

MACKENZIE VALLEY ENVIRONMENTAL IMPACT AND REVIEW PANEL

GAHCHO KUE PROJECT

ENVIRONMENTAL IMPACT REVIEW HEARING

Mackenzie Valley Review Panel:

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HELD AT:

Yellowknife, NT

December 6, 2012

Day 4 of 6



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| 1 | | LIST OF UNDERTAKINGS | | |
| 2 | Number | Description | Page | No. |
| 3 | 1 | AANDC to provide, by Decemb | er 7, | |
| 4 | | 2012, a list of CIMP projec | ts | |
| 5 | | related to Bathurst caribou | herd | 77 |
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   --- Upon commencing at 9:08 a.m.
2
3
                  THE CHAIRPERSON: Good morning,
   everyone. Welcome to day 2 of Gahcho Kue hearings.
                                                         We
   like to start the day with a prayer, and I've asked
   Florence Catholique to -- to help us, and she kindly
7
   agreed. So please stand.
8
9
                        (OPENING PRAYER)
10
11
                   THE CHAIRPERSON: Thank you very much,
12
   Florence. Staff have -- have advised me that the
13
   transcripts for the Dettah and Lutsel K'e community
14
   hearings is available on the -- on the Mackenzie Valley
15
   website, so that -- they were posted last night and are
   available.
16
17
                  We've had a good first day. Everybody
18
   respected the time, and -- and we moved along very well
19
   and got through the day's agenda nicely. And I ask
   that everybody be cognizant of the time again. You may
21
   think that the Chair is a bit pushy but I'm actually
   under the direction of the -- of the panel. The panel
22
23
   really wanted me to maintain the schedule, and that's
24
   what I intend to do.
25
                   So we will begin with Tlicho, and Mr.
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1 Henry Zoe has the chair.

2

- 3 PRESENTATION BY TLICHO GOVERNMENT:
- 4 MR. HENRY ZOE: Good morning, Mr.
- 5 Chairman. Mr. Chairman, this morning I have with me my
- 6 colleague, the chairman of our Kwe Beh Working Group,
- 7 Sunny Zoe, with me here. And I also have John Nishi,
- 8 our caribou expert, on the line listening in. And
- 9 he'll be helping me do my presentation.

10

11 (BRIEF PAUSE)

- MR. HENRY ZOE: Mr. Chairman, this
- 14 morning the Tlicho government is making their
- 15 presentation on this project. Mr. Chairman, our Tlicho
- 16 government made a number of recommendations.
- 17 The Proponent will consider, in setting
- 18 the water quality objectives, the traditional use the
- 19 Aboriginal people of the region, and the levels will be
- 20 set suitably to protect these traditional uses, level
- 21 of use, and protection at various endpoints in Kennady
- 22 Lake and downstream. De Beers committed to consider
- 23 uses but not to protecting uses in all the variety of
- 24 forms sent out by AANDC.
- Mr. Chairman, the recommendation set out

- 1 in these areas were satisfied through ongoing work and
- 2 the response of De Beers on water quality, fish
- 3 compensation, our approach to traditional knowledge,
- 4 and independent monitoring.
- 5 Mr. Chairman, we will be providing in
- 6 our final submission to the Board and to the panel, the
- 7 -- the issue of Ni Hadi Yati in our closing arguments.
- 8 Request for study, Mr. Chairman, we are
- 9 -- we're satisfied with the response that we've
- 10 received from De Beers, so I wont be speaking on this
- 11 issue.
- In regards to socioeconomic commitments,
- 13 adaptive support to Tlicho government services, we
- 14 require on the land counselling and space for
- 15 contractors. We're satisfied that these have to be
- 16 managed by the Proponent and the Tlicho government if
- 17 there is a satis -- satisfactory IBA.
- 18 Mr. Chairman, I'm now going to turn to
- 19 John Nishi, who's on -- listening in, to do the
- 20 following slides.
- 21 MR. JOHN NISHI: It's John here. I'm
- 22 just wondering if you can hear me okay?
- 23 THE CHAIRPERSON: Yes, we can hear you
- 24 very well, thank you.
- MR. HENRY ZOE: Yeah, we can hear you.

- 1 MR. JOHN NISHI: Okay. Thank you Mr.
- 2 Chairman and Mr. Zoe. I will try to take us through
- 3 the next through -- few slides here. And I'd like to
- 4 just open off with a kind of reminder to a -- to the
- 5 group that -- just the critical importance of Ekwo or
- 6 barren-ground caribou to a -- a -- to the ecology of
- 7 the North and also to the -- the cultural of the
- 8 Aboriginal peoples, and specifically Tlicho.
- 9 And, you know, just to remind ourselves
- 10 that as -- as a keystone species, it's -- caribou shape
- 11 the ecology and the environment of the North through
- 12 both herbivory; being a prey animal for predators like
- 13 wolves, bears, and wolverines and scavengers, such as
- 14 foxes and ravens; but also the -- the keystone that --
- 15 that these caribou fed and have fed Aboriginal peoples
- 16 for -- for generations and since time immemorial. So
- 17 as a keystone cultural species, Ekwo are essential to
- 18 Tlicho language, culture, and way of life.
- 19 I'd like to go to the next slide,
- 20 please.
- 21 The influence of caribou scarcity over
- 22 the recent history is a very -- a very important piece
- 23 of context. And what I mean by this is that prior to
- 24 today, the most recent Tlicho memory of a time of
- 25 caribou scarcity was in the 1960s. And it was at this

- 1 time that the community of Wekweeti had to be
- 2 evacuated, Behchoko and Gameti, because of a scarcity
- 3 of caribou and other game.
- 4 And this was a significant change, led
- 5 to strong impacts both on the political and social
- 6 fabric of Tlicho culture and society at the time. And
- 7 because of that recent history and the -- that
- 8 influence of scarcity, it's -- it is a defining aspect
- 9 of the relationship between Tlicho people and -- and
- 10 Ekwo. There has been a changing role of caribou in
- 11 Tlicho way of life, but they continue to be a cultural
- 12 keystone species.
- Next slide, please.
- 14 As -- as everyone in the audience is
- 15 aware, the Bathurst caribou have under -- undergone a
- 16 very dramatic decline in recent years. And this is
- 17 again a reminder just how important the relationship
- 18 between people and caribou is. This chart just shows
- 19 sort of the -- the overall trend in the rate of decline
- 20 in the Bathurst herd. And this graph just shows the
- 21 decrease in the -- in the breeding females of the herd.
- Just go to the next slide, please.
- 23 One of the things that resulted as -- as
- 24 -- as a function of the decline was -- was a -- a ban
- 25 on hunting. And Mr. Zoe, if you just click on the

- 1 button again, it should advance the animated slide
- 2 here. And this slide is showing the -- the need -- the
- 3 most recent management actions to develop a co-
- 4 management proposal between the Tlicho government and
- 5 the Government of the Northwest Territories and to
- 6 follow an adaptive co-management approach to managing
- 7 caribou during another time of -- of scarcity.
- 8 So let's advance to the next slide
- 9 please.
- 10 So this slide should show environmental
- 11 assessment and predicted impacts. And the intent of
- 12 this slide is to -- is to remind ourselves that the --
- 13 the comprehensive Environmental Impact Statement for
- 14 Gahcho Kue project submitted by De Beers provided --
- 15 provided an analysis of primary pathways that predicted
- 16 that the incremental and cumulative impacts from the
- 17 projects and other developments have a significant
- 18 negative influence on the resilience and persistence of
- 19 caribou populations. It was stated in the EIS that
- 20 most of the incremental cumulative impacts were
- 21 predicted to be negligible and low in magnitude and
- 22 reversible.
- 23 Advance to the next slide, please.
- This is just another version of the
- 25 previous slide. But I -- I quess I'd just like to

- 1 remind the group that despite the conclusions in the
- 2 EIS, the Tlicho government remains very concerned that
- 3 the combined effects of changes in the environment and
- 4 climate, increased industrial activity on the land, and
- 5 changing hunting pressures can act to reduce the
- 6 ability of Bathurst caribou to recover.
- 7 And more importantly I think the -- the
- 8 Tlicho government would like to respectfully suggest
- 9 that despite the extensive work that De Beers has done
- 10 to pre -- to prepare its EIS, the binders are simply
- 11 words and -- and a lot of them, but these are words
- 12 used to describe the predicted potential or expected
- 13 impact of the mine and associated infrastructure.
- 14 So as a result the -- sorry, I -- I
- 15 thought I heard someone say something, so I'm just
- 16 pausing. Should I just continue on?
- 17 THE CHAIRPERSON: No. This is the
- 18 Chair. What we have is a bit of static every now and
- 19 then, but you're coming across very well. Thanks.
- 20 MR. JOHN NISHI: Okay. Thank you, Mr.
- 21 Chair.
- So consequently, the Tlicho government
- 23 views the environmental review and application process
- 24 as really an initial, albeit very important,
- 25 preliminary exercise. And the real work and the

- 1 important work of mitigation, monitoring, and managing
- 2 caribou starts after the development proposal is
- 3 approved by the Mackenzie Valley Environmental Impact
- 4 Review Board, and then occurs throughout and beyond the
- 5 operational life of the project.
- 6 So can we advance to the next slide
- 7 please? So in reviewing the EIS and the proposed
- 8 mitigative measures and the proposed monitoring program
- 9 for caribou, the Tlicho government has highlighted
- 10 concerns in its technical report in the three (3)
- 11 areas. The first is monitoring roads, the associated
- 12 effects on hunting access and caribou. The second is
- 13 monitoring distribution of caribou and estimating a
- 14 zone of influence associated with the mine and -- and
- 15 access road. And the third was monitoring behaviour
- 16 and activity of caribou within a zone of influence.
- 17 So with respect to monitoring roads,
- 18 just a couple comments. De Beers's conclusion is based
- 19 on an underlying assumption that previous patterns of
- 20 hunting access by people and winter range use by
- 21 Bathurst caribou and other herds will be similar in the
- 22 future.
- 23 And with respect to considering
- 24 distribution of caribou and estimating a zone of
- 25 influence, this is a very key part of the EIA in that

- 1 the zone of influence was used to estimate the
- 2 likelihood and energetic consequences for adult female
- 3 caribou occurring within that zone of influence. So it
- 4 is a key assumption to estimate incremental and
- 5 cumulative effects of the project to Bathurst caribou.
- 6 And as a key assumption it needs to be tested and
- 7 monitored if the project is to proceed.
- 8 With the third consideration, monitoring
- 9 behaviour and activity of caribou within a zone of
- 10 influence, it appears that within the current version
- 11 of the wildlife monitoring plan, there's lacking -- it
- 12 -- it lacks detail with respect to how caribou will be
- 13 monitored, what specific monitoring or sampling designs
- 14 have or have not worked. And, in short, it does not
- 15 provide enough detail to understand how mitigative
- 16 measures will be monitored more effectively.
- 17 So I'd like to conclude with the next
- 18 few slides, just to provide an overview again of the
- 19 recommendations that were -- were written in the
- 20 technical reports. So this next slide should be the
- 21 slide titled "TG Recommendation." And there's two (2)
- 22 points here with respect to oversight and monitoring.
- 23 The first has to do with independent
- 24 oversight. And the reminder here is that the Tlicho
- 25 government views that the Proponent and respective

- 1 parties should collaboratively develop an agreement
- 2 that creates an independent oversight body.
- With respect to a wildlife monitoring
- 4 plan, the Tlicho government believes that that plan
- 5 needs to be enforceable. And it should be undertaken
- 6 principally by De Beers, but under the purview of the
- 7 independent overview.
- If we go to the next slide. With
- 9 respect to impacts to caribou, there are three (3) --
- 10 three (3) recommendations that the Tlicho government
- 11 would like the -- the panel to consider. The first has
- 12 to do with the winter access road and vehicle traffic.
- 13 And the recommendation is that monitoring should test
- 14 whether the access road and associated vehicular
- 15 traffic affects behaviour and impedes movement by
- 16 caribou.
- 17 The second recommendation with respect
- 18 to caribou impact is to -- to define and estimate --
- 19 estimate a zone of influence for the Gahcho Kue mine,
- 20 because it -- because it has been used as a very key
- 21 piece of the environmental impact statement. It needs
- 22 to be defined and monitored as the mine is developed
- 23 through to construction and closure.
- 24 And the third recommendation with
- 25 respect to caribou is -- is to monitor the effects of

- 1 the mine and mine activities on caribou be --
- 2 behaviour. And again, it refers back to the zone of
- 3 influence and estimating impacts of the mine and -- and
- 4 the associated activities to behaviour and activity of
- 5 caribou that may occur within the zone of influence.
- 6 So if we go to the second-last slide,
- 7 the recommendations are -- excuse me -- the
- 8 recommendations are to do with improving assessment and
- 9 how we -- we try to understand what the impacts to
- 10 caribou might be based on the current methods that we
- 11 use for conducting environmental impact sta -- reviews.
- 12 So this recommendation has to do with
- 13 regular and comprehensive analysis of monitoring
- 14 programs that are undertaken by De Beers should the
- 15 mine project be approved, and to update the cumulative
- 16 effects assessment. What we're suggesting here, Mr.
- 17 Chairman, is that there's a-- there's an important need
- 18 to do at least four (4) things.
- 19 One (1) is to advance the state of the
- 20 art in assessment methodologies, how cumulative impacts
- 21 are done with -- is an important and -- important area
- 22 for improvement. The other point is that we would like
- 23 to see the assumptions that have been used to build the
- 24 De Beers EIS, those assumptions need to be tested and
- 25 updated.

1 We would like to see a -- a regional

- 2 cumulative effects monitoring approach be applied.
- 3 This also integrates monitoring to --
- 4 THE CHAIRPERSON: It appears we've lost
- the telephone connection. How long will it take to
- 6 reconnect? Who -- who is in charge of this? Two (2)
- 7 minutes? Okay.

8

9 (BRIEF PAUSE)

- 11 THE CHAIRPERSON: Okay. I understand
- 12 that we're operational again. Are you there?
- DR. GINGER GIBSON: Yes. I'll turn it
- 14 back over to John Nishi. We were just about done.
- THE CHAIRPERSON: Okay, thank you.
- 16 Proceed.
- 17 MR. JOHN NISHI: Okay, thank you, Mr.
- 18 Chairman. This -- I'll just finish off with the last
- 19 two (2) points here. So there was -- I -- I think
- 20 where I left you guys was -- I was talking about the
- 21 thought of contributing to a regional cumulative
- 22 effects monitoring and management approach.
- 23 And what I just wanted to reiterate was
- 24 that -- was that this review and assessment should be
- 25 conducted so that it specifically contributes to and is

- 1 consistent with ongoing caribou management efforts that
- 2 are -- that consider the current caribou management
- 3 strategy by the territorial government, the cumulative
- 4 impact monitoring program by the federal government,
- 5 and the current initiative to develop a comprehensive
- 6 management proposal for the Bathurst herd as outlined
- 7 by the Tlicho Agreement.
- 8 And the final recommendation is a tacit
- 9 request to the Board to consider piloting an innovative
- 10 approach that respects and builds upon existing
- 11 territorial and federal government mandate -- the
- 12 Bathurst caribou initiative -- management initiatives
- 13 with the objective of linking project specific EIAs and
- 14 associated monitoring programs into a broader long-term
- 15 monitoring and management program that may be
- 16 undertaken at the geographic scale -- the herd's annual
- 17 range.
- 18 So with that, Mr. Chairman, I'd -- I'd
- 19 like to say thank you, and I'll turn it back to Mr.
- 20 Henry Zoe.
- MR. HENRY ZOE: Thank you. Mr.
- 22 Chairman, that concludes the Tlicho government
- 23 presentation.
- 24
- 25 QUESTION PERIOD:

24 THE CHAIRPERSON: Thank you very much 1 to you, Henry Zoe, and your team for this presentation. We will now go to questions of parties. So I'll go 3 through the list and the questions should be to the Tlicho representatives. 6 And we will begin with Akaitcho IMA Implementation Office. Do we have somebody from that 7 organization? 9 10 (BRIEF PAUSE) 11 12 THE CHAIRPERSON: Seeing none, we move 13 on. Dene Nation...? 14 15 (BRIEF PAUSE) 16 17 THE CHAIRPERSON: The next one is 18 Deninu Kue First Nation. Do we have a representative from them? 19 20 21 (BRIEF PAUSE) 22 23 THE CHAIRPERSON: I don't see any. 24 Lutsel K'e Dene First Nation...? 25 MR. MIKE TOLLIS: Thank you, Mr.

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25
   Speaker. Mike Tollis, from Lutsel K'e. No questions
  at this time. Thanks.
 3
                  THE CHAIRPERSON: Thank you. NWT Metis
   Nation...?
 5
 6
                          (BRIEF PAUSE)
                  THE CHAIRPERSON: Seeing none, moving
 9
   on. North Slave Metis Alliance...?
10
11
                          (BRIEF PAUSE)
12
13
                  MR. BILL ENGE: Thank you, Mr.
   Chairman. Bill Enge here, President, North Slave Metis
14
              The Tlicho appear to have come up with some
15
   Alliance.
   innovative ideas in regard to monitoring the decline in
   the caribou, the Bathurst caribou herd. And two (2) of
17
18
   the recommendations that they are suggesting be put in
   place, I'd like a little more information about.
20
                  The first question is: Could they
21
   better describe for me what they mean by putting in
   place an independent oversight, which is to be a -- a
22
23
   collaborative approach? Thank you.
24
                  THE CHAIRPERSON: Thank you, Mr. Enge.
25 Mr. Zoe...?
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- 1 MR. HENRY ZOE: Mr. Chairman, maybe
- 2 I'll refer this to my colleague, Dr. Ginger Gibson, who
- 3 is listening in. And then we'll go to Mr. Nishi right
- 4 after that.
- 5 DR. GINGER GIBSON: Thank you, Henry.
- 6 And good morning, Mr. Chair. We're -- we're grateful
- 7 to be presenting to the panel this morning. Thank you,
- 8 Mr. Enge, for your question. We have been working, as
- 9 you are aware from the presentations yesterday, on Ni
- 10 Hadi Yati, it -- which we believe can have -- has the
- 11 option of -- of being the independent monitoring body
- 12 that we're referring to.
- 13 We -- we feel like the -- a lot of work
- 14 has gone into this. And -- and we're hopeful that the
- 15 independent monitoring we're seeking, especially on
- 16 caribou, will be -- will be encompassed in that
- 17 organization. We believe that it needs to engage both
- 18 scientific world view as well as traditional knowledge
- 19 of the harvesters in the region. Thanks. I hope that
- 20 answers your questions and there won't be a response
- 21 from Mr. Nishi at this point.
- THE CHAIRPERSON: Thank you. Mr.
- 23 Enge...?
- MR. BILL ENGE: Thank you, Mr.
- 25 Chairman. Indeed, as I understand it, the -- the

- 1 Tlicho see this -- what appears to be a -- a new
- 2 creature that plays the role of an independent
- 3 monitoring agency, as opposed to the ones that are
- 4 currently in place that monitor the activities of the
- 5 three (3) current operating diamond mines.
- And indeed, I -- I can't say for certain
- 7 if that -- if those three (3) other bodies are
- 8 monitoring caribou at this time. I believe so, but
- 9 indeed we don't have any issues with that, providing,
- 10 of course, that the North Slave Metis Alliance is -- is
- 11 a party to this.
- 12 THE CHAIRPERSON: Excuse me, we've got
- 13 to get to the question, please.
- 14 MR. BILL ENGE: Okay. Now, the second
- 15 question I have in regard to -- to this presentation,
- 16 the Tlicho recommend that there be an enforceable
- 17 wildlife monitoring plan.
- 18 And I would like for them to describe
- 19 for me what they mean by that. Thank you.
- 20 THE CHAIRPERSON: Thank you, Mr. Enge.
- 21 Mr. Zoe...?
- MR. HENRY ZOE: I'll refer to Dr.
- 23 Gibson.
- DR. GINGER GIBSON: Hi, I'm going to
- 25 ask John Nishi to re -- to refer to the wi -- the

- 1 wildlife effects monitoring plan vision. Thanks
- MR. JOHN NISHI: Thank you, Mr.
- 3 Chairman. Thank you, Ginger. Thank you for the
- 4 question, Mr. Enge. The -- the thought is that
- 5 "enforceable" means that if there's a wildlife
- 6 monitoring plan that is in place, that the
- 7 recommendations and actions that are required to be
- 8 done through this plan are enforceable through the
- 9 independent monitoring oversight body, that there is
- 10 some -- some way of making sure that the monitoring
- 11 plan is done in a -- and in an appropriate manner.
- 12 THE CHAIRPERSON: Thank you. Mr.
- 13 Enge...?
- MR. BILL ENGE: Thank you, Mr.
- 15 Chairman. The -- as I understand the current wildlife
- 16 enforcement regime for this territory, as well as other
- 17 parts of Canada, is undertaken by and through
- 18 enforcement agencies such as the Department of
- 19 Environment and Natural Resources and the policing
- 20 sources.
- 21 Are they suggesting that a new wildlife
- 22 or -- officers of some sort be struck to -- to take on
- 23 that role? Thank you.
- 24 THE CHAIRPERSON: Thank you, Mr. Enge.
- 25 Mr. Zoe...?

- 1 MR. HENRY ZOE: I'll refer this to John
- 2 Nishi.
- 3 MR. JOHN NISHI: The -- the question
- 4 was whether the Tlicho government was suggesting that
- 5 wildlife officers or some type of officer person would
- 6 be required. And that -- that's not the suggestion,
- 7 Mr. Chairman. The suggestion is -- is to try and
- 8 ensure that the monitoring is done and in an effective
- 9 and timely manner.
- I, myself, am not knowledgeable about
- 11 this specific enforcement or regulatory methods. The -
- 12 the recommendation is -- is a bit more general than -
- 13 than -- is a bit more general than saying, you know,
- 14 for example, a wildlife officer should be on site to
- 15 ensure that things are done in -- in a proper fashion.
- 16 The recommendation is more along the lines of -- of
- 17 saying that if a monitoring plan is -- is required then
- 18 it should be done in an effective manner.
- 19 THE CHAIRPERSON: Thank you. Mr.
- 20 Enge...?
- MR. BILL ENGE: Thank you, Mr.
- 22 Chairman. I don't wish to belabour this point, but I
- 23 don't -- I didn't hear an answer to my question. And
- 24 perhaps I can put it another way.
- 25 What kind of enforcement provisions

- 1 would they see? Penalties of some sort? Some kind of
- 2 -- what -- what is the regime they would put in place
- 3 that would be an enforcement regime? Thank you.
- THE CHAIRPERSON: Thank you, Mr. Enge.
- 5 Mr. Zoe...?
- 6 MR. HENRY ZOE: I'll refer this back to
- 7 John.
- DR. GINGER GIBSON: Just before Mr.
- 9 Nishi responds. Thank you, Mr. Enge.
- I think what we're seeing is an emergent
- 11 body. The -- the question of enforcement is something
- 12 -- it's -- it's a regulatory gap that we have -- we've
- 13 all seen, that we know that there's a regulatory gap on
- 14 picking up on these measures. We are trying our best
- 15 amongst the Aboriginal authorities, to which the North
- 16 Slave have been invited, to be creative in this time of
- 17 extreme crisis to the Bathurst caribou herd. And so we
- 18 would welcome your ideas, but we don't have a firm
- 19 answer on this question at this time.
- 20 We believe enforcement is important. We
- 21 believe that that's why we're asking for an enforceable
- 22 wed -- wildlife effects monitoring program. And we
- 23 believe that the -- the creativity that is emerging at
- 24 the table in creating Ni Hadi Yati will bring forward
- 25 these kinds of enforceable measures. And I don't think

- 1 Mr. Nishi has anything to add at this point. Thank
- 2 you.
- 3 THE CHAIRPERSON: Thank you. Mr. Enge,
- 4 I need to know how many questions you have now.
- 5 MR. BILL ENGE: I believe I have two
- 6 (2). Okay. Now just so I can try to get -- or wrap my
- 7 head around what I'm hearing so I understand it, first
- 8 of all, let me clear something up with regard to what I
- 9 just heard.
- 10 Firstly, the North Slave Metis Alliance
- 11 has not been invited to be a party to any kind of
- 12 Bathurst caribou herd consultation. So let's just get
- 13 that straightened out on the record firstly. Secondly,
- 14 we wish to be a part of any kinds of collaborative
- 15 efforts made by all of our First Nation counterparts,
- 16 but that hasn't been the case in the recent past or
- 17 currently.
- 18 Secondly, what comes to mind is just --
- 19 just take this to --
- 20 THE CHAIRPERSON: Mr. Enge, we need the
- 21 questions. This is the question period.
- 22 MR. BILL ENGE: I -- I'm getting to the
- 23 question, Mr. Chairman. It requires a little bit of
- 24 background so the answer can be clearly defined.
- 25 And in this respect what -- how does --

- 1 how does this enforcement regime effect the operations
- 2 at De Beers' mine should the caribou go in worse
- 3 decline? Thank you.
- 4 THE CHAIRPERSON: Thank you. Mr.
- 5 Zoe...?
- 6 MR. HENRY ZOE: I'll refer this to Dr.
- 7 Gibson.
- DR. GINGER GIBSON: Thanks for the
- 9 question. I think the level of detail that you're --
- 10 you're taking us in with respect to how this would
- 11 influence De Beers, I think it would be a question
- 12 better placed with De Beers.
- 13 And NSMA has been invited to the enga --
- 14 to be engaged with the Ni Hadi Yati as discussed
- 15 yesterday. And -- and so we're hopeful -- you know, if
- 16 you want to provide detail on this yourself in your own
- 17 presentation, or ideas, we'd be -- we'd be interested
- 18 to hear them. Thanks.
- THE CHAIRPERSON: Thank you. Mr.
- 20 Enge...?
- MR. BILL ENGE: Yeah, thank you, Mr.
- 22 Chairman. Indeed yesterday the North Slave Metis
- 23 Alliance was publicly invited to become part of the Ni
- 24 Hadi Yati group. Since we haven't been, we haven't had
- 25 any discussions with regard to any caribou measures,

