work flow timeline	115
2144	Email from Kim Klotins to Fred Kibenge dated October 20, 2011 formerly marked RRR for identification	117
2145	Document outlining Kyle Garver's testing in Strait of Georgia 2010 and 2011	118

EXHIBITS / PIECES

<u>No.</u>	<u>Description</u>	<u>Page</u>
------------	--------------------	-------------

EXHIBITS FOR IDENTIFICATION / PIECES POUR IDENTIFICATION

TTT	Goldes, A Critique on Infectious Salmon Anemia Virus Detection Capabilities of the Canadian Fish Health Protection Regulations, 2011	55
UUU	Document entitled ISA Virus	86
VVV	Email chain	92

1 Vancouver, B.C. /Vancouver
2 (C.-B.)
3 December 19, 2011/le 19
4 decembre 2011
5

6 MS. PANCHUK: The hearing is now resumed.

7 MR. TAYLOR: Thank you, Mr. Commissioner. It's 9:06.
8 I understand I have 32 minutes.
9

10 CROSS-EXAMINATION BY MR. TAYLOR, continuing:
11

12 Q Dr. Jones, I'm going to begin this morning with
13 some questions of you. There's several versions
14 of what I call the Molly Kibenge manuscript, and
15 you're familiar with that. There is an
16 unlabelled, undated one, which is at Canada's Tab
17 30, and to the best of my knowledge that's Exhibit
18 2113, which we should probably have on the screen.
19 And you're familiar with what I'm referring to,
20 yes, by the unlabelled one?

21 DR. JONES: Yes, I am.

22 Q And then there's multiple copies with some
23 differences between them of the one that has a
24 title and a list of names on it. They're at
25 Canada's Tab 18, and some of that is also at the
26 Commission's Tab 29. And one of those versions is
27 Exhibit 2045. We could put it up beside.

28 Now, starting -- the other one is going to
29 come up and I think the date is pretty clear, but
30 could you confirm -- yeah, within that, Mr. Lunn,
31 there's some papers. Can you confirm, Dr. Jones,
32 that what's on the right side of the screen is
33 something that came into existence in 2004?

34 DR. JONES: On the right side of the screen, that
35 document came into existence in 2004.

36 Q Right. And you've read both versions, have you?

37 DR. JONES: Yes.

38 Q We've heard, that is, you've read the right side
39 of the screen and the left side of the screen.
40 We've heard evidence from Nellie Gagné that she's
41 tested some of Molly Kibenge's samples with
42 negative results. Now, I'm correct that you're
43 familiar with that testing that was done in 2004,
44 are you?

45 DR. JONES: Yes, I am.

46 Q And is there any mention in either of the versions
47 of Molly Kibenge's paper of those results that

1 Molly Kibenge found?

2 DR. JONES: No, there's not.

3 Q Now, on the titled version you'll see that you're
4 the second named person in the part where there's
5 authors listed. What was your role, if any, in
6 that manuscript?

7 DR. JONES: I was the supervisor for Dr. Molly Kibenge,
8 when she worked in the laboratory at the Pacific
9 Biological Station, and as her supervisor it was
10 my responsibility to ensure that the work was
11 documented in the form of, ultimately, a
12 manuscript that would be publishable. My role in
13 this manuscript was to provide comments on the
14 work.

15 Q All right. Is that -- what's the reason why your
16 name is on the manuscript, then?

17 DR. JONES: Well, it's common practice that
18 supervisors' names are included as co-authors on a
19 document. Molly was the lead author on this, it
20 was her work, and she drafted the manuscript, so
21 it's not unusual that other researchers in the
22 group would also be included as co-authors.

23 Q All right. Thank you. Now, you've testified that
24 you are not confident in the results that Molly
25 Kibenge obtained, and you've given reasons for
26 that. But further in this regard, I'd like you to
27 look at a document that, Mr. Lunn, if you could
28 bring up on the screen, please, a document that
29 has multiple pages that you would have received
30 over the weekend. It's a previously disclosed
31 document, but it's not in one of the books.

32 And when it comes up, there are page numbers
33 in the upper right corner, and I want to go to
34 page 13. And as it comes up, Dr. Jones, what I
35 want to ask you about is reagent contamination.
36 Yes, that's the document, if we could have 13.
37 Thank you.

38 Can you just explain, firstly, reagent
39 contamination, Dr. Jones?

40 DR. JONES: Well, in this context, the reagents refer
41 to the chemicals that used in a mixture that form
42 the basis of a PCR or an RT-PCR reaction, and
43 reagent contamination refers to the possibility
44 that those reagents have been contaminated with
45 extraneous nucleic acids, which could cause a
46 reaction to yield a false positive.

47 Q Okay. You're familiar with the page on the screen

1 and the series of documents or e-mails, are you?

2 DR. JONES: Yes, I am.

3 Q And whose writing is this?

4 DR. JONES: This is part of a report that was sent back
5 to me from Professor Kibenge in Charlottetown that
6 outlines his results from an assessment of
7 material that was sent to him.

8 Q All right. Because we've got two Dr. Kibenges in
9 play here, we'll have to use first names, too, I
10 think.

11 DR. JONES: Okay. So Professor Fred Kibenge, in
12 Charlottetown is the author of these -- of this
13 document.

14 Q All right. And you'll see a reference in there to
15 reagent contamination, about the middle of the
16 text. Can you comment on the significance of the
17 possibility of reagent contamination and how it
18 influenced your thinking on Molly's results?

19 DR. JONES: Well, I think just to provide a broader
20 context to this, is that we were trying to
21 understand the significance of the PCR findings
22 that Molly was obtaining and we're getting PCR
23 positives in -- at a time where there was no other
24 reason to believe that we should see ISA from
25 samples that were obtained from wild Pacific
26 salmon in British Columbia. So we were very, very
27 sceptical as to drawing or at least hesitant to
28 draw the conclusion that this was, indeed, ISA
29 virus, so this is why we tried to repeat the
30 samples, or the analyses on these samples. We'd
31 sent them to other labs to be reassessed. And it
32 was very important that any data that we obtained
33 in this regard was impeccable, that we couldn't
34 find in it any reason to doubt the validity of the
35 information.

36 So when I read this, and I appreciate that
37 Dr. Kibenge, Fred Kibenge, is an expert in ISA
38 virus, when he raises the possibility and he says
39 even though it's however small that this may have
40 been due to reagent contamination, perhaps as a
41 result of a graduate student working in the same
42 environment, then in my mind this raises a
43 question of concern as to the reliability of this
44 evidence.

45 So it was another piece in the puzzle that
46 caused us to have some doubt as to the reliability
47 of this information.

1 MR. TAYLOR: All right. Thanks. May this series of
2 documents be the next exhibit, please.

3 MS. PANCHUK: 2118.

4

5 EXHIBIT 2118: Series of e-mails between Dr.
6 Fred Kibenge and Dr. Simon Jones re: ASK-2
7 cell line and viral RNA, et al, with attached
8 untitled documents
9

10 MR. TAYLOR:

11 Q Now, the documents that we've seen as to Molly
12 Kibenge's work drop off in about 2005 until a
13 recent set of documents that came about in
14 November of this year, and you've testified that
15 she returned to the University of Prince Edward
16 Island AVC in about the summer of 2004. When she
17 left in -- the Pacific Biological Station in 2004,
18 from then until recently, did you hear from Molly
19 Kibenge about ISA at all?

20 DR. JONES: Yes, I did. I received an e-mail. It was,
21 I believe, 2005, or early in 2005, I'm not sure of
22 the exact date, but there was a time where she
23 sent a message back to me with some information
24 concerning results of analyses that she'd
25 undertaken in Charlottetown. And the second time
26 I heard back from her was at the end of 2005, or
27 perhaps it was early 2006, suggesting that we
28 discuss the manuscript in the context of a
29 teleconference with Garth Traxler, myself, Molly,
30 and Fred Kibenge. And to my recollection, that
31 teleconference never took place, and that was the
32 last communication I had with Molly Kibenge since
33 -- until November 2011.

34 Q And November 2011 is when she asked if it could be
35 published and you responded, "No," is that right?

36 DR. JONES: That's correct.

37 Q And your reasoning for that was what?

38 DR. JONES: Well, I was a bit disappointed and I was
39 surprised when I got that e-mail. I was
40 disappointed because it was, in my mind, timed to
41 coincide with the current ISA events and it was
42 timed to -- well, the timing seemed to be more
43 than just a coincidence, it was seemingly to take
44 advantage of the events. And it was a surprise to
45 me that when I received the manuscript it hadn't
46 changed since the version that we'd seen in 2004.
47 So it was -- it did not mention, for example, the

1 Nellie Gagné results, it didn't clarify the
2 inconsistencies in which the PCR results had been
3 obtained, the difficulty to demonstrate
4 reproducibility, it didn't clarify the results,
5 for example -- or it did include, despite the
6 weakness of the sockeye salmon, the Cultus sockeye
7 salmon results, these were posed or presented as
8 positive findings in the paper, and I -- I had to
9 judge this work based on my own experiences as a
10 scientist and as an author of a lot of scientific
11 papers, many of which are published in the peer-
12 reviewed literature. I sit on an editorial board
13 of an international journal in fish disease, and I
14 understand what is necessary to maintain, or what
15 are the high standards that are necessary to
16 maintain in order to publish this kind of work,
17 and I felt that this manuscript didn't come close
18 to achieving those standards.

19 Q All right. Exhibit 2114, if that could come up on
20 the screen, and in there - this is also Commission
21 Tab 110 - in there there's a series of e-mails
22 from Molly Kibenge in February and July in 2005
23 and 2006, and I'm hopeful we can do this without
24 searching into them too far. But there's
25 reference to research that Molly was doing, and is
26 the research that she was doing between 2005 and
27 2011 reflected in the manuscript you've got in
28 November 2011, and would you expect it to be if
29 it's not?

30 DR. JONES: Well, what she said back to me in these
31 messages was the results of some further
32 sequencing that she'd undertaken, as I understand
33 that. I'm not sure which samples she was working
34 on, but it would appear that they were additional
35 samples to what she had been working on since
36 leaving in June of 2004, but she did provide
37 evidence in these -- or at least indication in
38 these e-mails that she'd found additional sequence
39 information, and I couldn't see any sign that that
40 information had been included in the manuscript.

41 Q Okay. Dr. Klotins, I'm going to ask a question of
42 you, now. Dr. Kibenge, Dr. Fred Kibenge,
43 testified that he thought the lab assessment - and
44 you're familiar with the lab assessment - that was
45 done recently on the AVC and the Moncton lab, he
46 thought that those lab assessments were to be
47 collaborative and would compare the Prince Edward

1 Island and the Moncton labs. Then he testified
2 that as it unfolded he determined or thought that
3 it was really a challenge to his work or an
4 attempt to discredit it that was going on. Are
5 you aware of what was said to Dr. Kibenge at the
6 outset, what was the purpose of those lab
7 assessments?

8 DR. KLOTINS: I wasn't involved in the first telephone
9 conversation between Dr. Kibenge and Dr. van der
10 Linden and Dr. Con Kiley, but I believe that the
11 purpose of the lab assessment, as described in the
12 document, is what was iterated to Dr. Kibenge.

13 Q All right. And that would be, it is an exhibit, I
14 don't know the number offhand, but Mr.
15 Commissioner, there is a lab assessment plan
16 that's been put in evidence.

17 The lab assessment on the Atlantic Veterinary
18 College is more detailed than the one on the
19 Moncton. The AVC lab assessment is Exhibit 2075 -
20 we don't need it coming up, I don't think - and
21 the Moncton one is Exhibit 2074. Do you know why
22 the AVC lab assessment is more detailed than the
23 Moncton one?

24 DR. KLOTINS: My understanding is the Moncton one
25 hasn't been completed yet. They began with the
26 AVC one and then we'll complete the Moncton lab
27 one. I think that's undergoing completion now.

28 Q All right. So it's a timing issue, is it?

29 DR. KLOTINS: Yeah.

30 Q Could we turn to Commission Tab 24, please. Now,
31 do you recognize this document, Dr. Klotins?

32 DR. KLOTINS: Yes, I do.

33 Q This is an exhibit, I'm sure, but I don't know the
34 number.

35 MR. MARTLAND: 2087.

36 MR. TAYLOR: Thank you, Mr. Martland.

37 Q Who prepared this?

38 DR. KLOTINS: This was prepared by Ingrid van der
39 Linden and the team that went to do the
40 assessment.

41 Q And why was it prepared?

42 DR. KLOTINS: It was prepared to indicate the various
43 procedures under the various titles that were
44 carried out both by Dr. Kibenge's lab and the lab
45 in Moncton.

46 Q And then you'll see over on the right side there's
47 a column, "significance". Was that filled in by

7

PANEL NO. 67

Cross-exam by Mr. Taylor (CAN) (cont'd)

1 the people you referred to who had prepared the
2 assessments?

3 DR. KLOTINS: It would have been filled in by the lab
4 assessment --

5 Q The team that was doing --

6 DR. KLOTINS: Team.

7 Q -- the lab assessment?

8 DR. KLOTINS: Yeah.

9 Q Now, you mentioned, in your evidence, as I recall,
10 in answer to some of the Commission questions,
11 that there is a lab assessment that's going to be
12 done on Dr. Miller's lab; is that right?

13 DR. KLOTINS: I mentioned that that possibility could
14 exist.

15 Q I see. So that hasn't been determined as yet?

16 DR. KLOTINS: No.

17 Q Do you know the timing of determination of whether
18 there would be one done and, if so, when it would
19 be done?

20 DR. KLOTINS: If -- I imagine that would be under
21 discussion for next week -- or this week, sorry,
22 this week, and I can't give you a timeline on when
23 that assessment would be done.

24 Q All right. Thank you. Moving to Mr. Stephen as
25 well as Dr. Klotins, if I could, for this
26 question, can you say - and I'll start with you,
27 Mr. Stephen - what's the significance,
28 internationally, on Canada, of a confirmed report
29 of ISA as a reportable disease, if there was such
30 a confirmed report?

31 MR. STEPHEN: I believe Dr. Klotins is --

32 Q Okay.

33 MR. STEPHEN: -- better --

34 Q Let's go to her first.

35 MR. STEPHEN: -- able to answer that question.

36 DR. KLOTINS: If there's a confirmed report, then we
37 would notify the OIE, as well as our specific
38 training partners, where we trade both wild salmon
39 caught commercially and salmon that are cultured
40 in British Columbia. And we would have to wait
41 and see what -- how countries would react, and
42 then identify whether we can meet their conditions
43 that they may impose on Canada for import of
44 product into their countries.

45 We would also notify the rest of the
46 provinces, as they may wish to put in controls for
47 animals coming out of B.C. as well.

December 19, 2011

1 Q Thank you. Domestically, Mr. Stephen, is there
2 anything that you would add to that?

3 MR. STEPHEN: With respect, if ISA was found in, for
4 example, a hatchery, a salmonid hatchery in B.C.,
5 there would be controls put into place for any
6 movement between provinces under the **Fish Health**
7 **Protections Regulations**. There would have to be
8 health certificates issued and things and likely
9 any recipient facilities wouldn't want to receive
10 ISA-positive fish from those.

11 Q All right. Next, I'd like to turn to Exhibit
12 2112, which is the draft surveillance plan. It's
13 also Tab 100 of the Commission binder. And at the
14 same time, could we bring up Canada Tab 10, Mr.
15 Lunn? So what's on the screen right now, the
16 draft surveillance plan is 2112.

17 Dr. Klotins, I think I'm asking you, but
18 other panellists may have information they want to
19 jump in on, and I'll be brief, and I'd ask if you
20 can be brief in your answers.

21 Why was that surveillance plan prepared, or
22 why is it being prepared and is now in draft form?

23 DR. KLOTINS: During a disease response, so after we've
24 received a notification, we try to garner
25 information from the people that provided the
26 notification from the people that we identify in
27 any trace in/trace out, and from information that
28 may be provided from samples, and we evaluate all
29 that information, and in the end with this
30 particular notification, there was not enough
31 information to conclusively say that ISAV did
32 occur in B.C. There were some questions still
33 remaining on whether there had been enough
34 surveillance in the past to find ISAV.

35 In addition, one of the consequences of this
36 notification has been that countries are starting
37 to -- were starting to ask for more information on
38 our health status of salmonids in British
39 Columbia, and the decision was made to initiate
40 the surveillance plan a little bit earlier than we
41 probably would have.

42 Q This appears to have multiple pathogens being
43 surveilled; is that right?

44 DR. KLOTINS: Yes, it does.

45 Q And briefly, why is there multiple in there?

46 DR. KLOTINS: As I mentioned, countries were beginning
47 to ask about our salmonid health status in British

1 Columbia.

2 Q So you wanted to cover off a number of bases,
3 then?

4 DR. KLOTINS: We wanted to cover off a number of
5 organisms that we regulate in addition to the
6 ISAV.

7 Q Is there a time by which it's contemplated this
8 will be finalized and then operationalized?

9 DR. KLOTINS: We're hoping to have it finalized, I
10 would imagine, before the end of this fiscal, so
11 by the end of March, and then implemented
12 thereafter.

13 Q All right. Now, I understand that with what we're
14 talking about in this set of hearings, there are
15 two things in play. There are reports of ISA and
16 testing done to determine whether there is a
17 confirmed case of ISA for purposes of reporting to
18 the OIE and, as well, there is science research
19 being done by DFO scientists to inquire into
20 whether there is a pathogen or ISAV or an ISAV-
21 like virus. We've heard from scientists on
22 Thursday and into Friday morning that with the
23 mixed results that have been coming in, that
24 further inquiry is warranted.

25 Do each of the panel members agree with that?
26 I'll start with you, Dr. Klotins. That is to say,
27 do you agree that further inquiry is warranted?

28 DR. KLOTINS: In terms of the research -- in terms of
29 the research, it looks like there's some -- there
30 needs to be more work done on the test
31 development. It is not functioning in a robust
32 manner and research needs to be done to identify
33 what the issues are and can they be overcome. And
34 I would say that is true, as well, in Dr.
35 Kibenge's lab.

36 Q All right. Mr. Stephen?

37 MR. STEPHEN: Yes, obviously DFO supports scientific
38 research and -- but at the same time, as Dr.
39 Wright has spoken before, from a regulatory point
40 of view and monitoring, you have to have validated
41 tests. The tests that Dr. Miller and Dr. Kibenge
42 are using, in particular Dr. Miller's new
43 experimental work, has not been validated yet. So
44 we are encouraging, as I mentioned on Friday, her
45 supervisor to work and develop a plan to move
46 forward with whatever she's started to develop
47 now.

1 Q All right. Dr. Wright?

2 DR. WRIGHT: Well, I agree with everything that's been
3 said. I mean, I would just want to point out that
4 any further work that's going to be done has to be
5 done in a multi-disciplinary fashion. So, I mean,
6 we have to be working together, whether it's the
7 epidemiologists, the people who develop the
8 diagnostic tests, the people who are doing, you
9 know, the disease research, it all has to come
10 together. And so all I'm saying, and it's
11 necessary, is it has to be a multi-disciplinary
12 approach, otherwise we cannot access -- or assess,
13 rather, what the risk, if this pathogen is there.
14 The first thing you have to do is get a hold of
15 this thing.

16 Q All right.

17 DR. WRIGHT: And we don't have that, yet.

18 Q Identify research plan and then decide how to
19 proceed; is that what you're saying?

20 DR. WRIGHT: That's right.

21 Q Mr. Stephen, I want to bring you to a telephone
22 call of November 24, 2011, and I know you were
23 here in the hearing room when Dr. Miller gave some
24 evidence about that call and you were on the call
25 as well. Picking up on what Dr. Miller said, what
26 do you have to say about that discussion or the
27 part of the discussion that had to do with Dr.
28 Miller's research vis-à-vis the regulatory regime
29 and mandatory reporting and samples and anything
30 else that you want to speak to briefly about your
31 end of the call and how you heard the call go?

32 MR. STEPHEN: Okay, thank you. Yes, I did have the
33 call with Dr. Miller, her supervisor, Mark
34 Saunders, and a number of other people, and I did
35 call in one of my staff, Alf Bungay, at the time.
36 Dr. Miller -- it came as a surprise to us that Dr.
37 Miller had been doing testing. Obviously, most
38 people in this room and probably most people in
39 B.C. and most of Canada, knew that an
40 investigation on ISA in B.C. was ongoing by CFIA.
41 So this report of new findings of ISA by
42 Dr. Miller came as a complete surprise to us.

43 I did explain to her that, from a regulatory
44 point of view it's important to have all the
45 information available to us so that we can share
46 that with CFIA, and I asked her a couple things
47 about there research and her testing. I said,

1 "What method did you use?" She mentioned Dr.
2 Kibenge's method and then she said, but she
3 couldn't get his probe, she had to get other
4 probes. So again, it was slightly modified from
5 Dr. Kibenge.

6 I asked her, had she done our method, our
7 validated test; she said, "No." I asked her, had
8 she notified CFIA as required by the mandatory
9 reporting, as we alluded to on Friday, and she
10 said, "No," that she would be having reports --
11 she wouldn't report anything until she found
12 something, or had verified her findings. So I
13 again reminded her that we have a regulatory
14 obligation to notify, anybody who suspects any
15 finding of ISA or any other reportable disease.

16 I did tell her I'd be calling CFIA, but I had
17 an expectation that she would be sharing her
18 information with them as well.

19 Q Are you finding that it's a bit of a challenge to
20 have research scientists move from what existed
21 under an older regime to the new regime where
22 there is mandatory reporting for certain diseases?

23 MR. STEPHEN: Well, this is a first time we've had any,
24 you know, issue, I guess, with this, because, as I
25 mentioned on Friday, I had arranged to let my
26 assistant deputy minister share the mandatory
27 reporting information with all DFO staff in
28 February of this year. When it became apparent in
29 discussion with Dr. Miller that she seemed unaware
30 or maybe had forgotten this requirement, I deemed
31 it was important to resend that message out, as
32 was alluded to again on Friday.

33 Q All right. Dr. Wright, you mentioned in your
34 evidence, in answer to Mr. Martland's questions,
35 as I heard you, that you do some work with the
36 OIE. Did I get that right?

37 DR. WRIGHT: Yes, I do.

38 Q And what is your role or work with the OIE?

39 DR. WRIGHT: I've been involved with the OIE since
40 about 1991, and at that time I was overseas on
41 leave for an international service. I actually
42 represented a number of international groups,
43 including FAO and WHO and International Atomic
44 Energy, as an observer on the commission. And
45 then, when I returned home, there as an agreement
46 between the director general then and our chief
47 veterinary officer at the time that Canada would

1 allow me to continue my participation on -- this
2 is on the standards commission. It's just a
3 terrestrial commission.

4 Q All right.

5 DR. WRIGHT: And basically I've been involved with a
6 number of these organizations on the development
7 of standards for validation of assays and
8 promoting their use amongst all member countries.

9 Q All right. Thank you. On the left side of the
10 screen is a briefing note, and I forgot to deal
11 with this. Dr. Klotins, do you recognize that
12 note?

13 DR. KLOTINS: Yes, I do.

14 Q Do you want to see the end of it? It appears to
15 be a note about the draft surveillance plan.

16 DR. KLOTINS: Yeah.

17 Q Is that a note that CFIA sent to the minister
18 responsible?

19 DR. KLOTINS: The CFIA sent it to the minister
20 responsible.

21 Q All right.

22 DR. KLOTINS: I wasn't involved in the drafting of
23 this, so I --

24 Q All right.

25 DR. KLOTINS: -- haven't read it, really, in detail.

26 MR. TAYLOR: All right. I'll ask that it be the next
27 exhibit, please.

28 MS. PANCHUK: 2119.

29

30 EXHIBIT 2119: Memorandum to the Minister,
31 Complementary Surveillance Effort in Cultured
32 and Wild Salmonid Species in B.C.
33

34 MR. TAYLOR:

35 Q For clarity, who is the minister responsible for
36 CFIA?

37 DR. KLOTINS: The Minister of Agriculture and Agrifoods
38 Canada.

39 Q Thank you. If we could turn, please, to Exhibit
40 2104, which is also Commission Tab 75, and this is
41 a question of you, Dr. Klotins, this is an e-mail
42 that you wrote earlier, about a month ago, a month
43 and a bit ago, I guess, about whether to test, and
44 you've given some evidence about this already. My
45 question of you is: What are the implications of
46 a lab using samples and testing if it turns out
47 that the lab can't do the work properly?

1 DR. KLOTINS: Well, they would basically -- they would
2 -- it would follow the same disease response that
3 we have followed for this notification where we
4 would check into the information and identify --
5 identify the information we need to assess whether
6 this is a true positive or a true negative.

7 Q But would you end up with the lab using up all the
8 samples and so there's nothing more to do
9 retesting?

10 DR. KLOTINS: Well, yes, that is a possibility. I did
11 send out a directive to the commercial
12 laboratories that they should consider saving
13 samples that could be sent to the NAAHLS, the
14 NAAHP, for confirmation. It would have been the
15 same issue, though, in terms of chain of custody,
16 because those samples were not collected by us.

17 MR. TAYLOR: All right. If we could turn to Canada's
18 Tab 4, please, which is an OIE letter to Ms.
19 Morton and, as well, her e-mail of November 17th
20 of this year, I believe both those things are in
21 Tab 4. They're not? And if you scroll down, I
22 don't have any questions about this, but I want to
23 be sure that they're both exhibits and I'm not
24 sure. So I'd like this November 17th e-mail and
25 the OIE letter of the 29th of November in response
26 to be exhibits, either one together or two
27 separate exhibits together is fine. Maybe it's
28 easiest if they're two separate exhibits.

29 MS. PANCHUK: 2120.

30
31 EXHIBIT 2120: E-mail dated 11/30/2011, from
32 Brian Evans to Cornelius Riley, Subject: TR:
33 ISA virus British Columbia, with attached
34 copy of OIE letter to Alexandra Morton
35

36 MR. TAYLOR: So they're one exhibit together? That's
37 fine, thank you.

38 Q Now, if we turn to page 2 of the letter, you'll
39 see, Dr. Klotins, the definition of a confirmed
40 case. Is that the definition that you're working
41 with in terms of whether you do or don't report
42 something to the OIE?

43 DR. KLOTINS: Well, our policy is only to refer --
44 report confirmed cases to the OIE. We have our --

45 Q But is that the definition?

46 DR. KLOTINS: We have our definition, which is similar,
47 in the hazard specific plan that we use.

14

PANEL NO. 67

Cross-exam by Mr. Taylor (CAN) (cont'd)

1 Q All right.

2 DR. KLOTINS: Yes.

3 Q I'd like to turn, now, together, to Canada's Tabs
4 5, 6, and 7. Dr. Klotins, I think this question
5 is of you. Are these CFIA documents? They appear
6 to be documents pertaining to the lab assessments
7 that were done.

8 DR. KLOTINS: Yes.

9 Q Do you recognize -- I see --

10 DR. KLOTINS: I recognize them, mm-hmm.

11 MR. TAYLOR: All right. I'm going to ask that these
12 three documents be the next three exhibits, if we
13 may.

14 MS. PANCHUK: Tab Number 5, 2121; Tab Number 6, 2122;
15 Tab Number 7, 2123.

16

17 EXHIBIT 2121: CFIA Aquatic Animal Health
18 Laboratory Assessment Working Group National
19 Emergency Response Team (NERT)

20

21 EXHIBIT 2122: Summary of Information from a
22 Document Review and On-Site Visit (November
23 18, 2011) for the ISA OIE Reference
24 Laboratory at Atlantic Veterinary College

25

26 EXHIBIT 2123: LC480 Data Analysis of ISAV
27 Testing at AVC, November 29, 2011

28

29 MR. TAYLOR: Tab 15 of Canada, this is an e-mail
30 regarding -- or to Peter Wright. I'm just going
31 to ask that it be marked as an exhibit, as I'm at
32 or near the end of my time. If this could be the
33 next exhibit, please.

34 MS. PANCHUK: 2124.

35

36 EXHIBIT 2124: E-mail dated December 2, 2011,
37 from Peter Wright to Nellie Gagné, Stephen
38 Stephen, et al, Subject: Paper authored by
39 Molly Kibenge et al

40

41 MR. TAYLOR: Canada's Tab 26, I'm going to ask if that
42 could be the next exhibit.

43 MR. LUNN: Mr. Taylor, I have four separate files for
44 that tab number. The first is this e-mail, the
45 next is the chart --

46 MR. TAYLOR: Yeah, it's all of it.

47 MR. LUNN: So all of those together?

December 19, 2011

15
PANEL NO. 67
Cross-exam by Mr. Taylor (CAN) (cont'd)

1 MR. TAYLOR: Yeah.
2 MR. LUNN: All right.
3 MS. PANCHUK: 2125.

4
5 EXHIBIT 2125: E-mail dated December 9, 2011,
6 from Nellie Gagné to Nellie Gagné, Subject:
7 Latest tests on 2004 Molly Kibenge's samples,
8 with attachments
9

10 MR. TAYLOR: Tab 39, may this be the next exhibit,
11 please.

12 MS. PANCHUK: 2126.

13
14 EXHIBIT 2126: CFIA Call Log by Ray J.
15 Fletcher, dated November 30, 2011
16

17 MR. TAYLOR:

18 Q Now, this is a call log you prepared, I think,
19 isn't it, Dr. Klotins, of some work that Dr.
20 Miller was doing?

21 DR. KLOTINS: Ray prepared this call log, Ray Fletcher,
22 Dr. Ray Fletcher.

23 Q All right. Of CFIA?

24 DR. KLOTINS: Yeah.

25 MR. TAYLOR: All right. In the course of preparing for
26 these questions, it's come to my attention that if
27 you turn to, I think it's, page 4 of this
28 document, this is a prepared form. I'm not going
29 to take the time right now -- it's probably not
30 page 4. Because it's a prepared form, when it was
31 printed, the entry in a particular box isn't all
32 there, so we're going to take steps to see if we
33 can get the full document. There, you can see it
34 at the top of the screen there's a box there with
35 the call record in it, but because of the way the
36 computer prints these things, some of the content,
37 you can see, has been cut off and the log ends in
38 mid-sentence. It is an exhibit, now. We'll see
39 if we can fix it.

