## MACKENZIE VALLEY ENVIRONMENTAL

IMPACT AND REVIEW BOARD

## ENVIRONMENTAL IMPACT STATEMENT (EIS)

ANALYSIS SESSIONS

GAHCHO KUE DIAMOND PROJECT

Mackenzie Valley Review Board Staff:

Facilitator	Alan Ehrlich
Facilitatory	Chuck Hubert

HELD AT:

Yellowknife, NT

November 28th, 2011

Day 1 of 5

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1		APPEARANCES	
2	Alan Ehrlich	)	MVEIRB
3	Chuck Hubert	)	
4	Nicole Spencer	)	
5	Jessica Simpson	)	
6	Stacy Menzies	)	
7			
8	Veronica Chisholm	)	De Beers Canada
9	Stephen Lines	)	
10	Andrew Williams	)	
11	John Faithful	)	
12	Wayne Corso	)	
13	Cathie Bolstad	)	
14	John Virgl	)	
15	Amy Langhorne	)	
16	Lisa Hurley	)	
17	Ryan Rodier	)	
18	Gordon Zhang	)	
19	Ron Barsi	)	
20			
21	Paul Green		) AANDC
22	Amy Lizotte		)
23	Julian Kanigan		)
24	Glenn Sorensen		)
25	Francis Jackson		)

APPEARANCES (Cont'd) 1 2 3 Loretta Ransom ) ENR 4 Andrea Patenaude ) 5 6 Steve Ellis ) Treaty 8 7 8 Juanti Robinson ) ITI Industrial 9 ) Initiatives 10 11 Kate Witherly ) NPMO 12 13 Anne Wilson ) Environment Canada 14 Lisa Lowman ) 15 James Hudson ) 16 17 Sarah Olivier ) DFO 18 19 Kerri Garner ) Tlicho Government 20 ) Ttitso Gameti 21 Madelaine Pasquayak 22 ) Government 23 24 Ron Desjarlais ) Lutsel K'e 25

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1 2		APPEARANCES	(CONT	'a)		
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	Remote Participan	15:				
4			,			
5	Paul Wilkinson			MVEIRB	Consultants	
6	Terry Antoniuk		)			
7	Petr Comers		)			
8	Anne Gunn		)			
9	Dave Tyson		)			
10	Doug Ramsey		)			
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7 --- Upon commencing at 10:01 a.m. 1 2 3 THE FACILITATOR EHRLICH: Good morning, everyone. We're going to start in one (1) 4 5 minute, so if I can ask everyone to please take your 6 seats, and -- and you should have a piece of paper in 7 front of you with your name on it. If not, please let 8 me know and we'll arrange it. Thanks. We'll start in 9 one (1) minute. 10 11 (BRIEF PAUSE) 12 13 THE FACILITATOR EHRLICH: Good morning, everybody. Apologies for the late start. 14 We 15 had a -- a technical problem with the webcast. Ι understand that it's -- it's now been solved. 16 17 My name is Alan Ehrlich. I'm the 18 manager of environmental impact assessment for the 19 Mackenzie Valley Environmental Review Board. Next to me is Chuck Hubert, who is the new panel manager for 20 the Environmental Impact Review of the Gahcho Kue 21 22 project. 23 I'm going to give some opening 24 comments. No inspirational quotes as my predecessor might have done, but I do welcome you all here and 25

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thank you for coming. It's a chilly morning. I 1 understand they're -- they're going to get chillier 2 3 during the week. We have a -- a warm setting and snacks and stuff to help take the edge off when you 4 5 get here. So we hope that when you come in tomorrow 6 at nine o'clock sharp, when we're going to be 7 starting, you -- you grab a drink before you -- you sit down. 8 We wanted to get a bigger venue and 9 this town is booked tight. I don't know if it's 10 11 because of Christmas parties or what, but we tried months in advance and -- and we couldn't find anything 12 that was able to offer what we need in terms of remote 13 14 participation, the logistical stuff, as well as -- as 15 well as easy accessability, so we're here. 16 Right now we have enough seats and 17 that's a good thing. If more people come in I'm going to shuffle around who's at the table so that we get at 18 19 least one (1) representative of each party at the 20 table. 21 I'm going to do a -- a guick round-22 robin -- I -- I think we may as well start now. I'11 23 start by introducing the Review Board staff who are in 24 the room. I've introduced Chuck Hubert who's the new 25 panel manager for the -- the Gahcho Kue Environmental

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1 Impact Review Panel.