- 1 caribou conservation measures since then.
- 2 But with that in mind, perhaps we are
- 3 getting a little too deep here because we don't know
- 4 exactly what this group is. It seems to me that a lot
- 5 of these details still need to be fleshed out with
- 6 regard to how this body would operate, and what it's
- 7 proposing to do.
- 8 So with that in mind that -- that's all
- 9 the questions I have for the presenter this morning.
- 10 Thank you.
- 11 THE CHAIRPERSON: Thank you very much,
- 12 Mr. Enge. The next on the list is Yellowknives Dene
- 13 First Nation.
- 14 MR. TODD SLACK: No questions, Mr.
- 15 Chair.
- 16 THE CHAIRPERSON: Thank you.
- 17 Aboriginal Affairs and Northern Development Canada...?
- 18 MR. ROBERT JENKINS: Thank you, Mr.
- 19 Chair. It's Robert Jenkins, Aboriginal Affairs. I
- 20 just want to thank the Tlicho for their presentation.
- 21 I have no questions.
- THE CHAIRPERSON: Thank you.
- 23 Environment Canada...?
- 24 MR. ERIK ALLEN: Thank you, Mr. Chair.
- 25 It's Erik Allen, Environment Canada. We have no

- 1 questions at this time.
- THE CHAIRPERSON: Thank you, sir.
- 3 Fisheries and Oceans Canada...?
- 4 MS. BEV ROSS: Thank you, Mr. Chair.
- 5 Fisheries and Oceans Canada, Bev Ross speaking. We
- 6 have no questions at this time.
- 7 THE CHAIRPERSON: Thank you.
- 8 Government of the Northwest Territories...?
- 9 MR. GAVIN MORE: Thank you, Mr. Chair.
- 10 Gavin More, Government of the Northwest Territories. I
- 11 have a couple of questions. I was going to ask
- 12 questions about recommendation number 6. But from what
- 13 I heard, the Tlicho government is withdrawing that as
- 14 being complete. So from -- I won't ask any questions
- 15 on that.
- 16 But -- but I -- I would like to -- to
- 17 affirm that that is -- I'm correct on that, that that
- 18 will not be a final recommendation by the Tlicho
- 19 government?
- THE CHAIRPERSON: Thank you. Mr.
- 21 Zoe...
- 22 MR. HENRY ZOE: I'll refer this to Dr.
- 23 Gibson.
- DR. GINGER GIBSON: Henry, thank you
- 25 for your question. That is correct. We -- we've

- 1 received the independent study by De Beers, and we have
- 2 taken a look at it, and we're satisfied with that --
- 3 that work. Thank you.
- 4 THE CHAIRPERSON: Thank you. Mr.
- 5 More...?
- 6 MR. GAVIN MORE: Gavin More, GNWT.
- 7 Thank you, Mr. Chair. The other questions I have, and
- 8 I won't go into them as quite the detail that -- that
- 9 have already been asked about recommendation number 11.
- I would point out that the word
- 11 "enforceable" does cause real issues, in terms of
- 12 mechanisms and what that word really means. The key
- 13 for me was I heard, as people mentioned it, they
- 14 slipped into the phrasing "wildlife effects monitoring
- 15 program" versus "plan". And you'll see in the GNWT's
- 16 evidence that we've been purposely asking people to
- 17 separate the two (2) concepts.
- 18 And the reason for that is the -- the
- 19 WEMP idea, the wildlife effects monitoring program, is
- 20 a consistent approach being taken by the other diamond
- 21 mines, and it relates a little more to the broader
- 22 effects of -- of the project in relation to the bigger
- 23 cumulative effects.
- 24 And what I'd like to do is ask the
- 25 Tlicho government if they'd be willing to reconstruct

- 1 that recommendation so that they more clearly separate
- 2 the two (2) concepts. And it will likely make it
- 3 easier for people to understand then that concept of
- 4 enforceability of what takes place at the mine site and
- 5 -- and sort of the area of responsibility of the
- 6 Proponent versus that broader effects monitoring
- 7 program that's been talked about.
- 8 THE CHAIRPERSON: Thank you. Mr.
- 9 Zoe...?
- 10 MR. HENRY ZOE: And I'll refer to --
- 11 also to Dr. Gibson.
- DR. GINGER GIBSON: Thanks. This is --
- 13 this is Ginger Gibson, for Tlicho government. We -- we
- 14 admit that -- that there was not clarity in there, and
- 15 we're thankful to Mr. More for pointing that out. And
- 16 we will reflect that in our closing -- in our approach
- 17 to the -- the closing. We will separate "program" and
- 18 "plan". And so we're grateful that you -- you pointed
- 19 that out so we can be more specific.
- THE CHAIRPERSON: Thank you.
- 21 MR. GAVIN MORE: Gavin More, GNWT.
- 22 Thank you, Mr. Chair. And I would like to thank the
- 23 Tlicho government for an excellent presentation. Thank
- 24 you.
- THE CHAIRPERSON: Thank you very much.

- 1 National Resources Canada...?
- 2 MR. JOHN KING: John King, Natural
- 3 Resources Canada. We have no questions. Thank you.
- 4 THE CHAIRPERSON: Thank you, sir.
- 5 Parks Canada...?
- 6 MS. ANN RONALD: Mr. Chair, Ann Ronald,
- 7 Parks Canada. We have no questions. Thank you.
- 8 THE CHAIRPERSON: Thank you. Transport
- 9 Canada...?
- 10 MR. MIKE MOLINSKI: Thank you, Mr.
- 11 Chair. Mike Molinski, Transport Canada. We have no
- 12 questions. Thank you.
- 13 THE CHAIRPERSON: Thank you. De Beers
- 14 Canada...?
- 15 MS. VERONICA CHISHOLM: Veronica
- 16 Chisholm, from De Beers. Thank you, that was a -- a
- 17 very good presentation. I just have three (3)
- 18 questions. I'm just wondering if the Tlicho government
- 19 or their con -- the consultants -- excuse me -- can
- 20 comment whether they had the opportunity to look at or
- 21 review the wildlife effects monitoring plan that we
- 22 submitted, De Beers submitted, on the record on October
- 23 4th that flowed from the working group and the workshop
- 24 that Mr. Nishi was a part of, as well as other reps
- 25 from the Tlicho Government?

38 THE CHAIRPERSON: Mr. Zoe...? 1 2 MR. HENRY ZOE: Mr. Chairman, I'll refer that to either Dr. Gibson or Mr. Nishi. 3 MR. JOHN NISHI: Hello, this is John 4 Nishi. The question I heard was whether or not we had the opportunity look at the wildlife effects monitoring 7 plan dated the 4th of October. And the answer to that is yes. 9 THE CHAIRPERSON: Thank you. De 10 Beers...? 11 12 (BRIEF PAUSE) 13 14 MS. VERONICA CHISHOLM: Veronica 15 Chisholm, from De Beers. Thank you. Then I just have 16 a quick follow-up question on that. I'm just wondering if you had the opportunity, if the Tlicho government 17 18 had the opportunity, Mr. Chair, to look at how the 19 studies presented in that document dealing with behaviour, access, and zone of influence specific to 21 caribou, if they were considered as part, when the 22 Tlicho government made the recommendations, that these 23 appeared outstanding? 24 THE CHAIRMAN: Thank you. Mr. Zoe...?

MR. HENRY ZOE: I'll refer this to Mr.

- 1 Nishi.
- MR. JOHN NISHI: Thank you, Mr.
- 3 Chairman. John Nishi here. Yes, I was able to look at
- 4 those sections. And I guess my -- my perspective was
- 5 that there was some detail in there but that there was
- 6 still much more work to be done in that regard. And so
- 7 I was hoping to try, in the present, to -- to
- 8 articulate some of that in -- in the context of saying
- 9 that when the monitoring plan is -- is -- we recognize
- 10 that the monitoring plan, there is a draft of it, but
- 11 that with respect to the issues of, you know, zone of
- 12 influence impacts on caribou, roads, and access, that
- 13 there's still much more work to be done. And, you
- 14 know, I don't know if I really want to get into some of
- 15 the details on that.
- 16 But just to reinforce to, I quess, to
- 17 the panel and to the group, that from the Tlicho
- 18 government's perspective, there's still much more work
- 19 to be done to link monitoring to mitigation and
- 20 management of those mitigative measures. Thank you.
- 21 THE CHAIRPERSON: Thank you. De
- 22 Beers...?
- 23 MS. VERONICA CHISHOLM: Thank you very
- 24 much for your responses. I just have one (1) more
- 25 question with respect to enforcement for the wildlife.

- 1 I'm just -- I'm just wondering if -- if the Tlicho
- 2 government had had an opportunity to review our
- 3 response in the technical reports to the GNWT,
- 4 recommendation number 2, and that the Premier spoke to
- 5 yesterday regarding a memorandum of understanding
- 6 between De Beers and the GNWT/ENR, regarding the review
- 7 of wildlife monitoring programs, including the wildlife
- 8 effects monitoring plan.
- 9 I'm just wondering if they had a chance
- 10 to have a look at that.
- 11 THE CHAIRPERSON: Thank you. Mr. Zoe?
- 12 MR. HENRY ZOE: I'll refer this to Dr.
- 13 Gibson.
- 14 DR. GINGER GIBSON: Thank you for
- 15 pointing it out to us, Ms. Chisholm. And we will -- we
- 16 will take a look at it and reflect on it in the -- in
- 17 our closing argument.
- 18 THE CHAIRPERSON: Thank you. Anything
- 19 else?
- 20 MS. VERONICA CHISHOLM: Veronica
- 21 Chisholm, from De Beers. No, thank you very much.
- THE CHAIRPERSON: Thank you. Panel
- 23 staff?
- 24 MR. CHUCK HUBERT: To Terry Antoniuk.
- MR. TERRY ANTONIUK: Thank you, Mr.

- 1 Chairman. Terry Antoniuk. I'd just like to -- to go
- 2 back for clarification to a -- a recommendation, Tlicho
- 3 recommendation number 11, for enforceable wildlife
- 4 monitoring plan. And the -- the additional wording
- 5 that's included in the technical report makes reference
- 6 to a -- to a reporting requirement similar to that of
- 7 the Wek'eezhii Aquatic Effects Monitoring Program.
- And we're just wondering, is that
- 9 intended to refer to the response management framework,
- 10 or the adaptive management res -- response framework?
- 11 THE CHAIRPERSON: Thank you. Mr.
- 12 Zoe...?
- 13 MR. HENRY ZOE: Mr. Chairman, I'll
- 14 refer this to Dr. Gibson.
- DR. GINGER GIBSON: Go ahead, John.
- MR. JOHN NISHI: Thank you, Mr.
- 17 Chairman. The answer to the questions is, yes, the
- 18 intent was to refer to the adaptive management
- 19 component of -- of that plan.
- THE CHAIRPERSON: Thank you.
- 21 MR. TERRY ANTONIUK: Thank you for
- 22 that. I'd -- I'd also, recognizing -- sorry, it's
- 23 Terry Antoniuk. Recognizing that -- that the Ni Hadi
- 24 Yati proposal is still in a conceptual form, just like
- 25 to understand a little bit more. There's -- there's

- 1 wil -- there's monitoring components, there's
- 2 management components that Da Beers will understand,
- 3 mitigation components, and then there's brotal --
- 4 broader regional work on both monitoring and
- 5 management.
- 6 So if -- if you could explain to me, at
- 7 least conceptually, how the Ni Hadi Yati proposal fits
- 8 into those -- those various pieces? Thank you.
- 9 THE CHAIRPERSON: Thank you. Mr.
- 10 Zoe...?
- MR. HENRY ZOE: As you know, the Ni
- 12 Hadi Yati is -- is -- as you said, is conceptual, and
- 13 that group has a lot of work to do. And I think my
- 14 colleague, Ginger, may have other comments.
- DR. GINGER GIBSON: Actually -- this is
- 16 Ginger, for -- Ginger Gibson, for Tlicho government. I
- 17 think that's a great answer, Henry. And -- and your
- 18 question will help, I think, the group of people that
- 19 are at the table to move forward. Thank you.
- 20 THE CHAIRPERSON: Thank you. Does that
- 21 -- is that it?
- MR. TERRY ANTONIUK: Just -- just one
- 23 (1) more question, Mr. Chairman. Terry Antoniuk.
- Do you have any specific recom --
- 25 recommendations for accumulative effects management and

- 1 oversight by Aboriginal Affairs, Northern Development,
- 2 or Government of the Northwest Territories, two (2) of
- 3 the bodies that you identified in your technical
- 4 report?
- 5 THE CHAIRPERSON: Thank you. Mr.
- 6 Zoe...?
- 7 MR. HENRY ZOE: I'll refer this
- 8 question to Dr. Gibson.
- 9 DR. GINGER GIBSON: Thank you. This is
- 10 Ginger Gibson, Tlicho government. I think the -- the
- 11 final recommendation that John Nishi referred, which is
- 12 that there be regular and comprehensive analysis that
- 13 deals with the full range of the Bathurst caribou, is
- 14 one that we'd like to see in place. And -- and I
- 15 think, other than that, we don't have specific
- 16 recommendations at this point for the federal
- 17 government and the GNWT. Thank you.
- 18 THE CHAIRPERSON: Thank you. Legal
- 19 counsel...?
- 20 MR. JOHN DONIHEE: John Donihee,
- 21 counsel. Yes, I -- I have a couple of questions. The -
- 22 the first one really is -- is -- simply ask for a
- 23 confirmation, I guess. You know, a review of the
- 24 Tlicho government's technical report and presentation
- 25 this morning indicates that the only recommendations in

- 1 respect of independent oversight are -- are structured
- 2 in a way that refer to Ni Hadi Yati.
- And I asked yesterday, the group that
- 4 made the presentation about it, and I -- I do want to
- 5 ask again specifically to Tlicho government, you know,
- 6 what -- what happens if this negotiation doesn't
- 7 succeed and you don't end up where you hope to be, in
- 8 terms of Tlicho government's expectations for oversight
- 9 and involvement in respect of the management of this
- 10 mine?
- 11 THE CHAIRPERSON: Thank you. Mr. Zoe..?
- MR. HENRY ZOE: Thank you Mr. Chairman.
- 13 That's a difficult question to answer. But my
- 14 colleague, Ginger Gibson, if you have any comments
- 15 pertaining to that question?
- 16 DR. GINGER GIBSON: Ginger Gibson here.
- 17 You're right, Henry, it's a very tough question to
- 18 answer. I guess we have to move forward with the good
- 19 faith at the table and there's a great deal.
- 20 None of us invests the kind of time
- 21 we've invested in that kind of effort without believing
- 22 that we can achieve something. And we have seen
- 23 something really profound in terms of the engagement of
- 24 the Aboriginal authorities move -- leading on this --
- 25 on this issue, as well as De Beers coming in and

- 1 getting involved and -- and there's a been a tremendous
- 2 dedication of the staff effort.
- 3 So while I appreciate that there may not
- 4 be something -- you know, that there -- that there is
- 5 the possibility that it could fall apart. At the same
- 6 time, I don't think any of us would have invested the
- 7 amount of time that we have if we don't believe that --
- 8 that there will be a pen put to paper and an agreement
- 9 signed on this piece.
- 10 And we -- you know, it's -- it's an
- 11 initiative we'd really like to see the GNWT and -- and
- 12 AANDC engage with as well. Thank you, I hope that
- 13 answers your question, Mr. Donihee.
- 14 THE CHAIRPERSON: Thank you. Mr.
- 15 Donihee...?
- MR. JOHN DONIHEE: Thank you, Mr.
- 17 Chairman. John Donihee again.
- Dr. -- I'm sorry, to -- to the Tlicho
- 19 government. Dr. Gibson described the situation with
- 20 respect to the Bathurst caribou as a time of extreme
- 21 crisis. And I would simply observe that, you know, the
- 22 Tlicho government and -- and -- I mean, it -- this is
- 23 the Tlicho government's choice and believe me I'm not
- 24 challenging that. But that, you know, you seem to have
- 25 placed your hopes and -- and good intentions with

- 1 respect to the management and protection of the
- 2 Bathurst carib -- caribou in what was described and --
- 3 and agreed by the group presenting yesterday to be a
- 4 conceptual structure.
- 5 There have been some questions asked by
- 6 North Slave Metis and my colleague Mr. Antoniuk about
- 7 how your enforceable wildlife management plan might
- 8 work. And there really didn't seem to be much in the
- 9 way of answers to those questions.
- I guess the con -- the concern that I
- 11 would just raise -- and if the Tlicho government is
- 12 willing to live with it then just tell us so, but the
- 13 concern is simply that if you're anticipating some kind
- 14 of recommendations from the panel with respect to the
- 15 way that all this is going to work I'd ask you, you
- 16 know, are you able in -- in your closing arguments to
- 17 present somewhat greater detail to the panel because at
- 18 the moment there's not very much to go on.
- 19 THE CHAIRPERSON: Thank you, Mr.
- 20 Donihee. Mr. Zoe...?
- MR. HENRY ZOE: Thank you, Mr.
- 22 Chairman. We will take that under advisement and we
- 23 may -- may put it in our final arguments. Thank you.
- 24 THE CHAIRPERSON: Thank you.
- MR. JOHN DONIHEE: Thank you, Mr.

- 1 Chairman. John Donihee. I think that's the end of my
- 2 questions, and I believe that's the end of the
- 3 questions from the tables over here.
- 4 THE CHAIRPERSON: Thank you very much.
- 5 We'll go now to the panel. Panel member, Rachel
- 6 Crapeau...?
- 7 MS. RACHEL CRAPEAU: My only one (1)
- 8 question is: If you took that question under
- 9 advisement and you say that you're going to have a
- 10 final answer in your final comments, is that to -- is
- 11 that -- is that going to be tomorrow? I just wanted to
- 12 know. Thank you.
- 13 THE CHAIRPERSON: Thank you. Mr.
- 14 Zoe...?
- MR. HENRY ZOE: Mr. Chairman, if I
- 16 recall right, I think the registry close on the 21st of
- 17 December. And at that time -- we -- so we have some
- 18 time between now and then to incorporate if we any --
- 19 anything to incorporate into our final arguments, then
- 20 we will do that. Thank you.
- THE CHAIRPERSON: Thank you, Mr. Zoe.
- 22 Panel member, Rachel Crapeau...?
- MS. RACHEL CRAPEAU: Thank you, Mr.
- 24 Chair. No further questions. Thank you.
- THE CHAIRPERSON: Thank you. Panel

- 1 member, James Wah-shee...?
- 2 MR. JAMES WAH-SHEE: Thank you, Mr.
- 3 Chairman. I'd just like to thank the Tlicho government
- 4 for their presentation. I have no questions. Thank
- 5 you.
- 6 THE CHAIRPERSON: Thank you. Panel
- 7 member, Peter Bannon...?
- MR. PETER BANNON: Thank you, Mr.
- 9 Chairman. And thank you to -- for your presentation,
- 10 but I have no questions.
- 11 THE CHAIRPERSON: Thank you. Panel
- 12 member, Richard Mercredi...?
- MR. RICHARD MERCREDI: Yeah, thank you,
- 14 Mr. Chair. And thanks for the presentation. No
- 15 questions at this time.
- 16 THE CHAIRPERSON: The Chair gets the
- 17 final word and the Chair does not have any more
- 18 questions.
- 19 So that concludes this part of the
- 20 agenda. We are shortly after ten o'clock, and
- 21 amazingly we're ahead of schedule. So I would say we -
- 22 a little after 10:15, 10:16, 10:17, we'll be back.
- 23 So we'll adjourn until then and have coffee. Thank
- 24 you.

- 1 --- Upon recessing at 10:02 a.m.
- 2 --- Upon resuming at 10:16 a.m.

3

- 4 THE CHAIRPERSON: Okay, we'll begin
- 5 again. Aboriginal Affairs and Northern Development
- 6 Canada has a presentation, so I will turn it over to --
- 7 to you, sir.

- 9 PRESENTATION BY AANDC:
- 10 MR. ROBERT JENKINS: Thank you, Mr.
- 11 Chair, panel members. My name is Robert Jenkins. I'm
- 12 the acting director for Renewable Resources and
- 13 Environment with Aboriginal Affairs and Northern
- 14 Development Canada. With me today I have Mr. Nathen
- 15 Richea and Mr. Paul Green of the Water Resource
- 16 Division.
- 17 Mr. Chair, we appreciate the opportunity
- 18 to present to the panel today our technical report and
- 19 recommendations for the proposed Gahcho Kue project.
- 20 We hope that the information we provide is helpful to
- 21 the panel.
- 22 Our review and our technical report
- 23 focusses on the water-related aspects of the project.
- 24 And our repo -- our report focussed in on three (3)
- 25 topics. The first was site-specific water quality

- 1 objectives, and I'll refer to those as SSWQOs. The
- 2 second was aquatic effects monitoring program, as --
- 3 I'll refer to that in short as an AEMP. And the third
- 4 area was closure and reclamation.
- 5 I won't get into detail on our -- on our
- 6 legislative mandate or responsibilities other than we
- 7 do have legislative responsibilities for land and water
- 8 management in the NWT.
- 9 We hope that the recommendations which
- 10 we put forward today will be helpful for the Board in
- 11 their preparation of a report, and we request that our
- 12 recommendations be placed as measures within that
- 13 report.
- 14 Mr. Chair, the first area I will discuss
- 15 is in regards to water quality, more specifically with
- 16 respect to site-specific water quality objectives, or
- 17 SSWQOs. SSWQOs are the standard for water quality to
- 18 be met at the edge of a dilution zone ensuring that the
- 19 intended use of the downstream receiving environment is
- 20 protected now and into the future.
- 21 A number of national and NWT-specific
- 22 policy documents exist which are relevant to
- 23 establishing SSWQOs for a project. There are two (2)
- 24 statements that stand out that I would like to
- 25 highlight for the Board. The first is from the NWT

51 water stewardship strategy. And I quote: 2 "Residents of the NWT have expressed a desire to lead in the area of water 3 stewardship. This means setting high 5 standards to hold residents and 6 others responsible and accountable." The second statement is a guiding principle of the Mackenzie Valley Land and Water Board's water and effluent quality policy. Again I 10 quote: 11 "Pollution prevention: the use of 12 processes, practices, materials, 13 products, or energy that avoid or 14 minimize the creation of pollutants 15 and waste, and reduce overall risk to 16 human health and the environment." 17 The tar -- the department feels that 18 these points really set the general direction for the 19 establishment of SSWQOs for the Gahcho Kue project. 20 De Beers has proposed two (2) types of 21 water quality objectives. The first is narrative 22 objectives that articulate the water management goals 23 for the project. And the second are numerical 24 objectives that if met should ensure that the narrative 25 goals are achieved.

- 1 Two (2) sets of objectives are
- 2 presented: one (1) for Lake N11 that would apply during
- 3 construction and operations, and a second set that
- 4 would apply to Kennady Lake post-closure. And these
- 5 two (2) scenarios are slightly different, and I'll --
- 6 I'll talk about these in the upcoming slides.
- 7 De Beers has proposed that the
- 8 objectives for Lake N11 would apply at the edge of a
- 9 200-metre initial dilution zone, or IDZ. It's a bit
- 10 hard to see in this schematic, Mr. Chair, but
- 11 essentially this is Kennady Lake. And effluent will be
- 12 discharged from Kennady Lake and there will be effluent
- 13 quality criteria at, sort of, an end-of- pipe. So
- 14 that's a compliance point.
- 15 After the release of that -- and there
- 16 will be limits, it'd go through a mixing zone. So this
- 17 -- this area here represents that mixing zone, and the
- 18 Company has put forward 200 metres. At the edge of
- 19 that mixing zone is essentially where the site-specific
- 20 water quality objectives would be applied to protect
- 21 the intended use of the downstream receiving
- 22 environment.
- We acknowledge that setting effluent
- 24 quality criteria is a regulatory requirement. But we
- 25 feel that establishing the SSWQOs, essentially the

- 1 level of protection for the standard or the standard of
- 2 water downstream of a project, should be determined in
- 3 the environmental impact review phase.
- 4 Water quality objective for Kennady Lake
- 5 is based on a whole lake mixed concentration and would
- 6 apply within Kennady Lake. So the previous diagram
- 7 discussed what is proposed, sort of, during operations.
- 8 Post-operation there would be some -- some sort of
- 9 objective which would apply to Kennady Lake. And when
- 10 that objective is met, essentially the Kennady Lake
- 11 would be reconnected to the downstream aquatic
- 12 environment.
- 13 While Aboriginal Affairs generally
- 14 agrees with the protocol used by De Beers for setting
- 15 site-specific water quality objectives, we remain
- 16 concerned with several elements of the protocol.
- 17 Overall, pollution prevention and waste
- 18 minimization principles must be maintained. These
- 19 principles speak to the practice of minimizing impacts
- 20 to the receiving aquatic ecosystem by limiting the
- 21 amount of waste discharged and, therefore, minimizing
- 22 the degradation of receiving-water quality. Smaller
- 23 changes in receiving-water quality provide greater
- 24 confidence that the important components of the
- 25 receiving aquatic ecosystem will be preserved.

- Our specific concerns include De Beers'
- 2 use of regional baseline values for assessing potential
- 3 changes in water quality, De Beers's use of predicted
- 4 hardness values when deriving site-specific water
- 5 quality objectives, De Beers's proposal to default to
- 6 Canadian Council of the Ministers of the Environment
- 7 guideline levels in the event that projected parameter
- 8 concentrations exceed maximum background
- 9 concentrations, and De Beers' proposed water quality
- 10 objective for mercury.
- 11 This leads us to our first
- 12 recommendation. The Proponent has proposed narrative
- 13 statements that describe their overall goals for water
- 14 quality objectives for the proposed Gahcho Kue mine.
- 15 The Department believes that more detail is required to
- 16 -- to define the intended level of protection achieved
- 17 by these objectives.
- Therefore, we recommend that the report
- 19 of EIR should include narrative statements that
- 20 describe the level of protection to be afforded the
- 21 aquatic receiving environment including water quality
- 22 changes -- and it's very important to highlight, due to
- 23 mining activities, will not significantly affect
- 24 benthic macro-invertebrate and plankton abundance,
- 25 taxonomic richness or diversity.