40 Next, Tab 42, which is an umbrella agreement.
41 I'm going to ask if that can be the next exhibit.

42 MS. PANCHUK: 2127.

43
44 EXHIBIT 2127: Umbrella Memorandum of
45 Understanding (MOU) on the Development and
46 Implementation of a National Aquatic Animal
47 Health Program between DFO and CFIA

December 19, 2011

16

PANEL NO. 67

Cross-exam by Mr. Taylor (CAN) (cont'd)

1 MR. TAYLOR: Then we have Canada's Tabs 43, 44, 45, 46,
2 47 and 48, which are various web information
3 sheets, and I think that is a total of six, yes,
4 six documents. I'll ask that they be the next six
5 exhibits, please.

6 MR. MARTLAND: I think Tab 46 is already in evidence as
7 an exhibit. Tab 46.

8 MR. TAYLOR: We'll put in five, then, as the next five
9 exhibits; 43, 44, 45, 47, 48. Finally, and I'm
10 out of time -- I'll let Ms. Panchuk give the
11 numbers.

12 MS. PANCHUK: Tab 43 is 2128; 44, 2129; 45, 2130; 47,
13 2131; 48, 2132.

14
15 EXHIBIT 2128: CFIA website Screenshot re
16 Changes to the **Health of Animals Regulations**
17 - Aquatic Animal Diseases, with attached
18 weblink

19
20 EXHIBIT 2129: CFIA website screenshot re:
21 Infectious Salmon Anaemia, with attached
22 weblink

23
24 EXHIBIT 2130: DFO website screenshot re:
25 Infectious Salmon Anaemia (ISA) Virus -
26 Accepted Testing Methods, with attached
27 weblink

28
29 EXHIBIT 2131: DFO and CFIA Joint Letter of
30 Co-Operation on Fish Disease Management,
31 dated November 18, 2011

32
33 EXHIBIT 2132: DFO, Protecting Canada's
34 Aquatic Species from a Disease - a Focus on
35 Canada's Pacific Region

36
37 MR. TAYLOR: Finally, as I am really out of time, Tab
38 27 is Nellie Gagné's testing of Dr. Miller's
39 samples, Canada's Tab 27. I'm just going to ask
40 if that can be the next exhibit, please. Thank
41 you.

42 MS. PANCHUK: 2133.

43
44
45
46
47

December 19, 2011

1 EXHIBIT 2133: E-mail dated December 9, 2011,
2 from Nellie Gagné to Nellie Gagné, Subject:
3 ISAV test results, case 2011-261 samples of
4 RNA submitted from Kristi Miller, with 10
5 attachments
6

7 MR. TAYLOR: Those are my questions, thank you.

8 MR. MARTLAND: Mr. Commissioner, before we move to the
9 next question, I'll just indicate that, for
10 counsel's benefit, our plan would be that with
11 respect to the document that Mr. Taylor had on
12 screen with an abbreviation of the entry, we
13 propose simply substituting in the full version of
14 the text once we can make that available as the
15 proper exhibit. If any counsel has a difficulty,
16 I ask that they speak with me at the break,
17 otherwise I think that's the logical course.

18 Counsel for the Province is next, with 30
19 minutes.

20 MR. TAYLOR: Just on that, I can say that I'm
21 endeavouring to have that full text here before
22 the noon break so counsel can see it and it can be
23 dealt with in the course of this hearing before we
24 close today.
25

26 CROSS-EXAMINATION BY MS. CALLAN:
27

28 Q Dr. Wright, now, the CFIA, DFO Moncton, and the
29 Province run diagnostic labs. Dr. Kibenge,
30 Dr. Miller and Dr. Nylund run research labs.
31 There's been some discussion about contamination
32 and differences between research and diagnostic
33 labs. Can you discuss the significance of the
34 differences in the operating practices between
35 these two types of laboratories?

36 DR. WRIGHT: Well, essentially, with diagnostic --
37 well, you have to have good separation of various
38 activities within the lab, and that's even more
39 critical in a diagnostic lab, because you are
40 obviously putting out results to a client and you
41 want the credibility of those results and the
42 diagnostic accuracy to be the best possible.

43 I'm not saying that there are quality
44 standards for research labs, and I'm not aware
45 that either of these other labs are running under
46 a research quality standard or not, but
47 nevertheless, in most laboratories that do offer

1 diagnostic services and research services they try
2 to physically separate them so you don't get any
3 cross-contamination of any -- especially within
4 molecular biology, with any genetic material.

5 Now, it doesn't matter whether it's a
6 research or diagnostic lab, you want to assure the
7 accuracy of those results and you want to try and
8 prevent, as much as possible, any contamination,
9 because that will give you either an erroneous
10 result for a client, or you will be making
11 erroneous conclusions from your own data.

12 So, I mean, it's critical in both. But, as
13 we say -- as I've said, that we do operate under a
14 quality standard for testing laboratories and
15 that's ISO 17025, and that's what we are working
16 towards, and that takes into consideration all of
17 the factors, including the training, the
18 environment, and the protocols that are in use.

19 Q And Dr. Wright, the provincial veterinary
20 diagnostic laboratory is certified by the American
21 Association of Veterinary Laboratory
22 Diagnosticians. Are you familiar with this
23 certification process?

24 DR. WRIGHT: Yes, I am.

25 Q Could you summarize the process in relation to the
26 reliability of results from an AAVLD or the
27 American Association of Veterinary Laboratory
28 Diagnosticians --

29 DR. WRIGHT: Okay.

30 Q -- certified laboratory?

31 DR. WRIGHT: Sure. If I may, I'll just call them
32 AAVLD, and within the last seven or so years they
33 have revamped their accreditation program, and
34 what they have done as their base document,
35 they've actually accepted the OIE quality standard
36 for testing laboratories and they've modified it
37 somewhat, because that standard was actually
38 written for laboratories that actually test for
39 infectious diseases, so they've modified it
40 slightly to incorporate other types of testing,
41 you know, toxicology, this type of thing. That
42 standard, the OIE standard, is actually an
43 interpretation of ISO 17025 specifically for
44 veterinary laboratories involved in testing.

45 So in essence, it's the equivalent to a 17025
46 without the requirement to have a scope listing
47 every test for every pathogen for every host

1 species that you're testing. It's broader in
2 terms of scope, it's more general, but in terms of
3 the quality standard, it's essentially 17025.
4 Q So then you would think that the AAVLD standards
5 are good standards?
6 DR. WRIGHT: I have no problem with that.
7 Q Now, Dr. Wright, there's been some question at
8 these hearings about the quality of the diagnostic
9 services provided by the B.C. Animal Health Lab or
10 the provincial lab. Have you worked with the
11 provincial laboratory during an Avian influenza
12 outbreak?
13 DR. WRIGHT: Yes, I did.
14 Q Did the B.C. Animal Health Centre provide
15 diagnostic support during the Avian influenza
16 outbreak?
17 DR. WRIGHT: Yes, they did.
18 Q Did the work include real-time PCR tests?
19 DR. WRIGHT: Yes, it did.
20 Q Can you tell me how many tests they ran per day?
21 Approximations are fine.
22 DR. WRIGHT: Okay. I would imagine somewhere in the
23 vicinity of 300 or so a day. I can't tell you
24 right off the top of my head.
25 Q That's no problem. A quantification is fine.
26 Were they able to provide reliable results for the
27 Avian influenza test in the samples provided to
28 them?
29 DR. WRIGHT: As far as I know we had no problem. They
30 were actually using the assay that was developed
31 at the National Centre for Foreign Animal Disease
32 in Winnipeg, which is where I was at the time, and
33 we did a technology transfer of that assay to John
34 Robinson, as well as a proficiency panel which he
35 had to run, and everything was fine.
36 Q So their diagnostic services were conducted, then,
37 in your opinion, efficiently and correctly?
38 DR. WRIGHT: Yes.
39 Q Okay. Now, Dr. Klotins, I understand that you
40 were involved in the Avian influenza outbreak as
41 well?
42 DR. KLOTINS: No, I was not.
43 Q Okay. Was anyone involved in it? Dr. Wright?
44 DR. WRIGHT: I would just point out at that point in
45 time I was the only one working for CFIA, at that
46 point in time, when the outbreak occurred.
47 Q Okay. Now, I understand once the -- once there

1 was a confirmation of the Avian influenza, CFIA
2 took some very serious measures. Can you describe
3 them?

4 DR. WRIGHT: I don't know if I can describe them in
5 total detail. CFIA, again, this was an emergency
6 response. There were approximately 19 million
7 birds that were at risk. This was a very, very
8 hot virus, it was a virus that was -- it was a
9 one-time major mutation that made it pathogenic.
10 And, of course, there are movement, commercially,
11 of birds at different stages of development before
12 market. So in identifying those farms where there
13 was, you know, high mortality, they declared
14 infected zones and there were buffer zones, there
15 was restriction on movement, and where particular
16 farms were tested and found in addition to the
17 mortality were found to be positive, from a
18 diagnostic perspective, then the animals were
19 actually slaughtered and you had cleaning and
20 disinfection and disposal and basically fighting
21 that whole thing and trying to get ahead of any
22 spread which, as you know, took several months to
23 do.

24 Q So then, in your opinion, CFIA will take
25 appropriate measures to make sure and contain
26 outbreaks if they are confirmed?

27 DR. WRIGHT: Definitely. That's one of their major
28 roles, whether it's Avian influenza, whether it's
29 mad cow disease, should we have an outbreak of any
30 other foreign animal disease, that's the
31 preparedness that they have and to act, and our
32 job, in the laboratories, is to make sure that we
33 can actually support them in these measures, and
34 that's why Canada probably has one of the best
35 reputations in terms of the health of our national
36 populations.

37 Q Now, Dr. Klotins, if a person discovers a
38 reportable disease pursuant to the **Health of**
39 **Animals Act**, are they supposed to report it to the
40 CFIA?

41 DR. KLOTINS: Yes, under the **Health of Animals Act**,
42 s. 5, they're to notify the nearest veterinary
43 inspector of suspicion or detection of a
44 reportable disease. And then, under - I'm
45 probably going to get the number not quite right -
46 but section, I believe it's, 91 or 92 of the
47 **Health of Animals Regulations**, if the laboratory

1 detects an immediately notifiable disease or has
2 suspicion that it may be occurring in Canada, they
3 notify the minister.

4 Q Now, has the Province demonstrated a history of
5 reporting reportable diseases in a timely manner
6 to the CFIA?

7 DR. KLOTINS: Yes, any testing that had been done in
8 the B.C. Provincial Laboratory was reported to us.

9 Q Now, what kinds of due diligence does the Province
10 conduct when they do report a reportable disease?
11 For example, how does Dr. Marty refer reportable
12 diseases to the CFIA?

13 DR. KLOTINS: As per the directive I sent to commercial
14 laboratories, he was advised to report to the
15 national manager of Disease, Control and
16 Contingency Planning, so he sends a notification
17 to myself, currently, as acting national manager.

18 Q It's fair, then, to say that the Province does
19 correctly and adequately report when there is an
20 actual real issue that's reportable?

21 DR. KLOTINS: I would have to say, yes. We've received
22 a number of notifications from them since the
23 regulations came into effect.

24 Q Now, if I could turn over to Dr. Jones. Now, Dr.
25 Miller's document is an interpretation of
26 sequencing, and it's provincial -- or, sorry, it's
27 Commission Counsel's Tab 139. Mr. Lunn, if we
28 could turn to that. And Dr. Miller has put a
29 little paragraph at the beginning, in the heading,
30 saying [as read]:

31
32 Provincial probes and primers also shown and
33 should pick up these sequences.
34

35 Would you agree, then, that if the provincial
36 probes had been used they would have picked this
37 up as well?

38 DR. JONES: I'm really just reading this in detail for
39 the first time now. I didn't see it until these
40 proceedings began last week. From what I see
41 here, that's a reasonable conclusion.

42 Q Okay. And just for everyone to be on the same
43 page, this is Exhibit 2062.

44 Now, you were involved with some of the work
45 with Dr. Molly Kibenge in 2004, which has received
46 some prominence in these proceedings. I
47 understand that her results were quite unusual in

1 that she conducted testing Pacific salmon using
2 Atlantic ISAV tests which were optimized for
3 farmed Atlantic salmon and not Pacific salmon; is
4 that correct?

5 DR. JONES: That's correct.

6 Q And she used a segment 8 test, which resulted in
7 121 positive results, including 64 Cultus Lake
8 sockeye?

9 DR. JONES: Approximately, yes.

10 Q And then she ran samples using a segment 7 marker
11 and couldn't reproduce her results?

12 DR. JONES: That's correct.

13 Q Now, when DFO's Moncton lab did RT-PCR tests, they
14 were negative for ISA?

15 DR. JONES: The Moncton lab tested over 90 Chinook
16 salmon samples, and we know from Molly's work that
17 she anticipated approximately 38 to 40 of those
18 were positive. Those could not be reproduced in
19 the Moncton lab.

20 Q Okay. And when Dr. Molly Kibenge tried to culture
21 these, the cell tissue tests and the culturing
22 tests were unsuccessful?

23 DR. JONES: That's correct.

24 Q Dr. Kibenge also then sequenced some of her
25 results as well?

26 DR. JONES: We sent 20 samples, as I testified on
27 Friday, to Dr. Fred Kibenge's lab from Chinook
28 salmon samples. Ten of those we'd found to be
29 positive in Molly's hands, and 10 negative. And
30 what Dr. Fred Kibenge found was that of the 10
31 positive samples he was able to obtain three
32 positive results, and of the negative results we
33 sent from Molly's samples, he was able to obtain,
34 also, three positive samples.

35 Q So what's the significance of that result?

36 DR. JONES: Well, the significance was that, in my
37 mind, was that this was more indication of the
38 inconsistency with which some of these assays are
39 able to obtain a positive result. Molly had been
40 unable to reproduce her positive findings with
41 segment 8, in some cases, but certainly with
42 segment 7, and segments 2 and 6, as well, which
43 she couldn't reproduce.

44 The fact that Dr. Fred Kibenge was unable to
45 reproduce seven of Molly's 10 positives and, at
46 the same time, find evidence of positive samples
47 in three of the 10 negative samples, was further

- 1 indication of there being something -- something
2 faulty with the way these assays are being run.
- 3 Q Now, Mr. Lunn, if we could turn to page 7 of
4 December 16th's transcript.
- 5 MR. LUNN: Actually, I'm sorry, I don't have it
6 available at the moment. I have no outside
7 connection.
- 8 MS. CALLAN: Okay. Well, I'll just try to summarize
9 it, then, and put the proposition to you.
- 10 Q Now, Dr. Kibenge agreed that the nucleotide
11 sequence of these inserts only had identity to
12 ISAV in the primer sequences but not the
13 intervening section?
- 14 DR. JONES: This relates -- I believe you're referring
15 to the Cultus Lake sockeye samples.
- 16 Q That's right.
- 17 DR. JONES: Yes, that's right.
- 18 Q Okay. And Ms. Gagné later testified in redirect,
19 and specifically page 80 of the December 16th
20 transcript between lines 35 and 44, that it was
21 mouse tissue was the closest match?
- 22 DR. JONES: I received an e-mail from Molly shortly
23 after she ran those assays, and when she obtained
24 sequence from the intervening segment of DNA
25 between the primer binding sites, that there was a
26 list of top hits that included zebra fish, human,
27 and possibly some other, but certainly not ISA
28 virus. That was not in her list of top hits.
- 29 Q Okay. So what is the significance of that?
- 30 DR. JONES: Well, it's further evidence that the assay,
31 as it was being used, granted that it was an assay
32 designed for and used in other labs for ISA virus,
33 in this application was producing a result that
34 was not specific, and that could be because of the
35 nature of the primers binding non-specifically, or
36 it could be some other variation of the conditions
37 of the assay that delivered the false result.
- 38 Q Okay. Is there anything else that you wanted to
39 give evidence on with respect to the Molly Kibenge
40 paper?
- 41 DR. JONES: I don't think so. I think I commented on
42 various aspects of it. I'm still convinced that
43 this paper is not worthy of publication as it's
44 written now. I was hopeful that my co-authors on
45 the paper would have recognized the deficiencies
46 and that together we could have taken some steps
47 to address why these assays appear to be working

1 inconsistently to include the information that had
2 not been included, and that door is still open.

3 Q Now, Dr. Wright, would you be able to summarize
4 how a laboratory becomes an OIE designated
5 reference laboratory, and specifically I'm talking
6 about the situation that Dr. Kibenge's lab is in,
7 and this is Dr. Fred Kibenge.

8 DR. WRIGHT: Well, basically -- well, let me preface
9 it. Most OIE reference laboratory are actually
10 within the Federal Government systems and within
11 their country. Probably 85 to 90 percent of most
12 of these ref labs and OIE collaborating centres
13 are part of the federal infrastructure for
14 veterinary medicine, but there are some that are
15 outside, and we have a few in Canada. Basically,
16 it's a, if you want, it's voluntary. The idea,
17 with these reference laboratories, is they are
18 supposed to assist, as I've said before, those
19 member countries that do not have the laboratory
20 or sometimes the veterinary infrastructure that
21 would be effective in any disease control or
22 prevention of disease in these countries.

23 So there are a set of terms of reference and
24 there are guidelines that have to be followed in
25 terms of putting together a dossier for
26 consideration by the OIE, and that dossier has to
27 be submitted by the chief veterinary officer of
28 the country. The CVO of the country is actually
29 the delegate to the OIE. So there's a very,
30 whatever it is now, 174 member countries, so the
31 CVOs of each of those countries are the delegates
32 to the international body. And then it will go
33 from there through Dr. Vallat's office, who is the
34 director general, and it will be forwarded down to
35 the appropriate commission. So in Dr. Kibenge's
36 case, this would be the Aquatics Commission, and
37 they would review it. I mean, at that point in
38 time, when he submitted his, it would probably
39 only be reviewed by the commission.

40 Now, the procedure has been updated somewhat,
41 and that the -- any application for a ref lab or
42 collaborating centre status would also go through
43 the regional commission. I know this all gets
44 complicated, but there's a regional commission for
45 the Americas. So in Dr. Kibenge's case, if it was
46 going through now, it would go to the regional
47 commission and they would make some sort of

1 judgment call as to whether or not there was a
2 requirement for an OIE ref lab in that region, and
3 we're talking all of the Americas. And then it
4 would go on for technical assessment.

5 So first it's whether there's a need, and
6 then whether or not they can actually fulfil the
7 technical requirements of an OIE ref lab.

8 Q Now, does the OIE do site visits or audits to
9 ensure that the designated reference laboratory
10 follows best practices?

11 DR. WRIGHT: There's no audit *per se* and they're not --
12 I should point out, OIE is not an accreditation
13 body, we do not accredit laboratories. This is
14 just purely a designation. The only way the OIE
15 has of assessing the activities of the OIE ref
16 labs would be through the annual reports on their
17 activities that they're required to submit every
18 year.

19 Q Now, does the OIE fund the designated reference
20 laboratories at all?

21 DR. WRIGHT: No. That's what I'm saying, it's more
22 voluntary, that there's -- there's no funding of
23 the OIE ref lab, itself, although ref labs can
24 apply for funding for things like twinning
25 projects, which I believe Dr. Kibenge has with
26 Chile. But as a laboratory, no, they are not
27 funded. But the OIE does not prevent them for
28 charging for any of their services as they see
29 fit.

30 Q Now, Dr. Klotins, in the course of your
31 investigation in the recent sockeye salmon PCR
32 test results, did you consider whether farmed Coho
33 in Chile were affected by the 2008 ISA outbreaks?

34 DR. KLOTINS: Yes, I did, because they're part of the
35 historical information that we have about ISA.

36 Q And what were your findings?

37 DR. KLOTINS: Our understanding, from the Chilean
38 Government, is that there have been a fair number
39 of Coho that have been tested for ISAV since the
40 outbreak and even before, and none of them have
41 been positive for ISA.

42 Q Okay. So these were fish that were in close
43 proximity to the farmed Atlantic salmon that were
44 positive?

45 DR. KLOTINS: I don't know that -- the answer to that
46 question, but as part of their surveillance
47 report, if they have one, that would probably be

1 the information in there.

2 Q Now, Dr. Wright, does this provide evidenced
3 Pacific salmon are resistant to developing the
4 disease ISA, even if they do become infected with
5 the virus?

6 DR. WRIGHT: Certainly, I mean, that's not in my area
7 of expertise. I don't claim to be an ISA or a
8 salmon expert. Something -- all I can say is
9 that's apparently what I hear.

10 Q Okay. Now, this question can be to either Dr.
11 Klotins or Dr. Wright. Are you familiar with the
12 OIE requirements for designating a region as
13 having freedom from disease?

14 DR. KLOTINS: They do provide guidelines.

15 Q Okay.

16 DR. KLOTINS: And I have seen those guidelines, yes.

17 Q For instance, does achieving freedom from ISA
18 status require sampling and testing of thousands
19 of fish using a validated test for ISAV?

20 DR. KLOTINS: The program is -- it's up to the country
21 to come up with a program, and it does involve
22 testing a fair number of fish over a period of
23 time. Surveillance doesn't have to end. It
24 doesn't have to be a one-time sampling of fish, it
25 can be an ongoing project. And we put together
26 the surveillance plan, as we're doing for
27 salmonids in B.C. and as we have done for testing
28 molluscs on the west coast. And when countries
29 come and evaluate our program this is what we
30 present to them and they either -- they make an
31 assessment of that surveillance plan and either
32 agree to it or not, and in terms of our findings
33 as well for declaration of freedom.

34 Q And would you say that Canada has been shown to be
35 able to prove that that system is in place?

36 DR. KLOTINS: Well, it is for oysters and clams on the
37 west coast, and now we are putting together a
38 surveillance plan for salmonids on the west coast.
39 So gradually we'll be having surveillance plans
40 for most of our traded commodity outside -- out of
41 Canada.

42 MR. STEPHEN: If I could just add for a moment, Canada
43 -- our National Aquatic Animal Health Program has
44 not been audited yet from a foreign country, not
45 fully. We expect - I think Dr. Klotins can speak
46 to it more - but the EU is likely to come next
47 year to do an assessment of our program.

1 DR. KLOTINS: Yeah, while, there haven't been formal
2 audits while they've come over here, they have
3 requested documentation and we have sent
4 documentation to them, and they provide an
5 assessment on that documentation, and whether they
6 accept our version of the health status of Canada
7 or impose extra conditions.

8 Q Is there anything else, Dr. Klotins, that you want
9 to mention with respect to the response to the
10 positive preliminary test results from Dr.
11 Kibenge?

12 DR. KLOTINS: Well, basically, again, I want to
13 reiterate that we had a notification, it was our
14 responsibility -- it's pretty clear, I guess, even
15 from what the panel was discussing last week, that
16 the PCR testing is not a perfect test. We need to
17 gather information to assess whether the results
18 that we're getting are true positives or true
19 negatives, false positives or false negatives, and
20 that is our role and responsibilities to interpret
21 the results of those tests in addition to all the
22 -- the other information that we gather to help us
23 make that interpretation.

24 MS. CALLAN: Those are my questions. Thank you very
25 much.

26 MR. MARTLAND: Mr. Commissioner, next we have counsel
27 for the B.C. Salmon Farmers' Association for 30
28 minutes.

29 MS. CALLAN: And for the record, it's Tara Callan
30 appearing on behalf of Her Majesty the Queen in
31 Right of the Province of British Columbia.

32 MR. HOPKINS-UTTER: Good morning, Mr. Commissioner,
33 panellists. I was actually just on my way up here
34 to see if my friend needed any additional time, so
35 I got caught flat-footed.

36
37 CROSS-EXAMINATION BY MR. HOPKINS-UTTER:
38

39 Q So this morning I'd like to just ask you a couple
40 of overview questions. I don't know if you had
41 all had an opportunity to attend the hearings on
42 the Thursday and Friday. I think, Dr. Klotins,
43 you said you weren't able to. Have you had a
44 chance to review any of the transcripts of the
45 evidence given?

46 DR. KLOTINS: No, I have not.

47 Q Dr. Klotins, can I ask if you've reviewed Dr.

1 Miller's work yet?

2 DR. KLOTINS: We have -- we have not. We still are
3 deciding how much more information we need to
4 glean, and in that case then we may do a more
5 thorough review of her work or request for
6 information.

7 Q Request for information. And do I also understand
8 that you're looking at a potential audit of her
9 lab?

10 DR. KLOTINS: We don't do -- it won't be an audit
11 because we have -- she's not part of our network
12 system, so we have no oversight over the
13 laboratory. It would be more an assessment of
14 whether the PCR methodology is providing the
15 information or the results that were presented.

16 Q And I understand that Dr. Miller is not a
17 virologist or a diagnostician; is that also your
18 understanding?

19 DR. KLOTINS: My understanding is that she's a
20 molecular geneticist, yes.

21 Q So any further work, then, would involve other
22 people with the necessary specialties to interpret
23 her results?

24 DR. KLOTINS: Whether I need to bring in other people
25 to interpret her results?

26 Q Yes.

27 DR. KLOTINS: Is that -- okay. We bring in people that
28 have particular expertise in the test methodology
29 to help us interpret the results, and that's what
30 we did in the case of Dr. Kibenge's results.

31 Q And at this point, have you determined what those
32 other areas of expertise would be that would be
33 necessary to interpret her results?

34 DR. KLOTINS: Basically, we would like to use expertise
35 that have specific experience and knowledge of the
36 PCR testing and the various primers that can be
37 developed, the various methodologies that can be
38 used during PCR, and to help us assess -- it's a
39 very technically different, difficult test to run
40 and it requires a lot of checks and balances, and
41 so we need to identify where those areas, where
42 the errors can occur that give results that we
43 are, you know, we may not be expecting.

44 Q I appreciate you weren't here, but Dr. Are Nylund
45 expressed some concern about stop codon found in
46 some of Dr. Miller's results in ISA segment 7,
47 which I understand is a vital protein to the

1 virus's survival. Do you have any comment or
2 knowledge of stop codons, yourself, or any of the
3 panel?

4 DR. KLOTINS: You know, that's not my current
5 expertise. I would need to get an evaluation by
6 somebody who spends a lot of time working with
7 PCR.

8 Q So from what you've described to me, it sounds
9 like this is going to be an area of research that
10 is long ongoing.

11 DR. KLOTINS: I think it's going to take a while to
12 work out all the bugs and find out -- and
13 basically validate those tests and find out, you
14 know, what is -- what is the limitation of these
15 tests in terms of sensitivity and specificity and
16 then what that means in terms of how I can
17 interpret it and then design surveillance plans,
18 where we can design surveillance plans that
19 overcome the limitations of the test.

20 Q So just so I understand, I'm going to summarize in
21 my own, layman's terms; feel free to correct. To
22 confirm ISA, then, you need to isolate a virus,
23 sequence a virus, and culture it; is that correct,
24 more or less, or what are the prerequisites to
25 confirming?

26 DR. KLOTINS: Yeah. It depends on whether the initial
27 notification was dealing with diseased animals or
28 apparently healthy animals. Certainly, in our
29 case, well, in both cases, really, with the
30 diseased animals we -- our work is to have it
31 cultured first. You should be able to culture it
32 and then identify the virus using another test.
33 In our example, we used the PCR test to identify
34 what virus has been isolated. So we use a
35 combination of -- we have the clinical signs that
36 are consistent with ISAV. There may be other
37 information that was -- can be provided by
38 veterinarians or other laboratories that have done
39 other work, for example, histopathology, that
40 could support other findings.

41 We would then do the culture in our
42 laboratory and identify the virus, and that would
43 be a confirmed case. And it would have to be
44 consistent in most of the animals that we're
45 testing.

46 Q And I understand that that is not the case, then?

47 DR. KLOTINS: These were not diseased animals, at least

1 with clinical signs consistent with ISAV. So in
2 this instance, it was apparently health
3 populations except for the last population tested
4 by Kristi Miller of the Chinook salmon, but those
5 signs were not consistent with ISAV as well. So
6 we still have more work to do, more information to
7 gather on those.

8 But in cases of healthy populations, people
9 tend to do screening tests first and to identify
10 positive animals, which then would have to be,
11 under our confirmation protocol we would need to
12 isolate the virus and identify what it is to
13 report.