2	And next to him is environmental
3	assessment officer Nicole Spencer. And our community
4	liaison is is Jessica Simpson who's over at the
5	the door there. And you'll see someone named Stacey
6	Menzies who's an environmental assistant who's going
7	to be running around a fair bit in the next couple
8	days making everything that needs to work, work.
9	I'd like to start over at the De Beers'
10	side, and I'm going to ask Veronica to introduce
11	herself, but also the people who are not sitting at
12	the main table. We appreciate that De Beers has been
13	willing to sit people closer to the bar. Just going
14	to confirm for everyone who's listening by remote
15	by our our webcast that the bar is dry, the glasses
16	are empty, people are looking alert, and are facing
17	this way. Veronica, please go ahead.
18	MS. VERONICA CHISHOLM: Thank you. My
19	name is Veronica Chisholm, I'm the permitting manager
20	for De Beers. So I'm the replacement for Paul Cobban
21	who some of you might be familiar with.
22	Behind me, since we will be going
23	around the table, we have Lisa Hurley, who's sitting
24	at the upper portion of the bar. She we have Amy
25	Langhorne, who's from Golder. Cathie Bolstad, who

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10 should be sitting at this table. Ryan Rodier, who's 1 from EBA Engineering, and Ron Barsi from Golder 2 3 Associates. Did I forget anybody? Okay. That's 4 good. 5 THE FACILITATOR EHRLICH: Okay. Now 6 let's go around the table and continue -- does that make it counterclockwise? Counterclockwise. 7 8 MR. STEPHEN LINES: Good morning, I'm 9 Stephen Lines. I'm with De Beers. I'm the environmental assessment and permitting coordinator 10 11 for the Gahcho Kue project. 12 MR. ANDREW WILLIAMS: Good morning, my 13 name is Andrew Williams. I'm the Gahcho Kue project 14 manager for De Beers Canada. 15 MR. JOHN FAITHFUL: Good morning, my name is John Faithful. I'm with Golder Associates and 16 17 -- and I'm the technical director for the 18 environmental assessment. 19 MR. WAYNE CORSO: Hello, Wayne Corso 20 with JDS Energy and Mining, a mining engineer and 21 worked on the water management plan and feasibility 22 study for the project. 23 MS. MADELAINE PASQUAYAK: Hi, my 24 name's Madelaine Pasquayak, and I represent Gameti 25 Ttitso government.

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MS. CARRIE GARNER: Morning, my name's 1 Kerri Garner with the Tlicho Government Lands 2 Protection Department and I am currently the acting 3 director of the department. 4 5 MS. SARAH OLIVIER: Hello. I'm Sarah 6 Olivier, EA analyst with Fisheries and Oceans. 7 MS. ANNE WILSON: Good morning. I'm Anne Wilson with Environment Canada. 8 9 MS. LISA LOWMAN: Lisa Lowman, with Environment Canada, senior environmental assessment 10 11 coordinator. 12 MS. KATE WITHERLY: I'm Kate Witherly, with the Northern Projects Management Office. 13 14 MS. ANDREA PATENAUDE: Hi. I'm Andrea 15 Patenaude with the Wildlife Department at ENR. MS. LORETTA RANSOM: Hi. I'm Loretta 16 17 Ransom. I'm the environmental assessment analyst with 18 the GNWT, with ENR. 19 MR. GLEN SORENSEN: Glen Sorensen with 20 minerals, oils, and gas, GNWT. 21 MR. JULIAN KANIGAN: Good morning. 22 Julian Kanigan with Aboriginal Affairs. 23 MS. AMY LIZOTTE: Amy Lizotte with the 24 Department of ITI, GNWT. 25 MR. PAUL GREEN: It's Paul Green with

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1 Aboriginal Affairs.

2	THE FACILITATOR EHRLICH: Thanks. I'm
3	not going to ask anyone who's not at the tables to
4	introduce themselves unless they especially want to.
5	Like I said, the people who are at the tables are
6	going to be changing around a bit over the time as
7	people come in. We're expecting quite a bit of
8	participation from different parties on different
9	days.