- 1 Water quality changes due to mining
- 2 activities will not significantly alter fish abundance,
- 3 or diversity, or fish consumption at current levels.
- 4 Water quality changes due to mining activities will not
- 5 negatively affect areas utilized as traditional
- 6 drinking water sources.
- 7 Water quality changes due to mining
- 8 activities will not significantly affect mammals or
- 9 wild fowl using the area as a drinking water, food
- 10 source, or habitat, or the ability for people to
- 11 harvest these animals.
- 12 And the last is, prior to reconnection
- 13 with the surrounding watershed, water and sediment
- 14 quality in Kennady Lake will be adequate to support a
- 15 viable and self-sustaining ecosystem that is compatible
- 16 with the regional watershed and maintains traditional
- 17 use of the area.
- 18 Mr. Chair, Aboriginal Affairs's review
- 19 of De Beers's proposed SSWQOs identify that the
- 20 baseline values appear to be generated using regional
- 21 watershed data. And it's led to our second
- 22 recommendation, that specific baseline values as
- 23 opposed to regional baseline values, should be used
- 24 when deriving SSWQOs for Kennady Lake and Lake N11.
- 25 We feel that this would provide more accuracy when

- 1 calculating SSWQOs moving forward for the project.
- 2 Our third recommendation relates to De
- 3 Beers proposed use of exposure and toxicity modifying
- 4 factors when determining SSWQOs. The hardness in Lake
- 5 N11 and Kennady Lake is predicted to increase above
- 6 current levels over the life of the project. Higher
- 7 hardness concentrations can reduce the ac -- the
- 8 aquatic toxicity of certain parameters and, in
- 9 principle, allow for more of these parameters to be
- 10 deposited without causing aquatic toxicity.
- 11 We understand that the CCME describes
- 12 the use of toxicity modifying factors when calculating
- 13 water objectives, but we also understand that toxicity
- 14 modifying factors should be representative of national
- 15 -- natural conditions.
- 16 The Department also remains concerned
- 17 that increasing hardness may cause unanticipated
- 18 changes to the ecosystem as a whole. Accordingly, our
- 19 preference is to minimize potential impacts by
- 20 eliminating the amount of waste discharged instead of
- 21 relying on project-related changes to the receiving
- 22 environment to buffer the effects of chemical loadings.
- In keeping with this preference, we make
- 24 the following recommendation: that the hardness
- 25 concentration used for calculating hardness-dependent

- 1 water quality objectives should reflect the existing
- 2 baseline hardness concentration and not the altered
- 3 conditions predicted as a result of mining activities.
- 4 It should also be noted that we are willing to revisit
- 5 SSWQOs through the life of the project.
- 6 Our fourth recommendation also relates
- 7 to minimizing potential impacts by limiting the amount
- 8 of waste discharged. The Department is of the opinion
- 9 that if the Proponent can meet a higher standard
- 10 without undue hardship, in other words, considering
- 11 requirements for operational flexibility, then the
- 12 Proponent should make an effort to do so.
- In their response to our intervention,
- 14 De Beers considered it unnecessary to create
- 15 conservative benchmarks that will offer no additional
- 16 environmental benefits. While we acknowledge De Beers
- 17 position, we note that both the CCME and the Mackenzie
- 18 Valley Land and Water Board guidance on effluent
- 19 discharge, support the principle of non-degradation.
- 20 In other words, the CCME quideline concentrations are
- 21 not intended as pollute-up-to limits.
- 22 Therefore, in the interest of minimizing
- 23 environmental impacts from the proposed project, we
- 24 recommend that when deriving site-specific water
- 25 quality objectives, the lowest level recently

- 1 achievable, considering requirements for operational
- 2 flexibility, should be selected, instead of defaulting
- 3 to existing generic guideline values.
- 4 Our last recommendation regarding water
- 5 quality objectives relates to the proposed value for
- 6 mercury. Mercury concentrations in fish tissue samples
- 7 from the project are already naturally exceeding US
- 8 Environmental Protection Agency screening criteria for
- 9 human consumption. As such, efforts should be made to
- 10 minimize the potential for increases to mercury in the
- 11 downstream receiving environment as a result of project
- 12 activities.
- De Beers's proposed water quality
- 14 benchmark for mercury is based on the maximum measured
- 15 regional baseline concentration. This value is higher
- 16 than the CCME guideline for mercury. It is not clear
- 17 which regional water body is responsible for this
- 18 maximum concentration. It is important to note that
- 19 CCME guidelines are set to protect against aquatic
- 20 toxicity. They do not protect against other mechanisms
- 21 such as accumulation of mercury in the food chain.
- It is apparent though that the median
- 23 regional baseline mercury concentration and the
- 24 predicted mercury concentrations in Lake N11 and
- 25 Kennady Lake are both less than the CCME guideline.

- 1 Therefore, we recommend that the objective for mercury
- 2 should either align with the maximum predicted mercury
- 3 concentrations as a result of the project and/or within
- 4 the range of naturally occurring background
- 5 concentrations in Kennady Lake and Lake N11.
- 6 The second area of our presentation is
- 7 in regards to aquatic effects monitoring plan. De
- 8 Beers has initiated discussions and has begun
- 9 developing an aquatic effects monitoring program. In
- 10 their response to our intervention they indicated they
- 11 would consider our guidelines.
- 12 Our guidelines were developed for
- 13 Northern projects, Mr. Chair, and they do take into
- 14 consideration Northern issues and -- and the
- 15 incorporation of traditional knowledge. So we believe
- 16 that our guidelines provide the most appropriate basis
- 17 for designing and implementing an AEMP at a Northern
- 18 mine site.
- 19 And we recommend that these should be
- 20 followed moving forward, in the development of an AEMP,
- 21 action levels, and related management response
- 22 framework for the Gahcho Kue diamond mine. We look
- 23 forward to working with the Proponent moving forward in
- 24 the development of that program.
- Our last topic is in regards to closure

- 1 and reclamation. We understand that during operation
- 2 Kennady Lake will be disconnected from the surrounding
- 3 hydro -- hydrologic regime, and a portion of Kennady
- 4 Lake will be used as a water management pond.
- 5 At the end of operations, water from the
- 6 water management pond will be transferred to -- to Tuzo
- 7 pit where the poor water quality will settle at the
- 8 bottom. After the transfer of water from the water
- 9 management pond to Tuzo pit, the water management pond
- 10 will be allowed to refill and will be reconnected to
- 11 the surrounding water shed.
- We do note that portions of the west and
- 13 south mine rock piles, and the coarse and fine
- 14 processed kimberlite containment facilities will be in
- 15 contact with the water at the refilled water management
- 16 pond, which is not typical practice at Northern mine
- 17 sites.
- 18 The departmental view on mine site
- 19 closure is based upon our mine site reclamation policy
- 20 developed in response to a number of instances where
- 21 the Crown has assumed environmental liability of a site
- 22 due to an insolvency and subsequent abandonment of a
- 23 mining property.
- 24 One (1) principle from our policy which
- 25 sets the direction for mine site closure and

61 reclamation in the Northwest Territories is as follows: 2 "Returning mine sites and affected 3 areas to viable and, wherever practical, self-sustaining ecosystems 5 that compatible with a healthy environment and with human 6 activities." Our primary concerns related to the closure of the proposed project are in regards to post-10 closure water quality in the water management pond and 11 the time required for the water management pond to 12 reintegrate into the local ecosystem. 13 De Beers has predicted water management 14 pond post-closure water quality based upon: 1) 15 assumptions about the volume and quality of the 16 leachate from waste rock and processed kimberlite 17 storage piles, and 2) the stability of the chemocline, 18 essentially the differences in the deep versus the 19 shallow water chemistry that should develop in the 20 submerged pits. 21 Depending upon accuracy of the model 22 assumptions, final water quality in the water 23 management pond may differ from the predicted values. 24 We submit that final post-closure water 25 management pond water quality must support a viable and

- 1 self-sustaining ecosystem that is compatible with the
- 2 regional watershed, and maintains traditional use of
- 3 the area.
- 4 And this leads to our next
- 5 recommendation, that water quality be closely monitored
- 6 during the refilling process, and adaptive management
- 7 be implemented as required to ensure that the final
- 8 water quality is sufficient to support a viable and
- 9 self-sustaining ecosystem that is compatible with the
- 10 regional watershed and maintains traditional use of the
- 11 area prior to reconnecting the water management pond to
- 12 the downstream watersheds.
- 13 Mr. Chair, a key element of the water
- 14 quality in the water management pond post closure is
- 15 the successful establishment of the chemocline in the
- 16 pits. Failure of the chemocline would have negative
- 17 effects on overall water quality in the pond, so we
- 18 make the following recommendation: that a key element
- 19 of the closure planning process during operations
- 20 should be to identify potential mechanisms through
- 21 which full lake mixing could occur, and use the results
- 22 of ongoing investigations to study and implement
- 23 measures such that chemocline stability will be
- 24 enhanced.
- De Beers agrees that the key element of

- 1 the clos -- closure planning process will be to
- 2 identify potential mechanisms through which full lake
- 3 mixing could occur and provide mitigations that enhance
- 4 chemocline stability during the refilling process.
- 5 The Proponent has identified that the
- 6 water management pond will recover to the point where
- 7 it forms a sustainable ecosystem over a period of
- 8 approximately seven (7) years from the end of
- 9 operations. In line with our mine site reclamation
- 10 policy, the Department feels that reclamation
- 11 liabilities should be addressed in as timely a manner
- 12 as possible. Therefore, we recommend that a key
- 13 element of the closure planning process during
- 14 operations should be to identify and develop methods to
- 15 reduce the period of time required for recovery of the
- 16 water management pond.
- 17 And further to our previous
- 18 recommendation, we recommend that closure goals and
- 19 objectives be developed for the water management pond
- 20 that must be met prior to and following reconnection
- 21 with the downstream environment. These closure goals
- 22 and objectives would be developed in consultation with
- 23 Aboriginal groups, interested parties, and regulators.
- 24 De Beers has responded that they will
- 25 develop closure and reclamation objectives that are

- 1 consistent with the draft guidelines for the closure
- 2 and reclamation of advanced mineral exploration and
- 3 mine sites in the Northwest Territories. Closure
- 4 objectives for the water management pond will be
- 5 developed as part of this process and De Beers
- 6 understands that the closure and reclamation planning
- 7 process requires engagement with Aboriginal groups,
- 8 interested parties, and regulators.
- 9 Mr. Chair, where possible Aboriginal
- 10 Affairs has provided recommendations to assist in the
- 11 Panel's decision-making process. We've provided recome
- 12 -- recommendations today on three (3) subject areas:
- 13 site-specific water quality objective, aquatic effects
- 14 monitoring program, and closure and reclamation. These
- 15 recommendations are provided to help minimize both the
- 16 magnitude and temporal extent of potential effects from
- 17 the project and provide a higher level of confidence
- 18 that a downstream aquatic ecosystem will see minimal
- 19 impacts.
- 20 We thank the panel for providing us an
- 21 opportunity to speak today and present our
- 22 recommendations, and we're open to any questions.
- 23 Thank you.

24

25 QUESTION PERIOD:

65 1 THE CHAIRPERSON: Thank you very much, Mr. Jenkins. We need some lights, thank you. Now we'll turn to questions from parties, and we'll follow the same list of parties as we used for the -- in the 5 past. 6 So we'll begin with Akaitcho IMA 7 Implementation Office. 8 9 (BRIEF PAUSE) 10 11 THE CHAIRPERSON: I see none. I'll 12 move on. Dene Nation...? Deninu Kue First Nation? 13 MR. ROBERT SAYINE: Robert Sayine, from 14 Deninu Kue First Nation. No questions at this time, 15 Chairman. 16 THE CHAIRPERSON: Thank you. Lutsel 17 K'e Dene First Nation...? 18 MR. MIKE TOLLIS: No questions at this 19 time, Mr. Chair. 20 THE CHAIRPERSON: Thank you. NWT Metis Nation...? 21 22 MR. CHUCK HUBERT: Could you state your 23 name, the last -- please? 24 MR. MIKE TOLLIS: Sorry, Chuck. Mike Tollis, from Lutsel K'e Dene First Nation.

- 1 THE CHAIRPERSON: NWT Metis Nation, I
- 2 see none. We move on. North Slave Metis Alliance...?
- MR. BILL ENGE: Yes, thank you, Mr.
- 4 Chairman. Bill Enge, President of the North Slave
- 5 Metis Alliance.
- 6 The first question I'd have for
- 7 Department of Aboriginal Affairs and Northern
- 8 Development Canada representative is: Did they do an
- 9 analysis of just how well the water treatment plan that
- 10 the Developer has put on the table to ensure that the
- 11 water quality used by the mine meets standards? In
- 12 other -- in -- in short, I didn't see in their
- 13 presentation an analysis of using ponds to cleanse the
- 14 water before it's ready for discharge back into the
- 15 water system.
- 16 Did the -- did the -- the Crown here, do
- 17 an analysis of that cleansing process? Thank you.
- 18 THE CHAIRPERSON: Thank you, President
- 19 Enge. Mr. Jenkins?
- 20 MR. ROBERT JENKINS: Thank you, Mr.
- 21 Chair. It's Robert Jenkins, Aboriginal Affairs. What
- 22 we assessed was the project as put forward by the
- 23 Proponent in its Environmental Impact Statement: the
- 24 use of Kennady Lake as a water management pond, the
- 25 discharge downstream into Lake N11, and the proposed

- 1 objectives that were put forward by the Proponent.
- 2 And today we presented, essentially,
- 3 recommendations to the Board on water quality
- 4 objectives, as well as the -- put forward to the Board
- 5 that we feel that pollution prevention principles
- 6 should be applied and that the highest standard should
- 7 be achieved.
- 8 THE CHAIRPERSON: Thank you. President
- 9 Bill Enge...?
- MR. BILL ENGE: Yes, thank you, Mr.
- 11 Chairman. Mr. Chairman, yesterday during the hearing,
- 12 the Developer put on the table that they plan -- or,
- 13 they wish to put in place a water cleansing system by
- 14 cleansing water through different ponds and then
- 15 discharging it back into the water system. And they
- 16 also pointed out they do not wish to put in a water
- 17 treatment plant.
- 18 That, now, I under -- now, did the Crown
- 19 do any kind of an assessment of that proposal that the
- 20 Developer put on the table? Thank you.
- THE CHAIRPERSON: Thank you. Mr.
- 22 Jenkins...?
- 23
- 24 (BRIEF PAUSE)
- 25

- 1 MR. ROBERT JENKINS: Thank you, Mr.
- 2 Chair. It's Robert Jenkins, with Aboriginal Affairs.
- 3 The Proponent put forward the use of Kennady Lake and
- 4 the discharge into N11 and the establishment of
- 5 objectives, water quality objectives. And as I
- 6 mentioned in our presentation, we consider water
- 7 quality objectives the standard for water that will
- 8 protect the downstream use. And we provided a number
- 9 of recommendations to you today, Mr. Chair. And I -- I
- 10 won't go over those again.
- So in reality, if those objectives are
- 12 achieved, then the water downstream is being protected.
- 13 The manner in which that is conducted -- we heard
- 14 yesterday that if those objectives aren't achieved,
- 15 water treatment is a contingency option.
- 16 THE CHAIRPERSON: Thank you. Bill
- 17 Enge...?
- MR. BILL ENGE: Yes, thank you, Mr.
- 19 Chairman. What -- what puzzles me, Mr. Chairman, is
- 20 how are -- how are we to know whether or not the
- 21 Developer's system of cleansing the water is going to
- 22 work until it goes into operation? And by the time it
- 23 goes into operation, it'll be too late to put in the
- 24 water treatment plant.
- So I want to know if the Crown has taken

- 1 into consideration the practicalities of having a plan
- 2 B, a water treatment plant in place, before allow --
- 3 approving or -- this water cleansing system, should
- 4 something go haywire? Thank you, Mr. Chairman.
- 5 THE CHAIRPERSON: Thank you. Mr.
- 6 Jenkins...?
- 7 MR. ROBERT JENKINS: Thank you, Mr.
- 8 Chair. It's Robert Jenkins, with Aboriginal Affairs.
- 9 So as I described in our presentation, water quality
- 10 objectives that are standard for water that will
- 11 protect downstream use, those numbers -- and those
- 12 numbers will be defined when this project reaches the
- 13 regulatory phase -- will be back-calculated through the
- 14 mixing zone, as I described in my presentation, to come
- 15 up with the effluent quality criteria. Those are legal
- 16 limits. So those legal limits will have to be met
- 17 before water is discharged downstream.
- 18 And by doing that type of analysis and
- 19 that type of calculation, you will have your effluent
- 20 cri -- quality criteria set such that you will
- 21 inherently always meet your objectives downstream.
- 22 THE CHAIRPERSON: Thank you. President
- 23 Enge...?
- MR. BILL ENGE: Yes, thank you, Mr.
- 25 Chairman. I -- I still am befuddled by the Crown's

- 1 response, because I'm not hearing whether or not
- 2 they've taken into account any contingency plans,
- 3 should the water quality not reach its objectives.
- 4 So that being said, again, is the Crown
- 5 pre -- supportive of the model that the Developer
- 6 wishes to put in place before -- or -- and not -- and
- 7 not support having a water treatment plant put in place
- 8 as a plan B to ensure that, should something go wrong,
- 9 there's a way to ensure that the water quality
- 10 objectives are met? Thank you.
- 11 THE CHAIRPERSON: Thank you, Mr. Enge.
- 12 Mr. Jenkins...?
- MR. ROBERT JENKINS: Thank you, Mr.
- 14 Chair. It's Robert Jenkins, Aboriginal Affairs. To --
- 15 to hopefully provide a bit more context, the Proponent
- 16 will have legal limits, and they will not be allowed to
- 17 discharge effluent unless they meet those limits.
- 18 And so there's a num -- so the approach
- 19 that they put forward is to have a water management
- 20 pond and -- and to not discharge from that wat -- water
- 21 management pond until those criteria are met. So for
- 22 us, I mean, they will then be allowed to discharge.
- 23 They will meet their downstream objective. And so if -
- 24 if their downstream objective is met and their
- 25 criteria are met, then -- then that's good with us.

71 1 THE CHAIRPERSON: Thank you. President Enge...? MR. BILL ENGE: Thank you, Mr. 3 The -- the understanding I've -- I've come Chairman. away with, from what I just heard, is that they haven't taken into account the need for a plan B, that the only plan that the Crown is considering is letting the water 7 sit in a holding pond until it settles enough to -- to -- for them to say it's okay to discharge. 10 Now, having said that, I have another 11 question for the -- the Crown here. The Developer plans to flood the -- the pits as -- on a kind of a 13 progressive basis. Once the -- the Developer has 14 finished mining one pipe, they're going to backfill it 15 not only with the blast rock, but then cover it over 16 with -- cover it up -- or -- or flood it with water. 17 And during the blasting period, the 18 blast residue will actually remain in the pit. 19 water will then drain into -- the water will then -may release this -- these chemicals that are in the 21 pits. 22 Has the -- has the Crown determined that 23 the residue, chemical residues, that are going to be in 24 the pit when they're flooded are not going to be 25 released into the water system? Thank you.

- 1 THE CHAIRPERSON: Thank you. Mr.
- 2 Jenkins...?
- MR. ROBERT JENKINS: Thank you, Mr.
- 4 Chair. It's Robert Jenkins, with Aboriginal Affairs.
- 5 The Company, I think, will -- will put forward a lot of
- 6 things about their ammonia nitrate and their use. And
- 7 -- and I'm sure that they will put forward that they
- 8 will consider that -- or, the use of -- of the product
- 9 that they use will -- will not dissolve readily into
- 10 water. And there's -- there's materials that can be
- 11 used for that.
- 12 Again, I think that this is something
- 13 that we do need to monitor through the project. There
- 14 will be objectives for this. There will potentially be
- 15 criteria for this. And so I think that the management
- 16 system is set up to see if blast residues are getting
- 17 into the water. And what you do then through an
- 18 adaptive management process is if you're seeing that,
- 19 you implement mitigations.
- 20 THE CHAIRPERSON: Thank you. President
- 21 Enge...?
- MR. BILL ENGE: Thank you, Mr.
- 23 Chairman. I guess in my simple language, "adaptive
- 24 measures approaches" is a euphemism for, We'll try and
- 25 figure it out as we go along.

- 1 I'd like to know from the Crown exactly
- 2 what they would do in light of an ammonia nitrate
- 3 problem. How would they put in a mitigation regime
- 4 that would stop that poison from getting into the water
- 5 system? Thank you.
- THE CHAIRPERSON: Thank you. Mr.
- 7 Jenkins...?
- MR. ROBERT JENKINS: Thank you, Mr.
- 9 Chair. It's Robert Jenkins, Aboriginal Affairs.
- 10 Generally, these are addressed in blast management
- 11 plans in water licences in a level of detail. And
- 12 there are a number of contingencies evaluated,
- 13 assessed, and -- and put forward, step-wise process.
- 14 THE CHAIRPERSON: Thank you. President
- 15 Enge...?
- MR. BILL ENGE: Thank you, Mr.
- 17 Chairman. Has the Crown done that assessment and
- 18 analysis? And if so, why isn't it on the table today?
- 19 Thank you.
- THE CHAIRPERSON: Thank you. Mr.
- 21 Jenkins...?
- MR. ROBERT JENKINS: Thank you, Mr.
- 23 Chair. It's Robert Jenkins, Aboriginal Affairs. The
- 24 blast management plan, in that level of detail,
- 25 generally gets a -- addressed as you move into the --

- 1 the water licensing phase of the project. And so we're
- 2 -- it's -- it's a little premature at this point to
- 3 have that level of detail.
- 4 THE CHAIRPERSON: Thank you. President
- 5 Enge...?
- 6 MR. BILL ENGE: Thank you. Thank you,
- 7 Mr. Chairman. I'm -- I -- I quess I'm rather taken
- 8 aback by that response, because here we are in the --
- 9 in a -- in an adjudicated forum, trying to figure out
- 10 the pros and cons of approving this mine. And what the
- 11 Crown is coming up with is, Trust us, we'll figure it
- 12 out later. Trust us, we'll talk to you about it in the
- 13 water licence phase and, you know, don't worry about
- 14 it. All of that -- this is not the forum for it, you
- 15 know.
- 16 Mr. Chairman, I -- I'm really taken
- 17 aback by what I am hearing. But nonetheless, I -- I
- 18 think it speaks for itself, so I don't have any more
- 19 questions for the Crown.
- 20 THE CHAIRPERSON: Thank you, President
- 21 Bill Enge. Next on the list is Tlicho government.
- MR. HENRY ZOE: Henry Zoe, Tlicho
- 23 government. No questions at this time.
- 24 THE CHAIRPERSON: Thank you.
- 25 Yellowknives Dene First Nation...?

75 MR. TODD SLACK: Todd Slack, for the 1 Yellowknives Dene. I just have a -- a couple of questions here, and I'll try to phrase them as easy as I can. 5 The -- is it fair to say that AANDC has an important role within cumulative effects assessment 7 and monitoring? 8 THE CHAIRPERSON: Thank you. Mr. 9 Jenkins...? 10 MR. ROBERT JENKINS: Thank you, Mr. 11 Chair. It's Robert Jenkins. Yes, certainly in 12 monitoring, yes. 13 THE CHAIRPERSON: Thank you. 14 MR. TODD SLACK: So with that in mind, 15 can you tell us what regional studies and monitoring that AANDC has undertaken for the Bathurst caribou 16 herd, in light of all the concern that you've heard 17 18 over the last years? Say, since the imposition of the 19 harvesting restrictions? 20 THE CHAIRPERSON: Thank you. Mr. Jenkins...? 21 22 23 (BRIEF PAUSE) 24 25 MR. ROBERT JENKINS: Thank you, Mr.

- 1 Chair. It's Robert Jenkins, Aboriginal Affairs. My
- 2 understanding is that we funded five (5) or six (6)
- 3 studies through the cumulative impact monitoring
- 4 program to -- to look at aspects of this. If it
- 5 pleases the panel, we could submit details on that
- 6 through an undertaking.
- 7 MR. JOHN DONIHEE: It's John Donihee,
- 8 Board counsel. That's -- that's really up to Mr.
- 9 Slack; it was his question. If he wants the material
- 10 filed, if he'd like to indicate so, then we can
- 11 identify that as Undertaking number 1.
- 12 THE CHAIRPERSON: Mr. Slack, what is
- 13 your desire?
- 14 MR. TODD SLACK: Thanks, Mr. Chair.
- 15 And if it's okay with the Proponent, if he could just
- 16 submit the titles of that, perhaps by tomorrow morning?
- 17 THE CHAIRPERSON: Is the -- the deadline
- 18 for undertakings, what is the time frame?
- 19 MR. JOHN DONIHEE: It's John Donihee,
- 20 Board counsel. For anything that might take a while,
- 21 we had anticipated 14th of December. But if all we're
- 22 talking about it a list, I -- I assume Mr. Slack wants
- 23 it for other purposes during the hearing.
- 24 And so I guess the question for AANDC
- 25 would be: Can you produce a -- a simple list of these

77 studies by tomorrow morning, because why wait till the middle of December? 3 THE CHAIRPERSON: Thank you. Mr. Jenkins...? 5 MR. ROBERT JENKINS: Thank you, Mr. Chair. It's Robert Jenkins, Aboriginal Affairs. We could very quickly provide the entire list of the 7 studies, which would include those, if that -- that would meet this goal. I just want to note Mr. Slack 10 referred to us as the Proponent. I just want to make 11 it clear, we're not. 12 THE CHAIRPERSON: Thank you. So that's 13 Undertaking number 1, then? Thank you. 14 15 --- UNDERTAKING NO. 1: AANDC to provide, by December 7, 2012, a list of 16 17 CIMP projects related to 18 Bathurst caribou herd 19 20 THE CHAIRPERSON: Mr. -- Mr. Slack...? 21 MR. TODD SLACK: Thanks. I quess 22 that's a carryover from when you guys were speaking from -- for -- on behalf of Fortune. It's in the --24 it's in the re -- or, the record. And then, just as my last question, has AANDC developed an approach --

- 1 because the caribou aren't just NWT, has AANDC
- 2 developed any kind of cumulative effects approach to
- 3 help the GNWT and Nunavut work towards a cumulative
- 4 effects assessment and analysis?
- 5 THE CHAIRPERSON: Thank you, Mr. Slack.
- 6 Mr. Jenkins...?