14 ISA is a little bit troublesome because there
15 are -- there may be a strain that is considered
16 non-pathogenic, and we're still working on how we
17 would confirm that testing. And that testing is
18 also -- the standards for testing for that
19 particular strain is still being worked out with
20 the OIE as well.

21 Q You did say, though, that Miller's results are not
22 consistent with ISA?

23 DR. KLOTINS: Basically, she was having the same issues
24 with reproducibility of those results. But I was
25 talking about the clinical signs were not
26 consistent, and that portion of the research
27 project was conducted by Dr. Sonja Saksida in
28 describing the clinical signs.

29 Q Now, I understand that Miller's techniques are
30 relatively new or novel in terms of this type of
31 testing?

32 DR. KLOTINS: I would say yes, because I have not seen
33 that reported in the literature. Peter, have you
34 seen fluidics?

35 DR. WRIGHT: Not with diagnostic application, no.

36 Q So then do you believe it's too early to be
37 speculating on what her results could mean? I'll
38 open that to anyone on the panel.

39 DR. WRIGHT: No, I agree that it is too early. And in
40 terms of incorporating any new methodology like
41 this into a diagnostic regime would, of course,
42 require that there be a thorough analytical and
43 diagnostic workup, and none of that's happened,
44 and it doesn't happen overnight. So that all has
45 to be done.

46 I would just point out, when you first
47 mentioned isolation versus culture, that they're

1 one in the same, you isolate the virus in the cell
2 culture and, as Dr. Klotins said, as it is with
3 most pathogens, you would dearly love to get it in
4 a cell culture, if it's a virus. But there are
5 some viral pathogens out there for which there are
6 no cell lines, crustaceans being a case in point;
7 there aren't many cell lines for many of those.
8 And for some viruses there are genotypes that are
9 non-pathogenic, and that does present a diagnostic
10 problem, because you cannot isolate it. You don't
11 have susceptible cell lines or it's just not
12 pathogenic, so therefore you have to come up with
13 other validated methods, and it's usually a
14 molecular method or detection right in the tissue
15 with, you know, electron microscopy or, you know,
16 fluorescents, various things.

17 So it's not all cut and dry. And any new
18 protocol that comes in, if you think of something
19 like the ELISA, which is for antibody detection
20 that's now fairly commonplace, that took almost 20
21 years to get it to a point of international
22 standardization where it became an accepted tool.
23 And the PCR techniques are still much younger than
24 that, and technologically they're changing every
25 day. So to get them to a point where they're
26 internationally standardized is going to be long
27 past my retirement.

28 Q So it's a little too early, then, to be running to
29 the newspapers with this, in your view?

30 DR. WRIGHT: At this point, especially if you're
31 changing up the techniques and you're going
32 further and further into analytical sensitivity
33 down to a point where it's very difficult to make
34 a diagnostic interpretation, you have to be
35 extremely careful on any conclusions that you draw
36 from it. In many cases, if you go too
37 analytically sensitive, you get yourself into a
38 world of hurt, because the actual interpretation,
39 it just exponentially becomes far more difficult
40 in terms of, you know, interpreting with respect
41 to disease. I mean, there's pathogens everywhere.
42 They don't all cause diseases.

43 Q I understand we had some evidence earlier on, the
44 number of pathogens, I think, was something like
45 if you were to connect them all together it would
46 extend beyond the moon, or several billion blue
47 whales. Is that really the types of volumes that

1 we're looking at in the world's oceans?

2 DR. WRIGHT: I certainly couldn't tell you.

3 Q Quite all right. Doctor, I'd like to actually
4 stay with you on this. You were talking about the
5 OIE reference lab designation a little earlier.
6 You said that this was voluntary and that there
7 was a change in standards between the time --
8 sorry, not the standards, but the process to
9 become an OIE reference lab between the time that
10 Dr. Kibenge's lab became an OIE lab versus now.

11 Can you just confirm what you said, that at
12 that time there was no audit process that was
13 required to become an OIE lab?

14 DR. WRIGHT: Well, I mean, there's still no audit
15 process. That part hasn't changed. But basically
16 what they're doing, now is there's a movement to,
17 if you want, increase the quality requirements of
18 these labs. If you look at the terms of
19 reference, basically they say, you know, "will
20 conduct tests on behalf of member countries," but
21 more and more, I mean, there's been two global
22 meetings of the ref labs, these are held four
23 years apart and there was one just in 2010, and
24 the OIE is setting more stringent standards.

25 So, you know, whether it's a new laboratory
26 applying for designation or whether it's an
27 existing laboratory, they're going to have to
28 comply with things like there's an expectation
29 that they will have ISO accreditation or
30 equivalent, and with that will ensure the proper
31 separation of activities and the traceability and
32 the chain of custody and everything else that goes
33 with it, especially if they're both research and
34 diagnostic and keeping those two activities
35 totally apart, that they will have to comply with
36 all the guidelines for biosafety and biosecurity
37 in these labs, the guidelines with respect to
38 management of data in these laboratories.

39 So really, they're coming up -- they're
40 basically saying, there, the ref labs are, in this
41 world and this day and age, are going to have to
42 comply with more stringent guidelines and
43 standards than they have before.

44 Q The ISO certification, is that the same one that
45 Dr. Nellie Gagné's lab is apparently pursuing?

46 DR. WRIGHT: We're working towards that one. If you
47 could just stop the music and -- I mean, there's

1 almost 235-some-odd requirements that have to be
2 fulfilled for 17025 in order to be audited by the
3 Standards Council of Canada. In a working
4 laboratory, if you could stop the merry-go-round
5 and spend a year just writing all of those SOPs
6 and supporting documents that are required, it
7 would make life much easier, but you can't. And
8 then, on top of that, especially with the Gulf
9 Fisheries Centres, we've undergone some major
10 laboratory renovations, again, to try and separate
11 all these activities that we were running on less
12 than ideal before doing our best, but now we've
13 actually split them out much more efficiently.

14 I mean, I would point out that the PBS
15 laboratory under NAAHP will be undergoing a third-
16 party audit before the end of this fiscal year.
17 They're a little further ahead of the curve on
18 this.

19 Q Now, did you say ISO 17025? Is that the same one
20 that the Association of Veterinary and Laboratory
21 Diagnosticians is currently running? Is it a
22 parallel or they satisfy those requirements?

23 DR. WRIGHT: Well, basically any laboratory, whether in
24 the States or in Canada, can apply for either --
25 either/or, but many of them are going with the
26 AAVLD only because it has a much more lenient
27 scope of testing. You can go with the Standards
28 Council of Canada. It's a bit more expensive.
29 And certainly for some of the provincial labs that
30 run many, many assays, they may have 90 to 100,
31 120 assays in their repertoire, putting all those
32 into a scope document and having to pay for every
33 single one of them becomes really inhibitory
34 because of the amount of money you would have to
35 put out to get that accreditation is just
36 phenomenal.

37 But there is work being done to try and make
38 the scope more flexible and make it broader and
39 more applicable without killing the bank. The
40 AAVLD has sort of an unlimited scope to it. But
41 the principles and the guidelines that are within
42 that standard are all the same. They're all an
43 interpretation of 17025.

44 Q Just bear with me one moment. So then, to the
45 best of your knowledge, was the - I keep coming
46 back to the word "audit"; maybe you can correct me
47 on that term - but the audit that was done of

1 Dr. Kibenge's lab in comparison with the Moncton
2 lab, to the best of your knowledge, then, would
3 that have been the first time Dr. Kibenge's lab
4 was audited?

5 DR. WRIGHT: Well, again, we haven't used the word
6 "audit" because it's not an audit. We're not --
7 CFIA doesn't do audits in that sense.

8 Q "Reviewed," then.

9 DR. WRIGHT: It's an assessment. And basically what
10 the idea was in going in was to -- it was trying
11 to reconcile why we were seeing these differences
12 between the Moncton lab and Dr. Kibenge's lab. So
13 it's looking at the protocol, itself. And then,
14 of course, because there's -- there are other
15 variables in any quality system beyond the
16 training of the staff, the environment that you're
17 working in, what are your biosecurity measures,
18 you know, and everything that goes into the
19 protocol, itself, basically they were assessing
20 all of that in both of the labs.

21 Q So the OIE, you said, is now increasing its
22 standard, so if it hadn't done a review of Dr.
23 Kibenge's lab beforehand, it will likely do so in
24 the future with others?

25 DR. WRIGHT: No, they don't -- they don't audit and
26 they won't audit. They may, as a requirement,
27 say, down the road, and they will certainly give
28 the reference laboratories and, where applicable,
29 the collaborating centres, enough time to achieve
30 it, but they may, you know, lay down the
31 requirement that you have to have 17025 or
32 equivalent and we'll give you two years, three
33 years, four years in order to do that, and if
34 you're not going to comply with what their
35 requirements are, then you would have to -- they
36 would withdraw the designation. That hasn't
37 happened yet, but that's the way the world is
38 going and there's a lot of discussion about that.
39 And basically they're just trying to bring the
40 quality up, because these labs are supposed to be
41 providing services to member countries within
42 their region.

43 MR. HOPKINS-UTTER: Thank you very much, panellists.
44 Mr. Commissioner, I note the time. I actually
45 have completed my questions. Thank you very much,
46 panellists. Thank you, Mr. Commissioner.

47 MR. MARTLAND: Yes, Mr. Commissioner, we can move to

1 break. If I'm able to suggest a short break, it's
2 not absolutely vital, but it's helpful if we can
3 do that. Thank you.

4 MS. PANCHUK: The hearing will recess for 10 minutes.
5 Please remain standing in place while the
6 Commissioner exits the room.

7
8 (PROCEEDINGS ADJOURNED FOR MORNING RECESS)
9 (PROCEEDINGS RECONVENED)

10
11 MS. PANCHUK: The hearing is now resumed.

12 MR. MARTLAND: Mr. Commissioner, just so the record
13 reflects that it was Shane Hopkins-Utter who
14 appeared as counsel for BCSFA for their
15 examination today. I have counsel for Aquaculture
16 Coalition with 30 minutes. Subject to donations,
17 I suppose, that may be adjusted. Thank you.

18 MR. McDADE: Thank you, Mr. Commissioner. My name is
19 Gregory McDade. I am counsel for the Aquaculture
20 Coalition.

21
22 CROSS-EXAMINATION BY MR. McDADE:

23
24 Q Let me just start with a few questions around
25 timing and government response. So I think
26 probably, Mr. Stephen and Dr. Klotins, these will
27 be questions for you. As I understand it, Dr.
28 Kibenge discovered the first positive results in
29 the 48 salmon he tested on October 15th, 2011 and
30 reported it to CFIA on that date; is that correct,
31 Dr. Klotins?

32 DR. KLOTINS: Yes, he did report it to the CFIA on
33 October 15th. In subsequent emails we discovered
34 that he actually had initial positive tests on
35 October the 9th that he did report to the clients.

36 Q All right. So the government's first awareness of
37 this was October 14th. Mr. Stephen, was --

38 DR. KLOTINS: October 15th, yes.

39 Q October 15th. Was DFO aware of it at that time?

40 MR. STEPHEN: No, and I wouldn't expect to be. CFIA is
41 an organization that was supposed to be receiving
42 notification.

43 Q So when did DFO first find out about these
44 positive results?

45 MR. STEPHEN: On Monday, the 17th of October.

46 Q When there was a press conference by Dr. Routledge
47 and SFU, is that...

1 MR. STEPHEN: I don't know about that, no.

2 Q Dr. Klotins, did you do anything around the fact
3 that there was now a positive test from the OIE
4 reference laboratory indicating that ISAV may be
5 present in wild salmon. What did -- did you make
6 any public statements? Did you notify anybody?
7 And by "you" I mean the CFIA.

8 DR. KLOTINS: Yes. So initially we had an internal
9 meeting, and I also talked to Dr. Kibenge to find
10 out his opinion of the results and whether he
11 thought they could actually be false positives.
12 We had a meeting to outline how we were going to
13 proceed on this investigation, and as part of that
14 meeting we determined we needed to assess whether
15 we should notify the OIE, and whether -- and then
16 who are our major trading partners for wild salmon
17 in B.C. and for farmed salmon, and notify our
18 specific trading partners, and also that, you
19 know, purchase, that we export our salmon to. And
20 we also notified the -- well, we prepared to
21 notify the CVOs of the various provinces and
22 representatives of the Canadian Council of
23 Aquaculture and Fishery Ministers in Canada.

24 Q Well, let me just take you back to this. You said
25 you had a meeting to determine whether you were
26 going to do those things. May I suggest to you
27 that you didn't do any of those things until after
28 this was made public on October 17th.

29 DR. KLOTINS: I have to disagree. Well, I can't -- I
30 can't point to the exact time when that news
31 report came out. But we were -- we had started
32 our disease response, and had some initial
33 meetings in deciding how we were going to proceed.

34 Q Between the 15th and the 17th you had done that?

35 DR. KLOTINS: It was on the morning of the 17th.

36 Q Doctor, when you talked to Dr. Kibenge, he told
37 you that in his opinion these were positives?

38 DR. KLOTINS: I asked him in terms of what his cut-off
39 points were for positive results, and he provided
40 those for me, and he thought they were positive.
41 What he didn't provide was the fact that those
42 results were not repeatable.

43 Q He didn't tell you that. He just told you they
44 were positive.

45 DR. KLOTINS: Yeah.

46 Q So in your view, as of October 15th following your
47 conversation with Dr. Kibenge, you had verifiable

1 positive results.
2 DR. KLOTINS: We did not have verifiable positive
3 results. We had a positive test result.
4 Q And you had no reason to -- at that point you had
5 no reason to believe there was anything wrong with
6 it at all?
7 DR. KLOTINS: Actually, we were very suspicious because
8 the -- number (1) it was identified in a species
9 that we had never seen it before. So we didn't
10 expect a prevalence of four percent, which is what
11 he got as two out of 50 being tested positive. So
12 we were already wondering if the results were
13 actually true positives.
14 Q But there was nothing you learned from Dr. Kibenge
15 that would support that, as far as you were -- as
16 far as he was concerned, these were clear
17 positives and that's all you knew at that point.
18 DR. KLOTINS: On October the 17th.
19 Q Yes.
20 DR. KLOTINS: Yes, October 17th.
21 Q Now, can I suggest to you that CFIA would not have
22 gone public with these results if Dr. Routledge at
23 SFU had not?
24 DR. KLOTINS: Well, we didn't go public with the
25 results right away, either. We started our
26 investigation and I believe we went public -- I
27 can't remember exactly when we did our first
28 public notice, but we did notify our trading
29 partners and we did notify governments in Canada.
30 Q You would not have gone public for many months if
31 this had not been reported in the media, would
32 you?
33 DR. KLOTINS: I can't answer to that.
34 Q You can't say?
35 DR. KLOTINS: No.
36 MR. STEPHEN: I'd like to answer that, please. I've
37 been working in regulatory reporting and
38 surveillance for 20 years here in Canada, fish
39 inspection and marine toxin monitoring was my
40 responsibility here, both at Fisheries and Oceans
41 and the CFIA. I've also been responsible for drug
42 residue testing, environmental contaminants
43 testing, and most recently from our laboratory
44 side of this program on aquatic animal health.
45 The Government of Canada does not routinely report
46 presumptive or preliminary results until we can
47 confirm those results.

- 1 Q So the answer to that is, Mr. Stephen, is you
2 would not have gone public either at DFO?
- 3 MR. STEPHEN: It would be CFIA's responsibility to do
4 the reporting, but again we do not report
5 presumptive results. We have to confirm those
6 results first.
- 7 Q And that can take months; is that right?
- 8 DR. KLOTINS: It's possible.
- 9 Q Well, and, Dr. Klotins, as I understood your
10 testimony on Friday, there was no way that these
11 samples could ever be confirmed because you had
12 chain of custody issues.
- 13 DR. KLOTINS: Correct.
- 14 Q So these would never have been more than
15 presumptive positives, no matter what.
- 16 DR. KLOTINS: This particular event, yes.
- 17 Q All right. So the Canadian public would not have
18 known about this but for SFU.
- 19 DR. KLOTINS: At some point we do report on our
20 investigations, but it is possible the Canadian
21 public would not have known.
- 22 Q And if a new disease came forward, something like
23 HSMI, discovered by a researcher at a university,
24 the same result would occur at CFIA; is that a
25 fair statement? No one would ever know until you
26 could do confirmatory testing yourself.
- 27 DR. KLOTINS: That particular disease is not a
28 reportable disease. It would be a new -- possibly
29 a new emerging disease. That is not -- it's not
30 notifiable to CFIA, and whether we would do any
31 more investigation on that disease would depend on
32 degree of mortality and how many fish populations
33 were being affected.
- 34 Q Mr. Stephen, what is DFO doing about the report of
35 HSMI in the Clayquot Sound fish farm?
- 36 MR. STEPHEN: I don't -- I'm not aware of DFO doing
37 anything at the moment. I only learned of Dr.
38 Miller's results when she forwarded them to the
39 Commission on last Tuesday. I have not had any
40 communication with anybody based on that disease
41 at the moment.
- 42 Q So it's now been almost a week and there's nothing
43 at all happening at DFO?
- 44 MR. STEPHEN: I didn't say that. I said I wasn't aware
45 of anything being done. I'm here, sir.
- 46 Q All right. Let's move on in the timeline. So
47 October 17th there was a press release and that

- 1 caused some -- some action. My understanding is
2 that there was a second set of samples that Dr.
3 Kibenge reported to CFIA, and these were actually
4 fish from the Fraser River system, the Harrison --
5 the Weaver Creek and Harrison Mills fish, and that
6 that report took place on October 20th; is that
7 correct, Dr. Klotins?
- 8 DR. KLOTINS: No, it is not. He actually informed us
9 on the afternoon of October 17th that he had
10 received samples from that area.
- 11 Q So you knew as of October 17th he was testing.
12 When did you know that he was getting positive
13 results from them?
- 14 DR. KLOTINS: On October the 20th.
- 15 Q Right. So he issued you a written report that he
16 had positive results on October 20th.
- 17 DR. KLOTINS: No, he did not. He provided a verbal
18 report.
- 19 Q All right. So as of October 21st, CFIA was aware
20 that there were positive tests for ISAV in the
21 Fraser River system, that's correct?
- 22 DR. KLOTINS: Well, we identified -- he gave us the
23 impression that they were from Weaver Creek, and
24 we needed to contact the submitter of the samples
25 to confirm the location.
- 26 Q And that was Dr. Morton?
- 27 DR. KLOTINS: Yes.
- 28 Q And so can I have Exhibit 2028 up on the screen.
29 Now, this is a statement from DFO, Mr. Stephen.
30 You were aware at the time that this statement was
31 issued that there had been positive tests found in
32 the Fraser River system?
- 33 MR. STEPHEN: I was aware that there were preliminary
34 results that indicated there was ISA, yes.
- 35 Q Why is there no mention in this DFO statement
36 about the Fraser River fish?
- 37 MR. STEPHEN: Because we do not report, as I mentioned
38 earlier, preliminary results. The results have to
39 be confirmed through our national reference
40 laboratory, and my understanding as of this date
41 there were none of those tests, and as of this
42 date today, none of those tests have been
43 confirmed from our national reference laboratory.
- 44 Q But this was a statement about 48 fish that were
45 in exactly the same situation, presumptive
46 positives, unconfirmed. So you were prepared to
47 talk to the public about those 48, but you didn't

1 mention a word about the Fraser River fish. Why
2 not?
3 MR. STEPHEN: Because we had completed our analysis of
4 these samples. We were requiring an analysis of
5 those samples because those were made public.
6 Yes. But we didn't make them public. We would
7 not report on any presumptive positives.
8 Q I suggest -- well, let me go back. When Dr.
9 Kibenge reported to you the positive tests, Dr.
10 Klotins, did you tell him not to issue a report to
11 Dr. Miller -- or Morton, sorry.
12 DR. KLOTINS: No, I did not.
13 Q He didn't report his results to the person who had
14 submitted his test for over a week. Are you aware
15 of that?
16 DR. KLOTINS: Well, it's up to him to decide when he's
17 going to report to his client. As far -- and I
18 don't know how long it takes him to complete his
19 testing and then issue his report.
20 Q Are you saying that you didn't discourage him from
21 doing that?
22 DR. KLOTINS: No.
23 Q Mr. Stephen, the reports on October 17th caused a
24 great deal of public interest in the question of
25 ISAV, and is that correct?
26 MR. STEPHEN: I would agree, based on the media, that
27 it did, yes.
28 Q And you did -- this didn't change your decision
29 not to report the Fraser River results at all?
30 MR. STEPHEN: CFIA is responsible for the investigation
31 of reportable diseases in Canada. We assist them
32 in providing laboratory diagnostic confirmation of
33 any of those suspected positives.
34 Q Can I have Exhibit 2089 up on the screen. This
35 was on November 9th both the federal Minister of
36 Fisheries and the B.C. Minister of Agriculture
37 issued a joint statement. You were involved in
38 that, weren't you, Mr. Stephen?
39 MR. STEPHEN: I provided some input to the document,
40 yes.
41 Q And you were briefing the Minister's office in
42 terms of what was happening in this investigation?
43 MR. STEPHEN: I was at times, yes.
44 Q And had you advised them Minister's office that
45 there were positive results for the Fraser River?
46 MR. STEPHEN: The Minister's office was advised that
47 there was presumptive results on all the tests

1 that we were aware of.

2 Q So when this -- could we highlight the third and
3 -- or the fourth and fifth paragraph, please. So
4 when the federal Minister and the provincial
5 Minister were issuing this report to the Canadian
6 public, your Minister at least was aware that ISAV
7 had been found in the Fraser River?

8 MR. STEPHEN: I repeat that presumptive results were
9 available to us and we were continuing with our
10 testing to try and confirm those results.

11 Q And when the provincial Minister referred to
12 "reckless allegations", he was aware that the OIE
13 office had found positive results in at least two
14 sets of salmon?

15 MR. STEPHEN: I can't speak to what the provincial
16 Minister had to say or did have any knowledge of.

17 Q Well, you'd seen this press release before it was
18 released, hadn't you?

19 MR. STEPHEN: I had seen a version of it, yes.

20 Q So that would be a pretty misleading statement,
21 "reckless allegations", wouldn't it?

22 MR. STEPHEN: I can't speak to that. As I said, I had
23 no input into Minister McRae's comments here.

24 Q All right. Can we have Exhibit 2029 on the
25 screen. You saw this, Mr. Stephen, you were aware
26 of this statement before it was released?

27 MR. STEPHEN: I saw a version of it, yes.

28 Q Dr. Klotins, you saw a version of it?

29 DR. KLOTINS: Yes, a version of it.

30 Q In the fourth paragraph, it says that:

31
32 DFO has tested all 48 samples...and the
33 results are all negative for the virus.

34
35 Is that a correct statement, Mr. Stephen?

36 MR. STEPHEN: I think Dr. Wright might be able to
37 provide a better answer to that than I.

38 Q Well, before Dr. Wright answers, I want to know
39 what your views were.

40 MR. STEPHEN: I was advised by our laboratories, yes,
41 that was a correct statement.

42 Q That's Nellie Gagné's laboratory?

43 MR. STEPHEN: That's correct.

44 Q Now, you heard her testify, didn't you?

45 MR. STEPHEN: I did.

46 Q And you heard her testify that her statements were
47 not negative, they were inconclusive because there

1 wasn't enough RNA present to be able to make a
2 conclusive statement; isn't that right?
3 MR. STEPHEN: I'm not sure I recall that exactly, no.
4 I heard a lot of testimony in a day and a half.
5 Q Well, let me suggest to you that she agreed that
6 without some qualification that would be
7 misleading, the qualification being that the
8 results were too degraded to be able to test.
9 Before you answer, Dr. Klotins, I want Mr.
10 Stephen's answer on this.
11 MR. STEPHEN: Could you repeat the question, please.
12 Q I understood her evidence to be that the samples
13 were so degraded that she couldn't say that they
14 were negative, that they were inconclusive, and
15 further that she would have expected a statement
16 to that effect in the release, otherwise it would
17 be misleading. What's your view on that?
18 MR. STEPHEN: On my understanding from the information
19 I was provided that those samples were negative.
20 Q You didn't know that they were inconclusive.
21 MR. STEPHEN: I knew that some samples were
22 inconclusive based on degradation of other
23 materials, the 299 fish that were collected from
24 Dr. Routledge. But I wasn't aware that these
25 particular ones were degraded to that level, no.
26 Q The next statement says:
27
28 These results are consistent with the
29 findings of an independent laboratory in
30 Norway...
31
32 Now, did you hear Dr. Nylund testify that he found
33 positives?
34 MR. STEPHEN: I did.
35 Q Doesn't the word "consistent" there mean they're
36 all negative? How is a positive from him
37 consistent with negatives from the other?
38 MR. STEPHEN: I don't know.
39 Q All right. Do you agree that's very misleading,
40 isn't it?
41 MR. STEPHEN: I wouldn't say it's misleading. I said I
42 don't know who put that comment in there.
43 Q Dr. Klotins, do you know?
44 DR. KLOTINS: That would have been an assessment by the
45 CFIA, an assessment of all the information we had
46 gathered to date, an assessment of whether those
47 findings were true positives or false positives,

1 and also in terms of the negative testing, how
2 confident we could feel in that.
3 Q Let me go back to the question of the Fraser River
4 fish. Do you not see that issuing this statement
5 when you're fully aware that there are positives
6 also in the Fraser River it's misleading to the
7 Canadian public?

8 DR. KLOTINS: I have to disagree, as I said, we do the
9 interpretation of the test results. We know the
10 PCR test is not a perfect test. Indeed, in some
11 of those 48 samples of the kidneys that we
12 obtained from Dr. Miller's lab, those were in good
13 condition and they did test negative. And the
14 gills were variable results. In terms of Dr.
15 Nylund's results, he could not replicate his
16 findings, and we considered them negative at this
17 time.

18 Q You defined them as negative, but --

19 DR. KLOTINS: Yes.

20 Q You were fully aware when this statement was put
21 in that Dr. Nylund would not have said that they
22 were consistent with a statement that they were
23 all negative?

24 DR. KLOTINS: Dr. Nylund reports on the ability of his
25 -- of the test or his testing results as they were
26 done in the laboratory. After laboratory tests
27 are done, then the interpretation of the test
28 results are -- need to be evaluated, and it's done
29 by -- in our case, by the CFIA, as we are
30 legislated to make that determination. So even in
31 veterinary medicine, when we get test results it
32 is not the laboratory that makes the determination
33 of the disease or not. They tell us under their
34 protocols they believe the tests are positive or
35 inconclusive and then the clinician makes the
36 decision, the interpretation on what those test
37 results actually mean to the patient.

38 MR. McDADE: Could I have Aquaculture Tab 59. Mr.
39 Stephen, you were present at a press conference,
40 and so were you, Dr. Wright, on November 8th,
41 2011. And this document is a transcription of
42 that news conference. Can I just ask that that be
43 made the next exhibit?

44 MR. MARTLAND: We think it is an exhibit, and in a
45 moment I may be able to provide you with what we
46 understand the exhibit number to be. It will be
47 on Commission's list of documents. It should be

1 Exhibit 2030.

2 MR. McDADE: Perhaps we can have Exhibit 2030 up. Yes,
3 thank you, it appears the same.

4 Q Mr. Stephen, when you gave this press conference,
5 you were aware of the positives that had been
6 found in the Fraser River fish?

7 MR. STEPHEN: I'll repeat that I was aware or
8 presumptive positives. We had not confirmed that
9 international reference laboratory.

10 Q You chose not to share that with the media?

11 MR. STEPHEN: I'll repeat that we don't share
12 presumptive positives in the normal course of
13 business, no.

14 Q Could we have Exhibit 2101 on the screen. It's an
15 email that you looked at on Friday, Dr. Klotins.
16 It's dated October 19th, 2011 at 3:35. The
17 subject of this email is Dr. Kibenge's laboratory.
18 Is it correct that as of October 19th, 2011, CFIA
19 had already determined that one of the reactions
20 it was going to have to this finding of positive
21 results is to go and check Dr. Kibenge's lab?

22 DR. KLOTINS: Yes. It was one of the options on the
23 table that we would ascertain, try to get some
24 more information to help make a determination
25 whether the results he got on the PCR test are
26 true positives or false positives.

27 Q No, I didn't ask you if you were going to confirm
28 his results. What I said was you were going to go
29 and attack his credibility, the credibility of his
30 lab. You were going to go and check his lab,
31 weren't you?

32 DR. KLOTINS: I disagree.

33 Q You weren't going to go check his lab. That isn't
34 what this email says?

35 DR. KLOTINS: No, it --

36 MR. MARTLAND: Mr. Commissioner, in fairness to the
37 witness, there are two different propositions
38 there. One is attacking credibility, one is
39 looking at the lab. And so perhaps in fairness to
40 the witness, those could be asked in two parts.