10 Before we go further I'm going to ask 11 everyone to make sure your cellphones are turned way 12 down. That includes Dave in sound. Dave is doing our 13 sound over there. Dave is doing our sound over there 14 and Wendy is doing our transcription. I'm going to 15 ask -- make sure that all cellphones are turned to vibrate, and that includes anyone else who's here, 16 17 please.

18 As well, I'm going to talk about remote 19 participation. Part of the remote participation may 20 involve computers. Anyone who is going to be 21 receiving messages from people elsewhere please make 22 sure there is no sound associated with those messages. 23 In other words, turn your speaker volumes off on your 24 machines if you're going to pull out machines and 25 start doing stuff.

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I'll talk a little bit more about the 1 2 remote participation in a second. I want to talk about how we got to this point in the process. And 3 then I'm going to describe a little bit about what the 4 5 process is -- what this part of the process is 6 intended to do. 7 Now, we recall that this environmental impact review started in June, 2007. The panel issued 8 9 its final terms of reference in November, 2007. And 10 then, with the global economic downturn and other 11 things, we got the environmental impact assessment on 12 December 23rd, 2010. 13 The panel takes very seriously its 14 commitment to deliver a timely process with respect to 15 every part that is within our control. Stuff that's 16 within the parties controls we can't be held 17 responsible for. But when the ball is in the panel's 18 court we commit to doing what we're supposed to do 19 when we say we're going to do it. 20 And with that, we move through to 21 conformity of the environmental impact statement in 22 March of this year. The deficiency statement that was 23 issued was addressed by the developer in July of this 24 year, and finally received a conformity check that 25 confirmed that everything we asked for in the terms of

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reference was in there in July -- July 22nd of this 1 2 year, which I should point out was only seven (7) days after receiving the deficiency statement from De 3 4 Beers. 5 And I know that, you know, there was 6 some challenging questions in what went to De Beers, 7 and De Beers took the time to give us thorough answers 8 and further develop its plan. So the panel issued EIS 9 conformity on the 26th of July. And the work plan has this session starting on November 28th. 10 11 12 (BRIEF PAUSE) 13 14 THE FACILITATOR EHRLICH: Today is 15 November 28th, so that's great. However, if you read the small print on the work plan you'll realize that 16 17 this step is supposed to be completed by November 18 28th, because these are completion dates. We couldn't 19 do it because there was no venue that would actually 20 do the job and we'd rather, you know, be in the 21 ballpark time and have a session that works and is 22 productive than do a bad job faster. 23 The purpose of this session, it's a 24 little different from our -- some of you are more 25 familiar with technical sessions that the Review Board

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has held. Now, the panel is independent of the Review 1 Board but we share the same staff, processes are very 2 similar, panel members have, until recently, been all 3 Board members. And so there are some similarities. 4 5 And you'll notice a similar approach to 6 facilitating the sessions. We're trying to keep it informal, but we want the relevant information to be 7 8 captured by the public registry, which is why we have 9 transcription. So every word you utter will be 10 transcribed. That means that it can be part of what 11 exists in the universe that can be considered by 12 decision makers. In other words, it's useful. 13 Everything we're doing in this is 14 intended to help promote a wise decision by the panel 15 and -- so just bear that in the back of -- of your 16 mind. The entire process here, is trying to give the 17 panel what they need to reach a good decision about 18 this project. 19 With respect to the transcription, that 20 means you have to use the microphones. And if it's not red, it's not on. As well, when you turn on the 21 22 microphone or reach for it, please start with your 23 Because Wendy does an amazing speed of name. 24 turnaround with the transcripts, you will probably see 25 the transcript for today's session tomorrow or the day

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1 after. 2 But, if -- Wendy says tomorrow -- if 3 Wendy doesn't know who is saying what, it's -- it's harder for that to work well. As well, you want to 4 5 make sure that you're credited with what you've said 6 and not necessarily responsible for what other people have said. You want to get the names right. So, I --7 I'll start with that. 8 9 People who are not at the table, if you 10 want to come up and comment, that -- it's fine. 11 Please use the microphone. We held a session for the 12 environmental assessment of Giant Mine here not long 13 ago, and we just had people switch seats when someone 14 who -- who wasn't able to sit at the front table 15 wanted to make a comment or ask a question. Someone 16 else shoved off and they used the microphone and it 17 worked very well. And I want to keep using the same 18 thing. There's also a wireless microphone that's 19 available. If the seats fill up, we will wind up 20 using that too. 21 This is not like a technical session 22 that happens in between rounds of information 23 requests. Those of you who are familiar with 24 technical sessions will recall that usually you've had 25 a round of information requests before you come in.