7

8 (BRIEF PAUSE)

- 10 MR. MARC LANGE: Mr. Chairman, my name
- 11 is Marc Lange. I'm before you on my knees here to
- 12 answer this question for Mr. Slack, for the record. I
- 13 think Mr. Slack's question, Mr. Chairman, had to do
- 14 with an approach for a cumulative impact assessment and
- 15 monitoring for both the Northwest Territories and
- 16 Nunavut.
- 17 So as part of the cumulative impact
- 18 monitoring program, we're -- one (1) of our goals over
- 19 the next two (2), three (3) years is to have common
- 20 monitoring approaches for a lot of the priority valued
- 21 components; caribou, fish, and -- and water are our
- 22 three (3) priorities. And we are working with Nunavut
- 23 with their -- on a general monitoring program to
- 24 develop these common monitoring approaches. Thank you.
- THE CHAIRPERSON: Thank you. Mr.

79 Slack...? 2 MR. TODD SLACK: That's the end of my questions. Thank you. 3 THE CHAIRPERSON: Thank you very much. We move on to Environment Canada. 6 7 (BRIEF PAUSE) 9 MR. ERIK ALLEN: Thank you, Mr. Chair. It's Erik Allen, Environment Canada. We have no 10 questions at this time. 11 THE CHAIRPERSON: Thank you. Fisheries 12 13 and Oceans Canada...? 14 MS. BEV ROSS: Thank you, Mr. Chair. 15 Bev Ross, Fisheries and Oceans Canada. We have no 16 questions. 17 THE CHAIRPERSON: Thank you. Next is 18 the Government of the Northwest Territories. 19 MR. JOEL HOLDER: Good morning. Joel Holder, with the Government of the Northwest Territories. No questions at this time. 21 22 THE CHAIRPERSON: Thank you. Natural 23 Resources Canada...? 24 MR. JOHN KING: John King, Natural 25 Resources Canada. We have no questions. Thank you.

- 1 THE CHAIRPERSON: Thank you. Parks
- 2 Canada...?
- MS. ANN RONALD: Mr. Chair, Ann Ronald,
- 4 Parks Canada. No questions. Thank you.
- 5 THE CHAIRPERSON: Thank you. Transport
- 6 Canada...?
- 7 MR. MIKE MOLINSKI: Thank you, Mr.
- 8 Chair. Mike Molinski, Transport Canada. No questions.
- 9 THE CHAIRPERSON: Thank you. De Beers
- 10 Canada...?
- 11 MS. VERONICA CHISHOLM: Veronica
- 12 Chisholm, from De Beers. I just have a couple of
- 13 questions, and I think they'll be -- be fairly simple.
- 14 I -- I am hoping, Mr. Chair, that the representatives
- 15 from Aboriginal Affairs might be able to show me where,
- 16 or perhaps point me to the -- the location or show you,
- 17 where in the CCME quidelines it says that the -- the
- 18 use of baseline hardness, the exposure toxicity
- 19 modifying factors and -- and -- specifically, should be
- 20 based on historic rather than current water quality.
- 21 I'm just wondering if they could point
- 22 me in the right direction there, where it says that in
- 23 CCME?
- 24 THE CHAIRPERSON: Thank you. Mr.
- 25 Jenkins...?

81 1 (BRIEF PAUSE) 2 3 MR. NATHEN RICHEA: Thank you, Mr. Chair. It's Nathen Richea, with the Water Resources Division, Aboriginal Affairs and Northern Development Canada. There's a number of areas within CCME guidance that talk about using ambient water quality conditions 7 when deriving site-specific water quality objectives. I can name a couple quickly for the record. 10 Looking at CCME "Guidelines for the 11 Site-specific Application of Water Quality Guidelines 12 in Canada: Procedures for Deriving Numerical Water 13 Quality Guideline Objectives." 14 "Once the contaminants of potential 15 concern are identified, the available 16 water quality guidelines for each 17 substance and each water use are 18 compiled and modified to account for 19 the ambient water quality 20 characteristics of the water body. 21 Example: pH, water hardness, et 22 cetera." 23 That's page 17. Further, looking at 24 specific fact sheets for parameters of concern -- or 25 contaminants, I quess -- for cadmium there is a formula

- 1 that's used. If you go onto the website, it actually
- 2 asks for the input of the water body, the local water
- 3 body hardness. So those are two (2) examples.
- 4 THE CHAIRPERSON: Thank you. De Beers
- 5 Canada...?
- 6 MS. VERONICA CHISHOLM: Veronica
- 7 Chisholm, from De Beers. Thank you for that response.
- 8 I didn't quite get the answer to my question, but I'm -
- 9 I'm not going to pursue it. I was looking for where,
- 10 within CCME, or the Canadian Council for Ministers of
- 11 Environment, it indicates that a hardness value needed
- 12 to be a historic rather than a current water quality as
- 13 part of the -- the exposure toxicity modifying factors.
- But that's okay, I'm not going to pursue
- 15 it. I just didn't quite hear that, but that's fine.
- 16 So I just have a couple of other questions. Just one
- 17 second.

18

19 (BRIEF PAUSE)

- 21 MR. ROBERT JENKINS: Mr. Chair, it's
- 22 Robert Jenkins. If I could just add maybe something
- 23 while they're -- they're...
- 24 THE CHAIRPERSON: Sure, go ahead.
- MR. ROBERT JENKINS: I think another

- 1 thing that the guidance documents talk about a lot is -
- 2 is when you apply these modifying factors, you talk
- 3 about the local receiving environment. So you talk
- 4 about the chemistry that is. And what the Proponent
- 5 has put forward is sort of predicted -- essentially the
- 6 project will change hardness through time.
- 7 So what we're saying is that the
- 8 guidance documents refers to when you do those
- 9 calculations you refer to the local receiving waters,
- 10 and so we shouldn't be relying on the -- the
- 11 predictions of change through time.
- 12 THE CHAIRPERSON: I'm getting a little
- 13 confused now, and so you're going to have to help me
- 14 out a little bit.
- The question was CCME guidelines, and
- 16 you're referring to guidance documents that are
- 17 supporting the CCME main policy?
- 18 MR. ROBERT JENKINS: Yes, Mr. Chair.
- 19 Sorry, it's Robert Jenkins again. We are -- we are
- 20 talking about CCME quidance. There's a number of
- 21 documents put out by the CCME, including right down to
- 22 specific parameters, and a parameter being, just for
- 23 example, say, cadmium or mercury or lead, or something
- 24 like that. So each -- we're just saying in those
- 25 documents it often refers to local receiving waters.

- 1 THE CHAIRPERSON: Thank you. De Beers
- 2 Canada...?
- 3 MS. VERONICA CHISHOLM: Veronica
- 4 Chisholm, from De Beers. That's fine. I mean, mostly
- 5 I was looking for the time frame by which you would
- 6 consider the hardness, and -- and it may not exist
- 7 within CCME guidelines. But anyways, I'll -- I'll
- 8 carry on. I just have another -- another very quick
- 9 question. Just a point of clarification for Aboriginal
- 10 Affairs, Mr. Chair.
- 11 They -- they mentioned that the site-
- 12 specific water quality objectives would need to be
- 13 reviewed over the life of the project, and I believe
- 14 I've heard in there that it would be important perhaps
- 15 to consider those objectives as part of the aquatic
- 16 effects -- or, the development of the aquatic effects
- 17 monitoring program that we'll be developing during the
- 18 licensing phase.
- 19 So I'm just wondering if Aboriginal
- 20 Affairs could acknowledge that might be a key point to
- 21 finalize those objectives, since they are matched with
- 22 the monitoring program.
- THE CHAIRPERSON: Thank you. Mr.
- 24 Jenkins...?
- MR. ROBERT JENKINS: Thank you, Mr.

- 1 Chair. It's Robert Jenkins, Aboriginal Affairs. The
- 2 objectives will need to be finalized at some point
- 3 before you establish your effluent quality criteria,
- 4 because we will be working backwards through a mixing
- 5 zone. So -- and that is your legislative limit. So
- 6 that needs to be set such that you will meet your
- 7 downstream objective.
- 8 So once those are met, or -- or, sorry,
- 9 set, you will have your monitoring program. And what
- 10 you will do is you will essentially be monitoring and
- 11 have some sort of adaptive management framework that --
- 12 that -- you know, if you proceed towards your
- 13 objectives, what are you seeing. Are you seeing any
- 14 changes? Do you need to implement anything different?
- So I would think that, yes, you would --
- 16 you would have your objectives set in advance of -- you
- 17 know, you'd develop your margin program to ensure that
- 18 those objectives are doing what you want them to do and
- 19 they're providing the level of protection you wanted to
- 20 provide.
- 21 THE CHAIRPERSON: Thank you. De Beers
- 22 Canada...?
- 23 MS. VERONICA CHISHOLM: Veronica
- 24 Chisholm, from De Beers. Thank you. I think I -- we
- 25 did receive a bit of clarity there.

86 1 THE CHAIRPERSON: Thank you very much. I will now go to panel staff and technical advisers. 3 MR. CHUCK HUBERT: Mr. Chair, I'd like to turn the mic over to Dr. Kathy Racher. 5 THE CHAIRPERSON: Thank you. Proceed. 6 DR. KATHY RACHER: Kathy Racher, for 7 the panel. On page 5 of your technical report, it states that: 9 "AANDC is in general agreement with 10 the protocol used by De Beers to set 11 water quality objectives. However, 12 AANDC's concerned with several of the 13 assumptions used when implementing 14 the pro -- protocol. AANDC maintains 15 that increases in contaminant 16 concentrations in the receiving 17 environment should be minimized in 18 order to provide the greatest 19 confidence that impacts from the 20 project will also be minimized." 21 And I understand all the points on which you -- you disagree with the -- the protocol for 22 23 setting site-specific quality objectives for this 24 project. But I'm wondering, do you agree -- despite

that disagreement on that particular issue, do you

- 1 agree with De Beers's conclusions regarding no
- 2 significant effects as a result of mine related changes
- 3 to water quality?
- 4 THE CHAIRPERSON: Thank you. Before I
- 5 turn it over to Mr. Jenkins, we got to slow down a
- 6 little bit for translation. Thank you.
- 7 Mr. Jenkins...?
- 8 MR. ROBERT JENKINS: Thank you, Mr.
- 9 Chair. It's Robert Jenkins. If the narrative
- 10 statements that we put forward are met through
- 11 numerical objectives -- and I think that there still
- 12 needs to be some work done on what the actual amount
- 13 number falls upon -- then we feel that significant
- 14 adverse effects will not occur.
- THE CHAIRPERSON: Thank you.
- 16 DR. KATHY RACHER: Kathy Racher, for
- 17 the panel. Okay. Well, that brings me to your
- 18 narrative statements; in recommendation number 1 you
- 19 had a number of narrative statements. I am -- what I
- 20 didn't see in the report is where these narrative
- 21 statements, objectives, were meant to be applied.
- 22 Because an objective needs a value or -- which could be
- 23 a narrative value, but it also needs a location. And
- 24 I'm thinking, you know, obviously a number of these
- 25 wouldn't apply to Kennady Lake when it's being

- 1 dewatered, for example.
- 2 And could you provide some more clarity
- 3 on that?
- 4 THE CHAIRPERSON: Thank you. Mr.
- 5 Jenkins...?

6

7 (BRIEF PAUSE)

- 9 MR. ROBERT JENKINS: Thank you, Mr.
- 10 Chair. It's Robert Jenkins, Abor -- Aboriginal
- 11 Affairs. So just to be clear, you're asking us where
- 12 our statements would be applied, correct?
- THE CHAIRPERSON: Go ahead.
- 14 DR. KATHY RACHER: Kathy Racher, for
- 15 the panel. Yes. So what lakes, and I guess, for this
- 16 particular project, what phase of the project. Because
- 17 it's gonna depend on whether it's operations, closure,
- 18 post-closure. If -- I don't -- I don't know if you
- 19 know that answer today, and if you don't then I would
- 20 like to see some more clarity in your closing
- 21 statements on that. Because at the moment it's -- I
- 22 mean, the proponent is already predicted that there
- 23 will be changes to fish abundance, et cetera, so. Go
- 24 ahead.
- THE CHAIRPERSON: Thank you. Mr.

- 1 Jenkins...?
- MR. ROBERT JENKINS: Thank you, Mr.
- 3 Chair. It's Robert Jenkins. So, yeah, we had five (5)
- 4 statements, and I would think that the first four (4)
- 5 would apply to N11 at the edge of the initial dilution
- 6 zone during operations.
- 7 The last one, obviously very clearly,
- 8 speaks to reconnection of Kennady Lake, so that would
- 9 be at that point in time. But I would that, in
- 10 reality, once Kennady Lake is reconnected, that all
- 11 these statements could then apply in essence
- 12 downstream.
- 13 THE CHAIRPERSON: Thank you. Kathy
- 14 Racher...?
- DR. KATHY RACHER: Kathy Racher, for
- 16 the panel. Okay. Well, that's helpful. Again, I
- 17 would ask you in your closing statements to be more
- 18 specific on that, noting the changes to the trophic
- 19 levels that are anticipated and predicted for some of
- 20 the lakes downstream of Kennady -- Kennady itself and
- 21 then some of the lakes up to Lake 410, I guess, post-
- 22 closure. So, clarity on where they're supposed to
- 23 apply and what phases of the project specifically would
- 24 be very helpful.
- 25 Also, I mean, it -- it's confusing

- 1 because the effects on benthics, et cetera, are you --
- 2 are you talking about existing benthics or are you
- 3 talking about in -- in Kennady Lake post-closure, so
- 4 that kind of clarity would be helpful.
- 5 THE CHAIRPERSON: Thank you. Mr.
- 6 Jenkins...?
- 7 MR. ROBERT JENKINS: Thank you, Mr.
- 8 Chair. It's Robert Jenkins. Yes, I think --
- 9 acknowledged.
- 10 THE CHAIRPERSON: Thank you. Anything
- 11 more?
- DR. KATHY RACHER: Kathy Racher, for
- 13 the panel. Yes, I have two (2) more questions.
- 14 In your technical report section on
- 15 closure and reclamation you -- and -- and today you've
- 16 discussed a number of uncertainties in a number of De
- 17 Beers's predictions, including final water quality in
- 18 the water management pond and the formation of the
- 19 chemocline in the pits. And your recommendations talk
- 20 mostly about ensuring ongoing monitoring and -- and
- 21 research during the project life to reduce these
- 22 uncertainties prior to closure.
- 23 What -- but what is left unsaid is
- 24 whether you at least feel that the predictions that
- 25 have been made by the Proponent are reasonable based on

- 1 the information we have at this time. And therefore,
- 2 at least in respect to this particular issue, that it's
- 3 reasonable to go forward with the project based on the
- 4 predictions of being able to close the site and -- and
- 5 restore a self-sustaining ecosystem.
- THE CHAIRPERSON: Thank you. Mr.
- 7 Jenkins...?
- MR. ROBERT JENKINS: Thank you, Mr.
- 9 Chair. It's Robert Jenkins, Aboriginal Affairs. I
- 10 would say that what's put forward right now by the
- 11 Proponent is reasonable, but I think that we've got to
- 12 do quite a bit of work.
- We've got to ensure that reclamation and
- 14 research is done early on in the mine life to try to
- 15 solidify these, so that if things come up and the
- 16 predictions aren't as -- as, you know, what we thought
- 17 was going to turn out, that essentially there's time to
- 18 implement mitigation, implement adaptive management
- 19 early on so that you could deal with that.
- THE CHAIRPERSON: Thank you.
- DR. KATHY RACHER: Kathy Racher, for
- 22 the panel. I've been warned to speak slower. I have
- 23 one (1) more question and -- and it's possibly for Mr.
- 24 Lange.
- In the Tlicho government presentation

- 1 this morning they -- one (1) of the recommendations was
- 2 to advance the state-of-art assessment methodologies
- 3 for caribou. And earlier in another response to
- 4 another question Mr. Lange spoke about developing
- 5 protocols for monitoring with Nunavut, et cetera, as
- 6 part of the cumulative impact monitoring program goals.
- 7 And I'm just wondering if -- if that
- 8 program, the CIMP program, will be developing these
- 9 state-of-the-art assessment methodologies for caribou
- 10 and what kind of timeline you would be looking at if
- 11 that -- if that is in fact true?
- THE CHAIRPERSON: Thank you. Mr.
- 13 Jenkins...?
- 14 MR. MARC LANGE: Marc Lange, for
- 15 Aboriginal Affairs, on his knees again, Mr. Chair.
- 16 Yeah, in fact, we are going to be
- 17 working over the next couple of years to work on -- on
- 18 common approaches to monitoring, particularly in the
- 19 context of cumulative effects, and caribou will be one
- 20 of the priority areas that we're working with -- with
- 21 communities and GNWT.
- 22 But I'm -- I'm drawing a distinction
- 23 between a common approach for monitoring separate from
- 24 common approach to assessment. So the way we've carved
- 25 the cumulative impact monitoring program objectives

- 1 over the next five (5) years is to focus on monitoring
- 2 and let the good work of the boards and proponents do
- 3 the assessments, so the mashing of this monitoring
- 4 information to come up with a conclusion as to whether
- 5 or not there are impacts. So over the next little
- 6 while we'll be focussing on the monitoring approach.
- 7 THE CHAIRPERSON: Thank you.
- DR. KATHY RACHER: Kathy Racher, for
- 9 the panel. Thank you, that's -- that's all of my
- 10 questions. I think we'll pass it to -- to Terry.
- 11 Thanks.
- 12 MR. TERRY ANTONIUK: Terry Antoniuk.
- 13 Just to -- just to follow up on that. I -- I guess I
- 14 would suggest that there's actually at least three (3)
- 15 components to cumulative effects assessment and
- 16 management. You identified two (2) of them, which was
- 17 assessment and monitoring. So my question is -- is
- 18 specifically in terms of whether Aboriginal Affairs
- 19 Northern Development more broadly, or CIMP -- sorry,
- 20 cumulative impact monitoring program more specifically,
- 21 have anything -- have any initiatives planned to take a
- 22 look at the management objective or management
- 23 mitigation aspects of cumulative effects.
- 24 THE CHAIRPERSON: Thank you. Mr.
- 25 Jenkins...?

- 1 MR. ROBERT JENKINS: Just a moment, we
- 2 want to get him a chair this time.
- MR. MARC LANGE: Marc Lange. No, I'd -
- 4 I would agree Mr. Chairman with -- with the basis of
- 5 the question, that there's assessment, there's
- 6 monitoring, and then you've got to do something about
- 7 it, mitigating. And again, to be clear, for the next
- 8 five (5) years, our focus is on monitoring for the
- 9 cumulative impact monitoring program.
- 10 At some point -- so you may ask, why --
- 11 why are we cherry-picking and -- a very specific area
- 12 like a -- like a laser pointer. One -- there's a
- 13 couple reasons; we're not a very rich program, Mr.
- 14 Chairman. We don't have an -- an abun -- a huge
- 15 abundance of resources so we need to st -- to become
- 16 more strategic about how we spend our dollars. So --
- 17 so that's the one (1) aspect.
- The other aspect is, AANDC doesn't make
- 19 all decisions as to where the -- the program -- the
- 20 CIMP program goes. We -- we are governed a -- a --
- 21 with -- by a working group that advises on where we go.
- 22 So, we arrived at a five (5) year strategic plan
- 23 basically, and said, well, why don't we try to achieve
- 24 something we think we can achieve in five (5) years.
- 25 And that's focussing on monitoring at this point.

- 1 THE CHAIRPERSON: Thank you.
- 2 MR. TERRY ANTONIUK: Terry Antoniuk.
- 3 Just one (1) last question. We've heard in the last
- 4 couple of days about a -- a collaborative proposal
- 5 called Ni Hadi Yati, and there's a -- the intent of
- 6 that, as -- as we understand it at a very conceptual
- 7 level, is to -- to contribute to cumulative effects
- 8 monitoring and management within -- for De Beers
- 9 specifically and -- and I sense more broadly in the
- 10 diamond mining area.
- 11 Is a -- if there's a role identified for
- 12 Aboriginal Affairs and Northern Development as part of
- 13 this initiative, would you be willing to participate?
- 14 THE CHAIRPERSON: Thank you. Mr.
- 15 Jenkins...?
- MR. ROBERT JENKINS: Thank you, Mr.
- 17 Chair, it's Robert Jenkins, Aboriginal Affairs. I mean
- 18 I -- what was put forward yesterday I think is -- is
- 19 something we are really interested in. It's not very
- 20 often that you see agreement on -- on -- on a framework
- 21 moving forward, so, but it's still conceptual and that
- 22 was brought up again this morning by the Tlicho
- 23 government.
- 24 So I think right now it's still unclear
- 25 what our role is. We're definitely interested in, you

- 1 know, participating moving forward in -- in discussions
- 2 on -- on what our -- our role could be. And if there
- 3 is a role ultimately then -- then, you know, dependent
- 4 on resources and ensuring that it doesn't avoid
- 5 duplication with other mechanisms. We -- we're
- 6 definitely interested.
- 7 THE CHAIRPERSON: Thank you.
- MR. TERRY ANTONIUK: No further
- 9 questions.
- 10 THE CHAIRPERSON: Legal counsel...?
- MR. JOHN DONIHEE: Thank you, Mr.
- 12 Chairman. John Donihee, for the panel. I think I
- 13 have a couple of -- one (1) follow-up question and then
- 14 one (1) other. Mr. Lange, you said that the cumulative
- 15 impact monitoring program, CIMP, is going to be
- 16 focussing on monitoring over the next five (5) years.
- I guess, I -- I just want to be clear
- 18 about what you're saying. Does that mean that the
- 19 program is going to be attempting to identify more
- 20 effective techniques for conducting monitoring of
- 21 caribou and water? You know, is it -- is it that kind
- 22 of an exercise or are you actually going to be out --
- 23 or spending program dollars out on the ground
- 24 monitoring caribou, for example, either regionally or
- 25 locally in association with mines?

- 1 THE CHAIRPERSON: Thank you. Mr.
- 2 Jenkins...?
- 3 MR. MARC LANGE: Mr. Chairman, the
- 4 answer I think would be yes to -- to both. So we're --
- 5 we're -- and -- and maybe I'll add a little bit more
- 6 about monitoring right after. So, yeah, we are --
- 7 THE CHAIRPERSON: Excuse me, we're
- 8 slipping away from -- I asked Mr. Jenkins, and you --
- 9 you've got to identify yourself, for the -- for the
- 10 trans -- the transcriber, sorry.
- 11 MR. MARC LANGE: Sorry, Marc Lange is
- 12 answering the question. So we're -- we're focussing on
- 13 eve -- on effective techniques and on -- on the ground
- 14 monitoring. You'll get a glimpse of the kind of
- 15 monitoring activities on the ground that we've been
- 16 involved in when we file our undertaking. We're going
- 17 to actually show you what we've been doing for the last
- 18 ten (10) years or so with the titles list. But the
- 19 effective techniques is also what we're focussing on,
- 20 mostly to try to get common approaches between
- 21 proponents, between those who monitor.
- 22 I -- I probably overemphasized the CIMP
- 23 goal over the next five (5) years to focus only on
- 24 monitoring. We -- we have two (2) other aspects that
- 25 we're going to be focussing on. And that's monitoring

- 1 -- the ess -- analysis of this monitoring information
- 2 when we can, start putting it together. And then the
- 3 reporting of this information to decision makers like -
- 4 like this Board.
- 5 THE CHAIRPERSON: Thank you. Mr.
- 6 Donihee...?
- 7 MR. JOHN DONIHEE: Thank you, Mr.
- 8 Chairman. John Donihee. I -- I wonder if you can just
- 9 help, because we had the presentation yesterday about
- 10 the Ni Hadi Yati initiative. And certainly this
- 11 morning's presentation prior to yours from Tlicho
- 12 government gave every indication that they're going to
- 13 be depending on that initiative to address their
- 14 concerns about monitoring.
- So the -- the question I have is
- 16 whether, really, the kinds of monitoring being
- 17 suggested so far. And -- and we'll hear more, I
- 18 believe, later today and tomorrow from Lutsel K'e and
- 19 the Yellowknives Dene whe -- whether in fact CIMP's
- 20 resources -- by "CIMP", I mean the cumulative impact
- 21 monitoring program -- resources, are -- you know, are -
- 22 are they sufficient to be making a -- even a
- 23 substantial contribution to the kinds of monitoring
- 24 that's being proposed here? Or will the participants
- 25 in the Ni Hadi Yati initiative have to be looking else

- 1 -- elsewhere?
- 2 So what -- you know, how -- how much of
- 3 the load, I guess, can -- or do you think that your
- 4 program might be picking up?
- 5 THE CHAIRPERSON: Thank you, Mr.
- 6 Donihee. Marc, you -- who has got the question? Oh,
- 7 okay. Mr. Jenkins...?
- 8 MR. ROBERT JENKINS: Thank you, Mr.
- 9 Chair. It's Robert Jenkins, Aboriginal Affairs. What
- 10 we heard in the presentation -- and again, I think
- 11 there's a lot of details that need to be worked out,
- 12 but what we heard was that what was being requested of
- 13 government was not financial resources, rather in-kind
- 14 support.
- 15 So if -- if technical advisors are
- 16 available and -- and in the subject area of concern,
- 17 whatever it be -- they listed several plans that they
- 18 would be looking at through that initiative, that they
- 19 hoped that we would participate.
- 20 And so I think as I, you know,
- 21 previously mentioned that we're definitely interested
- 22 in discussions on what our role could be. We're still
- 23 thinking about what our role really could be in this
- 24 and -- and how that's not achieved through other, you
- 25 know, regulatory mechanisms. But we're definitely

100 interested in continuing those discussions. 2 THE CHAIRPERSON: Thank you. Mr. Donihee...? 3 MR. JOHN DONIHEE: Thank you, Mr. Chairman. John Donihee. I wonder if you could tell me what the annual budget for the CIMP program is? 7 THE CHAIRPERSON: Thank you. Mr. Jenkins...? 9 10 (BRIEF PAUSE) 11 12 MR. ROBERT JENKINS: Thank you, Mr. 13 Chair. It's Robert Jenkins, Aboriginal Affairs. I'm 14 told it's about 2 million a year. THE CHAIRPERSON: Thank you. 15 MR. JOHN DONIHEE: John Donihee. Thank 16 you, Mr. Chairman. Those are my questions. 17 18 THE CHAIRPERSON: Okay. Now we're 19 going to turn to the panel members. I'll start on this side. Panel member, Richard Mercredi...? 21 MR. RICHARD MERCREDI: Thank you, Mr. 22 Chair. And thank you for your presentation. No 23 questions. 24 THE CHAIRPERSON: Thank you. Peter 25 Bannon...?