41 MR. McDADE:

42 Q Well, let me put it in the nicest possible way.
43 You were going to go check the credibility of his
44 lab?

45 DR. KLOTINS: We were going to go check the
46 methodology, the PCR methodology.

47 Q You weren't going to go -- well, we've seen a

1 document. Some people have referred to it as an
2 audit. I guess that's not the correct assumption.
3 It's an attack on his lab's credibility, isn't it?
4 DR. KLOTINS: I disagree.
5 Q Already as of October 19th, that's within a couple
6 of days of you having your first meetings to talk
7 about what to do with this, you were going to go
8 look at his lab's compliance. I think that's the
9 term used in the email.
10 DR. KLOTINS: You mean the compliance with the
11 biosecurity, the biocontainment? Is that what
12 you're referring to?
13 Q Well, the email speaks for itself. I'll move
14 forward.
15 Dr. Kibenge had the temerity to announce
16 positive test results and the result his lab is
17 being analyzed by you. That's the outcome of all
18 of this, isn't it.
19 DR. KLOTINS: Yes, the PCR methodology is being
20 investigated.
21 Q And, Mr. Stephen, I suggest to you that the
22 federal government is going to try and take away
23 his OIE certification as a punishment for this; is
24 that right? That's what you're going to do, isn't
25 it?
26 MR. STEPHEN: I have no authority to do anything about
27 his OIE certification.
28 Q I predict within the next 12 months Canada will go
29 after his credibility; isn't that right?
30 MR. STEPHEN: I disagree.
31 Q Could we have Exhibit 2026 on the screen, please.
32 While that's coming up, let me say the same thing,
33 Dr. Klotins. You're also now going after Dr.
34 Miller's lab and her methodology, aren't you?
35 DR. KLOTINS: We will be assessing the methodology so
36 we can get some idea of whether the results are
37 true positives or false positives. And that
38 hasn't been decided yet whether we're going to do
39 or not.
40 Q This was a press release issued by the CFIA on
41 October 21st, the day after you found out about
42 the Fraser River samples. Again, no mention of
43 the Fraser river samples in there, is there.
44 DR. KLOTINS: No.
45 Q Now, it says in the second paragraph:
46
47 Federal officials are working closely with

1 the Atlantic Veterinary College, which
2 conducted initial testing.
3

4 DR. KLOTINS: Yes.

5 Q Cooperatively, you would say?

6 DR. KLOTINS: And it was cooperative. In terms of we
7 did talk to Dr. Kibenge whether there were any
8 samples left from the 48 fish that we could
9 corroborate his findings. We also asked that with
10 the subsequent fish that he tested that were
11 submitted by Alexander Morton, and he did provide
12 us with the homogenates, so we could do some
13 corroborative testing.

14 Q So what work was he doing to assist you basically
15 other than you taking away his samples completely
16 from him, how did he work closely with you?

17 DR. KLOTINS: So the other way he worked closely with
18 us is to provide us with information on how he
19 performed the testing and on the PCR methodology
20 itself in terms of assessing whether it was a true
21 positive or a false positive. I should also
22 mention that I did invite Dr. Kibenge to be part
23 of a network laboratory for the NAAHP, and so he
24 could -- if he was interested, he could provide
25 testing for the National Aquatic Animal Health
26 Program.

27 Q When did you do that?

28 DR. KLOTINS: I did that, actually I'll have to check
29 my notes, but I believe it was on the 19th, or it
30 could have been on the 18th. I can't quite
31 remember. I had a number of conversations with
32 him over the couple of days.

33 Q Could we put up Exhibit 2104, please. Dr.
34 Klotins, the other -- before we get to that
35 exhibit, the other thing you did very shortly
36 after the press conference on October 17th was to
37 go out and seize all of Dr. Routledge's samples,
38 right?

39 DR. KLOTINS: It was not seizure. It was a request for
40 samples that we needed to help conduct our
41 investigation.

42 Q You took all of his samples away from him, right?

43 DR. KLOTINS: No, not all of his samples. He had
44 samples from 2009, 2010 and 2011. They were put
45 under quarantine, and we did take all of his
46 samples from 2011 to -- and sent them to Moncton.

47 Q Now, quarantine is, as a layperson understands it,

1 is you put something in place so that it can't go
2 in contact, in the case of humans, other people.
3 DR. KLOTINS: Yes. So in the case -- oh, sorry.
4 Q So let me finish this question. He had frozen
5 fish sitting in the lab. You put it under a
6 quarantine order. Were you afraid that it was
7 going to out and contact other fishes?
8 DR. KLOTINS: The reason we put it under quarantine is
9 to assist with our investigation, so those samples
10 would be available if we needed them for further
11 testing.
12 Q you took all -- but you took all of his 2011
13 samples.
14 DR. KLOTINS: Yes, we did, and we sent it to Moncton.
15 Q And you've not given them back.
16 DR. KLOTINS: We're currently --
17 Q Just answer the question, have you given them
18 back?
19 DR. KLOTINS: Not yet at this date, and nor have we --
20 Q Are you going to give them back?
21 DR. KLOTINS: That determination is still to be made.
22 We've completed the documentation and a veterinary
23 inspector will make the decision whether to return
24 them or not.
25 Q Well, and you're going to decide not to give them
26 back, aren't you?
27 DR. KLOTINS: I'm not --
28 Q So that no person will ever be able to test these
29 samples other than you. That's seizure, by my
30 definition.
31 DR. KLOTINS: No, I have not told you that we're not
32 going to give them back.
33 Q No, you're going to make that decision after the
34 Commission stops hearing testimony, aren't you?
35 DR. KLOTINS: No.
36 Q He's requested them back?
37 DR. KLOTINS: Mm-hmm.
38 Q Dr. Morton's requested her samples back?
39 DR. KLOTINS: Well, what happened there was she
40 requested the samples back, but it was unclear
41 which ones she wanted back, so we have requested
42 further information because --
43 Q You've only got one -- let me just -- hold on.
44 She only gave you one set of samples. How could
45 it be unclear when she asked for samples back?
46 DR. KLOTINS: Actually there were more than one set of
47 samples, possibly, and that's not clear. Because

1 there was some indication that she was involved
2 with the 48 samples that were part of Dr.
3 Routledge's samples, and then there were the
4 samples that came from Harrison Creek and Weaver
5 Creek. And those specimens were entirely
6 homogenized by Dr. Kibenge, and -- and that's what
7 we received from Dr. Kibenge was the homogenates.
8 So not the initial samples from Dr. Morton.
9 Q So let me just get clear in real terms what
10 happened. Once this report was made --
11 DR. KLOTINS: Mm-hmm.
12 Q -- CFIA swept in and took everything Dr. Kibenge
13 had, all the 2011 samples from Dr. Routledge, and
14 eventually all of the samples from Dr. Morton, and
15 hasn't shared it with anyone else since. Is that
16 a correct statement?
17 DR. KLOTINS: That is correct.
18 Q Now, let's come to the November 4th email. And
19 you gave testimony about this on Friday, and I
20 didn't really understand your answer so I'd like
21 to explore it again. According to this email, you
22 were thinking at that time of prohibiting or
23 advising labs in Canada that the CFIA did not want
24 them to test any more wild fish. Now, why were
25 you thinking that? Why was that a response to a
26 positive finding?
27 DR. KLOTINS: It was an option I put forward, basically
28 because we could not confirm chain of custody, and
29 it would -- it would be more of the same where we
30 couldn't confirm results. And we already knew we
31 were going to come out with a surveillance plan.
32 Q So what you're really saying is we don't want any
33 more citizens testing fish. We want to be the
34 only ones doing it.
35 DR. KLOTINS: We wanted to provide the oversight on
36 that testing, yes, because we are by legislation
37 the final arbiter of fish health status in Canada.
38 Q So let me just understand this chain of custody.
39 By your definition, if anybody else samples for
40 these fish, you don't have -- you've got chain of
41 custody issues?
42 DR. KLOTINS: Yes. If they're not under oversight of
43 CFIA.
44 Q And the only way you can get proper samples, then,
45 is if CFIA samples.
46 DR. KLOTINS: Or we contract the sampling, but we
47 provide the oversight.

1 Q But you're not presently sampling.
2 DR. KLOTINS: We're not presently sampling. We've got
3 a surveillance plan under development.
4 Q And you never sampled wild fish before this date?
5 DR. KLOTINS: No.
6 Q So as I understand your rationale, we're in a
7 little bit of a Catch-22. Only things we sample
8 will meet our test, and we're not going to sample
9 anything. Isn't that the situation as of October
10 2011?
11 DR. KLOTINS: October 2011? That was October 2011, but
12 now we're in December 2011, and I don't agree with
13 your statement.
14 Q All right. Well, as of October 2011, there was no
15 sampling program for wild salmon in place by
16 CFIA, was there?
17 DR. KLOTINS: Not at that time.
18 Q And when this -- when this memo was made by you --
19 DR. KLOTINS: Mm-hmm.
20 Q -- you were thinking about prohibiting other labs
21 from sampling, from testing any samples by any
22 other person other than you?
23 DR. KLOTINS: It wasn't a full-out prohibition. It was
24 an advisement. And it was just an option that was
25 not accepted.
26 Q Right. But you weren't -- you as the national
27 manager --
28 DR. KLOTINS: Mm-hmm.
29 Q -- were actually contemplating that.
30 DR. KLOTINS: Yes.
31 Q And then you found out you don't have the power to
32 do it.
33 DR. KLOTINS: I did not determine whether I had power
34 to do it or not.
35 Q I thought you just told me that you don't have the
36 power to do it.
37 DR. KLOTINS: No, I didn't say that.
38 Q Oh, all right.
39 MR. STEPHEN: Mr. Commissioner, I'd just like to point
40 out that DFO has been testing wild fish in B.C.
41 It may not be as comprehensive in scope as the
42 surveillance plan that CFIA is developing now in
43 consultation with us and others, but there has
44 been testing of wild salmon in B.C.
45 Q For ISA, Mr. Stephen, there's been testing of wild
46 salmon?
47 MR. STEPHEN: Yes, that's right.

1 Q When?
2 MR. STEPHEN: Our Pacific Biological Station, Nanaimo
3 lab has been testing this year.
4 Q When? You mean Dr. Miller's testing?
5 MR. STEPHEN: No, not Dr. Miller's testing.
6 Q Whose testing?
7 MR. STEPHEN: The National Aquatic Animal Health
8 Program laboratory in Nanaimo.
9 Q Before October 2011 for ISA.
10 MR. STEPHEN: Yes.
11 Q Who has been doing that testing?
12 MR. STEPHEN: I believe Dr. Kyle Garver from our
13 National Aquatic Animal Health Program laboratory.
14 Q Prior to 2010 there had never been any testing by
15 the federal government; isn't that right?
16 MR. STEPHEN: I'm not aware of it, but I can't speak to
17 -- to what the Pacific Station has been doing
18 prior to this year.
19 Q Well, except for 2004, 2004, the Pacific
20 Biological Station did test wild fish for ISA,
21 right?
22 MR. STEPHEN: There was a post-doctoral research
23 project that's been reported on here already, yes.
24 Q And it found ISAV, at least in the opinion of the
25 researcher, right?
26 MR. STEPHEN: I believe there's testimony been heard on
27 that question, yes.
28 Q And you were aware of that.
29 MR. STEPHEN: I wasn't at DFO in 2004. I was at CFIA.
30 Q Yes, all right. Dr. Wright, were you aware prior
31 to 2011 that that had been -- that ISAV had been
32 found at the Pacific Biological Station?
33 DR. WRIGHT: No, I wasn't.
34 Q All right. Let's turn to you, Dr. --
35 DR. WRIGHT: And I would just point out I wasn't
36 working for DFO at that point, either.
37 Q Well, let's find out who you told, Dr. Jones. You
38 were aware of it in 2004 and 2005 and 2006. Did
39 you advise your superiors of that?
40 DR. JONES: That I was aware of exactly what?
41 Q Well, that Dr. Molly Kibenge had found ISAV in
42 wild salmon.
43 DR. JONES: Dr. Molly Kibenge had some PCR results that
44 suggested the possibility that the virus is
45 present.
46 Q Yes. Well, let's not -- let's not get too deeply
47 into the niceties. She had certain findings.

1 DR. JONES: Mm-hmm.
2 Q Did you pass those up the chain of command?
3 DR. JONES: I did. My colleague, Garth Traxler, a
4 virologist, was aware and a participant in this
5 research. And the manager of our diagnostic
6 laboratory, who managed the **Fish Health Protection**
7 **Regulations** in the lab was also aware of these
8 findings.
9 Q Well, then when this -- when ISAV began to become
10 somewhat controversial, and during the Cohen
11 Commission hearings, you discussed those with your
12 superiors at DFO?
13 DR. JONES: Well, certainly after mid-October, we
14 discussed the earlier findings and it was
15 obviously relevant that the documents be included
16 at that point.
17 Q So when was -- why hadn't you reported this --
18 these reports to the Commission any earlier?
19 DR. JONES: Well, it's as I gave evidence last week on
20 Friday that the findings were deemed to be not a
21 positive finding. We were very critical of the
22 need for a very high level of confidence in the
23 information and when you put it all together, we
24 weren't comfortable that we -- we weren't
25 convinced that this was ISAV.
26 Q Well, you say "we". Dr. Molly Kibenge was
27 convinced.
28 DR. JONES: She may have been.
29 Q Yes. And so who do you mean by "we"?
30 DR. JONES: We means collectively the staff in the Fish
31 Health, Fish Health Section at the Pacific
32 Biological Station, which includes Garth Traxler
33 and Dorothy Kiesler.
34 Q Did Stewart Johnson know about these findings?
35 DR. JONES: I'm not sure he did. He wasn't working
36 with DFO until much more recently.
37 Q Well, did you discuss those with him once this
38 became controversial in October?
39 DR. JONES: Yes, I did.
40 Q And was Sonja Saksida aware of this?
41 DR. JONES: I'm not sure. I didn't mention it to Sonja
42 Saksida.
43 Q Back in 2004 did you not talk to her about this?
44 DR. JONES: I don't believe so. I don't recall
45 speaking to her about this.
46 Q Well, why would -- why would DFO bury the results
47 if they were simply something that was suspicious?

1 Isn't that how science works?
2 DR. JONES: Well, you know, this Commission might be
3 surprised to learn that much of what we do
4 provides negative results. We're sitting on files
5 of negative results. My computer is full of
6 negative results. They don't get talked about or
7 published. We -- this is how it works.
8 Q This is significant, though, ISAV in wild salmon.
9 Did you at least go and do more testing? Isn't
10 that what scientists do when they have uncertain
11 results is they test a bunch more salmon?
12 DR. JONES: Well, scientists do a lot of things, and
13 one of the most important things we do is be very
14 critical of what we're finding. We're -- we have
15 to be necessarily critical and sceptical
16 especially of unexpected findings, particularly
17 when it relates to the occurrence of the first
18 time of a highly virulent pathogenic organism in
19 an area that's not been reported before. We have
20 to be critical and sceptical.
21 Q But in the 2005 season, in the 2006 season, in the
22 2007 season, and on until DFO took over
23 responsibility for aquaculture, DFO did not a
24 single piece of research to sample wild salmon for
25 ISAV. Is that your understanding?
26 DR. JONES: I didn't ask specifically what -- Kyle
27 Garver was hired shortly after Molly Kibenge left
28 and is now the research virologist. Garth Traxler
29 and Kyle were both aware of the findings and
30 whether they chose to pursue a research program in
31 ISAV, I gather they did not, but I didn't ask why
32 they didn't.
33 Q So Dr. Garver was aware of these findings back in
34 2004 and '05?
35 DR. JONES: Not that early. He was aware shortly after
36 he started.
37 Q Okay. And so when he testified before this
38 Commission he knew about these findings, too?
39 DR. JONES: He knew that there were findings that could
40 not be repeated, that were not verifiable and that
41 to our best opinion did not represent the
42 occurrence of ISA virus.
43 Q And so when he was answering questions he didn't
44 think that that was something relevant?
45 DR. JONES: I don't know what Kyle was thinking.
46 Q Could I have document 2118 on the screen. You
47 were asked this morning by counsel about -- by

1 counsel for Canada about a document that had been
2 -- come forward over the weekend. Did you discuss
3 this document with counsel over the weekend?
4 DR. JONES: Yes, I did.
5 Q Was it you that brought it to his attention?
6 DR. JONES: This document was provided to me many, many
7 weeks ago -- or it was provided into this process
8 many, many weeks ago. It was provided probably
9 mid-November, if not earlier.
10 Q But it was this weekend you chose to speak about
11 it.
12 DR. JONES: Well, no, I've been speaking about this on
13 several occasions, but it occurred to me that if
14 it had not been entered into whatever the process
15 is that brings it up on the screen, then perhaps
16 it would be useful to do that.
17 Q Because you thought this statement about potential
18 reagent contamination was something you wanted to
19 rely upon.
20 DR. JONES: I think it's an important part of the
21 puzzle. I think it's important to recognize the
22 fact that we are inherently sceptical and critical
23 and that we rely on the highest level of
24 confidence in the data. And any indication that
25 casts doubt on the reliability of the data, I
26 think is important to be part of this discussion.
27 Q So the various -- the very researcher that was
28 involved with this said there was a small
29 possibility, and you chose to seize on that.
30 DR. JONES: Well, we have to look at all of the
31 information. We seize on everything we can and
32 judge it as to whether or not it's valuable or
33 not.
34 Q Can I go to page 24, please -- 24, oh, sorry, the
35 next page, 24 PDF. I think this is the conclusory
36 part of the statement, Dr. Jones. Did you read
37 that?
38 DR. JONES: Yes, I did. Yes, I did.
39 Q In the middle in bold it says:
40
41 I suppose this result rules out the
42 possibility of "reagent contamination"....
43
44 DR. JONES: Mm-hmm.
45 Q And isn't that because the strain that's found is
46 different enough that it can't be from
47 contamination if that strain doesn't exist before?

1 DR. JONES: Well, his data indicates that the sequences
2 that he found were not consistent with his
3 positive control, or with his controls, and
4 therefore it rules out the possibility in this
5 assay is a contamination.

6 Q Why would you tell the Commissioner about this --
7 mention on page 13 does not point out the key
8 conclusion.

9 DR. JONES: This is an entirely different set of
10 analyses. This is an examination of the segment 8
11 sequences. When people describe reagent
12 contamination, it's a description of the
13 possibility that's on a case-by-case basis, so
14 what the early reference was made to is a
15 reference to the possibility that in the 7th
16 segment analyses the data -- there was a
17 possibility that there was reagent contamination.

18 Q Well, I think I have to sit down, I'm out of time,
19 but I want to just make sure I get at least one
20 exhibit in, Aquaculture 14, please. Dr. Klotins,
21 or Mr. Stephen, have you seen this study from the
22 Senior Provincial Fish Health Biologist about the
23 Province's assessment of eggs and the Health
24 Regulations, have you seen that document?

25 MR. STEPHEN: I've seen the document when it was
26 presented through the Commission, yes.

27 MR. McDADE: Can I have that as the next exhibit,
28 please.

29 MS. CALLAN: The Province objects to this document
30 being marked in as an exhibit. It's expert
31 evidence without the proper foundation, and the --
32 the witness's qualifications and c.v. have not
33 been attached.

34 MR. McDADE: We'll submit the witness's qualifications,
35 Mr. Commissioner, and the Province has been
36 putting in those kinds of documents all along.

37 THE COMMISSIONER: We'll mark it for identification.

38 MR. McDADE: And just to ask a qualifications question
39 of Dr. Klotins, I think it's the email that's
40 Exhibit 2110.

41 MR. MARTLAND: I wonder if we could just briefly obtain
42 I suppose an alphabet exhibit letter.

43 MS. PANCHUK: Document for ID TTT.

44
45
46
47

1 TTT FOR IDENTIFICATION: Goldes, A Critique
2 on Infectious Salmon Anemia Virus Detection
3 Capabilities of the Canadian Fish Health
4 Protection Regulations, 2011
5

6 MR. LUNN: Thank you. And the document you wanted, Mr.
7 McDade?

8 MR. McDADE: 2110, I believe.

9 MR. LUNN: Thank you.

10 MR. McDADE:

11 Q Mr. Beres, who this document is -- this email is
12 from, Dr. Klotins, he was at that time the Acting
13 Regional Manager for CFIA?

14 DR. KLOTINS: I believe he was.

15 Q And he was the senior investigator on the West
16 Coast in respect of your investigation?

17 DR. KLOTINS: He was the incident co-commander, yes.

18 Q So this is a person both -- he's obviously
19 participating both in the public relations battle
20 and in the investigation, and I just wanted to ask
21 if you saw anything wrong with that?

22 DR. KLOTINS: I'm not going to comment on this email.
23 It's not my email, and I can't speak to what
24 Joseph was thinking at that time.

25 Q Aren't you his supervisor?

26 DR. KLOTINS: No. No, I am not his supervisor.

27 Q In regards to this issue, aren't you the senior
28 person in charge of dealing with this?

29 DR. KLOTINS: No, I'm not.

30 MR. McDADE: Thank you.

31 MR. MARTLAND: Mr. Commissioner, I have next counsel
32 for Conservation Coalition with 25 minutes. I see
33 Mr. Taylor on his feet.

34 MR. TAYLOR: I'm just rising, without a microphone, to
35 make a point because of the impression that may be
36 left. There was mention of Dr. Garver. The
37 participant Canada quite vigorously suggested that
38 Dr. Garver be part of these round of hearings and
39 Commission counsel declined to have him here. So
40 his evidence is not going to be here, which I find
41 regrettable, but I want to make that point so that
42 it's clear that we offered him up.

43 MR. MARTLAND: I think we have Mr. Harrison running to
44 the podium now.

45 MR. HARRISON: Good morning, Mr. Commissioner. Judah
46 Harrison, for the record, representing the
47 Conservation Coalition, which is a group of six

1 not-for-profits, and one individual, concerned
2 with the resource that is wild salmon.
3

4 CROSS-EXAMINATION BY MR. HARRISON:
5

6 Q Dr. Jones, I'd like to pick up with where Mr.
7 McDade was going. If you can put Exhibit 2118 on
8 the screen, please -- 2118, thank you. And if you
9 can turn to page 12 of this document, please.
10 maybe scroll up to the email that attached these
11 documents, please, it may be 11. Dr. Jones -- and
12 this is the one, thank you. Dr. Jones, am I
13 correct that you said that reagent contamination
14 is no longer a potential problem with the Molly
15 Kibenge samples? Was this possibility eliminated
16 from your mind?

17 DR. JONES: You're asking me whether I concluded that
18 reagent contamination was ruled out as a
19 possibility?

20 Q Yea, I am.

21 DR. JONES: We didn't ever rule it out as a possibility
22 of the work that she conducted at PBS, although it
23 didn't always seem to be the case. With the work
24 that Professor Kibenge in Charlottetown, Fred
25 Kibenge in Charlottetown sent back to us, there
26 was some indication that that may have been a
27 possibility, and we had seen nothing to change
28 that opinion based on the segment 7 work.

29 Q So am I correct that the date of this email is
30 November 5th, 2003?

31 DR. JONES: That's what it says, yeah.

32 Q Can we scroll down, please, to page 20. It may be
33 19, forgive me. Up above, the email, please. Oh,
34 no, sorry, it's a similar email. It's a similar
35 email, and the date should be November 12th. But
36 it's document, it's page 19 -- yes, thank you, 21.
37 Would you agree with me, Dr. Jones, that this
38 email was sent by Dr. Kibenge on November 10th,
39 2003, i.e., five days later, where the reagent
40 contamination claim arose?

41 DR. JONES: This is November the 10th, yes.

42 Q So can we go down two more pages, please. He
43 reported very similar information to you as what
44 was attached to the November 5th email; is that
45 correct? Continue to go down, I'm sorry -- that's
46 the one.

47 DR. JONES: Yes, this is part of the submission of

1 information back to our lab.

2 Q So in your evidence, did Dr. Kibenge rule out the
3 possibility of reagent contamination in the
4 original samples that he sent you?

5 DR. JONES: This I understood to be a separate
6 analysis. This was an analysis of the segment 8
7 sequences, and in reference to the segment 8
8 sequences he appears to rule out the possibility
9 of contamination.

10 Q Okay. Well, I will leave it there, thank you.
11 Dr. Jones, to the best of your knowledge, has
12 there been any additional sampling by DFO or CFIA
13 of Cultus Lake sockeye salmon, and has there
14 specifically been any testing for ISA of Cultus
15 Lake sockeye salmon since 2004?

16 DR. JONES: Hmm, not to my knowledge. But -- well, I
17 can only -- I can only qualify that further by
18 saying that I'm not advised always of exactly what
19 samples are being processed by the virology
20 program.

21 Q And am I correct that Molly Kibenge found 100
22 percent of the samples of Cultus Lake sockeye ISA
23 positive, or that there was an initial detection,
24 whatever the -- we don't want to get caught up in
25 semantics, but was there an initial detection of
26 positive finding of ISA in 100 percent of the
27 Cultus Lake sockeye samples she tested?

28 DR. JONES: Her finding was that of the 64 tissue
29 samples she tested from Cultus Lake sockeye, all
30 64 of those gave a positive result in her PCR
31 reaction.

32 Q So I understand you were never able to repeat the
33 results, using those same samples, but have you
34 ever gone and obtained additional Cultus Lake
35 sockeye samples and done any additional testing
36 since that time?

37 DR. JONES: Well, part of that analysis was to try to
38 understand the reliability of those 64 positive
39 tests, and the evidence that was presented that
40 she found, was that this was not ISA, based on the
41 sequence information. The answer to your question
42 is no, I have not come back to -- I haven't, and
43 I'm not sure whether or not the virology program
44 at PBS or whether other agencies have looked at
45 Cultus Lake sockeye.

46 Q Have you ever suggested to anyone that they do
47 additional sampling and testing of ISA, of Cultus

1 Lake sockeye salmon?

2 DR. JONES: No, I have not.

3 Q Okay. I'd like to move on to the draft
4 surveillance plan. And this is Exhibit 2112 right
5 now. Dr. Klotins, am I correct that you were
6 among the primary authors of this draft
7 surveillance plan?

8 DR. KLOTINS: No, I was not a primary author, but I did
9 review -- I am reviewing several versions.

10 Q And are you familiar with the draft surveillance
11 plan as is up on the screen right now?

12 DR. KLOTINS: If you could scroll down a little bit, I
13 -- I might be able to...

14 Q November 2011, if you -- it's on the first page.

15 DR. KLOTINS: Yes, I've provided some commentary on
16 this surveillance plan, but I haven't finished my
17 commentary on this plan.

18 Q Dr. Stephen, are you familiar with this draft
19 surveillance plan?

20 MR. STEPHEN: It's just Mr. Stephen, and, yes, I am.

21 Q Okay, thank you, sorry about that. Dr. Klotins,
22 am I correct that this plan was conceived and
23 developed following the most recent detections of
24 ISA, and again I don't want to get caught up in
25 semantics. But potential positive detections, was
26 this surveillance plan drafted after that?

27 DR. KLOTINS: Yes, it was. It was part of the disease
28 response.

29 Q Thank you. Do you agree with me that members of
30 the public generally, and specifically I can point
31 to Rick Routledge and Dr. Alexander Morton. Do
32 you agree that these two persons were absolutely
33 integral to bringing to light the fact of the
34 potential of ISA in B.C.?

35 DR. KLOTINS: Well, I'm not going to comment on that.
36 Part of the reason we're doing this plan is -- is
37 basically to satisfy our countries that we trade
38 with. They want to know the health status of
39 finfish in B.C., salmonids.

40 Q So I understand that our trade partners want to
41 know whether ISA's in B.C. Do you, in your view,
42 does the public have a right to know whether ISA
43 is present in B.C.?

44 DR. KLOTINS: Yes. Yes, I do, and they will know once
45 it's been confirmed.

46 Q Thank you. So do you envision this plan and the
47 test results to be public and transparent totally?

1 DR. KLOTINS: Yes, I do. I believe there is some
2 indication of that if you look at the
3 communications section. But certainly this is a
4 draft plan, and we do report our surveillance
5 results to the public.

6 Q So can we go to some specific aspects of this
7 plan, and I would suggest that nowhere in this
8 plan does it say that it will be given to the
9 public. But I'd like to go to some specific parts
10 and ask for comments on this.

11 First of all, page 6. If we can go to page
12 6, and I'm only going to use the actual numbers,
13 not the PDF numbers. If you can -- the big
14 paragraph, third, I guess, fourth paragraph down,
15 the large paragraph in the middle of that, please.
16 So the second-last sentence reads:

17
18 There is no evidence to support that ISAV and
19 IPNV occur in either wild or cultured salmon
20 in B.C.
21

22 DR. KLOTINS: Yes.

23 Q Given the evidence we've heard to date, is that a
24 true statement?

25 DR. KLOTINS: I believe it is. We've had preliminary
26 test results. We've identified that there's
27 issues with the test. It is not perfect. And
28 there is no evidence to support that at this time.

29 Q So there is no evidence to support that ISA is
30 occurring in either wild or cultured salmon in
31 B.C.

32 DR. KLOTINS: Yes.

33 Q Thank you. If we go to page -- I think we're on
34 page 6, so the very top paragraph on this page, it
35 says:

36
37 The...(CFIA) proposes to undertake the
38 development and subsequently the
39 implementation of the proposed plan in
40 partnership with [DFO] and via a series of
41 consultation with industry, provincial
42 stakeholders and rights holders.
43

44 Mr. Stephen, and Dr. Klotins, will this include
45 not-for-profit groups in B.C.? Are we part of
46 provincial stakeholders?