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And then there's a chance for -- for a little bit of verbal, direct dialogue, and sometimes issues can be settled without having a second information request on the same subject.

5 So, in -- in this case, there have been 6 no information requests yet. This is the front-end 7 session. It's similar to what we call a gap analysis 8 session in our environmental assessments. In this 9 case, the panel's calling it an environmental impact 10 statement analysis session.

11 But the purpose is largely threefold. 12 Part of it is it gives the developer an opportunity to 13 familiarize the parties with the project and with what's in the environmental impact statement document. 14 15 This is, you know, a large-scale project and there's a 16 lot of information to absorb. And it's generally useful to everybody to have a little bit of a -- a 17 18 show and tell. And that's why you'll notice the 19 agenda has an emphasis on developer's presentations. 20 However, we wanted to make sure that

21 parties had an opportunity, when they've heard these, 22 to point out if they felt that the breadth of what was 23 being covered was not adequate. This is not the same 24 in-depth probing that you get in a technical session. 25 This is more about, are the subjects that was covered

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-- that were covered, adequately done so. Or are 1 there entire other fields that you're interested in 2 that -- that you don't have enough information on to 3 move on to the next round of information requests. 4 5 What will come out of this, possibly, 6 are a series of undertakings, which are little bits of 7 homework that the developer or other parties may have 8 to produce for a certain time. We'll -- we'll discuss 9 a potential deadline for those as they come up. 10 Something that worked well in the last 11 set of sessions we had here is that we had a developer 12 in that case who was quite committed to try to answer 13 questions during the session. Even questions that 14 were hard to answer, they would come back the next day 15 or the day after with answers to those. And the 16 reason why we're trying to promote this is because it 17 is easier for the parties, the developer, and everyone 18 if you can solve your issues, where you can, with face 19 to face discussion instead of a huge amount of paper. 20 So, I -- I -- I really encourage the 21 developer to listen carefully to any questions that 22 you hear, and as much as you are able to, to try to 23 resolve questions this week. Now, it's early on in 24 the process and, of course, not everything is going to 25 get resolved. But an honest effort here pays back

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everyone quite a bit. 1 2 The face to face is -- face to face 3 approach is considerably more convenient than having reams of -- of written material. With the 4 transcription, it is being captured for the record. 5 6 I'm going to just take a second till some technical situations are fixed. 7 8 9 (BRIEF PAUSE) 10 11 THE FACILITATOR EHRLICH: I want to 12 point out that this is not a hearing. We are so 13 evidently not the panel, we are humble staff. And so the panel will consider everything that's on the 14 15 record, but you are not in a hearing situation. 16 We would very much like this to be non-17 adversarial. When it's constructive, you can cover a 18 whole lot more ground, so just remind all parties that 19 one (1) of the Review Board's core values is respect. 20 We expect discussions to be respectful and, you know, 21 a non-adversarial, informal approach is a very productive way to cover a lot of material in one (1) 22 23 of these processes. And I just want people to bear 24 that in mind as we start off. I'll be repeating parts 25 of this on each day so that the parties who are not

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1 here now get the same message.

This is -- this is Trevor Bourque and Dave -- what's your last name, Dave? -- Dave Sveinsson. They're both working for Pido to make sure that you can hear each other and that the webcast goes and that the translation works.

7 Our translators are Anne Biscayne and 8 Berna Martin. I am going to ask them to not translate 9 any more until we have anyone in attendance who requires translation. So they're standing by to 10 11 translate if necessary. We didn't want to exclude by 12 being ill-prepared, but the session certainly can --13 can go at -- at full speed without any -- any catch-up time, because we're not going to be having any 14 translation unless we actually need it. But we are, 15 16 as you can see, ready to offer it should that come up. 17 We have remote participation in this 18 session. We've never tried it before. We don't know 19 how many of you are using it now. Does -- do any of 20 you have remote participants who you think will be 21 participating today? Please raise your hands. I'm 22 not seeing any yet, but I do know that at least one 23 (1) group is planning on participating remotely. As 24 well, all of the Board's -- sorry, the panel's -- I'm

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used to doing this for the Review Board. My apologies

25

1 if I say Review Board instead of panel. Habits of --2 of over a decade die hard.