101 1 MR. PETER BANNON: Thank you, Mr. Chair. I - - I do have a couple questions. The first one relates -- the -- they both actually relate to 3 water quality objectives but the first one is in reference to some of the phrases, the, you know, lowest possible and non-derogation (sic). And as an example, I -- you object to the use of a regional background as 7 opposed to a local background. 9 My -- the question for the -- AANDC is 10 have -- have they identified any adverse impacts that may occur or are likely to occur if the Proponent 11 12 should follow the protocol that they've suggested? 13 THE CHAIRPERSON: Thank you. Mr. 14 Jenkins...? 15 16 (BRIEF PAUSE) 17 18 MR. ROBERT JENKINS: Thank you, Mr. 19 Chair. It's Robert Jenkins, with Aboriginal Affairs. What we assessed was the protocol put forward by the 21 Company. And so in many instances the Company did have 22 a default to CCME quidance values. 23 And, you know, that -- that may in the 24 end be appropriate but those same guidance documents do 25 talk to principles of non-degradation. They do talk

- 1 about not -- you know, they talk about pristine waters
- 2 and -- and sort of in light of that non-degradation
- 3 principle.
- 4 So what we saw was that several
- 5 instances where maximum predicted -- predicted
- 6 concentrations were actually less than CCME, they were
- 7 above background but they were less than CCME. And
- 8 there was a default up. And so -- so I can't really
- 9 say whether or not they -- you know, we haven't
- 10 identified anything that the use of CCME would --
- 11 wouldn't -- would not prevent significant adverse
- 12 effects.
- But we've added another level of
- 14 conservatism to it in line with those guidance
- 15 documents that the -- the Proponent is using.
- 16 THE CHAIRPERSON: Thank you. Panel
- 17 member, Peter Bannon...?
- 18 MR. PETER BANNON: Thank you. That is
- 19 a good lead into my next question, and that -- in
- 20 relation to the CCME quidelines. And I acknowledge
- 21 that the government officials and others are probably
- 22 far more knowledgeable than I am about that, but I seem
- 23 to have a recollection that the use of noth -- the non-
- 24 derogation (sic) caution is more an exception rather
- 25 than the rule. And it's intended for special sensitive

- 1 areas and not the -- to be applied everywhere.
- 2 And am I mistaken in that regard, I'm
- 3 wondering?
- 4 THE CHAIRPERSON: Thank you. Mr.
- 5 Jenkins...?
- 6 MR. ROBERT JENKINS: Thank you, Mr.
- 7 Chair. It's Robert Jenkins, of Aboriginal Affairs.
- 8 The -- the actual quote from -- from the guidelines
- 9 themselves talk about for waters of superior quality
- 10 that support valuable biological resources the CCME
- 11 non-degradation policy states that the degradation of
- 12 the existing water quality should always be avoided or
- 13 minimized.
- 14 And so -- so we look at it as though in
- 15 essence the waters up here are pristine in nature.
- 16 There have been policy statements sent -- you know,
- 17 that have been released, that I quoted in my
- 18 presentation, which also talk about keeping the water
- 19 to the highest quality possible. So we feel that the -
- 20 the non-degradation policy would -- would apply here.
- THE CHAIRPERSON: Thank you. Panel
- 22 member, Peter Bannon...?
- 23 MR. PETER BANNON: I have one (1) last
- 24 question in that regard. Has a policy direction been
- 25 given from your Minister, or is there one (1) planned

- 1 for -- to the Land and Water Board just to adopt the
- 2 non-derogation rather than the -- the conventional use
- 3 of the CCME?
- 4 THE CHAIRPERSON: Thank you. Mr.
- 5 Jenkins...?
- 6 MR. ROBERT JENKINS: Thank you, Mr.
- 7 Chair. It's Robert Jenkins, Aboriginal Affairs. One
- 8 thing the Department is working on is -- is in response
- 9 to an Auditor General report. And the Auditor General
- 10 talked about how the Department should develop
- 11 standards for water.
- 12 And what they talked about in the sense
- 13 of standards was what we inferred as objectives. And
- 14 so we started doing some work on defining water quality
- 15 objectives throughout the North and how those will be
- 16 defined, in response to the Auditor General report.
- One mechanism to -- actually, the report
- 18 actually talked about that the Minister should do this
- 19 and -- and then they should -- he should -- he should
- 20 put this back to the boards. So right now we're --
- 21 we're working on that document. And I think mechanisms
- 22 of implementing it, policy direction is one. There's
- 23 really no -- there's really no -- nothing planned in
- 24 that regard right now, but essentially we're hoping to
- 25 have that guidance document to provide more clarity to

105 the boards, moving forward. 2 THE CHAIRPERSON: Thank you. Panel member, Peter Bannon...? 3 4 MR. PETER BANNON: Thank you. No more questions. 6 THE CHAIRPERSON: Panel member, James Wah-shee...? 7 MR. JAMES WAH-SHEE: Thank you, Mr. --I'd like to thank you for your presentation. I have no 10 questions. Thank you. 11 THE CHAIRPERSON: Thank you. Panel 12 member, Rachel Crapeau...? 13 MS. RACHEL CRAPEAU: Thank -- thank you 14 for your presentation. Masi cho. No question. THE CHAIRPERSON: Thank you. And the 15 Chair doesn't have any questions, so that concludes this portion of the agenda. Thank you very much for 17 18 your presentation. 19 We will move now to a dual presentation, 20 according to the agenda. I'm going to ask Transport 21 Canada and NRCan to come up to the front table. Thank 22 you. 23 24 (BRIEF PAUSE) 25

- 1 THE CHAIRPERSON: Okay. Panel members
- 2 are in the room. So we can begin the presentation.
- 3 And Transportation, I understand, is leading.

- 5 PRESENTATION BY TRANSPORT CANADA AND NRCAN:
- 6 MR. DALE KIRKLAND: Good morning, panel
- 7 Chair, Elders, ladies and gentlemen. My name is Dale
- 8 Kirkland, and I'm the Regional Manager of Environmental
- 9 Affairs for Transport Canada in the Prairie and
- 10 Northern region. Seated to my left is Ms. Shannon
- 11 Vollema. She is a regional officer with the Navigable
- 12 Waters Protection Program. Seated to my right is Mr.
- 13 Mike Molinski, and he's an environmental officer as
- 14 well within our Prairie and Northern region.
- We'd like to thank you for the
- 16 opportunity here today. Should it help with the flow
- 17 and timing, sir, we'd be more than willing to take
- 18 questions immediately following our presentation. Our
- 19 presentation is brief, and it will cover three (3) key
- 20 areas of interest to Transport Canada, noted by number
- 21 one (1), two (2) and three (3) there, following by some
- 22 closing remarks.
- 23 With respect to the water and access
- 24 roadway watercourse crossings, the Proponent has
- 25 identified several areas of the mine site where they

- 1 will need to use water management works as a part of
- 2 the development. These include, but are not limited
- 3 to, the encroachment on the Lake H1A outfall at the
- 4 east side of the air st -- east end of the air strip, a
- 5 freshwater intake located on the northwestern shore of
- 6 Area 8, and access roadways with watercourse crossings.
- 7 To this end, Transport Canada will be
- 8 able to fully assess potential impacts to navigation
- 9 once final design plans have been finalized and
- 10 applications are submitted for approval under the NWPA.
- 11 To this end, Transport Canada has made a recommendation
- 12 that De Beers submit application for approvals under
- 13 the NWPA as soon as final design details for these
- 14 components are completed.
- 15 Since filing this presentation to the
- 16 Board, Mr. Chair, De Beers has written to Transport
- 17 Canada on November 27th, of 2012, and has committed to
- 18 submit applications for these works once final designs
- 19 are completed.
- 20 With respect to Kennady Lake, Transport
- 21 Canada has identified that De Beers is proposing to
- 22 dewater a portion of the lake in order to deposit
- 23 tailings. As well, there's a number of works
- 24 associated with this proposal here, listed on the
- 25 slide.

- In addition, we have determined that
- 2 Kennady Lake is navigable and can -- we consider that
- 3 the deposit of tailings in that lake to be subject to
- 4 Section 22 of the NWPA. And, very briefly, Section 22
- 5 prohibits a person from depositing any material or
- 6 rubbish that is liable to sink in the bottom of any
- 7 water, any part of which is navigable or that flows
- 8 into any navigable water, where there are not at least
- 9 20 fathoms of water depth at all times.
- 10 In addition, Section 23 of the NWPA
- 11 provides that the Governor in Council, when it's shown
- 12 to be su -- shown to its satisfaction that the public
- 13 interest will not be injuriously affected, may by
- 14 proclamation declare that any reams -- any rivers,
- 15 streams, or waters in respect of which twenty-two (22)
- 16 of the NWT -- NWPA apply, or any parts that are exempt
- 17 in whole or in part from the operation of Section 22.
- 18 To this end, Transport Canada has made a
- 19 recommendation to De Beers that they submit an
- 20 application if it wishes to seek to a proclamation
- 21 exemption under Section 23 of the NWPA. In addition,
- 22 De Beers should inform Transport Canada of this as soon
- 23 as possible. And I'd like to emphasize in bullet
- 24 number 3 there on the slide that the proclamation of
- 25 exemption process and the EA process can run

- 1 concurrently.
- 2 And in -- again, as I noted before,
- 3 since we filed this presentation, sir, De Beers has
- 4 written to Transport Canada on November 27th and has --
- 5 informing their intention, advising us that they intend
- 6 to submit an application for a proclamation of exempt -
- 7 of exemption under Section 23.
- 8 On this slide number 9 here, aerodrome
- 9 safety, I'd like to point out to the panel and to our
- 10 participants here that this was not included within our
- 11 technical report. Nonetheless, I wanted to point out
- 12 that De Beers is proposing the construction of a
- 13 private airstrip. And we just wanted to make the
- 14 comment and recommendation here that De Beers should
- 15 adhere to the Aerodrome Standards and Recommended
- 16 Practices, TP312.
- 17 In conclusion, Transport Canada looks
- 18 forward to continued dialogue and cooperation with the
- 19 Board, other federal and territorial government
- 20 departments, stakeholders in the ongoing review of this
- 21 project.
- Two (2) other points I'd like to make
- 23 here is that on November 8th, De Beers provided a
- 24 response that's posted on the registry. And in that
- 25 response, De Beers has agreed to meet the

- 1 recommendations outlined in TC's technical submission.
- 2 And for the tird -- third time, I'm noting De Beers did
- 3 write to Transport Canada last week and did commit to
- 4 filing NWP applications as soon as the final plans are
- 5 completed and their intent to submit for a proclamation
- 6 of exemption under Section 23.
- 7 That's our presentation, sir. We'd be
- 8 happy to answer any questions in advance of our friends
- 9 from NR Canada, should it help your flow.
- 10 THE CHAIRPERSON: Thank you very much.
- 11 We -- I think we're going to stay with the agenda and
- 12 have the NRCan presentation next, and then we'll break
- 13 for lunch.

14

15 (BRIEF PAUSE)

- 17 THE CHAIRPERSON: If you're ready,
- 18 please proceed.
- 19 MR. JOHN KING: John King, Natural
- 20 Resources Canada. Thank you, Chairperson and panel
- 21 members.
- This presentation provides a summary of
- 23 NRCan's technical review for the Gahcho Kue project.
- 24 NRCan's permafrost expert, Dr. Sharon Smith, is here on
- 25 my right today and will present permafrost and terrain

- 1 stability results of NRCan's Gahcho Kue technical
- 2 review, which we submitted to the panel in October of
- 3 2012. And at any moment, Rob Johnstone will be on my
- 4 left.
- I am also hoping -- I don't have
- 6 confirmation of this; Dr. Nan Dave, I'm hoping, is on
- 7 the phone with us now and -- and that he would be
- 8 available to answer any questions that may -- if
- 9 required, that may arise relating to groundwater.
- 10 NRCan reviewers in the minerals and
- 11 metal sectors -- minerals and metals sciences focussed
- 12 on issues related to mine waste management, including
- 13 acid rock and mine drainage and metal leeching;
- 14 environmental hy -- hydro geochemistry; and mine
- 15 reclamation, decommissioning, and closure. NRCan
- 16 reviewers in the earth sciences focussed on issues in
- 17 the physical environment, including permafrost and
- 18 terrain sensitivity, geotechnical science, and bedrock
- 19 geology.
- 20 NRCan's technical participation -- I
- 21 don't need to go through this whole slide. It's just -
- 22 its purpose -- its purpose was to illustrate that
- 23 NRCan has been involved in all aspects of this review
- 24 from the review of the draft and final terms of
- 25 reference to the submission of the NRCan technical

- 1 report and -- and participation in the panel hearing
- 2 today.
- 3 NRCan's recommendations. During our
- 4 initial review of the Environmental Impact Statement
- 5 last year, NRCan indicated that additional information
- 6 was required to complete our technical review. NRCan
- 7 is appreciate of the additional information and
- 8 clarifications provided by the proponent in response to
- 9 our Information Requests and also during the
- 10 discussions at the May 2012 technical meeting.
- 11 NRCan's October technical report offers
- 12 recommendations for the panel's consideration that
- 13 provide guidance on factors that should be considered
- 14 in detailed and final project design and in subsequent
- 15 monitoring plans. These relate to two (2) issues.
- 16 Number 1, groundwater management from open-pit
- 17 developments, in particular monitoring, and number 2,
- 18 permafrost and terrain conditions, and stability of
- 19 project components; that is mine waste facilities and
- 20 water management facilities.
- 21 Groundwater from open-pit developments,
- 22 monitoring for dissolved radionuclides. Why is this
- 23 important? During pit dewatering operations,
- 24 groundwater flowing into open pits is expecting to
- 25 range from 770,000 metres cube -- cubed metres per year

- 1 at the end of construction in year 1, to about 1.5
- 2 million cubic metres per year in year 3 when total
- 3 inflow to the open pits reaches maximum.
- While a majority of the incoming
- 5 groundwater would be managed through the waste --
- 6 sorry, through the water management pond and recycled,
- 7 a portion of it would be to start -- discharged to Lake
- 8 N11. Kimberlite pipes and their contact rock may
- 9 contain uranium and thorium decay series radionuclides.
- 10 It is important to know the level of radionuclides
- 11 present. Monitoring groundwater for radionuclides is a
- 12 good management practice to verify that there is no
- 13 leaching and that concentrations remain at natural
- 14 background levels.
- 15 NRCan's views. NRCan had asked in an
- 16 information request, the First Round of information
- 17 requests, whether the deep formation groundwater had
- 18 been or would be tested for dissolved radionuclide's
- 19 components including uranium, thorium, and their decay
- 20 product such as radon gas. The Proponent responded
- 21 that while radionuclides were not analyzed in samples
- 22 collected during the 2010 EIS geochemical baseline data
- 23 provided in the 2012 EIS supplement, indicated that
- 24 uranium and thorium concentrations of processed
- 25 kimberlite in mine rock were close to normal or typical

- 1 crustal abundance levels.
- 2 Geochemical testing further indicated
- 3 that leaching of uranium and thorium from processed
- 4 kimberlite and mine rock was low and near or below
- 5 detection levels. In other words, uranium and thorium
- 6 are not readily leachable from various rock units or
- 7 the project.
- 8 The Proponent also responded that to
- 9 confirm radionucleides -- radionuclides are not
- 10 leachable in groundwater that could include monitoring
- 11 of those elements in their ongoing groundwater quality
- 12 monitoring programs. NRCan agrees with the Proponent's
- 13 commitment to confirm through monitoring that
- 14 radionuclides are not leachable in groundwater.
- 15 Therefore, we're -- as a recommendation,
- 16 in our technical report in October, we recommended that
- 17 the proponent include uranium, thorium ,and possibly
- 18 radium-226 as screening parameters as part of their
- 19 ongoing groundwater quality monitoring program. And
- 20 the proponent has indicated in their -- in their
- 21 response of November 7th that these parameters will be
- 22 included in their groundwater quality monitoring
- 23 program. And NRCan is satisfied with this response.
- I will now, at this -- at this stage --
- 25 the next slide, please -- I'll pass it over to Dr.

- 1 Sharon Smith who will cover the remainder of this
- 2 presentation. Thank you.
- 3 DR. SHARON SMITH: Hi. Good morning,
- 4 Mr. Chair and members of the panel. My name is Sharon
- 5 Smith. I'm a research scientist at the Geological
- 6 Survey of Canada, which is part of the Earth Science
- 7 sector of Natural Resources Canada.
- 8 So we reviewed the EIS from a geoscience
- 9 perspective, and today I'm going to give you a brief
- 10 summary of our submission that dealt with the stability
- 11 of project components, in particular, the mine waste
- 12 management fac -- facilities and the dams and dikes.
- 13 So I'll just say a little bit about what the issue is
- 14 that we looked at.
- The stability of engineered structures
- 16 including the processed kimberlite facilities, the
- 17 waste rock pile, and the dams and dikes, will depend on
- 18 the properties of the underlying foundation materials,
- 19 the design of these fac -- facilities and the
- 20 construction materials that are used. So we do need to
- 21 know something about the engineering properties of the
- 22 foundation materials on which these facilities will be
- 23 built. And in northern environments, where we can have
- 24 frozen ground or permafrost, we also have to be aware
- 25 of the thermal condition of the subsurface materials,

- 1 the ground ice conditions; and these all have to be
- 2 taken into consideration in the design.
- 3 And this is important that we have good
- 4 information about the foundation materials that we're
- 5 building on, so that we can ensure that the design of
- 6 these structures is appropriate, that the integrity of
- 7 these facilities will be maintained to ensure that they
- 8 perform as intended with minimal impacts on the
- 9 environment including impacts on water quality.
- 10 And as Mr. King mentioned, when we
- 11 conducted our review, we did find that we needed
- 12 further information and we did ask a number of
- 13 questions during the information request rounds, and
- 14 also during the technical session we had, I believe it
- 15 was last May. And I just want to say that the
- 16 information that was provided by De Beers, the detailed
- 17 responses, were very helpful in us understanding how
- 18 they came to their conclusions about environmental
- 19 impacts, and also gave us a better idea of the approach
- 20 that they are taking to their design.
- 21 So I'll just summerize briefly our main
- 22 -- the main points from our review. The -- now we do
- 23 agree with the proponent that the engineering -- that
- 24 these facilities can be designed appropriately to
- 25 ensure that there are no impacts on the environment;

- 1 and that the information that's been collected so far,
- 2 during the initial geotechnical investigations, is
- 3 sufficient at this stage, which would be the conceptual
- 4 and preliminary design stage, for both the processed
- 5 kimberlite and the various water management dams and
- 6 dikes.
- 7 The engineers from De Burs -- De Beers
- 8 have -- have recommended that further site specific
- 9 geotechnical investigations will be required to support
- 10 final design. And we support the approach that the
- 11 proponent is taking to the final design to do these
- 12 further investigations.
- Now, I mentioned earlier that we do have
- 14 to be concerned with the ground thermal conditions.
- 15 And in this area -- or -- wait, go back a little bit
- 16 here -- you can use the -- the strong frozen ground
- 17 conditions to make a strong foundation, and frozen
- 18 conditions may be used to limit seepage. However, in
- 19 this area, we have fairly warm permafrost conditions;
- 20 permafrost is about minus 2 1/2 degrees.
- 21 So the Proponent has decided to not rely
- 22 solely on frozen conditions to ensure the integrity of
- 23 dams and dikes and to prevent seepage. And we would
- 24 agree with that approach, to not rely solely on frozen
- 25 conditions.

- 1 However, frozen conditions do exist and
- 2 there is a potential for changing thermal conditions,
- 3 so that still must be considered in the design. So,
- 4 for example, some of the dams and dikes will be founded
- 5 on frozen ground, and the liners will be keyed into
- 6 permafrost. But it's important to -- to take into
- 7 account in the design, that those thermal conditions
- 8 may change. And we support the Proponent's proposed
- 9 approach for detailed design to evaluate further the
- 10 thermal performance of those permafrost foundations.
- 11 With respect to the processed kimberlite
- 12 facility, the kimberlite is going to be deposited in
- 13 layers. You can have frozen and unfrozen layers within
- 14 the pile. You can have freezing and thawing of the
- 15 material. And that can lead to things such as poor
- 16 water expulsion, frost heave, or thaw settlement which
- 17 can have implications for seepage and stability of the
- 18 kimberlite facilities.
- 19 Now, the Proponent has indicated that
- 20 they don't expect this to be an issue. However, we
- 21 would suggest that monitoring would be required to
- 22 ensure that there's no excessive deformation of the
- 23 pile and no issues with instability.
- 24 And that leads us to our
- 25 recommendations. So we've made some recommendations

- 1 for the panel's consideration, and these are for the
- 2 detailed and final design stage of the project.
- 3 So with respect to the dams and dikes,
- 4 particularly for those that are remaining at closure
- 5 such as Dike A1 and D, we would recommend that the
- 6 proponent conduct further geotechnical investigations
- 7 along the dike alignments so that they can better
- 8 characterize the foundation materials including their
- 9 thermal conditions. We also recommend that analysis be
- 10 conducted to evaluate the long-term thermal pro --
- 11 thermal behaviour of the permafrost foundations. And,
- 12 finally, that plans be developed to monitor the
- 13 stability of the dike foundations including their
- 14 thermal performance to determine if mitigation is
- 15 required.
- 16 For the processed kimberlite facility we
- 17 have one (1) recommendation. And this is -- that we
- 18 recommend that the Proponent develop monitoring plans
- 19 to assess the -- the condition of the processed
- 20 kimberlite pile and its stability to determine the need
- 21 for mitigation should there be any issues with
- 22 instability or deformation of the cover that might
- 23 affect its performance.
- In early November we received a response
- 25 from De Beers and they have indicated that they would

- 1 incorporate our recommendations into the further
- 2 geotechnical investigations, and analysis, and
- 3 monitoring plans that they will develop.
- 4 And, Mr. Chair, that concludes our
- 5 presentation. And we'd just like to say thank you. We
- 6 appreciate the opportunity of -- to be and speak to you
- 7 today.
- 8 THE CHAIRPERSON: Thank you very much.
- 9 Your timing is impeccable. It is noon -- noon hour.
- 10 And we will break until 1:15 and then we'll proceed
- 11 with questions to -- to the two (2) parties. So have a
- 12 good lunch and we'll see you back here at 1:15.

13

- 14 --- Upon recessing at 11:58 a.m.
- 15 --- Upon resuming at 1:15 p.m.

- 17 QUESTION PERIOD:
- 18 THE CHAIRPERSON: Good afternoon,
- 19 everyone. I hope everybody had a good lunch, a good
- 20 break. The panel is here. Rachel is at the back, so
- 21 she's in the room. And that -- that means we can get
- 22 started.
- We're at questioning from parties to
- 24 Transport Canada or NRCan. And we've allocated thirty-
- 25 five (35) minutes, so we'll see how we make out. And

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121
   I'll begin working my way down the list. So Akaitcho
   IMA Implementation Office...?
 3
                          (BRIEF PAUSE)
 5
 6
                  THE CHAIRPERSON: I don't see anybody.
 7
   The Dene Nation...?
 8
 9
                          (BRIEF PAUSE)
10
11
                  THE CHAIRPERSON: Deninu Kue First
12 Nations, do you have any comments on the last
13
  presentation?
14
15
                          (BRIEF PAUSE)
16
17
                  THE CHAIRPERSON: Okay. I'm going to
18 move on. Lutsel K'e Dene First Nation...?
19
20
                          (BRIEF PAUSE)
21
22
                  THE CHAIRPERSON: NWT -- oh, sorry.
23
                  MS. TERRY ENZOE: Hello. No comment.
                  THE CHAIRPERSON: Thank you very much.
24
25
                  MR. CHUCK HUBERT: Can you state your
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122 1 name, please? MS. TERRY ENZOE: Terry Enzoe, Lutsel 3 K'e Dene First Nation. THE CHAIRPERSON: Thank you. NWT Metis Nation...? 6 7 (BRIEF PAUSE) THE CHAIRPERSON: North Slave Metis 9 10 Alliance...? 11 MR. BILL ENGE: Yes, thank you, Mr. 12 Chairman. Bill Enge, President, North Slave Metis 13 Alliance. We have no questions of these presenters. 14 Thank you. 15 THE CHAIRPERSON: Thank you. Tlicho 16 government...? 17 MR. HENRY ZOE: Good afternoon, Mr. 18 Chair. Henry Zoe, Tlicho government. No comments at 19 this time. 20 THE CHAIRPERSON: Thank you. 21 Yellowknives Dene First Nation...? 22 MR. RANDY FREEMAN: Randy Freeman, 23 Yellowknives Dene First Nation. We have no questions. 24 THE CHAIRPERSON: Thank you. 25 Aboriginal Affairs and Northern Development...?