47 DR. KLOTINS: Well, here it would be, I'm not sure

1 exactly what the wording is. If they need to be
2 part of the consultation, I don't see why not.
3 And we can adjust the wording to reflect that.
4 Q So you weren't trying to exclude them, but it --
5 DR. KLOTINS: No.
6 Q Okay, thank you for that. I'd like to ask, you
7 know, picking up on this, going back to the
8 statement that there was no evidence of ISA in
9 B.C., or IPNV in B.C. in either wild or cultured
10 fish. My question to you is, well, first of all,
11 am I correct that this draft surveillance plan
12 will look at three diseases, ISA, IHN and IPN, or
13 ISAV, IHNV and IPNV?
14 DR. KLOTINS: Yes, initially that's what we're
15 proposing. Of course, that's open to commentary,
16 as well.
17 Q My question to you is how did you come to these
18 three diseases, and particularly I'd like to ask
19 you with respect to IPNV, considering it's never
20 been found in B.C. in any wild or cultured fish.
21 Why is it part of the Draft Surveillance Plan?
22 DR. KLOTINS: As I mentioned before, countries are
23 asking us to demonstrate freedom, and from
24 historical evidence, or at least from anecdotal
25 evidence, and some -- and the extensive testing
26 that's been done to date, or at least the testing
27 that's been done to date, there doesn't appear to
28 be IPNV. However, if we're going to -- you know,
29 because the Province isn't closed to trade, and
30 because we haven't tested everything, we will be
31 putting in the Surveillance Plan to continue
32 making the claim of disease freedom for IPN. It
33 may be that we find it eventually, and then we
34 won't be able to make that claim.
35 Q Dr. Jones, Dr. Wright, are there any additional
36 diseases that you can think of that should be part
37 of this surveillance plan? Do you feel that it's
38 sufficient to only look at these three? Are these
39 the three most important?
40 DR. WRIGHT: I would say that I'm not the expert that
41 you should be asking. I just make sure that
42 whatever is on that list that's put there by our
43 partners, that I can test for accurately.
44 Q Dr. Jones, do you have any comments on whether
45 this or -- whether these or other diseases should
46 be part of the surveillance plan?
47 DR. JONES: Well, I agree that these three viruses are

- 1 important, and that based on the need to
2 demonstrate presence or absence of infection with
3 them, that they should form the basis of a
4 surveillance program. But that as new information
5 becomes available, that perhaps this list will be
6 lengthened.
- 7 Q What about -- do you believe that novel diseases
8 are a potential threat to both cultured and wild
9 salmon in B.C.?
- 10 DR. KLOTINS: With respect to that, we keep an eye on
11 what's happening globally in terms of infectious
12 diseases in salmon. In addition, OIE member
13 countries bring up issues, either in the regional
14 meetings or in the annual general meeting at the
15 OIE. There's also conversations we have with our
16 trading partners about what diseases people are
17 finding and may be important. And if they -- if
18 we need to test for those diseases, they will be
19 added to the scope.
- 20 Q So theoretically, if there was a novel strain of
21 ISA in B.C., would you have to develop a
22 surveillance strategy to actually look for that
23 novel disease -- that novel strain, excuse me?
- 24 DR. KLOTINS: I'm probably going to defer to Peter on
25 this. But right now, my understanding is that the
26 PCR for segment 8 should be able to detect every
27 known strain of ISAV. Of course, if a new one is
28 detected, it will be checked to see if it can pick
29 it up. I think it would be very unusual that
30 there would be a new strain of ISAV with a
31 complete different segment 8. The reason they
32 chose that is because it's the most conserved
33 element of the ISAV virus and should pick up the
34 strains. But of course we're always checking and
35 making sure that will happen.
- 36 Q So, Dr. Klotins, in your understanding, is there a
37 significant chance or significant potential that
38 we have a mutated novel strain of ISA in B.C.? Is
39 there a significant likelihood, a potential
40 likelihood?
- 41 DR. KLOTINS: I would say the likelihood right now is
42 low.
- 43 Q There's a low likelihood, but there is some
44 likelihood.
- 45 DR. KLOTINS: Yes.
- 46 Q In your view, is it possible that the only reason
47 DFO and CFIA have not been able to confirm this,

1 or the primary reason is as a result of the assay
2 or primer used at DFO Moncton? Dr. --

3 DR. KLOTINS: It would be -- oh, sorry.

4 Q It was just Dr. Wright put up his hand. I'll let
5 you answer and then give it to him, please.

6 DR. KLOTINS: I think I've already answered that, that
7 the likelihood would be very low.

8 Q So in your view there is no chance that that is
9 the reason that we're not detecting -- that DFO is
10 not detecting it, and Moncton, or it's the very
11 low likelihood.

12 DR. KLOTINS: Very low likelihood.

13 Q Very low likelihood. Dr. Wright?

14 DR. WRIGHT: We've done comparisons -- well, as Dr.
15 Klotins said, segment 8 is the one that's being --
16 the PCR is identifying this region for two
17 reasons. One is it's very highly conserved
18 amongst the known ISA viruses that are out there.
19 It doesn't discriminate between either European or
20 North American strains. It picks them all up, and
21 that's why you see in some of these designations
22 they call it "uni" because that's universal. So
23 it is, it is highly conserved and it is also one
24 that during infection there tends to be more
25 copies of this because the viral production of
26 protein, this particular protein is much higher.
27 So you've got two things working for you with
28 segment 8.

29 And we have shown that using the same primers
30 and probes, or the different primers and probes,
31 the Snow versus the ones that are being used in
32 B.C. and the ones that are being used by
33 ourselves, should be able to pick up all known
34 strains of the virus.

35 When you talk about novel strains, there may
36 be a novel strain. There may be a very old
37 strain. We don't know. It's not one that was --
38 send up red flags there's apparent disease
39 outbreaks with it. And as I have said before, you
40 can have viruses circulating out there at very low
41 levels that may never ever cause a disease.

42 So the determination will have to be made,
43 even if there is a virus out there, whether it's
44 something that needs to be regulated or not, or
45 just put on a watch list. Because it's hard to
46 regulate something that does not cause any
47 disease.

1 Q Dr. Klotins, would the use of multiple primers or
2 assays enhance confidence in the testing results?

3 DR. KLOTINS: That's a really good question. I haven't
4 seen a paper that addresses that at all. Like
5 again, like I said, the -- and the segment 8 is
6 the highly conserved segment in ISAV. Our current
7 understanding, the variance that we do see in the
8 current understanding is more segment 6 and more
9 segment 5. And whether there is other variance
10 that can cause such a change in segment 8, really
11 we need to get a good geneticist who is involved
12 or who knows about mutations and see what even the
13 possibility is of doing that.

14 Q Can I have Conservation Coalition document Tab 21
15 on the screen, please. Dr. Klotins, are you
16 familiar with the OIE Aquatic Animal Health Code?

17 DR. KLOTINS: Yes. I've seen it, I haven't memorized
18 it.

19 Q Well --

20 DR. KLOTINS: Sorry.

21 Q -- I don't believe anybody in the world has and if
22 they have, they're scary. But if we could turn to
23 page 3 of this, please. And I'd like to take you
24 to the second-last paragraph on this page, and
25 I'll just read this for the record:

26
27 Methodologies for the analysis of
28 *surveillance* data should be flexible to deal
29 with the complexity of real life situations.
30 No single method is applicable in all cases.
31 Different methodologies may be needed to
32 accommodate the relevant pathogens, varying
33 production and *surveillance* systems, and
34 types, quality, and amounts of data...

35
36 Dr. Klotins, in your view, is it fair to say that
37 multiple methodologies will enhance confidence of
38 surveillance testing regimes?

39 DR. KLOTINS: Yeah, this particular chapter doesn't
40 just deal with test methods. It talks about
41 methodologies you can use to analyze the data to
42 provide interpretation of test results, as well.
43 Like I said, the test is not perfect and you need
44 to be able to interpret those test results.

45 As, and I agree, as scientific information
46 becomes available, we need to incorporate that
47 into our surveillance plans. So, for example,

- 1 what we currently know about ISAV, we will not
2 just be testing kidney. We will also be testing
3 gills, because of the possible -- the gills may be
4 a better location for identifying the non-
5 pathogenic variant, or strain, I should say, if
6 that truly exists. And so we are making
7 modification based on current knowledge. Now,
8 whether we have to do multiple PCR assays, that
9 actually would be better addressed as an
10 epidemiological investigation research project.
11 Q I've been told I only have three minutes left, so
12 I'm going to go really quickly here. But Dr.
13 Klotins, did you -- are you familiar with the Wild
14 Salmon Policy?
15 DR. KLOTINS: That is put out by...?
16 Q The Department of Fisheries and Oceans.
17 DR. KLOTINS: No, I'm not.
18 Q Mr. Stephen, are you familiar with the Wild Salmon
19 Policy?
20 MR. STEPHEN: I just heard mention of it, but I'm not
21 aware of it in any details at all.
22 Q So is it fair to say that conservation units of
23 Fraser sockeye salmon and the status of
24 conservation sockeye units was not at all
25 considered in the development of the draft
26 surveillance plan?
27 MR. STEPHEN: I'd like to answer that.
28 Q Please.
29 MR. STEPHEN: As I mentioned, I believe, on Friday when
30 I asked about the version of the surveillance
31 document, Dr. Stewart Johnson is providing
32 coordinating input into the document. I have no
33 idea if this particular version is incorporating
34 that information or other information yet, because
35 I haven't had a chance to do that. But we are
36 endeavouring to gather information from all parts
37 of DFO to provide input into this document, and,
38 as you indicated, it is a draft.
39 Q Well, may I suggest that you look at the Wild
40 Salmon Policy and the work of conservation units
41 of Fraser sockeye salmon, as there's been much
42 work around this.
43 DR. KLOTINS: And I will pass that on to Dr. Bruneau,
44 who is writing on the -- writing up the
45 surveillance plan.
46 Q Thank you. Given my lack of time, I'm only going
47 to go to one more area. Dr. Klotins, can you give

1 me an approximation of the number of Fraser River
2 sockeye salmon that will be sampled in one year,
3 given your draft plan? How many are we talking
4 about here?

5 DR. KLOTINS: I would have to look at the table that's
6 been provided so far.

7 Q Okay. So can we go to page 20, which is the table
8 that is provided so far, page 20 of the actual
9 document. Oh, I'm sorry, I would like to go back
10 to the draft surveillance plan which is Exhibit
11 2112. The very last, on the bottom of page 20,
12 this is a chart that sets out which sockeye salmon
13 will be sampled in the first two years. Am I
14 correct about that? This surveillance plan is the
15 entirety of DFO and CFIA's response for two years?

16 DR. KLOTINS: Like I said, this is a draft plan.

17 Q Yes.

18 DR. KLOTINS: This is an initial -- I guess, an initial
19 estimate of what we need to do for sampling. It
20 is still open to commentary. So the -- my
21 understanding is the -- this is proposed for each
22 of two years, and but the plan will be reviewed
23 after the first year. Well, I mean, we haven't
24 come up with a final plan yet, number one. So we
25 need input there. But it will be reviewed after
26 the first year to see if that needs to change in
27 terms of our sampling frame.

28 Q Thank you. Is anyone here very familiar with
29 where Fulton River spawning channel is, where
30 Pinkut Creek spawning channel is, where Nadina
31 spawning channel are? These are three of the four
32 areas that DFO or CFIA will sample Fraser sockeye.
33 Anybody on the panel? Dr. Jones? Maybe I'll ask
34 my direct question. Is it fair that these are in
35 the Skeena watershed and not on the Fraser River,
36 all three?

37 DR. KLOTINS: I believe that the Weaver Creek is on the
38 Fraser River, is it not?

39 Q yes, the Weaver Creek is on the Fraser River, and
40 I haven't gone there yet. So --

41 DR. KLOTINS: Okay.

42 Q -- am I correct, Dr. Klotins, that of the four
43 areas that you will be sampling sockeye salmon,
44 only one is Fraser River sockeye salmon?

45 DR. KLOTINS: That is what's currently being proposed.
46 That may not be correct.

47 Q So am I correct that this, for the entire year,

1 the entirety of your surveillance plan sees
2 collection and sampling of 88 Fraser River sockeye
3 salmon on one single day in one single area, and
4 that's 88 fish?

5 DR. KLOTINS: It doesn't speak to those will be
6 collected all on one single day. And so that may
7 not be correct, because the timeframe is indicated
8 February to May. There are assumptions on the
9 sampling, framed in terms of what the population
10 is of sockeye salmon. And currently I believe the
11 -- I don't know how many sockeye salmon
12 populations are being considered, but I think
13 they're basically considered one because of the
14 mixing out in the Pacific Ocean.

15 Q I'll have to leave it there because I'm out of
16 time, but I need to ask one more question. Dr.
17 Jones, given you're expert in virology, is the
18 surveillance plan adequate to obtain a confident
19 answer of whether or not there is ISAV in Fraser
20 River sockeye salmon?

21 DR. JONES: Well, I'm an expert in parasitology, I'm
22 not an expert in virology. I'm seeing this for
23 the first time. I think I would like to look at
24 it more thoroughly, but it's always very difficult
25 to know exactly what an optimal number is in a
26 surveillance program, given that uncertainty is --

27 Q Is 88 sufficient?

28 DR. JONES: Well, probably not --

29 Q Thank you.

30 DR. JONES: -- for one site.

31 MR. HARRISON: Thank you.

32 MS. PANCHUK: Would you like to have this document
33 marked?

34 MR. HARRISON: Thank you very much.

35 MS. PANCHUK: This one will be 2134.

36
37 EXHIBIT 2134: Aquatic Code, Ch. 1.4 Animal
38 Health Surveillance
39

40 MR. MARTLAND: Mr. Commissioner, I didn't rise before,
41 but our understanding is that the Nadina indeed
42 would be part of the Fraser watershed. I thought
43 Dr. Jones was trying to pick up on that and his
44 mike wasn't firing. I don't know if he was
45 looking to pick up on that point, or just out of
46 fairness to the witness if he was, this is a
47 chance to do that. Otherwise we move into counsel

1 for Areas D and B with 25 minutes. But if I might
2 just see if Dr. Jones did wish to make a point
3 there.

4 DR. JONES: No, I have no further comments.

5 MR. MARTLAND: All right. Mr. Rosenbloom, 25 minutes,
6 thank you.

7 MR. ROSENBLOOM: Thank you very much. Mike on, thank
8 you. My name is Don Rosenbloom, and I appear on
9 behalf of Area B and Area D, and for those of you
10 from Ottawa, Area B is the seiner fleet of the
11 South Coast; Area D is the gillnet fleet, one of
12 the gillnet fleets of the South Coast area. The
13 time right now is 12:02 and I assume I will go to
14 12:30, having been provided with 25 minutes.

15
16 CROSS-EXAMINATION BY MR. ROSENBLOOM:

17
18 Q I want to first deal with you, Mr. Stephen, and
19 with respect to communications that you had with
20 Dr. Miller subsequent to her research work of
21 recent day becoming known to you. And we were
22 provided with a will-say of your evidence, and it
23 says in this will-say in part, in respect to your
24 evidence, and I quote [as read]:

25
26 He may answer questions about what he told
27 Dr. Miller about her testing fish samples for
28 ISAV and what the consequences of her making
29 a positive report of ISAV findings would be.

30
31 What, sir, did you tell Dr. Miller in terms of the
32 consequences of her coming up with a positive
33 result?

34 MR. STEPHEN: I spoke to Dr. Miller and told her that
35 coming with results from a research angle without
36 proper confirmation of those results from a
37 diagnostic perspective could have dire
38 consequences. It's the same as what we've been
39 talking about all morning with respect to
40 preliminary results coming out publicly until you
41 get confirmation. And then I went on to say to
42 her that what we need to do, and I did speak at
43 length to her supervisor afterwards, is take her
44 findings and put a project plan together to look
45 at an appropriate way to deal with answering the
46 questions that she has arrived at, or with --
47 based on her preliminary findings to move ahead in

1 a structured way.

2 Q Yes. But we all recognize that preliminarily a
3 finding comes out of an ISA.

4 MR. STEPHEN: Mm-hmm.

5 Q Which then leads to subsequent work that has to be
6 done. Were you faulting Dr. Miller for the fact
7 that she had determined that there were positive
8 findings?

9 MR. STEPHEN: Not in the least. I was surprised that
10 Dr. Miller had not come forward with her original
11 findings -- or her findings earlier, because she
12 was obviously aware of an ongoing investigation,
13 and that was important to notify CFIA. I was
14 surprised again that Dr. Miller, as I testified
15 twice already, I believe, that Dr. Miller had not
16 come forward to CFIA and properly notified them in
17 an appropriate and timely manner.

18 Q Well, Mr. Stephen, I think it's only fair to you
19 that you're confronted with the testimony that Dr.
20 Miller gave on Thursday of last week, December the
21 15th, and I refer to the transcript, Mr. Lunn, of
22 that date, page 127. And I ask for you to look at
23 line 16 of that page, where I am questioning Dr.
24 Miller about this very communication between you
25 and herself. And at line 16 I asked:

26
27 Did he say anything --

28
29 - speaking of you, Mr. Stephen -

30
31 -- in terms of how positive findings might be
32 consequential in terms of our relations with
33 the Americans?

34
35 Answer:

36
37 I think he just intimated that I, as a
38 scientist, would not understand the
39 complexities of these issues and that, as a
40 scientist, I should not be undertaking
41 research on something if I didn't understand
42 the ramifications of what the results could
43 do.

44
45 Let's stop there for a moment.

46 MR. STEPHEN: Mm-hmm.

47 Q Do you agree with her characterization that you

1 were telling her that she shouldn't be pursuing
2 research if she didn't understand the
3 ramifications of her results?

4 MR. STEPHEN: No, I don't agree. I agree that I was
5 saying to her that in the context of a reportable
6 disease, that research can tie into regulatory
7 research as we are doing already within the scope
8 of the NAAHP program.

9 Q You agree, do you not, sir, as a scientist, one
10 should not be in the slightest concerned with
11 political ramifications of their work, that their
12 responsibility as scientists is to conduct in an
13 objective way whether or not there are positive
14 findings to be had?

15 MR. STEPHEN: I agree, and so does the Department. We
16 welcome, and I have already attested to funding
17 that I've provided Dr. Miller, even recently, for
18 research, pure research. What I did say and what
19 I have gone on to discuss with her supervisor, as
20 I mentioned before, is it a point now to bring in
21 this newfound research and tie it into a
22 regulatory program, that we need to have more
23 answers to.

24 Q Let's go on with her testimony. I'm at line 25
25 now.

26 MR. STEPHEN: Mm-hmm.

27 Q I asked:

28
29 And you took that as being intimidation, did
30 you not?

31
32 Dr. Miller's response:

33
34 Some level of intimidation.

35
36 Do you accept how she could have interpreted your
37 remarks as being intimidation?

38 MR. STEPHEN: I do not.

39 Q You do not. Thank you. I go on to my next area
40 of examination. The Minister's press releases,
41 there are I believe two press releases that are -
42 excuse me just one moment - that are really before
43 us of some importance. And one press release, and
44 I, because of time, I'm trying to make this quick
45 and some of my friends have already pursued these
46 threads, speaks of reckless conduct. In another
47 press release, the one of December 2nd, it speaks

- 1 of unfounded science, and so on. My question to
2 you is first you, Mr. Stephen, these press
3 releases being authored by your Minister. Did you
4 -- do you at this day, knowing what you know, find
5 that ministerial comments, both in the November
6 press release and the December press release to be
7 acceptable and accurate?
- 8 MR. STEPHEN: First I'll repeat that some of those
9 comments were not made by my Minister, they were
10 made by the Minister of the Province of British
11 Columbia. Secondly, I feel in general that the
12 Minister's comments do reflect the investigation
13 and the findings up to that date.
- 14 Q And so you stand here and you're comfortable in
15 adopting the term "reckless and unfounded"?
- 16 MR. STEPHEN: I did not say that.
- 17 Q Well, are you comfortable in adopting the remarks
18 made by your Minister?
- 19 MR. STEPHEN: I don't think my Minister made those
20 comments.
- 21 MR. TAYLOR: Well, I'm going to object. And if my
22 friend wants to ask these questions, the witness
23 has already said that was the provincial Minister.
24 he's going to need to bring up the document, and
25 put it to them.
- 26 MR. ROSENBLROOM:
- 27 Q I'm happy to do so. First of all, it's because of
28 time that I -- you are familiar with the comments
29 that were made in these communiqués, were you not?
- 30 MR. STEPHEN: I've seen a lot of documents, sir, in the
31 last few days, and I don't want to comment on
32 something I don't -- I can't recall everything.
33 I'm getting old. My memory doesn't serve.
- 34 MR. MARTLAND: I think that the first one may be
35 Exhibit 2089, the other one, December 2nd, should
36 be Exhibit 2004. So 2089 I think is what Mr.
37 Rosenbloom may be referring to.
- 38 MR. ROSENBLROOM: Mr. Lunn, if you could put that up.
- 39 Q Now, this is the one of November the 9th. You
40 will see approximately paragraph 5 down, it speaks
41 of recklessness. Do you see that, Mr. Stephen?
- 42 MR. STEPHEN: Yes, and I also see it's not from my
43 Minister.
- 44 Q No. But it's from the federal government jointly
45 with the provincial government, is it not?
- 46 MR. STEPHEN: That is by the federal government, yes,
47 but it's not from my Minister.

1 Q Yes, but you're integral to this whole sequence of
2 events that lead us to this hearing today, are you
3 not?

4 MR. STEPHEN: I've been involved directly, yes, since
5 the 17th of October.

6 Q Yes, you hold a senior position.

7 MR. STEPHEN: Well, Director's not that senior, but,
8 yes, I hold the position.

9 Q Yes. And I'm asking you in that position whether
10 you're comfortable in informing the Canadian
11 public that there was recklessness by those that
12 participated in announcing positive results.

13 MR. STEPHEN: Sir, I reply back to you that I give
14 advice, informed science advice to senior
15 management and to the Minister, and ultimately
16 it's the Minister's prerogative to make informed
17 decisions on that advice. I cannot stop anybody
18 putting down something in those documents. My
19 Minister did not make that statement. The B.C.
20 Minister did.

21 Q I understand. Now, let's lead to the second of
22 the communiqués, Exhibit 2004. And the clause
23 that has been highlighted to witnesses today and
24 yesterday -- or Friday is the third paragraph
25 down:

26
27 After Canada's reputation has needlessly been
28 put at risk...

29
30 And this is your Minister speaking, is it not?

31 MR. STEPHEN: Yes.

32 Q Yes. It goes on:

33
34 ...over the past several weeks because of
35 speculation and unfounded science, additional
36 in-depth, conclusive tests, using proper and
37 internationally recognized procedures, are
38 now complete and we can confirm that there
39 has **never been a confirmed case of ISA in BC**
40 **salmon, wild or farmed.**

41
42 Did you participate in the drafting of that
43 communiqué?

44 MR. STEPHEN: I participated in putting some input into
45 that, yes.

46 Q Yes. And so you were seeing drafts of this
47 document where they spoke of unfounded science?

1 MR. STEPHEN: Yes.

2 Q And you were comfortable with it then?

3 MR. STEPHEN: I provided comments to my Minister, and
4 communications, and they accepted what they wanted
5 from my comments.

6 Q Yes. And did -- were your comments that to make
7 such a statement might be reckless?

8 MR. STEPHEN: I didn't say the word "reckless". I
9 said, I would have used "because of speculation",
10 there has been a lot of speculation in the media.
11 I wouldn't have said "unfounded science".

12 Q And you wouldn't have said "unfounded" because it
13 was inappropriate, wasn't it.

14 MR. STEPHEN: I would have said "unconfirmed science".

15 Q Sorry, I didn't catch it.

16 MR. STEPHEN: Unconfirmed.

17 Q Unconfirmed.

18 MR. STEPHEN: In other words, our laboratories were
19 asked to confirm the presumptive positive
20 findings, and that's what we attempted to do.

21 Q And am I right, sir, in suggesting that as of
22 December the 2nd, when your Minister issues this
23 communiqué, that he and your Department are well
24 aware of Dr. Kristi Miller's results coming out of
25 Nanaimo.

26 MR. STEPHEN: We were aware of those, but again, as I
27 repeated earlier, those are only preliminary
28 results.

29 Q Yes. We recognize that. But you did not feel
30 that it was appropriate that the Canadian public
31 at least be informed of what you knew that a
32 scientist within your Department had come out with
33 positive results from testing.

34 MR. STEPHEN: Preliminary results are never released.
35 We have to confirm them. We've gone and done
36 tests for the first set of results Dr. Miller
37 produced. We are now going to be producing --
38 trying to confirm the preliminary findings of the
39 second set. We may in fact at some time come
40 across ISA in B.C., and we will report according
41 to these to CFIA. But until such time preliminary
42 results will not be reported as positives and will
43 not be made public.

44 Q Now, I come to the business of Dr. Molly Kibenge's
45 work back in 2004, well, actually, 2002, 2003,
46 2004, and my friend, Mr. Harrison, was speaking
47 about the Cultus Lake results. I put these

1 questions to Dr. Jones, in particular, and to you,
2 Dr. Klotins. You've been questioned even today
3 about the decision not to pursue testing of wild
4 salmon subsequent to 2004; is that not correct?
5 You obviously were asked those questions and you
6 said you did not, correct?

7 DR. JONES: That is correct.

8 Q For the life of me, I don't understand why knowing
9 what you knew in 2004, albeit that you questioned
10 the veracity or the validity of Dr. Kibenge, Molly
11 Kibenge's work, that you didn't consider it
12 critical to instigate or initiate a surveillance
13 program in that period of time. Can you answer
14 why?

15 DR. JONES: Well, viral surveillance of Fraser River
16 sockeye has been underway since before 2004 and up
17 until this year. There's an annual surveillance
18 of Fraser River sockeye for viruses. They culture
19 virus or they culture tissues from these fish,
20 looking for viruses. What they find is IHN virus,
21 when they do find a virus. So there is a
22 surveillance program that is underway for viruses.

23 Q But as of 2004, ISAV got on your radar screen, if
24 only it was controversial. But the fact is it was
25 on your radar screen as of that date, correct?

26 DR. JONES: There were some lab results that indicated
27 the possibility of ISA.

28 Q Well, I say that goes on your radar screen,
29 doesn't it?

30 DR. JONES: We were obviously aware of that, so we
31 conducted, and we were aware of the significance
32 of that, as well. This is not something we
33 treated trivially. We conducted a lot of
34 confirmatory tests, and there's -- as a result of
35 those tests, we found that we could not confirm
36 the findings. And so as is the result of many
37 things that we look at, we determined that that
38 was a negative result and we carried on. Now, I
39 can't talk about the decision-making processes
40 that my colleagues in the virology program went
41 through, but I'm not aware of any specific target
42 ISA screening that was -- that's been continued.

43 Q But you explain why nobody within your Department
44 chose to initiate a surveillance program, albeit
45 that they perceived Dr. Kibenge's results as
46 inconclusive. Why didn't somebody feel that it
47 was in the public interest that at that point in

1 time there be an aggressive program of
2 surveillance to determine whether or not maybe
3 Molly Kibenge was right.

4 DR. JONES: Well, I can only speculate as to why that
5 decision was made, or if a decision was made at
6 all. I'm not aware that the fish had not been
7 screened, but I'm certain that there's not been a
8 significant effort till recently. I can only
9 speculate that they decided this was not
10 significant because of our determination that this
11 was not a positive finding.

12 Q But, you know, Doctor, and I appreciate you
13 haven't been here day in and day out, but we've
14 been at this for almost a year, and if there's any
15 topic that has been of paramount importance to
16 this Commission, it appears to be the Cultus Lake
17 stock. And you were asked a question a few
18 moments ago, you as a panel, about the Wild Salmon
19 Policy. You are aware, are you not, that the
20 issues surrounding Cultus Lake are affecting the
21 commercial fleet in the opportunities to fish in
22 the West Coast, and you're aware that between 2007
23 and 2009 in fact there really wasn't a commercial
24 fishery because in part the government and DFO is
25 motivated to attempt to protect the Cultus Lake
26 stock. You're aware of that, are you not, in a
27 general sort of way?

28 DR. JONES: Yes, I am.

29 Q Okay. And knowing what you knew back in 2004 that
30 Dr. Molly Kibenge was coming out with the results
31 of 100 percent, as spoken about by my friend, Mr.
32 Harrison, a moment ago, wouldn't that have
33 triggered off in the minds of yourself and those
34 in authority at DFO that maybe you should be doing
35 a second test, a third test, and really putting to
36 rest that you could be confident that in fact the
37 government was carrying on surveillance about ISAV
38 at Cultus Lake, and that there was not an issue of
39 a pathogen?

40 DR. JONES: You know, shortly after Molly Kibenge
41 conducted those tests, she sent me an email and
42 essentially said in that email that these -- this
43 result does not represent ISA virus. And a
44 reflection of that was stated in the manuscript.
45 This was just another part of a long series of
46 information that led us to believe that these were
47 not true ISAV results.