3 The panel's experts are not in attendance in this session. They will be here for the 4 5 technical sessions, but they are participating 6 remotely. And they are Paul Wilkinson, who is our 7 consultant on socio-ec and cultural matters; Terry 8 Antoniuk, who's our -- our consultant focussing on 9 cumulative effects; Petr Comers, who is wildlife with the exception of the caribou; Anne Gunn, who's our 10 11 caribou specialist; and Dave Tyson of Tetratec is fish 12 and aquatic habitat; Doug Ramsey is doing hydrology 13 and limnology.

And there are others who will be involved, but I -- I do not have them confirmed as remote participants right now. It doesn't mean they're not participating. Many people can listen to our webcast. We have no way of following that, but when we get communications from them, we'll tell you who they came from.

I ask every party that is receiving communications from their remote participants to please identify who it was who asked the question, if it's not your own question, so that the developer has an understanding of -- of the context, because that

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will make it easier for them to provide a good answer 1 and it -- it generally helps. 2 3 The way the remote participation is working is, this whole session is being webcast, so 4 5 anyone in the world can listen to it. We have found 6 with our other sessions that we do get people 7 listening far away. We had someone listening in 8 Sweden and someone in Asia two (2) times ago. We only 9 find this out after the fact, but the point is that it's webcast, so it's accessible. 10 11 The way we encourage remote 12 participation is each group who has people who can't 13 be here that wants to participate that way have a 14 contact point somewhere in this room, and that person 15 gets emailed or messaged, or, if absolutely necessary, 16 cellphoned with their ringer off, set on vibrate. And 17 then their questions get asked in the room. 18 The responses are in the microphone, so 19 the responses are webcast. If this works we'll be 20 doing it again. If it works so so we'll try to fix 21 the so-so part. And if turns out to be a bad idea 22 this may be the only session we treat this way. 23 But the panel wanted to do this because 24 it wanted to encourage efficient participation. We 25 know there's some participant funding out there. Ιf

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we can have the same session and the same content 1 without people spending as much money on plane tickets 2 and it's logistically simpler, great. 3 And I think we will see during the week 4 5 that one (1) of the reasons we -- we likely have 6 enough space in this room is because there are going to be bodies participating who are not here physically 7 8 but who are here only in spirit. There was some media interest in this. 9 Do we have any members of the media here today? Okay. 10 11 They may come in. It's a public session. The public 12 in general is certainly able to attend, but the focus 13 is on the parties information needs and letting the developer update everyone on -- on the plan for the 14 15 development right now as it's proposed. So there's 16 not going to be a lot of public questioning. When the 17 media show up I will instruct them to please not ask 18 for interviews in the room. If they want to approach 19 individual parties during lunchtime, or breaks, or after, that's okay. 20 21 Review Board staff, just logistically, we've got our hands filled right now, so we're not 22 23 going to be doing any interviews this -- for -- for 24 this week on this subject either. 25 But if any party is approached by the

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media please don't give the interview in this room. 1 2 There are many other spaces that it can be done, and -- and we're going to ask them not to do it during the 3 session. 4 5 The agenda, it's a five (5) day agenda. 6 I'll -- I'll talk briefly about what's on each day and then I'll give a little bit more detail about how 7 8 today will work. Today is mostly about what is 9 proposed, what is the project description. 10 That includes everything that you've 11 got in your written material, and I trust the parties 12 have had a chance to review the written material. The 13 panel's been encouraging them to do so for some time 14 It also includes any further developments with now. 15 project design. Every project is a -- is a living 16 thing and if the developer is trying to work around 17 problems that have been identified, the project 18 evolves a bit over time. 19 Parties have an opportunity now to see how the project's evolved to this point, even since 20 the EIS has been submitted. That does not make this a 21 22 different project. What we encourage every developer 23 to do is to anticipate and avoid problems rather than 24 try to react and cure them. 25 And project design and commitments are