123 MR. FRANCIS JACKSON: Francis Jackson, 1 Aboriginal Affairs. No questions. 3 THE CHAIRPERSON: Thank you. Environment Canada...? 5 MR. ERIK ALLEN: Erik Allen, 6 Environment Canada. We have no questions at this time. 7 THE CHAIRPERSON: Thank you. Fisheries and Oceans...? 9 10 (BRIEF PAUSE) 11 12 THE CHAIRPERSON: Government of the 13 Northwest Territories...? 14 MR. GAVIN MORE: Gavin More, GNWT. No 15 questions. Thank you. THE CHAIRPERSON: Thank you. Parks 16 17 Canada...? 18 MS. ANN RONALD: Mr. Chair, Ann Ronald, 19 Parks Canada. We have no questions. Thank you. 20 THE CHAIRPERSON: Thank you. I'm just 21 going through my list and checking it twice, like 22 Santa. De Beers Canada...? 23 MS. VERONICA CHISHOLM: Veronica 24 Chisholm, from De Beers Canada. We'd like to thank Transport Canada and Natural Resources Canada for their

- 1 presentations, and we have no questions. Thank you.
- THE CHAIRPERSON: Thank you. Panel
- 3 staff and technical advisors...?
- 4 MR. CHUCK HUBERT: No questions, Mr.
- 5 Chair.
- 6 THE CHAIRPERSON: Thank you. Legal
- 7 counsel...?
- 8 MR. JOHN DONIHEE: John Donihee, for
- 9 the panel. I have no questions, Mr. Chairman.
- 10 THE CHAIRPERSON: Thank you. Panel
- 11 members, Rachel Crapeau...?
- MS. RACHEL CRAPEAU: Thank you for your
- 13 presentation before the lunch hour. I have no
- 14 questions at the moment. Thank you, Mr. Chair.
- 15 THE CHAIRPERSON: Thank you. Panel
- 16 member, James Wah-shee...?
- MR. JAMES WAH-SHEE: Thank you, Mr.
- 18 Chair. Thank you for the presentation, both
- 19 departments. It came pretty clear, so I really have no
- 20 questions. Thank you.
- 21 THE CHAIRPERSON: Thank you. Panel
- 22 member, Peter Bannon...?
- MR. PETER BANNON: Thank you, Mr.
- 24 Chair. I have no questions.
- THE CHAIRPERSON: Panel member, Richard

- 1 Mercredi...?
- MR. RICHARD MERCREDI: Thank you, Mr.
- 3 Chair. Thanks for the presentation from both parties.
- 4 No questions.
- 5 THE CHAIRPERSON: And the Chair has no
- 6 questions. So that concludes this section of the
- 7 agenda, and there's a chance you guys might catch a
- 8 plane. Good travels.
- 9 Next up on the agenda is Deninu Kue
- 10 presentation. So can we have the Deninu Kue
- 11 representatives come up and do the presentation,
- 12 please? Thank you.
- 13
- 14 (BRIEF PAUSE)
- 15
- 16 THE CHAIRPERSON: Good afternoon,
- 17 Patrick Simon. The floor is yours.
- 18
- 19 PRESENTATION BY DENINU KUE FIRST NATION:
- 20 MR. PATRICK SIMON: Thank you Mr.
- 21 Chairperson of the panel. I would like to begin by
- 22 thanking you for giving me this opportunity, thanking
- 23 the company for their time, and also the people in the
- 24 room for -- for being here. And it's only through us
- 25 all working together can we do good work and leave

- 1 great legacies.
- 2 So with that, I'd like to start by first
- 3 of all introducing myself. Good afternoon, my name is
- 4 Patrick Simon. I'm the Environment Manager with the
- 5 Deninu Kue First Nation. And this is my job and this
- 6 is what I have to do in -- in the Dene way and Dene
- 7 spirit. So I take that serious and hopefully my
- 8 presentation to you will be dignified, clear,
- 9 respectful, and helpful.
- The people I have with me are Councillor
- 11 Robert Sayine, as well as Councillor David Pierrot, and
- 12 of course, my Chief, Chief Louis Balsillie. Robert
- 13 will be sitting with me here this afternoon, and my
- 14 other leaders will just be a members of the -- the
- 15 public in show of support, not only for myself but for
- 16 everybody that has a vested interest here and potential
- 17 to avert anything that we don't want negatively
- 18 happening.
- 19 I also have with me on the -- the phone,
- 20 who will -- who will finish off my presentation, Dr.
- 21 Elmar Plate. He's a technical adviser from LGL
- 22 Limited. And he'll finish off my presentation and
- 23 speak to the technical water iss -- issues.
- 24 So the people that we have assembled
- 25 before you are very aware of the people in this room.

- 1 We're very aware of our place and our purpose in this
- 2 room. And we're -- we're hoping that -- that when we
- 3 do finish, that you can find things that are useful to
- 4 be able to do a good job here.
- 5 But we are people, and I myself am a
- 6 direct descendant of a treaty signatory, treaty -- and
- 7 Robert is also -- of Chief Snoff (phonetic). My Chief
- 8 and my council who are present are direct descendants
- 9 to Chief Edjericon. And -- and of course, we're --
- 10 we're related to the other signatory on the -- on the
- 11 other side of the lake that -- that signed the treaty
- 12 that I'm speaking about, Treaty 8 Adhesion 1900.
- So I will begin. I'm here because of
- 14 two (2) things: because the people of Deninu Kue First
- 15 Nation has an ancient, holistic, old and modern
- 16 relationship with this area where this project is
- 17 proposed to be developed. We have the majority of the
- 18 signatures in Treaty 8 of 1900. In fact, we have a
- 19 relationship with all of the lands, waters, and air
- 20 that we are blessed with and have responsibility for to
- 21 our people -- in fact, all people -- and to our
- 22 Creator.
- 23 This is known as the traditional
- 24 territory and duty of the Dene of the Deninu Kue First
- 25 Nation. This is why we are here. For us, if you come

- 1 to our territory, you have to understand a couple of
- 2 concepts, that our definitions are different and it
- 3 takes a while to understand us. So if you come to an
- 4 area that we occupy and live on, and we're there, well,
- 5 it's pretty obvious that we're there.
- 6 But if you come to the territories and
- 7 you don't see us there, I can see where you can assume
- 8 that we're not there, so it's not us and we'll never be
- 9 there. But my people are an old and ancient people.
- 10 We're -- we're really old. We are part of this thing
- 11 called the Athabascan Dene tribes. And -- and I'm very
- 12 much aware of that. Because I am the ancestor of
- 13 Geronimo, to be honest with you. Geronimo comes from
- 14 our people. That's how ancient we are.
- 15 And we understand these concepts, these
- 16 ways of living in the land. And we understand it in
- 17 the Dene way, in an old, ancient way. We know about
- 18 such things as the Mayan effect. I'm not sure if
- 19 that's a word. I may have just made it up. But this
- 20 Mayan effect where, when I look at the history and
- 21 study peoples, I found that certain people have grown
- 22 so big and used so many resources that they practically
- 23 ate themselves to death. And that's what I call the
- 24 Mayan effect.
- Well, my people have been here from the

- 1 beginning. We're here now. We plan to be here
- 2 forever, because we understand these basic concepts and
- 3 we live accordingly. And that's why it's important to
- 4 understand us and understand that if I'm not here, it
- 5 doesn't mean that I -- I don't use this area. It
- 6 doesn't mean that I don't have use of this area. And
- 7 it doesn't mean that this area isn't important to
- 8 sustain me, because of the basic understanding of the
- 9 Mayan concept.
- 10 So there'll be no lost tribes like the
- 11 Mayan people here. The Dene people are here. They'll
- 12 be here forever, because we understand how to live in a
- 13 cycle and in balance with this land. And it's a
- 14 challenge to articulate so people could understand and
- 15 perhaps incorporate it when we begin to develop this
- 16 territory.
- 17 So the ethno-history report that we will
- 18 have completed by the end of December will clearly
- 19 demonstrate this by using our traditional knowledge and
- 20 long-standing history; also church documents, Indian
- 21 Affair documents, trading company reports, academic
- 22 reports, and personal written accounts of earlier
- 23 travellers.
- In fact, a lot of things I learned from
- 25 reading. I love to read. And -- and to be honest, I

- 1 always see these kinds of people they say in those
- 2 written accounts. And -- and as I began to learn they
- 3 were talking about me, I'm those persons. So it's
- 4 pretty obvious when you look at those things, this is
- 5 known within the written documentation of the Canadian
- 6 way.
- 7 But the Dene people of this area that we
- 8 have had histories with -- the traditional users, the
- 9 First Nation users of this area and around it
- 10 throughout history -- they know us. They know us
- 11 through their traditional knowledge, they know us
- 12 through their personal history, and they know us
- 13 through their relationships.
- 14 As a matter of fact, I was in Deline.
- 15 And just by standing at the commissary at the arena,
- 16 the Elders there could pick my grandfather out by the
- 17 back and shape of my head. And then I went on to Fort
- 18 Rae, and I was told by the Fort Rae Elders that my
- 19 uncle and my grandfather hunted, trapped, and travelled
- 20 with them all the way up. This is how I know. I don't
- 21 need to make a big study to know that, because we know
- 22 each other and we talk to each other. We treat each
- 23 other in such -- that way, so I expect to be treated by
- 24 everybody in this room that way.
- 25 This is a primary area of the Chipewyan

- 1 Yellowknives Dene. We honour that Dene. We are that
- 2 caribou eater. We are that Yellowknives. We are the
- 3 Dene who live in Yellowknife. We are the Dene who live
- 4 in Lutsel K'e. We are the Dene who not only live in
- 5 Fort Resolution, but we consider ourselves from all
- 6 these areas, as well as Little and Big Buffalo River,
- 7 Jean River, Rush River, Taltson River, Simpson Islands,
- 8 and points northeast of the Big Lake, all the way to
- 9 the barren lands.
- 10 That is why we are here today, because
- 11 of our relationship, our expertise, our responsibility,
- 12 and our concerns we have for this project and all
- 13 diamond mining in general. This mine will impact the
- 14 Dene of the Deninu Kue environmentally, spiritually,
- 15 culturally, and economically. Environmentally, what is
- 16 the impact of air emissions and diamond mine loads on
- 17 caribou food and movement?
- 18 You know, as I look at this thing, I'm
- 19 envisioning mines from the lake all the way to the
- 20 ocean, straight across. We are caribou eaters. We
- 21 used to live with caribou. We sustain ourselves.
- 22 Caribou used to come right to the bay in Fort Res.
- 23 That's the stories I grew up with. And ever since we
- 24 have this thing we called modern development, the
- 25 caribou have been moving away.

- I signed my treaty so I can have that
- 2 caribou. And if I'm impacted, that treaty speaks to
- 3 dealing with me in a certain manner. And we have not
- 4 been dealt that way.
- 5 Am I going to have any more caribou? I
- 6 get it less now, and nobody is even thinking about it.
- 7 It's time to think about it. We're serious, ancient,
- 8 old people, and sooner or later our patience is going
- 9 to run out. If you think the liability issue now is
- 10 great, wait until my patience run out.
- 11 What is the cumulative impact? This is
- 12 what we need to know and monitor when it comes to
- 13 caribou. You know, we -- like I said, we've lost a lot
- 14 of access to caribou, and we feel that these -- these
- 15 projects impact us that way.
- 16 We can -- we are concerned about taking
- 17 a big lake and completely using it all completely
- 18 using it all. Fish and water quality and quantity will
- 19 definitely be impacted. There will be some mitigation,
- 20 compensation, and reclamation. But really, it will be
- 21 forever changed in that area. And if something big or
- 22 bad was to happen, then our main lake is threatened.
- Because we're old people, we know how
- 24 things relate around here. And that's a real
- 25 possibility if we don't do these things right. And

- 1 that's why we support things such as this monitoring
- 2 presentation. That's why we want to work together in
- 3 the spirit of doing things the right way the first
- 4 time, and not being so proud that we can't own up to
- 5 our mistakes, change our mind, and do it better.
- 6 So we are concerned about water
- 7 treatment plant or no water treatment plant. What does
- 8 that really mean, in terms of making sure there's
- 9 safety? You know, sure we're just talking about
- 10 sediments in the -- in water, and them underground.
- 11 But we're also blasting. We're also running fuel.
- 12 There's dust, emissions. It's all going to fall in
- 13 that water.
- 14 And just holding it there -- when I was
- 15 a kid dilution was a solution to pollution. But I grew
- 16 up reading that book, "Silent Spring", so I know that
- 17 dilution is not the solution. I know that we have to
- 18 take steps, we have to recognize that science is now
- 19 beginning to recognize that it's not only physical and
- 20 chemical; it's biological. It's a living, real,
- 21 breathing relationship of everything.

22

23 (BRIEF PAUSE)

24

MR. PATRICK SIMON: We are concerned

- 1 about how you handle the fish, about how much fish is
- 2 there, and the compenproach -- the compensation
- 3 approaches. And the method to do that must reflect our
- 4 needs, our views, our values.
- 5 I was raised never to -- to hit animals,
- 6 or kick them, or touch them. I was raised in a way
- 7 that we had to treat animals in a proper way. And
- 8 that's why it's important. And if we don't, the
- 9 animals will go away because we don't deserve to have
- 10 them. And that's why it's important. And that's why
- 11 it's important.
- 12 It's just not about counting fish and
- 13 giving it to people. It's about how you deal with that
- 14 lake, how you handle that fish, how you treat it, what
- 15 do you talk about, what do you think about when you're
- 16 doing, because it's a very important, sacred
- 17 relationship we have. And like I said, we know about
- 18 the Mayan effect.
- 19 We get less caribou now. Will we get
- 20 less water? Will we get less fish? That is why it's
- 21 important for us to be involved in the whole life of
- 22 the mine in a monitoring way that will all together
- 23 approach this. It's how we can be assured that our
- 24 concerns and accommodations are proper and respectful
- 25 to our treaty.

- 1 Our environmental concerns also range
- 2 from: How come, as we discuss a lot about these mines,
- 3 we just, in fact, consider the road a given. The
- 4 road's not a given. It's a big factor to the impact.
- 5 And that's something that, you know, you'd think the
- 6 more mines, the more discussion on the road.
- 7 But I'm seeing the more mines, the less
- 8 discussion on the road. So you just figure, Well, that
- 9 road just -- that road is important, and we need to
- 10 have a serious discussion about it. And people just
- 11 can't say, Well, it's there, I could use it, and -- you
- 12 know.
- Every time it's going to be used for a
- 14 different way, we have to have serious discussions
- 15 about it because I don't get caribou anymore. And I'm
- 16 getting tired of travelling far distances, you know.
- 17 Nobody's paying -- the Minister didn't give us any
- 18 caribou. It gave us a little bit money to go and
- 19 access caribou, but that didn't compensate nothing. So
- 20 we have to have some serious discussions.
- 21 Spiritually, we have a spiritual
- 22 connection and relationship to this area. Our
- 23 documents will show it when we present it in December.
- 24 Spiritually, we recognize that other people have
- 25 connections, so we travel with them, we celebrate. You

- 1 know, whenever we get the chance, we're up by Lady by
- 2 the Falls or on the east arm, with the people of
- 3 Snowdrift, the people of Yellowknives, and even
- 4 sometimes the people of Tlicho. And -- and we love
- 5 that. We have some in our area, and sometimes they
- 6 come down to our area.
- 7 So it's a spiritual way. This project
- 8 is close to a sacred area, so you'll have to understand
- 9 that. And people, such as the people of Lutsel K'e,
- 10 they take that serious, and so do we.
- 11 Culturally, we have stories and past
- 12 histories of the area. We have and current --
- 13 currently still use the area for travelling to get
- 14 caribou, for fish, for water, for berries, for
- 15 medicine, for fur. Every mine proposed, if done wrong,
- 16 doesn't consider us, seems to flatten this topic, this
- 17 very relationship here.
- 18 Economically -- economically, I'm not
- 19 going to cover that too much, because I get a little
- 20 emotional. And it's -- you know, I'm an environment
- 21 guy, so I shouldn't be too emotional with economy. But
- 22 money runs the world. And economically, our tradition,
- 23 our history, your history, your courts, our treaty
- 24 speaks to us as Dene living off the land, water, and
- 25 air. It speaks about and guards our primary needs, our

- 1 concerns, our duties, and our rights of this area.
- There will be impact. So therefore,
- 3 there will have to be reasonable consultation,
- 4 reasonable involvement, and reasonable benefits for the
- 5 life of the mine. We will not have access to that
- 6 area. We will not have the fish of the area, and our
- 7 main lake may even been in danger.
- 8 We look to government, the Company,
- 9 other First Nations to recognize us, to accept us,
- 10 involve us, and share in all the benefits of this
- 11 project can give the Dene of this area. We will be
- 12 assertive -- I should, like -- we'll be assertive when
- 13 it comes to this, but we will be respectful, we will be
- 14 helpful, and we will be dignified when we deal with the
- 15 whole issue from beginning to end.
- 16 Now, I'd like to introduce on the phone
- 17 Dr. Elmar Plate, who will cover some of our technical
- 18 aspects and concerns and issues and some of our helpful
- 19 hints.
- So, Elmar, if you're there?
- 21 DR. ELMAR PLATE: Yes, I am there.
- 22 Thank you very much for the introduction, Patrick. So,
- 23 good afternoon, Mr. Chair; good afternoon, listeners.
- 24 I'm going to give a quick presentation about a subject
- 25 that has gone back and forth between De Beers Canada

- 1 and the Deninu Kue for a while now. And that's about
- 2 the -- if you -- I don't know whether you actually have
- 3 the slide show, the PowerPoint right in front of you.
- If you could please let me know that,
- 5 Mr. Chair?
- 6 THE CHAIRPERSON: Yes, this is the
- 7 Chair with a mouthful. We do.
- DR. ELMAR PLATE: Good, thank you, Mr.
- 9 Chair. So Elmar Plate from LGL again. So if you can
- 10 go to the first slide, titled "Reason For
- 11 Presentation," that would be great.
- 12 What happened is between De Beers and --
- 13 and us and LGL is that we ran into this issue that we
- 14 saw that the fish population wasn't quite properly
- 15 assessed. And in regard to that, we came up with an
- 16 information request.
- 17 De Beers answered, and we had to go a
- 18 little deeper and had another information request. De
- 19 Beers answered again. We had to go a little bit deeper
- 20 again. And I think now we're to the bottom of this,
- 21 down to the nitty-gritty stuff. And that's a summary,
- 22 basically, of the nitty-gritty stuff that I'm giving
- 23 you now.
- In summary, we still think that the fish
- 25 population of Kennady Lake has not been properly

139 enumerated. And, therefore, we think that the baseline fish population data has not been provided. And we think that's an important part of this EIS process. 3 If you can please go to the next slide. 4 5 MR. BILL ENGE: Mr. Chair, can I interrupt for a minute, please? Can you have that slide clarified, because we can't see it. It needs to be focussed. THE CHAIRPERSON: Okay, just a -- a 9 10 second. Who ha -- who has the projector? Who can 11 focus that projector? 12 13 (BRIEF PAUSE) 14 15 THE CHAIRPERSON: Mr. Enge's comment is 16 exactly right. I can't -- I can't read it. 17 18 (BRIEF PAUSE) 19 20 MR. BILL ENGE: Mr. Chairman, I'm 21 wondering if you could also ask the technician to 22 enlarge the slide so that the bullets can be seen? 23 Thank you. 24 THE CHAIRPERSON: Thank you, Mr. Enge. Who -- who is looking after this part? Who -- who can

- 1 handle this? Can we make it bigger?
- 2 MR. CHUCK HUBERT: Chuck Hubert, Mr.
- 3 Chair. We don't have the PowerPoint presentation. We
- 4 only have a PDF. So we're not able to enlarge or --
- 5 or, yeah, make it -- make it bigger, unfortunately.
- 6 THE CHAIRPERSON: Can we get copies and
- 7 make it available to --
- 8 MR. CHUCK HUBERT: Well, I lied. There
- 9 you go.
- 10 THE CHAIRPERSON: Okay, it look...
- 11
- 12 (BRIEF PAUSE)
- 13
- 14 THE CHAIRPERSON: Okay, thank you,
- 15 Patrick. Elmar, you're on the phone. We could -- can
- 16 you hear us? We've got --
- DR. ELMAR PLATE: I can hear you, yeah.
- THE CHAIRPERSON: We've got a better
- 19 slide now. Can you please talk a little slower so that
- 20 the translators can keep up? Thank you.
- DR. ELMAR PLATE: Yeah, Elmar Plate,
- 22 from LGL. I will do that. I will talk slower.
- So the slide that you should be looking
- 24 at, that I'm looking at, is the slide titled, "Reason
- 25 for Presentation." And I can repeat one (1) more time.

- 1 The -- we still think that the fish population of
- 2 Kennady Lake has not been properly enumerated. And we
- 3 also think that, therefore, the baseline fish
- 4 population for the whole project has not been provided.
- 5 And I'm now going to the next slide.
- 6 And it's called "Hydroacoustic Settings." And now I'm
- 7 going right into the nitty-gritty stuff. And what I'm
- 8 referring to here as a source is the Addendum JJ,
- 9 JJ3.4-1, page JJ3-21, titled "Table of Parameters."
- 10 And this shows the settings of the
- 11 hydroacoustic setup while the hydroacoustic service
- 12 were carried out. And what you can see there was that
- 13 the ping rate was set to five (5) pings a second. This
- 14 is highly technical, but I think you will see in a
- 15 minute why I'm bringing this up.
- 16 At a speed of 1.5 metres per second,
- 17 that means distance travelled between each ping is .3
- 18 metres. And there's a formula that you can put those
- 19 variables into and then arrive at a depth where you
- 20 would reliably be able to detect fish. And if we use
- 21 this formula, we see that from depth of greater than 7
- 22 metres on, there's enough overlap between two (2) pings
- 23 to reliably detect fish. We call it a reliable
- 24 detection if you get three (3) pings onto one (1) fish.
- 25 If the ping rate at this would be --

- 1 would have been higher, which is technically easily
- 2 doable, then the depth that the fish could have been
- 3 detected at would have been much shallower, much closer
- 4 to the boat. So that's point number 1.
- 5 Then I looked at the pulse width, and
- 6 it's set to .4 metre -- milliseconds. And again,
- 7 there's a formula for that. And if you calculate, that
- 8 means that the separation between individual fish at
- 9 this setting would be .4 metres, or 40 centimetres.
- 10 That means, usually, small fish, a school, or quite
- 11 often a school. And you would only be able to detect
- 12 them as single fish if they would be further than 40
- 13 centimetres away from each other. Okay, so those are
- 14 the hydroacoustic settings that we reviewed.
- Go to the next slide, it's titled
- 16 "Hydroacoustics: Nighttime Versus Daytime, Number 1."
- 17 What you can see here is a figure out of a paper that
- 18 was published in 2007. And this is the outline of a
- 19 lake and those lines with circles on them are the
- 20 transects that were used to conduct the hydroacoustic
- 21 survey in this study.
- 22 And the upper two (2) lake outlines show
- 23 the results at night. And the bigger the circle, the
- 24 more fish were detected. The lower four (4) outlines
- 25 of the lake show the nighttime results. The left

- 1 panels all show the shallower water, from 1 to 12
- 2 metre; the right panel show the deeper water, from 12
- 3 to 30 metres.
- If you take a second to just take a
- 5 closer look, you can see that during daytime way less
- 6 fish are detected than during nighttime. This is
- 7 particular true -- well, it's actually true for all
- 8 depths, for shallow water and for deep water.
- 9 So now I'm going to go to the next
- 10 slide. It's titled "Hydroacoustics: Nighttime Versus
- 11 Daytime, Number 2." And in the table that you see you
- 12 can see a few more examples out of the literature.
- 13 It's a bit biassed; some of the literature is studies
- 14 that we did ourselves. But then below the table I'm
- 15 citing studies from people that have way more
- 16 experience than I have.
- 17 But let's just look quickly at the
- 18 table. What you can see here are a comparison between
- 19 daytime densities and nighttime densities during
- 20 hydroacoustic surveys. And I chose particularly lakes
- 21 that have very, very low density of fish and lakes that
- 22 have very, very low productivity. Quite similar to con
- 23 -- conditions in Kennady Lake.
- So in each example you can see that the
- 25 daytime, twenty (20) fish per hectare; nighttime, a