- 1 Q But to determine whether there is a virus, don't
2 we go through this sequence, if I can call it
3 that, of determining by lab of a positive result,
4 then sequencing, culturing, and then determining
5 whether there's a pathogenic event going on that
6 may be killing fish. Do you agree with this?
- 7 DR. JONES: Absolutely, and we have obtained samples
8 from Fraser River sockeye, both in the virology
9 and the parasitology program over many, many
10 years. We have never seen any evidence of
11 clinical disease that would be typically
12 associated with ISAV. We've never seen pathology,
13 or we've never isolated the virus. There's no
14 information that would lead us to believe that
15 that finding was a real finding.
- 16 Q But being in your position, it seems to me if I
17 were in your boots and I was facing down the fact
18 that a scientist within my Department came up with
19 positive findings in respect to ISA, that were
20 confirmed by the OIE lab in Prince Edward Island,
21 I would have thought, if I were in your boots, I'd
22 be saying to myself, well, okay, it's not
23 confirmatory. We're not totally comfortable with
24 this, but we'd better cover ourselves by ensuring
25 that we do further testing of the Cultus Lake
26 stock and we are able to say to our superiors, and
27 indeed in turn to the Canadian public, that, look,
28 we are confident that Dr. Molly Kibenge's results
29 were all false positives and that we do not have
30 an issue here. Why is it that that wasn't your
31 thinking?
- 32 DR. JONES: Well, we deal with disease and pathogens of
33 fish all the time, and we have approaches and
34 practices that we adopt to determine the validity
35 of approaches. By the way, the lab in
36 Charlottetown was not designated as an OIE
37 reference lab until, I think, a year after we
38 conducted our -- he conducted analysis of our
39 data.
- 40 Q Fair enough. But whatever its designation was,
41 you do recognize that Dr. Molly Kibenge's results
42 went to PEI and three positives found that were
43 her three positives, and as I read the material,
44 three positives she found that actually Dr. Molly
45 Kibenge did not find. Right?
- 46 DR. JONES: That's correct.
- 47 Q Right. That was of some significance, wasn't it?

1 DR. JONES: Well, it was also of significance, in my
2 mind, that three of seven that she'd identified as
3 positive could not be confirmed by Fred Kibenge's
4 lab. You know, so we were dealing with the
5 possibility of something quite significant
6 happening. We needed to be sure that the evidence
7 that we pulled together to support the claim of
8 ISAV was impeccable.

9 Q I've just got a few minutes left. Let me move to
10 the business of the results most recently of 2011.
11 And we've talked last day about -- and today, in
12 fact, about Exhibit 2110, which is the email that
13 speaks -- and maybe Mr. Lunn will put it up on the
14 screen. And it speaks of this PR battle. Before
15 speaking directly to this email, one thing I'm
16 having a lot of trouble with, is in terms of 2011,
17 we have the results that came from Dr. Kibenge's
18 lab, we have the results of Norway, which were
19 limited, but of some positive finding, and then on
20 the government side - if we can talk about two
21 sides; it seems like the government likes to
22 approach it at two sides - all we have are
23 unsubstantiated results of no meaning whatsoever.
24 Because as I read the material, and as I hear Dr.
25 Gagné last day, she speaks of her results being
26 inconclusive because of the degradation of the
27 samples that she received. Is it -- am I fairly
28 characterizing the two sides of what could be
29 argued on the positive side, and what could be
30 argued on the government side. Does the
31 government have any better case than to announce
32 that they have sent these samples to their lab in
33 Moncton, that they were sadly degraded, and they
34 were unable to really test them. They called them
35 negative, but they were inconclusive. Is that a
36 fair characterization? In fact, maybe to you, Dr.
37 Klotins.

38 DR. KLOTINS: It seems that there's a number of
39 questions, and I'm sorry if I can't sort them out
40 but I'll try to answer the best I can. Basically,
41 there's the testing portion, so there's test
42 results. And then we take those test results and
43 we interpret them, given what we know of the
44 possibility of ISA being out there, the
45 possibility that, you know, this is a susceptible
46 species, other information about ISA. So
47 basically we have an idea already of whether these

1 results can be interpreted with any sort of
2 meaning. As I mentioned to you before, that not
3 all the results were inconclusive, I need to
4 repeat again that the 48 kidney samples were
5 negative for sure. And in terms of inconclusive
6 on those 48 fish, inconclusive doesn't mean the
7 samples were not negative, as they're not just
8 sure if they could have been positive.

9 So in terms of, you know, our belief of ISA
10 occurring in B.C., we would need more evidence for
11 positive, to say they were positive.

12 Q Yes.

13 DR. KLOTINS: More information.

14 Q Yes.

15 DR. KLOTINS: And this is why we're starting our
16 surveillance program.

17 Q But doesn't "inconclusive" mean, frankly, of no
18 meaning whatsoever in terms of -- of your
19 analysis? I mean, doesn't inconclusive mean,
20 listen, we aren't able to really test these
21 samples, and we're unable to therefore say one way
22 or the other from our testing, whether it's
23 positive or negative.

24 DR. KLOTINS: Yes. I have been asking questions about
25 the RNA integrity testing and whether that really
26 does affect the test results for PCR, and that's
27 one area we do have to investigate further. My
28 understanding is that if -- if titres are really
29 high in the fish, you should be able to detect the
30 virus.

31 Q The email that is now on the screen, Exhibit 2110,
32 from my reading of it, it characterizes a state of
33 mind within government that you're fighting a
34 propaganda war, as you see it. Now, I know, Dr.
35 Klotins, this is not your email. But I'm going to
36 invite you to agree with me that the state of mind
37 within your Department, within your branch of
38 government, CFIA, is in fact that you are fighting
39 a propaganda war, that what is the ultimate
40 purpose of your work is to simply win this war of
41 those in the public interest that are trying to
42 bring out information. Do you deny that?

43 DR. KLOTINS: I personally don't agree with that
44 statement. Again, I cannot speak to Joseph
45 Beres's comments. From my viewpoint, I'm there to
46 find out if to assess the information and
47 critically appraise it and make a determination at

1 this time, we find it negative. However, there
2 are still some questions to be answered, and we
3 will be putting in a surveillance program. So I
4 do not agree with your statement.

5 Q And you say you're putting in a surveillance
6 program. That is an afterthought that has only
7 been developed by your Department and DFO
8 subsequent to the revelations in October of this;
9 is that not correct?

10 DR. KLOTINS: That is not entirely correct. There has
11 always been plans to put in surveillance programs
12 for all -- I did mention this before. To put in
13 surveillance programs for all the commodities. We
14 knew we were -- we would have to do this for the
15 salmon commodity on the West Coast, as well. It
16 hadn't been done up until this point because we
17 needed to secure the resourcing to move ahead with
18 the surveillance program, and in addition we had
19 to work with industry to find out basically what
20 was being done on the cultured side, identify the
21 gaps, and then identify what we needed to do on
22 the wild side. It was already in progress. It's
23 just this event happened to push things forward
24 because our countries are starting to ask for our
25 claims of disease freedom, and our supporting
26 information for those claims.

27 Q Thank you. My time is up, but is money an issue
28 here?

29 DR. KLOTINS: Resources are always an issue.

30 Q Are you anticipating problems in implementing a
31 surveillance plan because of financial restraint?

32 DR. KLOTINS: We're not anticipating that at this
33 point. But I can't guarantee that something, that
34 resources may diminish. I should point out,
35 though, that the surveillance program won't be a
36 one-off program, and that you can build evidence
37 over time. So even though we may not test
38 everything we want to test for this year, we can
39 use that information and use it build on in the
40 following years, and eventually get to a claim of
41 freedom.

42 Q Will wild sockeye be high on the list?

43 DR. KLOTINS: I believe all Pacific salmon are -- and
44 the Atlantic salmon are on the list.

45 Q Thank you, and Mr. Stephen did want to say
46 something.

47 MR. STEPHEN: Well, I just wanted to add that again

1 we're talking about a draft surveillance plan, and
2 until the finalized version or the most up-to-date
3 version, we can't really look at the overall scope
4 of resource impacts on that. We will be looking
5 at that, obviously in any program we do, we look
6 at that and we'll try and look at how we can best
7 optimize the resources we already have. There's
8 already talk, I saw it in the plan, about
9 obtaining samples from processing plants, which
10 would save some, you know, going out and chasing
11 fish, or getting them from the fishery as they're
12 landed. So there's ways to reduce resource costs
13 in any certain program that you're doing.

14 MR. ROSENBLOOM: Thank you. Those are my questions,
15 Mr. Commissioner.

16 MR. MARTLAND: Mr. Commissioner, that concludes the
17 evidence for the morning, but not the panel.
18 We'll be convening this afternoon from 3:15 until
19 4:30, so we'll now move to the lunch break. Thank
20 you.

21 MS. PANCHUK: The hearing will now adjourn until 3:15.
22 Please remain standing in place while the
23 Commissioner exits the room. Thank you.

24
25 (PROCEEDINGS ADJOURNED FOR NOON RECESS)

26 (PROCEEDINGS RECONVENED)

27
28 MS. PANCHUK: The hearing is now resumed.

29 MR. MARTLAND: Mr. Commissioner, we have counsel for
30 the First Nations Coalition next with 25 minutes.

31 MS. PENCE: Thank you. Leah Pence for the First
32 Nations Coalition.

33
34 CROSS-EXAMINATION BY MS. PENCE:

35
36 Q For the benefit of the witnesses, the First
37 Nations Coalition is a large coalition of First
38 Nations tribes and First Nations fisheries
39 organizations. We represent the Council of Haida
40 Nation, a number of Douglas Treaty nations, the
41 First Nations Fisheries Council and a number of
42 other First Nations fisheries organizations
43 throughout the province.

44 Mr. Lunn, if we could start with document for
45 ID SSS, just a very brief housekeeping matter.

46 Dr. Klotins, do you recognize these two
47 documents, the first being an email between you

1 and Timothy Davis attaching document entitled "PCR
2 Issues"?

3 DR. KLOTINS: Yes, I do.

4 MS. PENCE: Can we please have this marked as an
5 exhibit proper now?

6 MS. PANCHUK: 2135.

7

8 EXHIBIT 2135: Email from Timothy Davis and
9 attached PCR Issues

10

11 MS. PENCE:

12 Q Thank you. I don't actually have any questions.
13 I just want to make sure that's on the record as
14 an exhibit. Thank you.

15 My next set of questions will be directed to
16 you, Dr. Wright. And I wonder if, Mr. Lunn, you
17 could please pull up commission's document number
18 74. Dr. Wright, do you recognize this as being an
19 email between you and Stewart Johnson, as well as
20 others, about the term "inconclusive"?

21 DR. WRIGHT: Yes, I do.

22 MS. PENCE: Can I please have this marked as the next
23 exhibit?

24 MS. PANCHUK: 2136.

25

26 EXHIBIT 2136: Email from Peter Wright to
27 Stewart Johnson dated November 18, 2011

28

29 MS. PENCE: Thank you. And I'd just like to read into
30 the record what it says here. It says:

31

32 CFIA also received 299 sockeye salmon fish
33 samples that were thought to be collected at
34 the same time as the original 48 that
35 prompted this investigation. From these, all
36 299 samples have been tested and all results
37 are negative; however these results must be
38 considered as inconclusive at this time
39 because of the poor quality of the samples
40 received which prevent the detection of the
41 virus with any reasonable confidence.

42

43 You go on to say:

44

45 The use of the term "inconclusive" must be
46 taken within the context of the integrity of
47 the sample. Basically, it's a quality issue

1 because these samples were so badly degraded.
2 Under normal circumstances, these samples
3 would have been considered unfit for testing.

4
5 Nevertheless, our RT-qPCR test results were
6 all negative from an analytical point of view
7 (i.e. we have not found any detectable viral
8 RNA in the samples). From a diagnostic point
9 of view (i.e. with respect to the presence or
10 absence of the pathogen in the field), we are
11 saying that any interpretation must be
12 qualified or guarded because of the
13 degradation of the test material.

14
15 Dr. Wright, do you still agree with what you wrote
16 in that email?

17 DR. WRIGHT: Yes, I do.

18 Q Thank you. And if I could please pull up Exhibit
19 2004. That's the statement from the minister
20 that's dated December 2nd. I believe we've seen
21 this a number of times today. But I would like to
22 direct my questions now to you, Dr. Wright. And
23 Mr. Lunn, if you could just zero in on the third
24 paragraph. And it says:

25
26 "After Canada's reputation has needlessly
27 been put at risk over the past several weeks
28 because of speculation and unfounded science,
29 additional in-depth --

30
31 And this is the key word.

32
33 -- conclusive tests, using proper and
34 internationally recognized procedures, are
35 now complete and we can confirm that there
36 has never been a confirmed case of ISA in BC
37 salmon, wild or farmed."

38
39 Dr. Wright, can you comment on that word
40 "conclusive tests"? Is that accurate in your
41 view?

42 DR. WRIGHT: Well, there have not been any conclusive
43 tests, mainly because that in order to identify a
44 pathogen as being there, you either, (1) have to
45 be able to obtain it by, you know, through
46 isolation and cell culture, or you have to be able
47 to amplify enough genetic material that you can

1 actually do some definitive sequencing on it.
2 Q And your earlier email had referred to the correct
3 term in a diagnostic perspective as being to say
4 that the -- that the tests were inconclusive; is
5 that correct?

6 DR. WRIGHT: I'm saying the interpretation of the
7 screening tests that we've done should be
8 considered inconclusive because of the degradation
9 of those samples.

10 Q So the phrase there "conclusive tests", is that an
11 accurate statement?

12 DR. WRIGHT: Well, not in the terms of -- it depends on
13 how you interpret that as either being
14 confirmatory testing, which none has been done by
15 our lab or anybody else's lab.

16 Q Okay.

17 DR. WRIGHT: Right? But in terms analytically, we've
18 found nothing. We said the interpretation must be
19 guarded, but there have been no conclusive
20 confirmatory tests done by anybody at this point
21 in time.

22 Q I'll move on. If I could please pull up First
23 Nations Coalition document number 11. And my
24 questions are now for you, Mr. Stephen, do you
25 recognize this as being an email chain involving
26 you and Dr. Kiley? If you can just scroll down a
27 little bit, probably about halfway down, and at
28 the very bottom you can see Stephen Stephen dated
29 November 7th. Do you recognize this email chain?

30 MR. STEPHEN: Yes, it looks like something that was
31 sent to me by Dr. Kiley.

32 MS. PENCE: Can I please have this marked as the next
33 exhibit?

34 MS. PANCHUK: 2137.

35
36 EXHIBIT 2137: Email chain between Stephen
37 Stephen and Dr. Kiley

38
39 MS. PENCE: And Mr. Lunn, if you can just scroll all
40 the way to the end we can see where this email
41 chain starts, and it seems to start from Erin
42 Lynch at Minister Ashfield's office and it looks
43 like it's a request for a letter to be drafted.
44 And then if you can just go in a little closer,
45 Mr. Lunn, where it says:

46
47 Key messages to be included...

1 So it seems to be that the minister's office is
2 asking for somebody to draft a letter that will go
3 to the U.S. Senate and Congress and then the
4 minister is indicating to the drafters what the
5 messages should be.
6

7 Testing: Our official lab in Moncton has
8 completed the first tests and we can confirm
9 that all samples which have previously been
10 reported as infected with ISA have tested
11 negative in our lab. The samples show no
12 signs of the disease.
13

14 Then there's statements as to what should be said
15 in the letter with regard to lab review, as well
16 as public confidence.

17 And my question to you, Mr. Stephen, is is
18 this the usual routine for the minister's office
19 to tell staff what the message should be as
20 opposed to staff on the ground informing the
21 minister as to what the messages might be?

22 MR. STEPHEN: Well, I haven't had a lot of
23 correspondence with the minister's office
24 communication outside of this particular
25 investigation and over the last few months. This
26 was an email I received, yes, and it did include
27 some recommended comments in sections. I was
28 asked to draft something but I did not follow this
29 to the letter, as you see here. My wording was to
30 verify what we could, in fact, talk about in
31 testing lab review and public confidence. And, of
32 course, the lab review was being led by CFIA, so I
33 would defer to them for comments on that section.

34 Q Okay. Thank you. If we could just scroll back up
35 a little bit more, because I wanted to have you
36 comment on an observation made by Dr. Kiley. Back
37 to page 1, please, Mr. Lunn. Keep going a little
38 bit. Thank you. And the part that I'm interested
39 in is it says:

40
41 Brian,

42
43 Just forwarding you this to make a point. It
44 is becoming more apparent that DFO MinO --
45

46 And I take that to mean minister's office.
47

1 -- may not understand that ISAV is no longer
2 theirs. The disease is reportable under the
3 H of A --

4
5 **Health of Animals Act.**

6
7 -- and CFIA takes the lead. That they may be
8 doing a rewrite of the news release is
9 worrisome.

10
11 And then it's signed from Dr. Kiley.

12 Can you comment, Mr. Stephen, on this notion
13 that maybe DFO's minister is confused about his
14 role as opposed to CFIA's role?

15 MR. STEPHEN: Well, I didn't have personal
16 communication with the minister, but I can tell
17 you that his staff was obviously interested in
18 making sure a message was out that was clear and
19 to the point. I did meet with them several times
20 and briefed them on whose role was which within
21 the program. They are aware of it and I would
22 continue to reinforce that message whenever I met
23 with them or communicated with them, as I did with
24 our senior management, as well.

25 Q Do you think that there's any risks arising from
26 this communication confusion that you're having to
27 navigate?

28 MR. STEPHEN: Well, you have to imagine this is the
29 first time we had a new minister and new minister
30 staff. They hadn't encountered any such situation
31 before, so it did take a few times. I did speak to
32 Ms. Lynch personally a couple times outside of
33 even just a ministerial office briefing to explain
34 to her the situation, the roles of CFIA and DFO
35 within the program. But it was a learning
36 experience obviously for somebody unfamiliar with
37 the operational side of our program.

38 Q Would you agree that this confusion could create
39 some misreporting from DFO in regards to this
40 situation?

41 MR. STEPHEN: There was a possibility if I was to not
42 clarify the situation or others involved to
43 clarify the situation with the minister's office.
44 If we just let them go with an assumption that
45 they understood everything, but that wasn't the
46 case.

47 Q Thank you. If I could please turn to First

1 Nations Coalition document number 26, Mr. Lunn?
2 Witnesses, this is a document entitled "ISA
3 Virus". It seems to be a list of things done
4 well, things done not well or not so well or
5 things that aren't working. And then if you flip
6 over to the next page, it looks to be some of the
7 changeable items. So any of the panellists --
8 this was disclosed to counsel through this
9 process. Can you just tell me if you recognize
10 this document or...?
11 MR. STEPHEN: I don't recognize that document.
12 Q Presumably it was created with both CFIA and DFO.
13 DR. KLOTINS: No, I don't recognize this document.
14 Q Okay. Well, I'll just put some of the items to
15 you then and have you comment on what it says on
16 this page. In terms of the items not working, I'm
17 looking at a few of the bullets there and it
18 says:
19
20 Working with DFO and their minister's
21 office...
22
23 Mr. Stephen, you've commented a little bit on that
24 so far, but I wonder if, Dr. Klotins, you might
25 also comment on some of the aspects that are not
26 working in terms of working with DFO and the
27 minister's office.
28 DR. KLOTINS: I'm afraid I'm not in a position to
29 comment on that because I wasn't involved with any
30 of the communications with the minister's office.
31 Q Mr. Stephen, do you have anything more to add?
32 MR. STEPHEN: No. As I said, I've never seen this
33 document before.
34 Q And on the general concept of working with DFO and
35 the minister's office, anything further?
36 MR. STEPHEN: Well, as I mentioned, you had a new group
37 of ministerial staff, minister's office staff, and
38 they were learning as they went about how this
39 operation works between CFIA and ourselves.
40 Q Thank you. There's also a point here that says,
41 "Work with Science information". And that's
42 indicated as something that's not working so well.
43 It's about the sixth bullet down. Given that both
44 CFIA and DFO are science-based organizations, what
45 does that comment "Work with Science Information"
46 being listed under "not" refer to?
47 MR. STEPHEN: I don't think we can answer that or I

1 can't anyway, because there's -- it's not enough
2 detail in there to tell me what they were
3 referring to. It could be complexity of science
4 as many of us have heard here. A lot of the
5 science is above our heads.
6 Q Okay. And there's also a bullet there that says
7 "Result-sharing with the public". Mr. Stephen,
8 that is something that you've been involved with
9 in terms of briefing notes and press releases.
10 Can you comment on why that would appear under the
11 "not working" list?
12 MR. STEPHEN: Again, I don't know. I -- I can't read
13 this without having an understanding of the
14 discussion that arose for this general list of
15 points.
16 Q Perhaps I could just ask that it be marked for ID,
17 since I have asked some questions on it and maybe
18 counsel from Canada could help assist at the break
19 if there is time.
20 MR. TAYLOR: Well, I know I can't help with what this
21 is, but I'm fine with it being a document for ID.
22 MS. PANCHUK: Doc for ID UUU.
23
24 EXHIBIT UUU FOR IDENTIFICATION: Document
25 entitled ISA Virus
26
27 MS. PENCE:
28 Q I want to move now to some of the technical
29 briefings that were provided to the media. Am I
30 right in understanding that there were two
31 technical briefings provided to the media, one on
32 November 8th and one on December 2nd; is that
33 right?
34 MR. STEPHEN: That's correct.
35 Q And that there were also technical briefings that
36 were provided to the Canadian Council of Fisheries
37 and Aquaculture ministers and that industry
38 participated in; is that right?
39 MR. STEPHEN: I can't speak to that. CFIA has a
40 committee with Canadian Council of Fisheries and
41 Aquaculture ministers. They may have communicated
42 but I wouldn't be aware of that.
43 Q Dr. Klotins?
44 DR. KLOTINS: Yes, we did have a technical
45 communication with them.
46 Q Thank you. And perhaps I could pull up FNC
47 document number 7 and this might help refresh some

1 memories.

2 Witnesses, do you recognize this as being
3 Aquatic Animal Health Technical Briefing regarding
4 the reported suspect finding of ISAV in B.C. and
5 that was held by conference call on November 10th?
6 This seems to be a summary of that. Dr. Klotins,
7 can you confirm you attended that?

8 DR. KLOTINS: Yes, I did.

9 Q And Mr. Stephen?

10 MR. STEPHEN: Yes, I can, yes.

11 Q Dr. Wright? Your name seems to be on this,
12 Doctor.

13 DR. WRIGHT: My name is on there. I'm just trying to
14 recollect it. I can't right off the top of my
15 head.

16 MS. PENCE: Could I have this marked as the next
17 exhibit, please?

18 MS. PANCHUK: 2138.

19
20 EXHIBIT 2138: Aquatic Animal Health's
21 Technical Briefing Regarding the Reported
22 Suspect Finding of Infectious Salmon Anaemia
23 Virus (ISAV) in BC
24

25 MS. PENCE:

26 Q And I see that there's also members of the
27 provincial government there and for B.C. I see the
28 names Barron Carswell and Gavin Last and then I
29 also see that there's three industry reps who
30 attended that, Mr. Rob Morley for the B.C. Seafood
31 Alliance, Ruth Salmon for the Canadian Aquaculture
32 Industry Alliance, and Mary Ellen Walling for the
33 B.C. Salmon Farmers Association. Do you see that
34 there? Were they part of that technical call on
35 the 10th?

36 DR. KLOTINS: If their names are there, then they were
37 part of that call. Yes.

38 Q And my simple question is why were First Nations
39 not included as part of that call on November
40 10th?

41 DR. KLOTINS: I didn't set up the meeting and I really
42 -- I really don't know. Sorry.

43 Q Mr. Stephen, any further comments?

44 MR. STEPHEN: No. Again, CFIA organized that meeting
45 and I don't know what criteria they used to select
46 the participants.

47 Q Perhaps you can let the commissioner know, does

1 CFIA or DFO have a strategy or a practice or a
2 plan in terms of communications with First Nations
3 on issues like this, the detection of ISAV or
4 inconclusive test results, as it may be?

5 DR. KLOTINS: Yes, I know this was brought up with our
6 public affairs people and I don't know where it's
7 ended up. But it is definitely a new thing for
8 CFIA and it needs to be addressed.

9 Q And would you support a recommendation from this
10 commissioner that this be an area that CFIA and
11 DFO work to improve in terms of communications
12 with First Nations?

13 DR. KLOTINS: Mm-hmm.

14 MR. STEPHEN: If I could just add, I believe DFO does
15 have regular communication with First Nations, not
16 specific to infectious salmon anaemia but
17 obviously we have aboriginal fisheries group, we
18 have aboriginal policy group and things within
19 departments.

20 Q And would you consider using the joint DFO First
21 Nations Fisheries Council Aquaculture Working
22 Group as a potential channel for this
23 communication in the future? Sorry, we didn't
24 hear you, because of the mike. Would you consider
25 using the DFO FNFC working group on aquaculture as
26 a channel for communications?

27 DR. KLOTINS: Yes.

28 Q Thank you. And do you agree that being clear and
29 transparent with First Nations and with the public
30 about what is known and still unknown are
31 inconclusive about the test results, about the
32 surveillance plan and about future research on
33 issues related to viruses in wild salmon as being
34 critical to ensuring that there's confidence in
35 the federal government's plans?

36 MR. STEPHEN: As I've said before, we don't normally
37 release preliminary results, but confirmed
38 results. I certainly don't see any problem with
39 consultation on surveillance plans and other
40 things though.

41 Q Thank you. If I could turn now to Exhibit 2105,
42 it's Tab 92 of the commission's documents and it's
43 the Aquatic Animal Health Functional Plan. And
44 Dr. Klotins, I'll just -- while this comes up, did
45 I hear you correctly the other day when you said
46 that this was essentially the overarching view of
47 how CFIA conducts disease response? Is that

1 right?

2 DR. KLOTINS: Yes. It's a draft document that needs to
3 go out for further input.

4 Q Thank you. And if I could turn to page 40 of this
5 plan, it's in the Section 2.6 which is entitled
6 "Coordination with External Parties" and it's 40
7 on the actual document. I'm not sure of the PDF
8 number. There we go. And if you could just zoom
9 in into the top paragraph there, please, Mr. Lunn,
10 I see reference to the AAHC, the Aquatic Animal
11 Health Committee, and it says:

12
13 AAHC members include, but are not limited to,
14 the Canadian Aquaculture Industry Alliance,
15 the Fisheries Council of Canada, the
16 Aboriginal Aquaculture Association, the
17 Canadian Veterinary Medical Association
18 (CVMA), Maritime Aboriginal Peoples Council,
19 Congress of Aboriginal Peoples, provincial
20 representatives, academia, DFO, and the CFIA.
21

22 And would you agree that you have national
23 representation from First Nations there in terms
24 of the congress?

25 DR. KLOTINS: There are more aboriginal -- national
26 aboriginal groups that are invited to the Aquatic
27 Animal Health Committee and they do come to our
28 annual meetings and they do participate, sometimes
29 on our -- we have quarterly calls during the year,
30 as well. We're also open to having more people on
31 this committee.

32 Q And would you be open to having more people in --
33 by way of First Nations fisheries organizations,
34 First Nations leadership organizations from the
35 West Coast in particular?

36 DR. KLOTINS: Mm-hmm.

37 Q Thank you.

38 MR. STEPHEN: If I may add that one of the ones I don't
39 see listed here is the Assembly of First Nations
40 which has regularly participated in the last three
41 or four years.

42 Q Okay. So the AFN, as well. But why is it that
43 you would have the Aboriginal Aquaculture
44 Association, which I understand to be a group of
45 First Nations who are supportive of the
46 aquaculture industry, without having a broader
47 base of First Nations from B.C. who may have

1 concerns about the industry?

2 DR. KLOTINS: I don't know who was initially all
3 invited to participate, and so I can't answer to
4 that, but certainly we have evaluated that, you
5 know, we need to try to get more people to
6 participate again.

7 Q Okay.

8 DR. KLOTINS: And I believe there is going to be an
9 attempt made to increase that participation.

10 Q Thank you. And if I could turn to page 41 under
11 the heading "Stakeholders". And I see it written:

12
13 The provinces, industry, First Nations, and
14 academia play a role on many levels,
15 primarily in the detection and reporting of
16 animal disease at the earliest possible
17 moment.

18
19 Do you agree with the statement there, the role of
20 those players in the detection and reporting of
21 disease?

22 DR. KLOTINS: Again, it -- if First Nations are
23 involved in owning -- have possession, care or
24 control or they are veterinarians or analysts,
25 then we do expect them to notify the CFIA.

26 Q And more than just in terms of the notification
27 role, do you see them having also a role in terms
28 of sampling, detecting the disease, as well?

29 DR. KLOTINS: That's quite possible and I mean we spoke
30 a little bit about resourcing and how to -- how to
31 maximize the resources. One of the ways is to
32 include other groups with CFIA oversight to take
33 samples.

34 Q Thank you. If I could please pull up -- it's an
35 email, Mr. Lunn, and it's one that was circulated
36 to all counsel on the 15th. And if you could just
37 scroll down all the way to the beginning --
38 actually, you know what, I'll just give a little
39 bit of a rundown of what this is. This here seems
40 to -- it's a response from Keri Benner, who is
41 with the stock assessment in Kamloops at DFO and
42 it's a response to a request that she had, if you
43 scroll down just a little bit more, Mr. Lunn,
44 you'll see that Maxine is a member of the Lil'wat
45 Nation and she had emailed Ms. Benner with
46 questions as to -- well, she says:

47

1 Please help me understand the concerns --

2
3 And by concerns, she's referring to concerns
4 forwarded to her by Alexandra Morton.