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two (2) of the tools that the developers have 1 available to -- to do that during the process. 2 And so it's a sign of the process being done responsibly. 3 But I fully expect to hear from De 4 5 Beers some details on how the project design has 6 evolved over time including since the EIS has been 7 submitted. And I see De Beers nodding, so I think 8 everyone else can expect that too. 9 So day 1 is the project description. Day 2, on Tuesday, we're going to talk about effects 10 11 on people, archaeology, socioeconomic, cultural stuff. That'll also include community engagement. 12 13 So Wednesday, day 3, is about 14 terrestrial stuff and air. We always have a hard time 15 figuring out where to put air, so we're saying the ground and up. We're including stuff like noise, air 16 17 quality, soils, vegetation, caribou, carnivores, 18 species at risk, all matter of critters and -- and 19 that kind of thing. That's all going to be happening 20 on Wednesday. 21 Thursday and Friday are wet. Water is 22 going to be on Thursday. Hydrology, groundwater, 23 permafrost, that kind of thing. Hydrogeology is also 24 going to be thrown into the mix, anything else having 25 to do with the flow/freezing of water and the project.

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Friday, water and fish. We're talking 1 about water quality, fish, aquatic habitat, that kind 2 3 of thing. There's a pile of agendas by the door. Remote participants can find them on our website. 4 5 I'm going to ask remote participants 6 right now if you have not downloaded the presentations 7 from De Beers that we've put on our website, they're 8 under -- we had to put them somewhere on our website, 9 under developer's assessment and report section, which is what an EIS is called in an environmental 10 11 assessment. If you go to our website go to the Gahcho 12 Kue page on the developer's assessment report. You 13 will find all of the developer's presentations. We -in earlier correspondence we've asked parties to 14 15 download the -- these so they're sitting on your 16 computer. Why? So that if our website goes down you 17 can still participate in the session. If you haven't 18 done so yet, please do it. 19 And then in each of the presentations that you're going to hear you're going to be able to 20 21 follow along with the PDF that you've got in front of 22 you. I'm speaking mostly to remote participants. 23 People in the room are going to see the live 24 presentation by De Beers. 25 De Beers has been kind enough to put

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page -- slide numbers on each slide, and every few 1 slides I'm going to hold up this sign, which is an 2 3 orange and black sign saying, "Slide number?" That's so that people who are participating at a distance 4 5 will be able to catch up and figure out where we're 6 at. And again, it's -- we're just trying to help 7 people understand what's proposed, including people 8 who aren't able to be here today.

9 We're committed to doing this session 10 and we've told all parties in advance that although 11 we're giving everyone the alternative of having remote 12 participants, if something goes wrong technically 13 we're going to keep going. Even if we have a power failure I think we're going to keep going. We've got 14 15 an agenda to get through. We've got a certain amount 16 of time. A lot of people have worked hard to come 17 together here and we -- we'll certainly try hard to 18 fix any technical problems that happen, but the panel 19 is committed to doing this week what we've said we are going to do this week. And that's why we've tried to 20 21 have backup systems.

We've also advised parties with remote participates to make sure you've got the phone number of your contact in the room so that if for some reason we lose Internet access and you have questions, you

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can phone them in through whoever is your receiver, we 1 need a word for this, for whoever's fielding your 2 3 questions and comments here. "Shortstop" is what we're going to call that. 4 5 I will try hard to wrap up on time. 6 The agenda erroneously suggests that we're going to be going late on Thursday. The people who own this room 7 8 tell us we're not because there's going to be a 9 Christmas party here and we're not invited, which means we're going to make every effort to get through 10 11 the day in the time that we have. 12 We may not keep strictly to the way 13 it's divided on the agenda, but Chuck and I are going to be your lead facilitators here, and we commit to 14 15 working very hard to make sure that when we say we wrap up by 5:00 we wrap up by 5:00 and that lunchtime 16 17 happens when lunchtime should happen. Generally, 18 lunchtime will happen at five (5) minutes to 12:00 19 because I want you to get out there and order whatever you need to order in restaurants before everyone else 20 21 does so that you can get back here for 1:15. 1:15 is 22 when we're going to start up again after lunch on each 23 day. 24 There'll be a break in the morning, a 25 break in the afternoon. And at the end of the day,

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usually about twenty (20) minutes before the end of the day, there'll be a quick wrap-up touching on some of the themes that we've discussed, but also trying to articulate again any undertakings, any homework that may have happened.