- 1 hundred and three (103) fish per hectare. Same day,
- 2 just during the day and during the night. The next
- 3 example: twelve (12) fish per hectare during the day;
- 4 next -- the same night, following night, sixty (60)
- 5 fish per hectare. Next one: thirteen (13) fish per
- 6 hectare during the day; nighttime density, eighty-five
- 7 (85) fish per hectare.
- In one (1) example it was only about two
- 9 and a half (2 1/2) times more to three (3) times, a
- 10 hundred and sixteen (116) fish per hectare, two hundred
- 11 and eighty-nine (289) fish at nighttime. So this shows
- 12 you the last paper. All those examples show you that
- 13 nighttime densities are regularly much higher than
- 14 daytime densities if you use hydroacoustics as a
- 15 technique.
- 16 I also want to quote from a paper from
- 17 two (2) authors that have thirty-four (34) years of
- 18 hydroacoustic experience. And that's all they do
- 19 basically; they work for the Department of Fisheries
- 20 and Oceans, MacLellan and Hume. And they published a
- 21 manual for hydroacoustic surveys that's widely
- 22 acknowledge as the manual that everybody goes by,
- 23 because it's based on hundreds of hydroacoustic
- 24 surveys.
- 25 And in this manual they say:

| 1 | "All hydroacoustic sampling and |
|----|---|
| 2 | trawling for estimate estimating |
| 3 | abundance was done at night, after |
| 4 | fish schools had dispersed and fish |
| 5 | tended to be closer to the surface |
| 6 | and more accessible to both |
| 7 | hydroacoustics and trawling." |
| 8 | And besides their own experience, |
| 9 | they're also quoting two (2) more papers. A little bit |
| 10 | further in the same paragraph, they say: |
| 11 | "Even suggested we even suggested |
| 12 | against partial moonlight during |
| 13 | surveys." |
| 14 | That shows you the importance that's |
| 15 | posed here on any kind of light biassing hydroacoustics |
| 16 | surveys. |
| 17 | Okay, I'm going to the next slide. It's |
| 18 | titled "Hydroacoustics: Nighttime Versus Daytime, |
| 19 | Number 3." In the response to our information request |
| 20 | request, Golder Associates referred to a peer- |
| 21 | reviewed paper that justified that daylight |
| 22 | hydroacoustics surveys are suitable to describe fish |
| 23 | populations, especially in high-latitude lakes. |
| 24 | So we looked into the lake that was |
| 25 | actually used in this paper as an example. And Hole |

- 1 Lake, that's the lake they're talking about here.
- 2 It's, number 1, very small. So it's only about 1
- 3 kilometre by 0.5 kilometres wide. And it has fish
- 4 densities up to nine thousand eight hundred and thirty-
- 5 five (9,835) -- four (4) fish per hectares. That's
- 6 extremely high. I have done quite a few surveys. I've
- 7 read about lots of surveys. I've never seen a fish
- 8 density this high in my life.
- 9 So that was the comparison lake chosen
- 10 to be compared to Kennady Lake. And we think that the
- 11 fish densities are so different between the two (2)
- 12 lakes that this comparison should probably not be made.
- In -- in summary, for the nighttime
- 14 versus daytime, I want to say then that a large body of
- 15 literature is showing that daytime hydroacoustics
- 16 surveys are only detecting a fraction of fish in the
- 17 lake when compared with nighttime hydroacoustics
- 18 surveys; and it is easily, technically feasible to
- 19 conduct such nighttime surveys; and that they should be
- 20 simply be carried out. Okay, I go --
- 21 THE CHAIRPERSON: Excuse me, Mr. --
- DR. ELMAR PLATE: Yeah.
- 23 THE CHAIRPERSON: -- Elmar Plate. I'm
- 24 looking at the slide presentation, and it looks to me
- 25 like you're on slide number 5 of 17 --

- DR. ELMAR PLATE: Yeah.
- 2 THE CHAIRPERSON: -- and I need a time
- 3 check. We allocated half an hour for the Deninu Kue
- 4 First Nation's presentation, and my time says there's
- 5 five (5) minutes left. Are you able to complete the
- 6 presentation within that time, or do you require more
- 7 time?
- 8 DR. ELMAR PLATE: If I could probably
- 9 have another five (5) minutes, I think then I could
- 10 finish it orderly.
- 11 THE CHAIRPERSON: Yeah. Thank you very
- 12 much.
- DR. ELMAR PLATE: Thank you. Okay.
- 14 Next slide is just showing a graph comparing four (4)
- 15 plegs -- lengths of fish that you're expect to -- to
- 16 catch with mesh sizes of the net that you have to use.
- 17 And what it shows is if you use mesh
- 18 sizes 25 millimetres or larger, you get fish bigger
- 19 than 120 millimetres. If you use -- and so on. So the
- 20 bigger the mesh size, the bigger the fish. To catch
- 21 fish that are actually very small, you have to go down
- 22 to mesh sizes around 10 millimetres.
- Okay. The next slide that I'm going to
- 24 is "Gillnetting Number 2." And those -- the
- 25 information on here is again taken from the addenda.

- 1 You can read them there on the slide, and I think you
- 2 have a printout.
- 3 And look at the gillnetting done by
- 4 Golder Associates 2010, 2007, 2004, and 1996. And in
- 5 all -- all those examples, minimum mesh size were
- 6 either 38 millimetres, which would catch fish bigger
- 7 than 180 millimetres, or mesh sizes of 25 millimetres
- 8 on one (1) study a long, long time ago that would catch
- 9 fish bigger than 120 to 130 millimetres.
- I added a picture to this page to show
- 11 you that small mesh sizes catch small fish. In studies
- 12 that we conducted over the last few years, we caught
- 13 fish down to 38 millimetres, 60 millimetres -- and 60
- 14 millimetres, depending on the different species.
- 15 I'm going to slide titled "Gillnetting
- 16 Number 3." It's again out of the addenda from the
- 17 Golder Associates report. And you see a typical length
- 18 distribution for the fish caught with the net that they
- 19 were used -- that were used in those studies. What you
- 20 can see is the fish basically cut off at lengths
- 21 smaller than 250 millimetres. That does not mean there
- 22 is no fish shorter than 250 millimetres in this lake.
- Now I'm going to the slide, "Gillnetting
- 24 Number 4." And it shows the gillnetting sets that were
- 25 made in 2010 and 2007, the most recent ones in Kennady

- 1 Lake, I actually made a mistake. I said there was one
- 2 (1) gillnet location in Kennady Lake in 2007. But
- 3 there actually wasn't. I'm just looking now at this
- 4 map here. So neither in 2007 nor in 2010, there was
- 5 actually a lot of gillnetting conducted in Kennady Lake
- 6 itself. Where a lot of gillnetting was conducted was
- 7 in all of the surrounding lakes.
- I'm going to the next slide; it's
- 9 titled, "Mark and Recapture, Number 1." And what this
- 10 slide basically shows in summary -- I'll just take the
- 11 examples here, those are all statements directly cut
- 12 and pasted out of the Golden Associate reports. In
- 13 2000 and 2001, due to the limited number of tagged fish
- 14 re -- recaptured in both years, population estimates
- 15 were not possible.
- 16 So here another technique was used, the
- 17 mark and recapture experiment, trying to figure out how
- 18 many fish are in this lake. But as you can see, 2000
- 19 and 2001, as reported by Golden Associates, this was
- 20 not successful. It happens very often to us too, so I
- 21 can relate very well.
- 22 And below there, you'll see a table that
- 23 shows for the next study, where again an -- another
- 24 mark and recapture was attempted, how many fish were
- 25 tagged, how many were examined and how many were

- 1 recaptured. With those numbers -- very, very low
- 2 recapture numbers -- you shouldn't really draw any
- 3 population conclusions. But then, Northern pike, the
- 4 only species where a few more fish were recaptured.
- 5 But then I wanted to point out the statement below,
- 6 which says:
- 7 "As a result, the minimum population
- 8 estimate calculated from the mark and
- 9 recapture experiment is more likely
- 10 an estimate of the Northern pike
- 11 population in Basin K3 and K4 rather
- 12 than for Kenned -- Kennady Lake as a
- 13 whole."
- 14 So that did not work so well either, and that sometimes
- 15 happens. I'm going to the next slide.
- 16 So the overall verification assumptions
- 17 by Golder/De Beers was:
- 18 "It was concluded that if the
- 19 distribution
- 20 of fish lengths from gillnetting
- 21 differed from that of hydroacoustics,
- 22 either
- the target strength equations were
- inaccurate or the technique sampled
- different components of the fish

- 1 assemblage."
- 2 In order to stick to this verification
- 3 assumption, fish in hydroacoustics were only sampled
- 4 when they were bigger than, I would say about 17, 18
- 5 centimetres, and fish in the nets were only sampled
- 6 when they were bigger than about 17, 18 centimetres.
- 7 The only problem with that is, we still don't know how
- 8 many fish are in Kennady Lake, because there is quite a
- 9 few usually below 17, 18 centimetres.
- 10 So the conclusion for my whole
- 11 presentation is hydroacoustics should be carried out at
- 12 night. The settings of the echosounder and transducer
- 13 should be changed. Gillnetting should be carried out
- 14 in the Pelagic fish layer, based on hydroacoustic
- 15 results, with small-mesh nets. And I think a reliable
- 16 fish population estimate can be produced as a baseline.
- 17 And that's the end of my slides and my presentation.
- 18 THE CHAIRPERSON: Thank you. I'll turn
- 19 it back to Patrick. Do you have a closing remarks?
- MR. PATRICK SIMON: Yeah.
- THE CHAIRPERSON: Or a wrap-up?
- MR. PATRICK SIMON: Yeah.
- THE CHAIRPERSON: Thank you.
- 24 MR. PATRICK SIMON: Thank you, Dr.
- 25 Elmar Plate. And I just want to conclude my remarks

- 1 by, first of all, thanking my Chief and council members
- 2 present for their support, and especially Robert, who,
- 3 you know, has helped me a lot. And he has a lot of
- 4 experience and knowledge in this -- this manner. And
- 5 I'd like to thank you, sir, Mr. Chairperson of the
- 6 panel, and the panel members, ladies and gentlemen, for
- 7 this opportunity and for the way you have treated me.
- 8 I'd like to thank your staff for all
- 9 their assistance. And I'd like to thank the company of
- 10 De Beers Canada for setting off a good way of beginning
- 11 to work together, and we encourage you to -- to do so.
- 12 And -- and I'd like to thank the people that have
- 13 presented: the government, both governments; the people
- 14 of Lutsel K'e; the people of the Yellowknives; and the
- 15 people of Tlicho.
- 16 And I think it's pretty obvious that we
- 17 all come here in a spirit of working together and
- 18 working through issues and trying to come into
- 19 conclusion so everyone in this room can benefit. And I
- 20 -- I want to recognize that, and I want to thank
- 21 everybody, I guess, for promoting it and for carrying
- 22 it out. Because it -- it'll make for a -- a better
- 23 project, better monitoring stuff, better data, better
- 24 whatever we need to do to make proper decisions.
- In the end, you know, we -- we're

- 1 not foreign to these concepts of using resources.
- 2 We're not foreign to the concepts of using resources
- 3 wis -- wisely. And we're not foreign to the concepts
- 4 of our relationships before, during, and after the use
- 5 of these resources. We're always mindful and thankful.
- In the end, when we speak of ownership,
- 7 when we speak of the boss in rooms such as this, I was
- 8 always reminded by Elders, the Elders that have set the
- 9 path of the Dene Nation, the Elders that have set the
- 10 path of all the nations here that have -- have deals,
- 11 or will have deals when it comes to land claims. They
- 12 were the ones that set the spirit, and they were the
- 13 ones that told me that the boss is up there, that water
- 14 is life, and that air is important, too. And the land
- 15 is important. It all has to work together.
- And everybody's important. So,
- 17 specifically, I'd like to thank all the other people
- 18 that come here that sometimes may not be understood, or
- 19 sometimes may not -- well, find it tough. You know,
- 20 the -- the NGOs, or so to speak, the people such as
- 21 Parks Canada and all these kind of -- you know, there's
- 22 a bunch of other people that presented. We're very
- 23 grateful and thankful for that. Everything we add to
- 24 this could only -- could only enhance what we want to
- 25 do here.

- 1 But in the end -- in the end, I do
- 2 welcome you to my territory. You are welcome. We do
- 3 encourage you. And when you leave, don't expect to
- 4 shake hands; just see you later, because we -- we
- 5 always hope to see each other again. We never -- we
- 6 never say goodbye forever. And that's why I -- I tried
- 7 to explain to you guys that we know the proper ways and
- 8 uses of land, so that we don't go through any kind of
- 9 Mayan effect.
- 10 So I'm hoping that I've spoken to you in
- 11 the proper manner: dignified, clear, respectful and
- 12 honest. And I thank you, Mr. Chair. Masi cho.

- 14 QUESTION PERIOD:
- 15 THE CHAIRPERSON: Thank you very much,
- 16 Patrick Simon and -- and your team for your
- 17 presentation.
- 18 We will go into questions from parties
- 19 now. And I'm getting so familiar with this list, I
- 20 might be able to memorize it before -- before tomorrow.
- 21 So I will begin. Akaitcho IMA
- 22 Implementation Office...? Seeing none, I move on.
- Dene Nation...?
- 24 Next one is Lutsel K'e Dene First
- 25 Nation.

155 1 MR. MIKE TOLLIS: Mike Tollis, from Lutsel K'e Dene First Nation. No questions at this 3 time. Thank you. Thank you. NWT Metis THE CHAIRPERSON: Nation...? Seeing none, move on. 6 North Slave Metis Alliance...? 7 MR. BILL ENGE: Yes, thank you, Mr. Chairman. Bill Enge, President, North Slave Metis I just wish to extend my appreciation for 10 the presentation here today by the Dene Kue Nation. And the Metis are very much interested in embracing 11 partnerships in cooperation with our -- our First 13 Nation counterparts. And that being said, I have no 14 questions for the presenter. Thank you. 15 THE CHAIRPERSON: Thank you very much, 16 President Bill Enge. 17 Tlicho government...? 18 MR. HENRY ZOE: Henry Zoe, with Tlicho 19 government. I'd like to thank the presenter for making an eloquent presentation this afternoon. The Tlicho 21 government doesn't have any questions. Thank you. 22 THE CHAIRPERSON: Thank you very much, 23 Henry Zoe. 24 The Yellowknives Dene First Nation...? 25

156 1 (BRIEF PAUSE) 2 3 MR. RANDY FREEMAN: Randy Freeman, with the Yellowknives Dene. I have one (1) question of the technical es -- expert for the Deninu Kue. Hopefully he's still on the line. It was a fascinating 7 presentation, but I -- I was still waiting for the punch line. 9 Is -- in his learned opinion, is the estimate that De Beers -- Golder has come up with for 10 the fish population, is it extremely low or extremely 11 high in his opinion? Is it -- is it so far out that we 13 can't work with that, or are they -- you know, is their 14 methodology so flawed that we -- we may be looking at a 15 lake that hundreds of times more fish in it? 16 THE CHAIRPERSON: Okay, thank you. Mr. Elmar Plate...? 17 18 DR. ELMAR PLATE: Yeah, thank you, Mr. 19 Chair. It's Elmer Plate from LGL. To answer, I would say if I would have carried out this hydroacoustic 21 survey I wouldn't know really how many fish are in the 22 lake. That's the only answer I can give. 23 There's really no estimate that I think 24 can be made based on the data there. I think it's just unknown at this point, so I think it should just be

- 1 either taken as is with the number that's been provided
- 2 by De Beers, or if you want to know the real number
- 3 then it probably has to be redone. But it's -- you
- 4 know, that's not my decision or -- but that's all I can
- 5 say with regards to that.
- 6 THE CHAIRPERSON: Thank you.
- 7 MR. RANDY FREEMAN: Thank you. That --
- 8 that answers my question. Thanks.
- 9 THE CHAIRPERSON: Next on the list is
- 10 Aboriginal Affairs and Northern Development Canada. I
- 11 bel --
- 12 MS. MICHELE CULHANE: Michele Culhane,
- 13 with Aboriginal Affairs. Thanks for the presentation,
- 14 and we have no questions.
- 15 THE CHAIRPERSON: Thank -- thank you.
- 16 Environment Canada...?
- 17 MR. ERIK ALLEN: Erik Allen, with
- 18 Environment Canada. We have no questions at this time.
- 19 THE CHAIRPERSON: Thank you. Fisheries
- 20 and Oceans Canada...?
- 21 MS. BEV ROSS: Bev Ross, Fisheries and
- 22 Oceans Canada. Thanks very much for the presentation.
- 23 We have no questions at this time.
- 24 THE CHAIRPERSON: Thank you. The
- 25 Government of the Northwest Territories...?

- 1 MR. GAVIN MORE: Gavin More, GNWT. We
- 2 have no questions.
- 3 THE CHAIRPERSON: Thank you. Natural
- 4 Resources Canada...?
- 5 MR. JOHN KING: John King, Natural
- 6 Resources Canada. We have no questions. Thank you.
- 7 THE CHAIRPERSON: Thank you. Parks
- 8 Canada...?
- 9 MS. ANN RONALD: Mr. Chair, Ann Ronald,
- 10 Parks Canada. We have no questions. Thank you.
- 11 THE CHAIRPERSON: Thank you. Transport
- 12 Canada...?
- MR. DALE KIRKLAND: Dale Kirkland,
- 14 Transport Canada. No questions, Mr. Chair.
- THE CHAIRPERSON: Thank you. De Beers
- 16 Canada...?
- 17 MS. VERONICA CHISHOLM: Veronica
- 18 Chisholm, from De Beers. I'd like to thank the Deninu
- 19 Kue for their presentation, it was much appreciated.
- 20 And I just have -- I have one (1) very easy simple
- 21 question for Dr. Plate, I think.
- 22 So De Beers has been sampling in Kennady
- 23 Lake for about sixteen (16) years, on and off, with
- 24 different consultants and taking field-based
- 25 measurements over that period of time that we've

- 1 assembled. And my question to Dr. Plate is: Has he
- 2 actually done any sampling in Kennady Lake?
- THE CHAIRPERSON: Thank you. Dr.
- 4 Plate...?
- DR. ELMAR PLATE: Yeah, thank you, Mr.
- 6 Chair. Obviously, you know the answer to that
- 7 question: No, I have not. But as a scientist, I think
- 8 certain ways of doing certain methods are very well
- 9 accepted in the scientific realm, and those are the
- 10 methods and -- that I'm pointing out. And I think
- 11 they're very widely accepted, not only by me, so -- but
- 12 by the whole scientific community. And you can either
- 13 chose to use those or you cannot, and that's all I can
- 14 say with regards to that.
- 15 And to answer your last question one
- 16 more time: No, I've never been to Kennady Lake. I
- 17 would love to see it, I would love to do work on it,
- 18 and I would love to get to know it, but I haven't been
- 19 so fortunate. Thank you, Mr. Chair.
- 20 THE CHAIRPERSON: Thank you. De
- 21 Beers...?
- 22 MS. VERONICA CHISHOLM: Veronica
- 23 Chisholm, from De Beers. Thank you, Dr. Plate, for
- 24 your response. I appreciate it.
- THE CHAIRPERSON: We now turn to panel

- 1 staff and technical advisors.
- DR. KATHY RACHER: Hi. Kathy Racher,
- 3 for the panel. I just have one (1) question.
- 4 So you said in your technical report
- 5 that:
- "It is essential to properly describe
- 7 the baseline fish population as a
- 8 benchmark for the desired status and
- 9 habitat compensation following
- 10 closure of the mine."
- 11 And I'm just a little confused as to how
- 12 the current population can be used as a benchmark,
- 13 given that De Beers has already predicted that the fish
- 14 community and the relative abundance of fish will be
- 15 different in Kennady Lake post closure.
- 16 So how do -- how does the Board use this
- 17 information in evaluating effects, I quess?
- 18 THE CHAIRPERSON: Thank you. Patrick,
- 19 I think, is it to the -- to -- to Elmar? Mr. Plate,
- 20 can you respond?
- DR. ELMAR PLATE: Yeah, thanks, Mr.
- 22 Chair. Yeah, I -- I -- it's hard to answer this
- 23 question. I don't think there is a good reliable
- 24 baseline for the fish population of Kennady Lake.
- 25 That's all I can say. From there on it's politics and

- 1 environmental impact statement process, I think. But
- 2 that's all I can say. Thank you.
- 3 THE CHAIRPERSON: Thank you. No
- 4 further questions.
- 5 Legal counsel...?
- 6 MR. JOHN DONIHEE: Thank you, Mr.
- 7 Chairman. John Donihee, coun -- counsel to the panel.
- 8 Just one (1) question for Mr. Simon.
- 9 The PowerPoint that -- that we showed
- 10 upon the screen, that was filed with the Board, had
- 11 about twenty (20) slides at the back of it that deal
- 12 with the -- what's entitled, "The Summary of the Deninu
- 13 Kue Ethno-History Report." You did speak, I -- I
- 14 believe to this -- the contents of that report, and so
- 15 I -- I just want to confirm -- I understood you to say
- 16 that report would be filed later this month, and that
- 17 the panel will get the opportunity to review the
- 18 results of this Ethno-History work in -- in writing
- 19 their report.
- 20 So is that -- is that the way that the
- 21 DKFN is intending to proceed?
- 22 THE CHAIRPERSON: Thank you. Patrick
- 23 Simon...?
- 24 MR. PATRICK SIMON: I think my -- right
- 25 now we're just in the process of just cleaning it up

- 1 and -- and finishing it up, making sure it's in a
- 2 formal presentable manner, then by the end of December
- 3 it should be ready to be presented and used as a tool
- 4 for the people of Deninu Kue, and for all the people
- 5 that need to use it, too, I guess, because we build
- 6 these tools so we can live together and help each other
- 7 and live good lives.
- 8 THE CHAIRPERSON: Thank you.
- 9 MR. JOHN DONIHEE: Thank you, Mr.
- 10 Chairman. John Donihee again. Just -- just to be
- 11 clear, you -- you are intending to file that report
- 12 with the panel? I guess that's what I'm trying to find
- 13 out.
- 14 THE CHAIRPERSON: Thank you.
- MR. PATRICK SIMON: Okay. Yes. I
- 16 guess my boss said to say "yes", so yes.
- 17 THE CHAIRPERSON: Thank you very much.
- 18 Any further questions?
- 19 Okay. We'll turn to panel members.
- 20 Rachel Crapeau, panel member...?
- 21 MS. RACHEL CRAPEAU: Thank you, Mr.
- 22 Chair. Rachel Crapeau, for the panel.
- 23 For Elmar -- Dr. Elmar Plate, my -- one
- 24 (1) question that I have is about the methodology. I
- 25 know that Elders will look at methods and think about

- 1 methods for counting and observing fish in a lake,
- 2 because I recall some years ago when Isadore Tsetta
- 3 advised a group of people who were taking young
- 4 children out in the wintertime, and they were going to
- 5 be setting nets for fish.
- 6 He advised them to set a net at the end
- 7 of a lake, and when they did that they got lots of
- 8 fish, more than they expected. And so the next time
- 9 they set the net they took the net out and reset it in
- 10 a different place so that they wouldn't get that much.
- 11 They only needed so much.
- So my question has to do with hearing
- 13 yesterday that there was approximately maybe twenty
- 14 thousand (20,000) fish. And this was from information
- 15 -- information from De Beers. How they arrived at that
- 16 number, I don't really know.
- 17 But is -- is the acoustic --
- 18 hydroacoustics a lot more better than how De Beers
- 19 arrive at their numbers? I don't really know. Did you
- 20 -- did you see how they did arrive at their numbers,
- 21 what method they used? Thank you.
- THE CHAIRPERSON: Thank you. Dr.
- 23 Plate...?
- DR. ELMAR PLATE: Yeah, thank you, Mr.
- 25 Chair. And Elmar will do, by the way.

164 1 Thank you for the question. De Beers used hydroacoustics as the method to count the fish. just didn't repeat that. I'm sorry about that, that I 3 didn't go too much into the results and how they -- De Beers arrived at the results of twenty thousand 6 (20,000) fish. 7 But that was done by hydroacoustics. And hydroacoustics is a very good method. Golder Associates, I think, is quite experienced with it. think that just the settings sometimes have to be just 10 right for the right environment. It is sometimes a 11 12 trial and error process. 13 Just to give you one (1) example: 14 just on the lake recently. I did hydroacoustics for 15 two (2) nights. I had to disregard all the results, 16 because after checking it with one (1) of the best specialists in North America, I realized there was one 17 18 (1) of the settings wrong. And that's just a process 19 you sometimes go through. So De Beers used hydroacoustics. I just think that the settings were 21 slightly off and, therefore, the small fish could not 22 be detected. Thank you. 23 THE CHAIRPERSON: Thank you. Any more 24 questions?