5
6 She's suggesting we take samples from our
7 salmon. While I would support her idea if I
8 could get your support, time is of the
9 essence.

10
11 So it's, in essence, a request from a First
12 Nations person, a First Nations Fisheries Program
13 manager for more information from DFO on taking
14 samples of their salmon because they have concerns
15 about the health of salmon. If you scroll back up
16 to Ms. Benner's response, what we see is she
17 writes:

18
19 At this point in time we do not believe that
20 additional sampling of salmon for ISAV is
21 necessary.

22
23 So I'm just wondering how that response works with
24 what we see in the functional plan which suggests
25 that First Nations and other partners play a key
26 role in detecting the disease.

27 Dr. Klotins or Mr. Stephen, if you could
28 comment on that?

29 MR. STEPHEN: I'll just say that I've never seen this
30 request. Keri Benner I don't know myself and this
31 request never crossed my desk at all.

32 Q Would you be surprised that somebody from DFO is
33 responding like this to a First Nations person
34 asking how they may sample because they're
35 concerned about the health of their wild salmon?

36 MR. STEPHEN: Well, I can't speak to that. I do say --
37 see that they're providing information based on
38 the published documents and news releases and
39 things. But as I said, we -- nobody's contacted
40 me to indicate somebody was interested in doing
41 this --

42 Q And would there --

43 MR. STEPHEN: -- from a First Nations perspective.

44 Q Sorry. Would that be a proper channel, would be
45 to inform you to let you know that people are
46 curious about sampling and then you'd forward them
47 further information from the functional plan as to

1 how they might do that?

2 MR. STEPHEN: Well, obviously the surveillance plan is
3 -- if we talk about the current surveillance plan,
4 which I guess this is what is implied here that
5 want to contribute to possibly something in the
6 near future, it would be CFIA taking the lead in
7 that. I did mention that Dr. Stewart Johnson has
8 been providing CFIA with feedback on surveillance
9 plan. The functional plan is still in draft and
10 that's apart from their surveillance plan, but
11 again, we haven't -- I haven't seen this. I'm not
12 sure if anybody from my -- our program has seen
13 this request.

14 MS. PENCE: If I could just have that marked for
15 identification then, please? I have just a couple
16 minutes left so I'm going to fast-forward --
17 sorry, can I have the letter for ID?

18 MS. PANCHUK: Doc for ID VVV.

19
20 EXHIBIT VVV FOR IDENTIFICATION: Email chain

21
22 MS. PENCE:

23 Q If I could please have First Nations document
24 number 12 put on screen? Dr. Klotins, do you
25 recognize this as being a paper prepared by the
26 Assembly of First Nations commenting on the
27 National Aquatic Animal Health program?

28 DR. KLOTINS: I know there was a document prepared but
29 I haven't seen the document. Like I haven't
30 reviewed the document or looked at it, but I
31 believe this is it.

32 MS. PENCE: Can I please have this marked as the next
33 exhibit?

34 MS. PANCHUK: 2139.

35
36 EXHIBIT 2139: Assembly of First Nations
37 First Nations Perspectives: Review of
38 National Aquatic Animal Health Program

39
40 MS. PENCE:

41 Q Dr. Klotins, you spoke on Friday about the concept
42 of compensation if fish were hurt because of
43 sampling and disease found, how would that concept
44 of compensation fit in First Nations context when
45 they're using fish not only for economic purposes
46 but for food, social and ceremonial purposes? How
47 does -- how does compensation work there?

1 DR. KLOTINS: I can't answer in specifics. We would
2 need to discuss with them what they -- what
3 actually -- what the situation is, whether we
4 would -- it's -- we pay the owner of the fish. So
5 if they happen to be the owner, then there is that
6 possibility. If they're not the owner, government
7 does not pay government for compensation.

8 Q If we could just scroll to page 3 of this and then
9 I will sit down. Sorry, page zero. Just behind
10 the cover page there. If we just scroll up a
11 little bit -- I'm sorry, Mr. Lunn, the bottom
12 paragraph. I'm jumping around there.

13 Do you see that the AFN did bring it to the
14 attention that NAAHP should prepare compensation
15 strategies for situations where First Nations
16 access to fish is lost? Is that something that
17 you will take more consideration into, given these
18 comments from the AFN?

19 DR. KLOTINS: Yes, we will. In terms of access to fish
20 is lost, we have also mentioned in the functional
21 plan that no disease response that involves
22 eradication or destruction of fish will be done
23 without -- well, without discussion or with the
24 governments that are -- have jurisdiction over the
25 fish.

26 Q Including First Nations governments?

27 DR. KLOTINS: Yes, if --

28 MS. PENCE: Thank you. I'm out of time. Those are my
29 questions.

30 DR. KLOTINS: Okay.

31 MR. MARTLAND: Mr. Commissioner, next we have counsel
32 for the Sto:lo and Cheam with 15 minutes.

33 MS. SCHABUS: Mr. Commissioner, Nicole Schabus for
34 Sto:lo Tribal Council and the Cheam Indian Band.

35

36 CROSS-EXAMINATION BY MS. SCHABUS:

37

38 Q Panellists, I represent, as I said, the Sto:lo
39 Tribal Council and the Cheam Indian Band and both
40 Cultus Lake and the Harrison River are in Sto:lo
41 territory, which covers much of the Lower Fraser
42 and its tributaries in the area.

43 I hope you are all aware -- and can you all
44 confirm that you are aware that the Cultus Lake
45 sockeye salmon is endangered?

46 MR. STEPHEN: I'm not a specialist on West Coast
47 salmon. I grew up on the East Coast, so I can't.

1 DR. KLOTINS: I can't comment on that.
2 DR. WRIGHT: No, I can't comment either.
3 Q Dr. Jones, I hope you can.
4 DR. JONES: Yes, I am aware of that.
5 Q And you're also -- you might want to stay close to
6 that mike because I'm going to have to ask you a
7 few questions. Or whichever mike works. I
8 don't --
9 DR. JONES: Okay.
10 Q Okay. Let's just leave it on. You're aware that
11 there has been a significant effort and investment
12 in restoring and rebuilding Cultus sockeye stocks?
13 DR. JONES: Yes, I am.
14 Q And throughout the last decade and leading up to
15 that, correct?
16 DR. JONES: Mm-hmm.
17 Q And you're aware that DFO partially funds some
18 projects like the DFO project for survival of
19 Cultus Lake sockeye?
20 DR. JONES: In general I'm aware of that. Not the
21 specifics.
22 Q And you're also aware that the Soowahlie First
23 Nation and the Sto:lo people are partners in this
24 project and have been very actively collaborating
25 in it.
26 DR. JONES: I wasn't aware of the specifics, but I have
27 no reason to doubt that.
28 Q But you're aware that there is strong First
29 Nations collaboration on this project on the
30 ground, correct?
31 DR. JONES: Yes.
32 Q I take your nodding to be a "yes". And you're
33 also aware that the DFO project includes
34 assessment of fry, smolt and adult populations and
35 their spawning behaviour?
36 DR. JONES: Again, I'm not aware of the specifics, but
37 I take your word for it.
38 Q But you were the supervisor overseeing Dr. Molly
39 Kibenge's work, right?
40 DR. JONES: That's correct.
41 Q And in order to access samples, and I understand
42 the samples that were accessed were spawning
43 Cultus Lake sockeye?
44 DR. JONES: That's correct.
45 Q So in order to access those, you have to work with
46 DFO and the First Nations staff on the ground to
47 be able to access them, right?

1 DR. JONES: Almost certainly we did.
2 Q Okay. And so you collect -- you have those
3 samples collected, but you never -- you're not
4 aware of -- you didn't and you're not aware of
5 anybody else in DFO advising Soowahlie or the
6 Sto:lo of positive findings of ISA virus in 2002,
7 2003 in Cultus sockeye or since.
8 DR. JONES: That's correct. We did not do that.
9 Q You also never notified the DFO Cultus Sockeye
10 Recovery Team?
11 DR. JONES: Not based on the findings that we obtained,
12 no.
13 Q Although their DFO project includes considering
14 disease as a factor in the decline of the Fraser
15 River -- of the Cultus Lake sockeye salmon?
16 DR. JONES: I'm very much aware of that program and we
17 saw no evidence of disease and for that reason
18 there was no reason to report.
19 Q Okay. We don't have to go over the semantics of
20 it, but we've already discussed that there has
21 been a positive finding that happened at your
22 station and -- at Pacific Biological Station,
23 correct?
24 DR. JONES: Well, I think it is important to go over
25 the semantics, because we -- I -- we demonstrated
26 that the -- in very high likelihood the positive
27 PCR result was a false positive.
28 Q Well, did Pacific Biological Station do any of
29 that?
30 DR. JONES: Yes, they did.
31 Q They did the sampling on it? They actually did
32 sampling that found the positives, right?
33 DR. JONES: We did the analysis on the samples.
34 Q That found the positives?
35 DR. JONES: In which the PCR samples were positive,
36 that's correct.
37 Q Okay. And you did not notify the Cultus Recovery
38 Team of that, although you were aware that they
39 were considering disease as a factor in the
40 decline of the Cultus Lake sockeye?
41 DR. JONES: Well, I think it's very important that we
42 distinguish between what we found and disease. We
43 found a PCR positive result. On further
44 examination of those positive results we
45 determined through sequence analysis that they
46 were not true positive results and we saw no
47 evidence of disease that was consistent with ISA

1 virus.
2 Q We've all agreed that in light of the findings in
3 2002 and 2003 and the findings that we're having
4 now, that it is very important to conduct further
5 research, right?
6 DR. JONES: Based on what we know now, I think that's a
7 very -- that's a very important thing to do.
8 Q And so at the time you did not advise them of any
9 of those positives, right?
10 DR. JONES: That's correct.
11 Q And one of the things that you told us is -- in
12 your testimony now is you said you would like to
13 have seen some further research on what was going
14 on with the different assays for ISA virus in the
15 salmon that were sampled in 2002 and 2003?
16 DR. JONES: Well, it was actually samples we analysed
17 in 2003 and 2004 but, yes, I think based on what
18 we know now, there's a very good reason and a
19 highly compelling reason to explore exactly what
20 these tests were finding. Was it a deficiency of
21 the diagnostic test? Or were the diagnostic tests
22 that were applied, were they finding something
23 that was ISA-like? We simply don't know. For
24 those reasons, I think it's important to pursue
25 this.
26 Q You're trying to pull this into today, but I want
27 to stay with then.
28 DR. JONES: Mm-hmm. Okay.
29 Q And you were saying you were a little bit
30 disappointed that none of this happened because
31 this is exactly what you would have liked to have
32 seen happening then, right?
33 DR. JONES: I --
34 Q You were saying you would have liked to see your
35 collaborators look into what was going on with the
36 different assays at the time, right?
37 DR. JONES: Had Dr. Molly Kibenge stayed in the lab,
38 this would have been an important part of the
39 further research she would have conducted, is
40 trying to understand why when we send samples to
41 another laboratory that they come back negative,
42 why is that? It would be a very important part of
43 the research, to explore the inconsistencies in
44 the tests that we were using.
45 Q But -- sorry, I don't want to cut you off, but
46 also, there were positives that were found at your
47 lab, right?

1 DR. JONES: We did find positives at our lab.
2 Q Now, you never provided such a recommendation at
3 the time?
4 DR. JONES: Well, we didn't stop there. After we found
5 those positives, we conducted further
6 investigations and determined, based on those
7 further investigations, that there was a high
8 degree of unreliability in the positives that we
9 found.
10 Q But already then you saw an issue with the
11 different assays with the different results coming
12 back from different labs.
13 DR. JONES: Mm-hmm.
14 Q And you were suggesting that one of the things
15 that you would have liked all the collaborators to
16 do - and that actually includes you, Dr. Garver,
17 who was one of the co-authors of the paper, and
18 the two Kibenges, to actually look into what's
19 going on with the assays because there could be an
20 issue there, right?
21 DR. JONES: Well, Dr. Garth Traxler was one of the
22 court-authors of the paper.
23 Q Oh, sorry. Wrong Garth.
24 DR. JONES: Yeah.
25 Q Sorry. But anyways, that's -- you were suggesting
26 that is something you would have liked to have
27 seen, right?
28 DR. JONES: As a scientist, I think that's very
29 important, yeah. I do.
30 Q And as a scientist, you never made that
31 recommendation at that time?
32 DR. JONES: We did discuss that, but I can't -- well, I
33 have no reason to question what Garth Traxler and
34 the other members of the virology program decided
35 to do.
36 Q But you didn't follow up on it.
37 DR. JONES: I didn't personally, no.
38 Q You're also aware of teams and scientists working
39 on specifically Cultus Lake sockeye, correct?
40 DR. JONES: That's correct.
41 Q And you never contacted them about the finding at
42 the time?
43 DR. JONES: No. Because, as I said, there was no
44 reason to contact. There was no evidence of
45 disease or no evidence that this should be
46 something worthwhile or following up on --
47 Q Well, how about contacting them to get some more

1 samples and do some more testing in good
2 scientific tradition to make sure and follow a
3 precautionary approach?

4 DR. JONES: Well, that's a possibility. We didn't
5 explore that.

6 Q You didn't explore that. So you did not get any
7 more samples or do ISAV-related research and work
8 following up from 2003/2004 you're telling me,
9 until today?

10 DR. JONES: No, not since 2004.

11 Q Okay. I suggest you leave your mike on, but I'm
12 -- I'm going to open it more to the other
13 panellists because we're fast-forwarding now nine
14 to seven years from the Cultus findings and I'm
15 suggesting an opportunity missed to work on proper
16 testing and doing more research over a period of
17 this time that -- to this period now, where we
18 have positive samples from the Harrison River,
19 again in Sto:lo territory and testing, positive
20 testing, for ISAV from two very prestigious labs
21 specialized in the field.

22 Again, you did not notify the Sto:lo people
23 or the Sto:lo Tribal Council of the findings? I'm
24 opening this to the panel.

25 MR. STEPHEN: I'd like to repeat that again, we don't
26 report presumptive or unconfirmed results. We
27 have to follow up. We've followed up on every
28 case so far outside of Dr. Miller's most recent
29 results. We've investigated each set of results
30 that have been brought to our attention or CFIA's
31 attention and until we can actually confirm that
32 ISA exists, there's nothing to report.

33 Q Well, I'd like to open up the picture a little bit
34 bigger. We are talking about fisheries management
35 generally within this commission. This is a
36 specific issue. But we've had a lot of debate
37 about involving First Nations in decision-making
38 and obviously there have been a lot of decisions
39 that have been taken over the last two, three
40 months regarding this issue that is directly
41 connected to Sto:lo territory, yet none of you and
42 none of your higher-ups or the decision-makers in
43 the field has contacted the Sto:lo people in whose
44 territory these findings have been made to inform
45 them about the findings that have been made so far
46 or to involve them in the decision-making that
47 followed, correct?

1 DR. KLOTINS: We have not involved the Sto:lo Nation.
2 We didn't realize there was an agreement to do so.
3 Q Or an obligation? I'm not suggesting there's an
4 agreement. I'm suggesting there's an obligation
5 to involve them and to share information with them
6 so you can have informed decision-making.
7 DR. KLOTINS: Well, now that we know and, in fact, one
8 of the activities that we're going to do with the
9 functional plan and with disease response plans,
10 is start to form agreements on -- with partners
11 and industry that need to be part of the disease
12 response on the roles and responsibilities.
13 Q And you'd agree that the respective First Nations
14 people in whose territory there have been some
15 positive samples -- findings and generally in
16 whose territory you are suggesting to do more
17 research, including Weaver Creek, should be
18 involved in this planning and decision-making?
19 DR. KLOTINS: Yes. Well, in terms of the surveillance,
20 they will be, and we'll be engaging First Nations
21 more and more in our program.
22 Q You haven't talked to them about that yet though
23 at all?
24 DR. KLOTINS: About the surveillance?
25 Q Yeah.
26 DR. KLOTINS: No. We're doing the initial plan, so we
27 have something to bring out to people that need to
28 know and then they'll comment on that.
29 Q A good start would also be to let them know as the
30 research is happening about what's going on, but
31 you haven't done any of that to date, correct?
32 DR. KLOTINS: No.
33 Q Okay. Now, I'm going to stay with you for a
34 moment. In October 2011 I'm going to just deal
35 with the Harrison samples. Your office, CFIA,
36 asked where and why the fish were collected,
37 correct?
38 DR. KLOTINS: Sorry?
39 Q In October 2011 when it came to the Harrison
40 samples --
41 DR. KLOTINS: Mm-hmm?
42 Q You sent a request out asking where and why the
43 fish were collected to the person who had
44 collected the samples, correct?
45 DR. KLOTINS: Yes, to Alexandra Morton.
46 Q And Dr. Morton told you that she had been
47 contacted by people who were concerned about many

1 dead salmon floating in the Harrison River in
2 Sto:lo territory drifting down the Harrison and
3 that the samples were collected between Harrison
4 Mill and Weaver Creek, correct?
5 DR. KLOTINS: Actually, we got no response back on
6 that, no directly -- direct response back on that.
7 But unless you -- we have that email, there was
8 one email.
9 Q I think there's a letter dated October --
10 DR. KLOTINS: Okay.
11 Q -- 28th, 2011 that would be on file --
12 DR. KLOTINS: Okay.
13 Q -- regarding that. But you've confirmed where the
14 samples came from, right?
15 DR. KLOTINS: If that -- if she indicated that in the
16 letter, then it was there.
17 Q And you're aware that there was a concern about
18 many dead salmon floating down the Harrison River
19 at the time and that's why the samples were
20 collected, right?
21 DR. KLOTINS: That's what they indicated, yes.
22 Q Now, that issue of the fish floating down the
23 Harrison River and into the Fraser was actually
24 also brought up at the Cohen hearings and I'm
25 going to put this question more to the DFO
26 witnesses because there was some finger-pointing
27 going on at the time regarding our clients, but I
28 take it DFO never advised that there is an
29 alternative fish health related explanation to
30 those floating fish? Are you aware of that, DFO
31 advising that there is an alternative fish health
32 related explanation regarding the floating fish
33 and you investigating that?
34 DR. JONES: No, I'm not aware of any dialogue on that
35 issue.
36 Q But that is something you're considering now,
37 right?
38 DR. JONES: Well, no, I'm not involved in that
39 decision-making process but this is perhaps --
40 would not be an unexpected --
41 Q Okay.
42 DR. JONES: -- step forward.
43 Q Now, you've heard that First Nations are concerned
44 and they want to collect samples and have them
45 properly -- have them properly tested, yet DFO to
46 date has not encouraged such sample collection,
47 correct? And as we saw in the email that was just

1 marked for identification has been kind of using
2 the media lines to downplay the crisis and say
3 well, at this stage we're not...

4 MR. STEPHEN: I'd like to speak to that. I don't know
5 why people are calling it a crisis. As I've
6 repeated multiple times in the last day and a half
7 that we have not confirmed in any way, shape or
8 form that ISA is actually in B.C. yet. There are
9 presumptive positives, there are suspect positives
10 of results from a number of different
11 laboratories, but we have not been able to
12 confirm, to provide enough information for CFIA to
13 render a decision that ISA is in B.C.

14 Q But -- sorry.

15 MR. STEPHEN: So calling everything positive samples, I
16 think the better approach is to call them
17 presumptive positives because we cannot confirm
18 any of those. We have not been able to confirm
19 any of those results yet.

20 Q But in order to actually get to the bottom of
21 issues, it would be nice to collect some more
22 samples and have First Nations involvement in it,
23 since they are the people on the ground, correct?

24 DR. KLOTINS: Well, that's one avenue to explore. The
25 other avenue is you can actually do more, perhaps
26 more work on the actual assays themselves in the
27 laboratory setting and identify why you're picking
28 up -- why we're getting these positive hits.

29 Q And my last question and I'm -- I would be ready
30 if Mr. Lunn was, I have one last exhibit. If you
31 could bring up Exhibit 2065 and I think, Dr.
32 Jones, you'll be able to help me identify that.
33 That's the suggested survey and research plan that
34 you've been working on or discussing at PBS? If
35 you need to see the cover email, I can bring it
36 up. You were copied on it and it was to follow up
37 on previous conversations.

38 Mr. Lunn, just to refresh the witnesses'
39 memory, if you could bring up 2064, the previous
40 exhibit. You can see yourself copied on that
41 email and you've reviewed that before?

42 DR. JONES: Yes, I recognize the document. It was sent
43 to me and I think I received it -- well --

44 Q Are you aware --

45 DR. JONES: -- on the 8th.

46 Q Sorry. Are you aware, going to the exhibit, of
47 First Nations being consulted whether they feel

1 that the hypothesis for the survey and the
2 research are properly stated?

3 DR. JONES: Which specific hypothesis are you referring
4 to?

5 Q Let's look at the very -- at the very top. There
6 is a number of them listed there.

7
8 To confirm that ISA virus is not present in
9 B.C. waters.

10
11 To confirm that IPNV is not present in B.C.
12 waters.

13
14 And:

15
16 To obtain additional information on the
17 prevalence and distribution of IHNV in
18 populations of B.C. wild salmon.

19
20 So I'm going to put an issue to you that I'm
21 seeing there. Obviously those hypotheses are
22 differently phrased. One that kind of infers a
23 conclusion that while we know that your PBS has
24 had confirmed IHNV, you are suggesting that the
25 others are not present. But how could you ever
26 test for that?

27 DR. JONES: Well, I disagree with your assertion that
28 by stating an objective is to confirm that
29 something is not present would be the right way to
30 state that, because all you need to do is detect
31 and confirm the presence once and you've answered
32 that question.

33 Q Okay. So why are you stating the two differently,
34 the research hypothesis for ISAV versus IHNV?

35 DR. JONES: Well, because we know IHNV is an endemic
36 pathogen in British Columbia waters and the role
37 of this exercise perhaps is to provide more
38 information on exactly how this pathogen is
39 distributed in the province.

40 Q And so just to close and to confirm, you have not
41 discussed these research hypotheses with First
42 Nations and you have not involved them in the
43 contingency planning, correct?

44 DR. JONES: I --

45 Q Research and contingency planning.

46 DR. JONES: I received this document. I have not been
47 involved in its development. But I am aware of

1 the document.

2 MS. SCHABUS: Thank you. Those are my questions.

3 THE COMMISSIONER: Thank you. Mr. Commissioner, next
4 we have counsel for the MTTC with ten minutes.

5 MS. ROBERTSON: Krista Robertson for the Musgamagw
6 Tsawataineuk Tribal Council.

7

8 CROSS-EXAMINATION BY MS. ROBERTSON:

9

10 Q So I have three sort of themes of questionings,
11 starting with you, Dr. Klotins. And this is just
12 a really follow-up further on the questions from
13 my friend, Ms. Pence.

14 I take it then that when CFIA receives notice
15 of a suspected disease there's no policy to notify
16 First Nations whose fishing rights might be
17 affected now? At this time there's no policy, but
18 there's an interest in developing one; is that
19 what I heard you say?

20 DR. KLOTINS: Well, there is some notification of
21 suspect to provincial governments and to the
22 Canadian Council of Aquaculture and Fisheries
23 ministers. If that requires to be expanded, then
24 we need to know about that.

25 Q So if it -- if your notification obligations need
26 to be expanded, then you would be waiting for
27 another agency to advise you of that?

28 DR. KLOTINS: Well, no. If we need to -- if First
29 Nations are owners of these animals and they have
30 jurisdiction over what happens with them, then we
31 need to include them.

32 Q But presently there's no process or policy to do
33 that?

34 DR. KLOTINS: No.

35 Q And when we're talking about -- to clarify, when
36 we're talking about ownership, what I'm talking
37 about is a First Nations who asserts a fishing
38 right --

39 DR. KLOTINS: Mm-hmm.

40 Q -- a proprietary right --

41 DR. KLOTINS: Mm-hmm.

42 Q -- over a particular stock --

43 DR. KLOTINS: Mm-hmm.

44 Q -- is that what you understand me to be asking?

45 DR. KLOTINS: I guess I need clarification on that, but
46 we were going to work that through the disease
47 response emergency plans that we develop with

1 provinces and other stakeholders who need to be
2 involved in disease response.

3 Q Right.

4 DR. KLOTINS: But if we -- and usually that includes
5 the communication pathway there and we have not
6 yet engaged in discussion with First Nations.
7 We're putting that plan together. We've just
8 identified at least all the tribes or tribal
9 councils that will be involved and information
10 will be hopefully going out in the New Year.

11 Q Okay. So that would include, for example, having
12 some kind of mapping system so that you knew which
13 First Nations to communicate with. So, for
14 example, with the Dr. Routledge samples, that was
15 the Wiekanu (phonetic) First Nations territory.

16 DR. KLOTINS: Yeah.

17 Q So did you have any communication with the Wiekanu
18 or any kind of ability to even know which First
19 Nations you should be working with?

20 DR. KLOTINS: No, not at that time. But since then
21 we've been working with INAC to get a list of all
22 the tribes and they will be receiving information
23 and we'll be asking them if they're interested in
24 the NAAHP program and working with the CFIA.

25 Q All right. Mr. Stephen, now you've spoken a lot
26 today about this not notifying the public when
27 there's preliminary results. Would you be
28 prepared to enter into a protocol with First
29 Nations to notify, for instance, my clients, who
30 are residing in the Broughton Archipelago, where
31 there's approximately 30 salmon farms in their
32 territory. If they asked for that, would you be
33 prepared to enter into a protocol with them so
34 that they were given early notification about a
35 preliminary finding, as my friend, Ms. Schabus,
36 says, towards kind of sharing in the management
37 decisions and the responses?

38 MR. STEPHEN: I'd certainly be willing to have a
39 discussion with CFIA because they are the ones who
40 do the notification. DFO doesn't notify under the
41 National Aquatic Animal Health Program. It's CFIA
42 who does the communication and lead on the
43 investigations of any suspect cases.

44 Q Right. But DFO would become aware, either through
45 your labs doing testing -- I mean, there's many
46 ways that DFO would need to be in the loop when a
47 notification like that happens and DFO is dealing

1 quite regularly with First Nations on fisheries
2 management issues?

3 MR. STEPHEN: Yes, which is why in consultation with
4 CFIA on their proposed surveillance plan, I've
5 asked Dr. Stewart Johnson to engage our aboriginal
6 policy group and aboriginal fisheries groups to
7 provide input into CFIA with respect to
8 surveillance and other things.

9 Q All right. Thank you. Mr. Lunn, could we have
10 Exhibit 2139, please? This question is for you,
11 Dr. Klotins. If we could go to PDF page 5,
12 please. And just scroll a little further down to
13 the bottom. And I'm looking at the second bullet
14 there under "Suggestions". The bottom -- at the
15 -- okay. We can read it. It's the second bullet
16 down there:

17
18 CFIA should provide a list of all certified
19 labs in the country for circulation to all
20 First Nations communities engaged in fishing
21 activities.
22

23 So we've looked at this document. Ms. Pence put
24 it to you. So this is recommendations from the
25 Assembly of First Nations around the plan. Now,
26 what the question is is we've talked quite a bit
27 about the chain of custody concerns. I take it
28 that this recommendation is to enable First
29 Nations to have access to know which labs to go to
30 if they want to have testing. So considering, and
31 as Ms. Schabus says, First Nations are out there,
32 they're on the water, they have traditional
33 knowledge of the fishery, is CFIA going to raise
34 this chain of custody concern if First Nations are
35 bringing samples? And how would you -- how would
36 you suggest we get around that then, such that
37 First Nations do have access to labs where they
38 can have their fish tested when they have concerns
39 and the results will be recognized by CFIA and
40 DFO?

41 DR. KLOTINS: If this is -- if this is important to the
42 First Nations we'll be sharing information with
43 and they're interested, then we can develop a
44 program that that oversight could be provided.
45 Usually, though, it is CFIA that sends samples
46 into our certified laboratories, so it may be that
47 instead of going directly to the laboratory they

1 may be dealing with the inspectors first out in
2 the region and coming up with a plan and engaging
3 in sending it in.

4 Q The First Nations may be dealing with the CFIA
5 inspectors?

6 DR. KLOTINS: Yeah. We have field staff, so I belong
7 to programs and design the program and report on
8 its performance and it gets implemented by our
9 operational staff out in the areas.

10 Q So that would be their first point of contact, not
11 DFO? It should be CFIA in your view?

12 DR. KLOTINS: For our regulated diseases, yes.

13 Q All right. Thank you. So moving on to another
14 theme, Mr. Stephen, in the aquaculture hearings
15 and then just last week we've heard evidence that
16 in respect of DFO's audit program for salmon
17 farms, the testing agency that DFO uses is the
18 B.C. Fish Health Lab; do you understand that to be
19 correct?

20 MR. STEPHEN: That's what I understand but I am not
21 involved in that program.

22 Q Okay. Well, I put it to you that's the evidence.
23 Mr. Lunn, if we could call up Exhibit 2120,
24 please? No, that's not -- yeah, that's... Okay.
25 What I was looking for was the OIE process for the
26 validation. That's the document that I was hoping
27 would be there. No, but I'll just describe what I
28 have here. It's the -- I'm sure you're familiar
29 with it. It's the validation pathway for the
30 NAAHLS diagnostic test methods for ISA.