6 In our last set of sessions we called 7 undertakings the stuff that the developer had to go 8 away with and come back with a couple of weeks later. 9 We'll be more specific about deadlines when the time 10 comes, don't worry. And homework was stuff that they 11 were taking away but wanted to try to solve or respond 12 to during the week. And so we'll keep doing that. We 13 are not going to use the word "commitments" for either 14 of those. Confusion over -- between that and actual 15 commitments has taught us a valuable lesson in past 16 environmental assessments, which you will benefit 17 from.

18 We're starting late. And what we're 19 going to lose is the health break this morning. There are two (2) other short points I'll mention. There 20 21 will be snacks provided in the morning and afternoons, 22 coffee. As well, the toilets in this place have locks 23 There are keys for the locks. I've put the on them. 24 keys around the doorknobs of each of the toilets. Ιf 25 they're not there, there's a little dish at the end of

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30 the bar by where Jessica Simpson is sitting that has 1 keys for the toilets in there, and you can use those 2 too. So please do not put the keys in your pocket 3 after going to the washroom and leave them there. 4 5 It's amazing how easy that is to do. It's been a real 6 problem with previous sessions. Folks who are listening remotely will have to make their own 7 8 arrangements for toilets. 9 That was a bold attempt at humour and 10 an ill-advised attempt at humour. I'm going to stop right now and go over to the developer for their first 11 12 presentations. 13 Before I do that, are there any general 14 questions? 15 16 (BRIEF PAUSE) 17 18 THE FACILITATOR EHRLICH: We have a 19 question from Andrew Williams of De Beers. 20 MR. ANDREW WILLIAMS: Just a -- a 21 request please, Alan. If some of the participants 22 have written their name tags, with a -- with a regular 23 barrow (phonetic), if we could get them to use a felt pen. It would just be -- my eyes aren't as good as 24 25 they used to be, unfor...

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THE FACILITATOR EHRLICH: Yeah, I 1 2 thought they were propping up blank pieces of paper. 3 But now I understand that, no, there are letters on them and you'll see them in no time. 4 5 There is a sign-in sheet. It's very 6 important for us to understand who's there. Is that 7 our only sign-in sheet of the day? The sign in sheet 8 is with Stephen Lines, and it's going to go around the 9 room. 10 11 (BRIEF PAUSE) 12 13 THE FACILITATOR EHRLICH: We're going 14 to leave the sign-in sheet at the table over there. If anyone comes from your parties, and joins, please 15 16 ask them if they'd sign the sign-in sheet. It really 17 helps with the transcript and will make things easier 18 later on. 19 Any other questions? 20 21 (BRIEF PAUSE) 22 23 THE FACILITATOR EHRLICH: Thanks very 24 much. Now we hand it over to Veronica of De Beers. 25

PRESENTATION BY DE BEERS CANADA RE GAHCHO KUE PROJECT 1 2 PART 1: 3 MS. VERONICA CHISHOLM: Thank you, Alan. That was a very thorough and comprehensive 4 5 explanation. I -- I'm having a bit of a sound --6 okay. That's better. 7 I'm actually going to request that I 8 get a roving mic, because I like to stand and present, 9 if that's okay. 10 11 (BRIEF PAUSE) 12 13 MS. VERONICA CHISHOLM: Thank you. 14 Can everybody hear me? Perfect. 15 I'm just going to -- I know you can't 16 see this very well, but I -- for folks, we are 17 changing up some things slightly on the agenda. 18 The -- the first item was supposed to 19 be the structure of the EIS. We're actually going to go with the project description first. The EIS will 20 flow afterwards, as it tends to. 21 22 And the discussion of alternatives 23 we're going to actually include as part of our project 24 description. So those are just a couple of things on 25 the agenda for today. Good? Is that clear?

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THE FACILITATOR EHRLICH: So for our 1 remote participants, just to make it clear now, the --2 3 the name of the presentation that you should be opening up is The Gahcho Kue Project, and we're on 4 5 slide 1. 6 MS. VERONICA CHISHOLM: Slide number 7 1, yes. Thank you. So I've introduced myself already. 8 I'm 9 Veronica Chisholm. I'm the new permitting manager for De Beers. I see some familiar faces that I met in 10 11 October when we presented the project description and 12 various sections of the EIS. So that -- that's good to meet you. And for those that I haven't met or 13 14 spoke with, I hope I will get an opportunity to do 15 that. 16 I've already introduced the -- thanks, 17 I've already introduced the De Beers team. I'm Lisa. 18 just going to go through it quickly again because 19 they're going to be the support in terms if there's questions. I may field some of the questions to some 20 of those individuals. 21 22 So I have Andrew Williams, who is our 23 project manager on the Gahcho Kue project. Cathie 24 Bolstad, who's in the back there, she's corporate and 25 external affairs director. And then we have, well,