MS. RACHEL CRAPEAU:

Thank you for the

- 1 answer, Mr. -- Dr. Plate. And no more questions, Mr.
- 2 Chair.
- 3 THE CHAIRPERSON: Thank you. Panel
- 4 member James Wah-Shee...?
- 5 MR. JAMES WAH-SHEE: I'd like to thank
- 6 you, Patrick, and your Elder for giving a presentation
- 7 on the history of your people and your interests and
- 8 your concerns that you have. And I thank you for --
- 9 for that. And I have no questions. Masi cho.
- 10 THE CHAIRPERSON: Thank you. Panel
- 11 member Peter Bannon...?
- 12 MR. PETER BANNON: Thank you for the
- 13 presentation, but I have no questions.
- 14 THE CHAIRPERSON: Panel member Richard
- 15 Mercredi...?
- 16 MR. RICHARD MERCREDI: Yeah, thank you
- 17 for the presentation, both of you, and no questions.
- 18 THE CHAIRPERSON: The Chair has no
- 19 questions. I really want to thank you for your
- 20 presentation. It's obvious that you have a real
- 21 passion and -- and it was a very respectful
- 22 presentation, so we very much appreciate it. And
- 23 almost within time, as well. So thanks again.
- 24 We -- we have time now to do the North
- 25 Slave Metis Alliance presentation. We've allocated

166 forty (40) minutes, and that would take us to a nice break and then we can go to guestions from parties after that. 3 So Mr. Bill Enge, would you be prepared to -- to do it now? 6 MR. BILL ENGE: Yes. (BRIEF PAUSE) 9 10 THE CHAIRPERSON: Whenever you're ready, President Bill Enge, you can proceed. 11 12 PRESENTATION BY NORTH SLAVE METIS ALLIANCE: 13 14 MR. BILL ENGE: Yes, thank you, Mr. 15 Chairman. Bill Enge, President of the North Slave Metis Alliance. I wish to -- on behalf of the North Slave Metis Alliance, I wish to thank the Mackenzie Val 17 18 -- the Mackenzie Valley panel for this opportunity to present the North Slave Metis Alliances views in regard to the De Beers Gahcho Kue project. 21 In the way of format of our -- of our 22 presentation, I will be allotting time to two (2) of our North Slave Metis Alliance Elders to speak in 24 regard to their views on -- on this project. I have to my left, Ed Jones, Elder, and to my right, Wayne

- 1 Langenhan, and I will be sure to allow them an
- 2 opportunity to speak their truth, from their heart
- 3 about our attachment to the lands and how this project
- 4 will be affecting the North Slave Metis, as they have a
- 5 very long history.
- And I think I'm permitted to tell you
- 7 that Elder Ed Jones is eighty (80) years old as of last
- 8 May -- I know -- and he's not too vain for me to tell
- 9 people that, and in pretty good shape for -- for his
- 10 age and still doing well in terms of participating in
- 11 the life of the Metis community.
- 12 Now, I wish to set the context of the
- 13 North Slave Metis. We are the Section 35 Aboriginal
- 14 rights Metis who reside in this part of the Northwest
- 15 Territories, the area called the North Slave Region.
- 16 We -- we heard on a few occasions about the history, or
- 17 the ethno -- ethno-history of the First Nations in
- 18 regards to this area, and I think it's worth noting
- 19 that the North Slave Metis people are related both to
- 20 the Yellowknives, the Chipewyan, and the Tlicho
- 21 peoples.
- The Metis emerged as a separate and
- 23 distinct Aboriginal people as a consequence of
- 24 colonization that took place in this area over 200
- 25 years ago. The Metis are the mixed blood Aboriginal

- 1 peoples of Canada. They are the results of the
- 2 liaisons between the colonists and the First Nations'
- 3 people, mostly the First Nation women, who were then
- 4 known as "country wives".
- 5 The Metis have played a significant role
- 6 in the development of this area for over 200 years and
- 7 were major players during the fur trade. The Metis in
- 8 Canada have had their Aboriginal rights affirmed under
- 9 Section 35, under two (2) landmark Supreme Court of
- 10 Canada cases, Powley (phonetic) and Cunningham cases.
- 11 The Powley case was essentially a
- 12 harvesting rights case, and it affirmed in law that
- 13 Metis have a right to harvest. And in the Cunningham
- 14 case, it defines how to determine who is a Metis in
- 15 light of chan -- demographic changes brought on by the
- 16 Crown. Namely, that the Crown saw fit to reinstate the
- 17 -- the Indian status of Indian women who had their
- 18 Indian status removed because they married non-
- 19 Aboriginal men.
- 20 We now know that the Metis are not
- 21 registered Indians under the Indian Act. None of the
- 22 North Slave Metis Alliance members are registered
- 23 Indians under the Indian Act; we are Metis. But we
- 24 recognize and respect and affirm our close ties to our
- 25 First Nation counterparts, as we have been sharing

- 1 these lands with them since our emergence over two-
- 2 hundred (200) years ago.
- 3 With that in mind, I wish to go to the
- 4 first slide. And you can see here what the four (4)
- 5 points are that we are -- that we wish to discuss with
- 6 this panel and the members here: consultation,
- 7 traditional harvesting impacts, lessons learned from
- 8 the Snap Lake De Beers project, and the North Slave
- 9 Metis recommendations with respect to the Gahcho Kue
- 10 project.
- 11 As you can see, the North Slave members
- 12 are satisfied with the consultation De Beers has thus
- 13 far provided. Some of the comments that have been
- 14 extracted from a workshop that De Beers paid for
- 15 exemplify what a good job we feel that De Beers did in
- 16 informing us as to what we can expect from this mine.
- On two (2) separate occasions De Beers
- 18 brought North Slave Metis Alliance members to the
- 19 Gahcho Kue mine site and provided us with, not only a
- 20 helicopter surveillance of the area of the impact zone
- 21 for the mine, where sixteen (16) dikes are going to be
- 22 built and dewatering to take place, but they also took
- 23 us on a boat ride around the area where the dewatering
- 24 is going to take place. And we had very informed
- 25 discussions as to what we can expect in terms of the

- 1 impact on the water and the fish.
- Now, we come here today in support of
- 3 this mine, because overall we think that De Beers's
- 4 model is one that we can support. However, we do have
- 5 some concerns that we are going to express here today
- 6 in regard to what we would like to see put in place as
- 7 additional mitigation measures than the ones that are
- 8 being planned by De Beers.
- 9 In that respect -- so we'll -- we'll
- 10 move on to the next slide. What we are going -- what
- 11 the North Slave Metis Alliance are concerned about,
- 12 with respect to this particular slide, is that with the
- 13 advent of another diamond mine, or more mining in this
- 14 area, and the construction of another ice road to get
- 15 from the main ice road to the Gahcho Kue site would
- 16 allow for greater access to additional harvesting.
- 17 We're very concerned about the impact of the fishing as
- 18 we experience it day to day right here in Yellowknife.
- 19 I think I mentioned this in -- to this Board a day ago
- 20 or so, that if you go out on Ingraham Trail to some of
- 21 the lakes here the impact of the fishing on the -- on
- 22 the lakes are so bad that it takes you -- like, three
- 23 (3) days to catch a jackfish anymore.
- Now, with advent of -- of additional
- 25 roads and access to the wildlife we -- we are concerned

- 1 that -- that the wildlife will be under greater stress
- 2 than they can -- than they can -- than they -- wildlife
- 3 can -- can handle; and especially in this case the
- 4 Bathurst caribou herd. It's -- it's quite well known,
- 5 common knowledge here that the Government of the
- 6 Northwest Territories has placed a restricted
- 7 harvesting ban on the Bathurst caribou herd because the
- 8 numbers have dropped so drastically that the herd is in
- 9 danger of extirpation. And right now, only the
- 10 Yellowknives Dene and the Tlicho are allowed to harvest
- 11 from that herd a hundred and fifty (150) head each, and
- 12 much to our dissatisfaction, zero for the Metis.
- So, we -- we're looking to ensure that
- 14 mitigative measures are taken to ensure that the
- 15 caribou not only recovers, but thrives to the point it
- 16 was in the past. Not but a short ten (10) years ago,
- 17 it was at two hundred thousand (200,000) head.
- The Developer informed this forum
- 19 yesterday that they do not see the need for putting a
- 20 water treatment plant at the Gahcho Kue mine site. I
- 21 expressed our concern about that yesterday, and I
- 22 incorrectly stated that in -- oh, excuse me, I wasn't
- 23 incorrect. I said in the last ten (10) years, none of
- 24 the mines have been able to go into operation without a
- 25 water treatment plant at their mine sites. I was

- 1 correct on that.
- 2 However, where I was -- to clarify the
- 3 matter, there is a mine, that's the BHP Billiton Ekati
- 4 mine, that does not have a water treatment plant
- 5 treating the water at its mine site. And we know,
- 6 based on that -- on that experience and the data that
- 7 is flowing back from what's going on at Ekati, they are
- 8 having an extremely difficult time discharging the
- 9 water from their mine back into the water system,
- 10 because it's not cleaning fast enough and properly.
- 11 So that method that the Developer is
- 12 proposing to put in place has a model to look at and
- 13 it's not acceptable. So it's not an experiment. That
- 14 is what -- where I was wrong, when I said yesterday
- 15 it's a experiment. This experiment is currently
- 16 underway and it's not working. So the North Slave
- 17 Metis people say that this mine needs a water treatment
- 18 plant to ensure the safety and the quality of the
- 19 water.
- There is one (1) qualifier that we would
- 21 say to the Developer and that is this: We're sat --
- 22 we're comfortable with the water treatment plant being
- 23 in place as a back-up, as a fail-safe to the method
- 24 that they're proposing. If it's not working, then they
- 25 can use the water treatment plant. I guess the analogy

- 1 we could use here in Yellowknife, as Yellowknifers all
- 2 know, the power goes out enough times that we all pray
- 3 that Jackfish comes back on line, so at least we can
- 4 get our power back on. So we have some experience with
- 5 utility failure.
- And so the Developer tells us that they
- 7 do not wish to have a water treatment plant in
- 8 operation twenty-four (24) hours a day because it costs
- 9 too much money to run. We do not support that
- 10 position. It's going to cost us way more, as they
- 11 impact people, to have dirty water going into our --
- 12 our -- into our water system. And, therefore, we say
- 13 we want that water treatment plant in place as a back-
- 14 up to the -- the primary system which they want to put
- 15 in, which is some kind of cleansing ponds and then
- 16 discharge.
- 17 They don't have to run the water
- 18 treatment twenty-four (24) hours a day, but they have
- 19 to have one (1) ready to use in case things go wrong.
- 20 And so that -- that is the position of the North Slave
- 21 Metis Alliance in regard to that water treatment and
- 22 how we want to see the water treated.
- Now, there's no question that De Beers
- 24 has experience with the water treatment plants already,
- 25 because they have one (1) in operation at the Snap Lake

- 1 mine. And this water treatment has -- water treatment
- 2 plant has proven to be a necessary part of their
- 3 infrastructure. There are water problems at Snap Lake,
- 4 we know, and De Beers is forthright about the
- 5 challenges they face. We know that just today, as
- 6 reported, they had a leak in their pipe that -- an
- 7 effluent pipe that transports nitrates. A few
- 8 thousands litres of nitrate effluent -- effluent water
- 9 leaked at Snap Lake yesterday. So we know that it's a
- 10 mine, and things happen.
- Now -- so we'll move to the next bullet,
- 12 the third bullet. It has come to light that De Beers
- 13 has been invited by four (4) of the First Nation
- 14 parties that are participating in these hearings to
- 15 form an oversight agency to monitor the mine's
- 16 compliance with their commitments.
- 17 And because we -- we were only just
- 18 informed about this initiative on November 19th the
- 19 North Slave Metis haven't had time to properly consider
- 20 this oversight organization. However, we're open to
- 21 innovations. We're open to new ideas. And we are
- 22 willing to embrace new initiatives.
- 23 We very much wish to work cooperatively
- 24 with our First Nation counterparts. And as we -- we
- 25 see ourselves all in the same boat. First Nation

- 1 concerns are Metis concerns. We have -- we share this
- 2 land with our First Nation counterparts. We are
- 3 descendants of First Nations. Know -- you know, there
- 4 was -- there was a lot of love going on apparently when
- 5 the colonists came around. Otherwise, we wouldn't be
- 6 here. So we share the love.
- 7 And we want -- we want to be
- 8 cooperative, and we want to embrace our First Nations
- 9 counterparts' initiatives. And we also feel that De
- 10 Beers has been acting as a good corporate citizen when
- 11 you take into account they've already spent \$200
- 12 million to get this far, and they have been very open
- 13 and transparent with us with regard to this proposal.
- 14 So we -- what we are going to propose,
- 15 and De Beers is going to be informed of this shortly,
- 16 is that we want them to come and show us what the
- 17 spirit and intent of this initiative is so that we can
- 18 make an informed decision, and have one available for
- 19 the public record as expeditiously as we can make it
- 20 and get through the process of being informed, as we
- 21 wish to make informed decisions about something as
- 22 important as this is going to be.
- 23 This is going to be the substitute for
- 24 an independent monitoring agency, the kind that we're
- 25 used to seeing and operating from. And if we can see

- 1 the merit -- and already we're leaning towards it,
- 2 supporting it because a lot of work went into it and a
- 3 lot of cooperation went into it with our First Nations
- 4 counterparts. And if it works, we are very much
- 5 interested in endorsing it and being a part of it.
- 6 So we just wanted to put that on the
- 7 record to let everyone know that, you know, if -- if
- 8 this initiative has the kind of legs that we think it
- 9 does, we'll prob -- we'll be signing onto it and -- and
- 10 working in concert with our First Nation counterparts
- 11 and the -- and the -- the Developer with regard to
- 12 ensuring that a good, balanced method of monitoring the
- 13 -- De Beers's operations is in place.
- 14 Load me the next slide, please.
- The North Slave Metis, as I mentioned
- 16 earlier, have concerns about the planned dewatering of
- 17 Kennady Lake in order for De Beers to gain access to
- 18 the kimberlite pipe that -- where the diamonds are
- 19 located.
- 20 When Diavik Diamond Mine dewatered Lac
- 21 de Gras, where the area where the -- where they had to
- 22 gain access to their pipe, unfortunately a lot of the
- 23 fish were not used -- were not used for -- for cons --
- 24 consumer purposes. They couldn't get the fish to
- 25 market fast enough or get somebody to eat them. And De

- 1 Beers yesterday has come up with some good ideas about
- 2 how to ensure that when they do remove the fish, that
- 3 it's going to be used properly.
- And, of course, I have to say that De
- 5 Beers has been a significant -- probably the most
- 6 significant contributor to our annual Aboriginal Day
- 7 fish fry, and they appear to have thought about us when
- 8 they decided that National Aboriginal Day would
- 9 something you'd be thinking about when all this fish is
- 10 ready to go to market somewhere. Of course, we'll have
- 11 -- this whole town will have a yawning mouth open for
- 12 that fish, because it's all free of charge and we
- 13 always get a good turnout. So we'll be very happy to -
- 14 to take that fish when it becomes available.
- Now the other aspect of Kennady Lake
- 16 and, of course, of -- of the dewatering is that there's
- 17 going to be loss of fish habitat, because that's where
- 18 the pit is going to be. And we said this again, and I
- 19 think it's worth reiterating, that De Beers asked us
- 20 what we would like to see, in terms of compensation for
- 21 the loss of the fish habitat and the fish. And our
- 22 response has been, If you could find the ways and means
- 23 to do this, we'd very much appreciate it if you would
- 24 restock some of the lakes around Ingraham Trail so that
- 25 our people can go back fishing there. And we're hoping

- 1 that this is a doable consideration.
- Now, of course, there's always some
- 3 wrinkles in every pond. And in this case one of the
- 4 issues that we've been dealing with, not only with De
- 5 Beers at the -- their Snap Lake Mine, but also at Ekati
- 6 and Diavik, and that is verification of who is working
- 7 at the mine.
- 8 The North Slave Metis Alliance is not
- 9 interested in ascertaining who every person is working
- 10 at the mine. We're interested in ascertaining who
- 11 amongst our members are working at the mine, because De
- 12 Beers, like the other mining companies, are coming
- 13 forward with impact benefit agreements, socioeconomic
- 14 agreements. And part of what makes this mines
- 15 attractive for Northerners and Aboriginal/non-
- 16 Aboriginal alike is the promise of prosperity, some
- 17 benefit. And what comes with that is employment and
- 18 training opportunities. People have to work; that's --
- 19 that's the reality.
- 20 So when they come to a forum like this,
- 21 asking us to support their development and we say,
- 22 Yeah, we very much wish for this to happen because our
- 23 people need jobs. But the problem we're running into
- 24 is in terms of the red tape of so-called access to
- 25 information, laws, and no way for us to verify which

- 1 amongst our members are working at the mine. We -- we
- 2 are very interested in coming up with a solution to
- 3 that problem.
- And as I understand it, and I've
- 5 listened to other Aboriginal presenters to this panel,
- 6 they are experiencing the same problem: access to
- 7 information blockades. Now in my way of thinking,
- 8 access to information was put in place to be helpful to
- 9 Canadians from government intrusion into their lives,
- 10 but in this case it's having a reverse effect where
- 11 it's actually detrimental to the interest of
- 12 Aboriginals and Northerners alike, because these mining
- 13 companies are saying that they cannot verify who's
- 14 working at the mine because they would be in violation
- 15 of Canadian law.
- 16 This has to be remedied because the
- 17 promises of jobs and employment and training are only
- 18 hollow words if we can't substantiate and put them into
- 19 -- into good effect. That's another concern we have.
- In bullet number 3, I've already touched
- 21 on it; I've already said that we want the water
- 22 treatment plant built and put in place as a plan B,
- 23 kind of like the fail-safe system. I -- I think we all
- 24 know that when you get something like a -- a nuclear
- 25 power plant being built anywhere in the world, there's

- 1 not any peoples who live next door to them that would
- 2 allow a nuclear power plant to be built if it didn't
- 3 have a -- a back-up spill system in case the first one
- 4 went down. This is the same sort of thing. And so I
- 5 think my point has been made in that regard, so I won't
- 6 belabour it. So we'll just move on.
- 7 Okay, that -- that concludes our
- 8 PowerPoint presentation. And now I would like an
- 9 opportunity for our Elder Ed Jones to address this
- 10 forum for a minute.
- 11 ELDER ED JONES: Good afternoon. My
- 12 name is Ed Jones. I'm an Elder member of the North
- 13 Slave Metis Alliance.
- 14 My main concern about the project is the
- 15 water. We don't want another mess like they have at
- 16 Giant mines and Colomac; and especially BHP, who do not
- 17 have a water treatment plant and now they're
- 18 experiencing water problems, dirty water entering Lac
- 19 de Gras. We don't want to see that at Gahcho Kue. We
- 20 don't want dirty water entering the watershed.
- 21 The Lockhart River flows into the
- 22 northeast arm of Great Slave Lake. And we're -- I'm
- 23 quite concerned, personally, about that. And what our
- 24 -- what my president, Bill Enge, just voiced before me
- 25 is that it would be a -- a good idea to put a --

- 1 install a water treatment plant in case the -- the
- 2 proposed water management plan should fail. I think
- 3 that's a great idea.
- 4 And that is my main and only concern at
- 5 this time. Thank you.
- 6 MR. BILL ENGE: Thank -- thank you, Mr.
- 7 Chairman. Now I would like another Elder, Wayne
- 8 Langenhan, to address the -- the panel. Thank you.
- 9 ELDER WAYNE LANGENHAN: Good afternoon.
- 10 My name is Wayne Langenhan. I'm with the North Slave
- 11 Metis Alliance.
- 12 I've spent a lot of time in the North.
- 13 I grew up here. I was born right here in Yellowknife.
- 14 And I been around mining and exploration most of my
- 15 life. So I -- I have worked in the various mines
- 16 around the Northwest Territories and elsewhere, both on
- 17 surface and underground, so I do know a little bit
- 18 about the mining racket. Aft -- my mining experiences
- 19 have also included both Con and Giant mine here on
- 20 either side of Yellowknife.
- 21 These mines here were mineral mines:
- 22 gold. And when you have a mineral mine like gold and
- 23 silver, you have a big tailings's pond and you have a
- 24 totally different system of pulling the mineral out of
- 25 the ground and separating it from the ore. And it --

- 1 it's a very messy procedure. You need flotation -- you
- 2 know, crushers, flotation.
- 3 They -- it has big tailing ponds, all --
- 4 all of these mines around here from back to the 1930s.
- 5 There are many mines that have been opened and
- 6 abandoned all around this Great Slave Lake.
- 7 The rules that those mines ran by and
- 8 were opened and closed by were very slim. We're in a
- 9 whole new ball game these days, and the process for
- 10 extracting diamonds from the ground now are -- leaves
- 11 very little imprint on the land, as compared with years
- 12 ago when the copper, gold, silver mines were in place
- 13 doing -- doing their thing.
- 14 But I have been out to the diamond
- 15 mines, all of them, quite a number of times. I've seen
- 16 their operations. Some are -- need a little bit
- 17 finetuning, but all in all they're -- they are nothing
- 18 -- they aren't anything compared to the destruction of
- 19 the land, and the poisoning of the land and the waters
- 20 that the old-type mines did to this country.
- So, in my mind, with the gold mines on
- 22 the downswing here -- well, there aren't -- there
- 23 aren't very many left to talk about but we come into
- 24 the diamond mines, which sort of saved the economy of
- 25 the Northwest Territories and did a lot for the younger

- 1 people for getting them trained into different jobs,
- 2 and stimulated the economy of the city of Yellowknife
- 3 plus many communities, because there were a lot of
- 4 young people out there being trained, working at these
- 5 mines. So, from what I've seen throughout -- so far,
- 6 from these three (3) mines that have been operating,
- 7 and the fourth one of Gahcho Kue, which I was invited
- 8 to a couple times, they were very accommodating, very
- 9 open to any questions that we put forward to them.
- 10 So, therefore, I have to say that I am
- 11 in favour of this mine, and what it can do for the
- 12 people and for the communities, and I would like to see
- 13 it go ahead as long as there are a few little quirks
- 14 straightened out. So I thank you for your time.
- MR. BILL ENGE: Yes, thank you, Wayne.
- 16 Mr. Chairman, that concludes the North Slave Metis
- 17 Alliance's presentation, and we would be happy to
- 18 answer any questions that the parties wish to ask us.
- 19 Thank you.
- 20 THE CHAIRPERSON: Thank you, President
- 21 Bill Enge, Elders Ed Jones, and Wayne Langenhan. A
- 22 very good presentation. And I'm particularly pleased
- 23 that you're well within your time that you asked. So
- 24 thank you very much, Bill.
- I recognize the clock; it's very close

184 to 3:00. I'm suggesting that we break for -- until quarter after 3:00, and then we'll go through questions. Thank you. 3 --- Upon recessing at 2:58 p.m. --- Upon resuming at 3:16 p.m. 7 QUESTION PERIOD: 9 THE CHAIRPERSON: Thank you for your 10 attention. We will now go through questions for the parties and from parties. And I'll go through this 11 12 list again. 13 Akaitcho IMA Implementation Office Dene 14 Nation...? 15 Deninu Kue First Nations...? 16 Lutsel K'e First Nation...? 17 MR. MIKE TOLLIS: Mike Tollis, from 18 Lutsel K'e Dene First Nation. We have no questions at 19 this time. Thank you. 20 THE CHAIRPERSON: Thank you. NWT Metis 21 Nation...? 22 Tlicho Government...? 23 MR. HENRY ZOE: Henry Zoe, Tlicho 24 Government. We have no questions at this time. 25 THE CHAIRPERSON: Thank you.

- 1 Yellowknives Dene First Nation...?
- MR. RANDY FREEMAN: Randy Freeman,
- 3 Yellowknives Dene First Nation. We have no questions.
- 4 THE CHAIRPERSON: Thank you.
- 5 Aboriginal Affairs and Northern Development...?
- MS. MICHELE CULHANE: Michele Culhane,
- 7 Aboriginal Affairs. We have no questions.
- 8 THE CHAIRPERSON: Thank you.
- 9 Environment Canada...?
- 10 MR. ERIK ALLEN: Erik Allen,
- 11 Environment Canada. We have no questions.
- 12 THE CHAIRPERSON: Thank you. Fisheries
- 13 and Oceans Canada...?
- 14 MS. JULIE DAHL: Julie Dahl, Fisheries
- 15 and Oceans. We have no questions.
- 16 THE CHAIRPERSON: Thank you.
- 17 Government of the NWT...?
- 18 MR. GAVIN MORE: Gavin More, GNWT. No
- 19 questions, Mr. Chair.
- 20 THE CHAIRPERSON: Thank you. Natural
- 21 Resources Canada...?
- 22 MR. JOHN KING: John King, Natural
- 23 Resources Canada. No questions. Thank you.
- 24 THE CHAIRPERSON: Thank you. Parks
- 25 Canada...?

- 1 MS. ANN RONALD: Ann Ronald, Parks
- 2 Canada. We have no questions. Thank you.
- 3 THE CHAIRPERSON: Thank you. Transport
- 4 Canada...?
- 5 MR. MIKE MOLINSKI: Mike Molinski,
- 6 Transport Canada. We have no question.
- 7 THE CHAIRPERSON: Thank you. De Beers
- 8 Canada...?
- 9 MS. VERONICA CHISHOLM: Veronica
- 10 Chisholm, from De Beers. I'd like to thank the North
- 11 Slave Metis Alliance for their presentation. It was
- 12 very helpful today. And we have no questions.
- 13 THE CHAIRPERSON: Thank you. Now we
- 14 turn to the panel staff and technical advisors.
- 15 MR. CHUCK HUBERT: Chuck Hubert. No
- 16 questions, Mr. Chair.
- 17 THE CHAIRPERSON: Thank you. Panel
- 18 counsel...?
- 19 MR. JOHN DONIHEE: John Donihee, for
- 20 the panel. I have no questions, Mr. Chairman.
- 21 THE CHAIRPERSON: Thank you. It's hard
- 22 to remember which way I started. I will try to go back
- 23 and forth. I'll just start with Richard.
- 24 Richard Mercredi, panel member...?
- MR. RICHARD MERCREDI: Thank you for

- 1 your presentation. No comments -- questions.
- THE CHAIRPERSON: Thank you. Panel
- 3 member, Peter Bannon...?
- 4 MR. PETER BANNON: Thank you. I have
- 5 no questions. Thanks for the presentation.
- 6 THE CHAIRPERSON: Thank you. Panel
- 7 member, James Wah-Shee...?
- MR. JAMES WAH-SHEE: Thank you, Mr. --
- 9 I just want to thank the North Slave Metis Alliance for
- 10 their presentation. Thank you, Bill. Thank you, the
- 11 two (2) Metis Elders. Masi cho.
- 12 THE CHAIRPERSON: Thank you. Panel
- 13 member, Rachel Crapeau...?
- 14 MS. RACHEL CRAPEAU: Masi cho to the
- 15 Metis Elders. I understand that the concerns are the
- 16 same as our Elders would have, but I have no questions.
- 17 Thank you.
- 18 THE CHAIRPERSON: Thank you. And the
- 19 Chair doesn't have any questions. I want to compliment
- 20 you on your presentation. Thank you very much for your
- 21 time, much appreciated.
- 22 So that closes this portion of the
- 23 agenda. I asked some presenters for -- for tomorrow
- 24 whether they would be willing and able to help us out
- 25 to fill the time today and that was impossible, so I'm

188 pleased to tell you that you have an early day and so 2 we will break soon. 3 I need to also advise you that Undertaking number 1 has been submitted and will be on the register tonight. So have a good evening and we look 6 forward to seeing you tomorrow. Those -- at nine 8 o'clock tomorrow morning. Thank you very much. 9 10 --- Upon adjourning at 3:21 p.m. 11 12 13 14 Certified correct, 15 16 17 18 19 20 Lorraine Douglas, Ms. 21 22 23 24 25

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