31 MR. MARTLAND: Exhibit 2000 is our note.

32 MS. ROBERTSON:

33 Q Oh, Exhibit 2000. Thank you. And what this
34 document -- there it is. Thank you. This
35 document then is -- and when you go through the
36 document - we won't do that - but it lists -- the
37 process that the Moncton lab has gone through to
38 be validated by the OIE procedures with respect to
39 the ISAV testing. And you've stated in your
40 evidence earlier that with respect to Dr. Miller's
41 testing, part of the reason your office had
42 difficulty recognizing that is because they're
43 outside -- the test -- the assay she used was
44 outside that validation process; is that correct?

45 MR. STEPHEN: I think it would be better for Dr. Wright
46 - he's our national lab manager - to answer any
47 questions around the validation pathway and

1 testing.

2 Q Dr. Wright, is that -- do you agree that that was
3 one of the reasons, one of the concerns, as to why
4 Dr. Miller's results are being questioned? They
5 weren't -- they didn't follow that validation
6 pathway?

7 DR. WRIGHT: In order to be considered as part of any
8 diagnostic regime, any tests that are going to be
9 used will have to be validated according to that
10 pathway. That is the recommendation from the OIE.
11 This is where you get your Stage 1 analytical
12 validation, your Stage 2 diagnostic validation.
13 This is a test that she's put together very
14 recently. I would certainly encourage her that if
15 she's considering that it should be considered as
16 any part of a diagnostic routine, that she needs
17 to follow this pathway. Otherwise, we have no
18 information on which to determine whether or not
19 it's validated as fit for purpose according to the
20 OIE guidelines.

21 Q But the B.C. lab, the assay that they use, isn't
22 validated either, is it?

23 DR. WRIGHT: No. But we're encouraging anybody - and
24 I'm speaking from the OIE perspective - that they
25 should, whether they can populate that -- I mean,
26 this is a template and it could very well be that
27 they have that validation data in bits and pieces
28 that need to be fed into that template so you can
29 actually see the flow. Whether they've done it or
30 not, I don't know. But we certainly encourage
31 people to do it.

32 Q But you're not --

33 DR. WRIGHT: So it is one way and that when anybody
34 comes in with questions whether it's a trading
35 partner audit or whether it's a quality audit,
36 that you have all of your evidence in one place
37 and every year, because it's a quality document,
38 it should be reviewed and updated because it's an
39 ongoing process. And you'll be able to add more
40 validation data to it on a year-to-year basis or
41 more frequently if you want.

42 So it becomes a living document but at least
43 for the analytical bits and pieces and the
44 diagnostic bits and pieces, if there's a new
45 strain that comes up, the expectation is you will
46 enter that data to show that you can detect that
47 strain. But you have to start somewhere and

- 1 especially with new tests, I mean, there are many
2 tests out there in the world, whether terrestrial
3 or aquatic, where you will not find this dossier
4 because many of them have been grandfathered in.
5 They've been used for the last six or seven years.
- 6 Q So does this mean --
- 7 DR. WRIGHT: But if they're ever challenged they should
8 be able to come up with those criteria and have
9 them fulfilled in that type of pathway.
- 10 Q So are you concerned that at the moment, the lab
11 that DFO relies on to test its auditing samples
12 from the salmon farms, hasn't been validated in
13 that manner?
- 14 MS. CALLAN: I'm just going to step in. This is Tara
15 Callan appearing on behalf of Her Majesty The
16 Queen in Right of the Province of British
17 Columbia. As far as I understand, I think this
18 question is misleading in the sense that there is
19 no evidence that it's not validated. On the
20 contrary, it has been validated.
- 21 MS. ROBERTSON: Could you, Ms. Callan, point to the
22 evidence where it has been validated?
- 23 MS. CALLAN: Well, there was the document that talked
24 about the primers and the validation that
25 occurred. I believe it's provincial tab 10. And
26 also, there are no provincial witnesses on the
27 panel, but suggesting that it's not validated
28 without the proper evidentiary basis in the
29 Province's submission, is incorrect.
- 30 MS. ROBERTSON: What I heard yesterday is, in fact, Dr.
31 Kibenge and Dr. Nylund both are -- or, pardon me,
32 last week, both indicated that they'd never heard
33 of the test. So I'm going to just move on because
34 I'm running out of time here and I have one
35 question left.
- 36 Dr. Klotins, I understand the mandate of CFIA
37 to be to protect animal species from disease while
38 at the same time protecting the trade interests of
39 companies operating in Canada; is that correct?
- 40 DR. KLOTINS: It's actually to facilitate safe trade of
41 aquatic animals. It's not to protect the
42 interests, but it's to facilitate safe trade by
43 working on negotiations for technical market
44 access.
- 45 Q Safe trade. But is it also part of the mandate of
46 the CFIA to ensure that trade is -- trade
47 interests of Canadian companies or companies

- 1 operating in Canada such as Norwegian fish farm
2 companies, are not harmed by any kind of finding
3 or allegation of disease?
- 4 DR. KLOTINS: It's -- it's not the viewpoint of them
5 being harmed. It's to basically negotiate
6 technical access, technical market access for
7 aquatic animal health. So if, let's say, we do
8 find ISA in B.C. and all of a sudden markets are
9 closed, our role is then to try to renegotiate or
10 negotiate market access to those countries. Now,
11 what it will be is a matter of they'll let us know
12 what the requirements are. We'll let them know
13 what we can do and whether we can meet that market
14 access. If we can't meet it, then there will be
15 no trade basically.
- 16 MR. STEPHEN: If I could add, there's been a continuing
17 theme that there's an appearance at the National
18 Aquatic Animal Health Program it's only for
19 aquaculture. In fact, the activities that CFIA
20 engages in in discussions with foreign countries
21 to deal with trade issues can protect wild
22 Dungeness crab, wild lobster, shellfish in B.C.
23 It's not just for -- and wild salmon in B.C. It's
24 not just for aquaculture. This program is for all
25 fish in Canada.
- 26 Q So you don't see any conflict between a mandate to
27 protect trade on one hand and to protect animal
28 species on the other? You don't see it that way?
- 29 DR. KLOTINS: Well, I would argue that it's not
30 protecting trade. It's facilitating trade. So we
31 do our best that we can negotiate market access,
32 as well, as long as we can meet the requirements
33 of the importing country.
- 34 MS. ROBERTSON: All right. Those are my questions.
35 I'm out of time. Thanks.
- 36 MR. MARTLAND: Mr. Commissioner, there's re-examination
37 by Canada and ourselves. I'm optimistic if the
38 witnesses are able to be as succinct as possible,
39 it's 4:17. We may yet complete this by 4:30.
40 Mr. Taylor?
- 41 MR. TAYLOR: Thank you. I have an estimate of about
42 ten minutes, Mr. Commissioner.
43 Exhibit 2126 is the call log that was raised
44 this morning where one of the boxes had missing
45 information from it. I believe Mr. Lunn now has a
46 cover email and there might be an attachment to
47 that, as well. I can't remember. When it comes

1 up, what it does is explain that no one can get
2 the full box pulled up from the computer to then
3 be relayed over here so they've got the text in
4 this email that should come up and my proposal is
5 that we make what I have provided an "A" exhibit,
6 so I would suggest 2126A, but first we need to see
7 it. This is the box that doesn't have all the
8 text, but you should have an email that explains
9 what we can't do and provides all the text. Maybe
10 we could put what you do have on the screen to one
11 side and put the email to the other. If you want,
12 I can come back to that, Mr. Lunn.

13 Excellent. We have a whole person's email
14 account now. Yeah. Are you able to show the
15 whole of the email? Yes. There we go. So the
16 bottom line is, as I say, we can't get that box up
17 on the computer but this is the text, what would
18 be in the box if it was there, and I propose that
19 this email be an "A" exhibit and I think Mr.
20 Martland's okay with that.

21 MR. MARTLAND: Yes.

22 MR. TAYLOR: So that would be Exhibit 2126A, that is
23 the email and I suppose since it seems to have
24 come all together, the attachment which I think is
25 the abbreviated box. Thank you.

26
27 EXHIBIT 2126A: Email from Geneva Grande-
28 McNeill dated December 19, 2011 and attached
29 text
30

31 CROSS-EXAMINATION BY MR. TAYLOR, continuing:
32

33 Q Now, Tab 18 of Canada's book of documents was the
34 2004 Molly Kibenge transcript. Dr. Jones, this is
35 a question of you. You were asked by I think it
36 was Mr. McDade about sockeye, specifically Cultus
37 Lake. It might have been Mr. Rosenbloom, but do
38 you remember those questions?

39 DR. JONES: Not specifically, no.

40 Q Okay. Well, let's see if I can refresh your
41 memory as we head into this. If we bring up the
42 2004 manuscript, and I'm sorry, Mr. Lunn, I've not
43 got on my piece of paper the exhibit number and
44 Mr. Martland's attention is on something else.
45 The 2004 transcript with the authors named.
46 Exhibit number...? I think you've got it. Page
47 11. Yes. Now, you remember this, Dr. Jones?

1 That's where sockeye is addressed?

2 DR. JONES: Yes, I do.

3 Q And then if we go along two pages, I think it is,
4 to a table on page 13, and if we can look at that,
5 I think it's coming right side up. Yes, thank
6 you. You'll see there sockeye which is the --
7 going down the columns, what is that, the fifth
8 line, I think. Am I right that sockeye is showing
9 negative for VI, negative for DE, wherever those
10 places are, and there's a positive indicator for
11 CL which is Cultus? Have I got that right?

12 DR. JONES: That's what that shows, yes.

13 Q Okay. Now, you referred in your answers to either
14 Mr. McDade or Mr. Rosenbloom to an email by Molly
15 Kibenge where she spoke about those results she
16 obtained pertaining to Cultus and if we could go,
17 Mr. Lunn, to the second document in Canada's Tab
18 18 which is an email.

19 MR. LUNN: I'm not sure I have that portion of Tab 18.

20 I'm sorry.

21 MR. TAYLOR: Oh, dear.

22 MR. LUNN: Yes. I apologize.

23 MR. TAYLOR: Well, what do you have at Tab 18?

24 MR. LUNN: I have the second version of this same paper
25 which I'm putting up now. These are the two
26 portions of Tab 18 that I have in front of me.

27 MR. TAYLOR: All right.

28 MR. LUNN: I understand you have it in hard copy.

29 MR. TAYLOR: Well, I think I'm going to have to come
30 back to it. Well, there won't be any coming back,
31 I guess, because it's the last session. What I'm
32 going to propose is I simply show a piece of
33 paper. In other words, use the old-fashioned
34 means to the witness and we'll go at it from
35 there. Any counsel want to see it can perhaps
36 gather round. I'm going to ask if I may, Mr.
37 Taylor, the other Mr. Taylor, to pass it to Dr.
38 Jones.

39 Q My question of you as it's coming over, Dr. Jones,
40 is whether you recognize that document.

41 DR. JONES: Yes, I recognize it.

42 Q Okay. Now I'm without it, so I'm going to have to
43 get you to help me. What's the date of it? Who
44 is it to and from?

45 DR. JONES: The date is March the 5th, 2004. It's from
46 Molly Kibenge and it's to myself.

47 Q All right. And it's quite short, so so that

1 everyone is clear, I think we'll need to get you
2 to read it into the record, since we can't bring
3 it up on the computer screen.

4 DR. JONES: [As read]:

5

6 Hi Simon,

7

8 Five out of six clones had got good
9 sequences. The sockeye clones do not
10 resemble any ISAV isolate. Only the primary
11 sequence is 100 percent ISA. Two clones from
12 Atlantic salmon heart are 98 and 92 percent,
13 identical to Canadian and European ISAV
14 isolates. I also rerun RT-PCR on the other
15 AS samples (spleen, kidney and liver). They
16 give one band product of 220, however the
17 control mix was positive too. The sockeye
18 clone sequences show homology to short
19 sequences of human, mouse, rat and zebrafish
20 clones. I will be up shortly with the
21 printout.

22

23 Q All right. Now, is that the email that you were
24 alluding to when you were answering other
25 counsel's questions earlier when you said that
26 Molly had written something or said something
27 about the Cultus Lake results?

28 DR. JONES: Yes, this is the email.

29 Q And that email is in relation to Cultus Lake, I
30 take it?

31 DR. JONES: That's right, yes.

32 Q And what do you draw from what's said in that
33 email?

34 DR. JONES: Well, what this email is telling me is that
35 the PCR results were evidently a false positive
36 result, based on the subsequent sequence analysis.
37 I also note that because the control mix was
38 positive too, that indicates that the apparent
39 findings from Atlantic salmon may have been the
40 result of some form of contamination. The reason
41 we run controls is to ensure that the test is
42 performing properly.

43 Q All right. Thank you. Now, you can just keep
44 that for now and we'll get it -- actually, I need
45 to mark that as an exhibit.

46 MR. TAYLOR: I'm in your hands, Mr. Martland, how we
47 actually mark paper as an exhibit.

1 MR. MARTLAND: My proposal would be to simply do so,
2 unless someone raises an objection to it.

3 MR. TAYLOR: All right.

4 MR. MARTLAND: It's email, like others we've had in.

5 MR. TAYLOR: All right. Perhaps the best thing is that
6 we mark it as an exhibit and immediately hand it
7 to Ms. Panchuk, so we don't lose it.

8 MR. MARTLAND: Sounds wise.

9 MR. TAYLOR: There is also some yellow and green on it,
10 which is nothing to do with the substance and that
11 was put on after the email was created. So Ms.
12 Panchuk has the exhibit, which is now number...?

13 MS. PANCHUK: 2140.

14 MR. TAYLOR: Thank you.

15

16 EXHIBIT 2140: Email from Molly Kibenge to
17 Dr. Jones dated March 5, 2004

18

19 MR. TAYLOR:

20 Q Now, Dr. Klotins, Mr. McDade asked some questions
21 about timelines and just to assist with timelines,
22 I'm going to ask if we may bring up in either
23 succession or together, commission tab 65, 66, 67.
24 And my question, Dr. Klotins, but if others on the
25 panel have something to chime in with, by all
26 means, but I think this is of Dr. Klotins when
27 they come up, if you recognize these documents
28 which should be two flow charts, time flow charts,
29 and then a work flow chart. I think this is 67,
30 is it? And here's 66, and 65 is going to pop up,
31 I suspect. There we go.

32 Dr. Klotins, okay, maybe without losing any
33 of them, are we able to look at all of 65 at once,
34 just so the witness can get her mind around it?
35 Do you recognize this, Dr. Klotins?

36 DR. KLOTINS: Yes, I do.

37 Q And what is this?

38 DR. KLOTINS: It was a timeline we put together on when
39 we understand -- when we were notified of the
40 suspect or preliminary ISAV positive findings by
41 Dr. Kibenge's lab and the information that we
42 gleaned from Dr. Kibenge and from others in terms
43 of when Dr. Kibenge notified the client first,
44 when we contacted Dr. Routledge, when we collected
45 the samples and --

46 Q Yes, all right. We don't need --

47 DR. KLOTINS: -- sent them to --

1 Q -- to go through each item but --

2 DR. KLOTINS: Okay.

3 Q -- that's what it is, it's a timeline of the
4 various events, is it?

5 DR. KLOTINS: Mm-hmm.

6 Q And just to assist you, this is in regard to the
7 Rivers Inlet samples, I take it, from the upper
8 right?

9 DR. KLOTINS: Yeah. Basically the samples that were
10 collected by SFU and UBC.

11 MR. TAYLOR: All right. Could that be the next
12 exhibit, please?

13 MS. PANCHUK: 2141.

14

15 EXHIBIT 2141: Timeline ISAV #1

16

17 MR. TAYLOR:

18 Q And then if we look at Tab 66 of the commission
19 binder and my question, as it's coming up, is this
20 the same kind of document but as regard the Weaver
21 Creek samples?

22 DR. KLOTINS: Yes, it is.

23 MR. TAYLOR: If that could be the next exhibit, please?

24 MS. PANCHUK: 2142.

25

26 EXHIBIT 2142: Timeline ISAV #2

27

28 MR. TAYLOR:

29 Q And then 67 is a slightly different document. It
30 appears to be a work flow chart as opposed to an
31 events flow chart, but you tell me. What is this?

32 DR. KLOTINS: It speaks more specifically to the sample
33 collections that we did for this investigation

34 Q All right. And you've --

35 MR. TAYLOR: May that be the next exhibit, please?

36 MS. PANCHUK: Twenty --

37 MR. HARRISON: Judah Harrison for the Conservation
38 Coalition. I'd just like to get clarification
39 from you what you are redirecting with respect to.
40 Thank you.

41 MR. TAYLOR: Mr. McDade was raising questions about
42 timelines and suggesting or had various
43 suggestions about what was happening when and
44 these are to assist with clarifying that and
45 they're documents raised more or less -- created
46 more or less contemporaneously.

47 MS. PANCHUK: 2144 (sic).

1 MR. TAYLOR: All right. Thank you.

2

3

EXHIBIT 2143: Work flow timeline

4

5 MR. TAYLOR:

6

Q Now, Dr. Klotins, for each of these documents, the
7 last three documents we've looked at, you've seen
8 them before and you're familiar with them, are
9 you?

10

DR. KLOTINS: Yes, I have.

11

Q And are they accurate to the best of your
12 knowledge?

12

DR. KLOTINS: To the best of my knowledge, but I didn't
13 review the final versions.

14

Q All right. Could we have commission tab 100,
15 which is the surveillance plan and the draft and
16 it's also got an exhibit number.

17

MR. MARTLAND: And I think we may need to assign
18 additional exhibit numbers to the two other
19 documents. Or is that a misunderstanding?

20

MR. TAYLOR: I thought we did.

21

MR. MARTLAND: Okay.

22

MS. PANCHUK: We did. Actually, the previous exhibit
23 should be 2143, not 2144.

24

MR. TAYLOR: I'm just going to try and run this by and
25 see if the record gets clear. Hopefully I will
26 achieve that.

27

Commission tab 67, I'm going to go backwards
28 because I have a short memory, commission tab 67
29 is 2143?

30

MS. PANCHUK: That's right.

31

MR. TAYLOR: Commission tab 66, 2142?

32

MS. PANCHUK: That's right.

33

MR. TAYLOR: Commission tab 65 is 2141.

34

MS. PANCHUK: That's right.

35

MR. TAYLOR: Thank you. Surveillance plan commission
36 tab 100, exhibit -- it's up here. I'm not sure
37 what exhibit it is.

38

MR. MARTLAND: 2112?

39

MR. TAYLOR: 2112. Thank you.

40

Q Mr. McDade was asking you about where samples were
41 taken from and focused on Weaver Creek and there's
42 a chart in here -- or were going to be taken from.
43 There's a chart in here, page 20, document page
44 20, I think, yeah. And if you look there under
45 sockeye, if we could see all of sockeye at the
46 bottom there, you'll see in the middle, Dr.

47

1 Klotins, Areas B and D, there's going to be
2 samples taken. Those are fishing areas in the
3 southern part of -- southern part of I think it's
4 Georgia Strait, perhaps the West Coast too, but
5 Georgia Strait and more specifically they're Mr.
6 Rosenbloom's clients. You're familiar with that?
7 DR. KLOTINS: Yes. The idea was to sample from various
8 harvest areas.
9 Q And that would be primarily Fraser River sockeye
10 then?
11 DR. KLOTINS: I believe that's correct.
12 Q And just to state the obvious, the plan is showing
13 that there would be 117 taken from each of B and
14 D; is that right?
15 DR. KLOTINS: That's currently what the plan says, yes.
16 Q Dr. Wright, Mr. Rosenbloom asked a question of you
17 if the government had a better case for the
18 negative than others do for the positive -- or he
19 asked Dr. Klotins, I think, and you seemed to be
20 trying to get a word in at that point but never
21 did. Did you have anything to say?
22 DR. WRIGHT: I probably did at the time.
23 Q All right.
24 DR. WRIGHT: I'm trying to remember the context of it
25 now.
26 MR. MARTLAND: And on the notion of getting a word in,
27 I'm mindful, Mr. Commissioner, we were looking to
28 ask some questions in re-examination, but we're
29 now past 4:30. I'm hoping Mr. Taylor is at the
30 end point of his questions.
31 MR. TAYLOR: All right. Okay. I'm going to -- I'm
32 going to move quick, I think.
33 Q Mr. Rosenbloom asked Dr. Jones why surveillance
34 wasn't indicated and you mentioned something about
35 getting samples from 2004 forward. Is there
36 anything more to say with regard to sampling for
37 -- checking for ISA or other pathogens from 2004
38 forward? What, in very brief, because Mr.
39 Martland needs time, if anything, has been done?
40 DR. JONES: My understanding is that since 2010 under
41 the PARR program that we've been conducting
42 surveillance of health in juvenile salmon in the
43 Strait of Georgia and that meant that we sampled
44 fish in 2010 and 2011 and some of those fish have
45 been tested for the presence of ISA virus.
46 Q All right. Last question and then a brief
47 comment. Surveillance plan, I'm just going to

1 note this for the commissioner, Dr. Klotins was
2 asked about it and said there might be something
3 in communications on consultation and I think if
4 you look at page 27 of 79 Sections 5.1 and 5.2,
5 you'll see consultation with a number of
6 stakeholders being proposed, in other words,
7 people outside of government but interested in the
8 matter, both in developing the plan and in the
9 results that would come out of the plan.

10 Someone, I think it was Ms. Pence, was
11 putting or trying to put in Tab 26 of her material
12 or our binder, I can't remember which. It's
13 become ID UUU. I have in the course of the last
14 hour been given information about that. I can
15 speak with Mr. Martland and Ms. Pence and see
16 where we go. That's probably best, rather than me
17 taking time right now, unless you want me to.

18 MR. MARTLAND: I'd prefer not obviously. My
19 suggestion, Mr. Commissioner, with respect to
20 these various lettered exhibits for
21 identification, commission counsel plan to set out
22 a process to participants tomorrow in a letter so
23 that we can collectively address that question
24 over exhibits for ID.

25 MR. TAYLOR: Yes. I don't think my answer will help
26 you with moving it from ID to an exhibit, but I
27 can give what information I have. That's fine.

28 MR. MARTLAND: Thank you.

29 MR. TAYLOR: Thank you, Mr. Commissioner.

30 MR. MARTLAND: Mr. Commissioner, I'm at your direction.
31 I had some questions I was looking to cover. I
32 appreciate we're also set to run till 4:30 and now
33 we're five minutes over. I can confine it to a
34 few quick points, if that's agreeable.

35 By way of quickly one additional point of
36 process exhibit for identification RRR was an
37 email that appended or included a Hansard excerpt.
38 I gather that's now been redacted out of the email
39 exchange and we'd be in a position to mark that as
40 an exhibit proper if that's agreeable. So seeing
41 no one rise, if I could ask for an exhibit number,
42 please?

43 MS. PANCHUK: 2144.

44
45 EXHIBIT 2144: Email from Kim Klotins to Fred
46 Kibenge dated October 20, 2011 formerly
47 marked RRR for identification

1 MR. MARTLAND: I'll try and keep this at -- as quickly
2 as I can.
3

4 RE-EXAMINATION BY MR. MARTLAND:
5

6 Q Mr. Stephen, let me pick up on some of the
7 evidence a moment ago we were just hearing about
8 had to do with testing that had gone on. Let me
9 ask you this question. Mr. Lunn, if you could
10 please bring up Tab 113 of commission's list of
11 documents. Earlier in your testimony, Mr.
12 Stephen, I think you made some reference to other
13 testing for ISAV in Pacific salmon, including ISAV
14 -- I'm sorry, including the PBS and involving Dr.
15 Kyle Garver. This document, I think, describes
16 really the import of Dr. Garver's testing on the
17 Strait of Georgia in 2010 and 2011 to the effect
18 that using Nellie Gagné's protocol as we
19 understand it, all the results were negative.
20 Does that accord with your understanding of the
21 testing work?

22 MR. STEPHEN: Yes, it does.

23 MR. MARTLAND: If this might become the next exhibit,
24 please.

25 MS. PANCHUK: 2145.
26

27 EXHIBIT 2145: Document outlining Kyle
28 Garver's testing in Strait of Georgia 2010
29 and 2011
30

31 MR. MARTLAND:

32 Q I have a question that I'd like to try to do in a
33 compressed way with any panel members, but in
34 particular Dr. Wright and Mr. Stephen. The
35 question has to do with what I would suggest may
36 be some distinction or gap between how the Rivers
37 Inlet fish that were sampled for ISAV, how those
38 test results are being characterized.

39 Let me look to start that first with Tab 15,
40 which is Exhibit 2039, if that could come up,
41 please, Mr. Lunn. And if we can zero in on the
42 first exchange, if you see Anne Veniot November
43 18, 2011 writing to Stewart Johnson, cc Peter
44 Wright and Nellie Gagné. It talks about:
45

46 Every sample has signs of degradation. If we
47 compare them all, kidney extracts showed less

1 degradation than the others. Unfortunately,
2 although less, it was still much more than
3 what allows conclusive testing.
4

5 If we now jump ahead to Exhibit 2032, Tab 126,
6 this is a transcript of a news briefing or press
7 briefing, Dr. Wright and Mr. Stephen, that you
8 were both part of that occurred on December the
9 2nd, I believe, page 5 on the PDF of this
10 document, we see reference -- I don't think I need
11 to take you to this passage, but there's reference
12 to some degradation but the tests are negative.

13 And again at page 9 there's a repetition of
14 that characterized as these being really
15 suggesting, I'll put to you, suggesting that
16 they're conclusive negative. How do you reconcile
17 inconclusive and what would seem to be a pretty
18 firm answer that this is a negative? Dr. Wright
19 and then Mr. Stephen, please.

20 DR. WRIGHT: Okay. Subsequent to that email, there was
21 discussions with Anne Veniot, who is the head of
22 section at GFC and she agreed that she had
23 answered too quickly and, in fact, based on the
24 testing that was done, although there was
25 degradation, it wasn't nearly as severe as the
26 original samples that we received. So, in
27 essence, what we're saying is the results for
28 those kidney extracts for the 48 of the original
29 are negative, negative analytically and we would
30 interpret them as negative diagnostically.

31 Q Mr. Lunn, one last test for you, sir. Tab 142,
32 Exhibit 2038, is a document I hadn't given you
33 notice about, but it's a document I'd like to
34 refer to. It's a summary really of the different
35 testing that had occurred and what I'd be asking
36 for is effectively a document that describes what
37 we understood Nellie Gagné's evidence to be.

38 If we have a look in the fourth column over
39 at the bottom in the greyed-in area at the bottom,
40 interpretation of DFO testing in relation to the
41 kidney column, we see inconclusive. That's what
42 we took Nellie Gagné to say as well. Do you have
43 a comment or response?

44 DR. WRIGHT: There are several versions of this one and
45 it was corrected for any discrepancies, but still
46 what I'm saying is the -- for those kidney
47 extracts that we received from PBS, although there

1 was some degradation, running the reference gene,
2 there was still genomic material in there and the
3 interpretation, as I have said before, for -- to
4 only those samples, would be that analytically
5 negative and diagnostically negative as an
6 interpretation.

7 Q Has it been recently changed?

8 DR. WRIGHT: Not recently, no.

9 Q Mr. Stephen, the last question I'll put to you is
10 simply the broad one. Does this amount to
11 rounding up to framing the results in a particular
12 way?

13 MR. STEPHEN: Well, obviously I'm not in the laboratory
14 and I rely on them to do the -- provide the
15 information. I know that the original table was
16 created in part by one of my staff and he sent it
17 to the region to get input. I do not believe it's
18 rounding up, but I'm just not sure if this is the
19 last version of the table or not.

20 MR. MARTLAND: Mr. Commissioner, I think I'm the victim
21 of my own time allocations process. Those
22 complete the questions I have and the evidence of
23 this panel. Thank you.

24 THE COMMISSIONER: Thank you very much, Mr. Martland.
25 To Dr. Wright, Mr. Stephen, Dr. Klotins and Dr.
26 Jones, thank you very much for participating both
27 yesterday and today on this panel. I'm grateful
28 for your attendance. I should say yesterday was
29 Sunday, I don't know what you were doing
30 yesterday, but Friday and today. Thank you very
31 much again for travelling to British Columbia to
32 participate in this panel and to Dr. Jones for
33 being here, as well. Thank you.

34
35 (PANEL NO. 67 EXCUSED)

36
37 THE COMMISSIONER: We're then adjourned. Thank you.

38 MR. MARTLAND: Yes. The hearings are complete, I hope.

39 THE COMMISSIONER: Correct.

40 MS. PANCHUK: The hearing will now adjourn generally.
41 Please remain standing in place while the
42 commissioner exits the room. Thank you.

43
44 (PROCEEDINGS ADJOURNED)

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I HEREBY CERTIFY the foregoing to be a true and accurate transcript of the evidence recorded on a sound recording apparatus, transcribed to the best of my skill and ability, and in accordance with applicable standards.

Karen Hefferland

I HEREBY CERTIFY the foregoing to be a true and accurate transcript of the evidence recorded on a sound recording apparatus, transcribed to the best of my skill and ability, and in accordance with applicable standards.

Pat Neumann

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Susan Osborne