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myself as permitting manager, and Stephen Lines who's 1 the environment assessment and permitting coordinator. 2 I think a bunch of you know Stephen. 3 Also, we have Amy Langhorne, Lisa 4 5 Hurley -- you guys can give a wave -- and Ron Barsi. 6 They have the entire EIS project and binder 7 information on a CD over there. And so if anybody 8 needs to look up information, they are our little 9 station over there for that. 10 We also have John Faithful, so if 11 there's a technical question that comes up from the 12 EIS, John will help with that. And we also have Wayne 13 Corso from JDV Engineering, and -- JVD -- JDS. I can' get that right. And Gordon Zhang from EBA. 14 They have 15 worked on engineering projects in the north, so they're a part of our technical project description 16 17 team. 18 So -- so I wanted to do that quickly. 19 I'm on slide -- thank you, Andrew --20 I'm on slide number 3. So the project description is 21 in Volume I. It's this big guy here. The first part 22 of Volume I is a plain-language summary, so 23 essentially we condensed the EIS down into a very 24 condensed summary of the main points of the EIS. 25 Section 1 is the introduction of the project

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description; section 2 is the project alternatives, so those are all the alternatives we considered when we developed the project description; and section 3 is the actual project description, and that's what we're focussing in on today.

6 This is my only animation. You can 7 tell I'm not particularly gifted. So today, just the 8 outline of our discussion, we actually have four (4) 9 presentations included as part of this project description. I'm going to be giving an overview of 10 11 the project, as well as discussing some of the 12 alternatives that were considered. Stephen Lines, my 13 colleague, will be discussing the surface footprint and infrastructure of the project, as well as the 14 15 water management plan, and then I'll come back and talk about reclamation and closure. So that's the 16 17 four (4) presentations we're going to have today. 18 That's good.

19 So project overview. I'm on project 20 overview, it's slide number 6. I'm going to talk 21 generally about the project description and then give 22 a brief history of activity on the site, followed by a 23 map showing the location of the project area; 24 something on the kimberlite deposits, going to provide 25 you with some description of those; a little bit on

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the mining method and some of the alternatives we considered in the mining method; as well as mine sequencing and the rate of mining that we considered; some anticipated employment; and, finally, a project timeline.

6 I'm on slide number 7, the project overview. 7 So the Gahcho Kue project is proposing to 8 develop an open-pit mine to access three (3) 9 kimberlites, referred to as 5034, Hearne, and Tuzo. 10 It's located at Kennady Lake, which is approximately 11 280 kilometres northeast of Yellowknife, and I have a 12 slide that'll show a map for that. They're vertical 13 pipes located under Kennady Lake, and I'll show you what that means, and -- but because they're vertical 14 pipe situated under the lake, this requires us to 15 16 dewater Kennady Lake. And Stephen will get into the 17 detailed water management plan that will show you how 18 we plan to dewater Kennady Lake.

19 I'm going to slide number 8, which is
20 the site history. So there's been a fair bit of
21 activity at the Gahcho Kue project site since 1992.
22 That's when initial exploration began. In 1995,
23 that's when they actually found the 5034 kimberlite,
24 the first one. In '97 is when De Beers and Mountain
25 Province did a joint venture for this project. In

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'97, 5034 was further defined with some drilling. 1 2 1997, also the Hearne and Tuzo pits were located, and there was actually a fourth kimberlite, Tesla, that 3 was deemed uneconomical. Tesla? Sorry. Andrew. 4 5 MR. ANDREW WILLIAMS: Tesla. 6 MS. VERONICA CHISHOLM: Tesla. Between 1999 and 2008 is when we've done some core 7 8 drilling and bulk sampling to further define the 9 resource. And then finally, in 2009/2010 is when we 10 undertook a feasibility study of the area, and 11 currently, in 2011, we have a permit to undertake some 12 drilling of the Tuzo kimberlite, and I'll show you what that looks like. 13 So where are we located? The Gahcho 14 15 Kue project is located approximately, as I said, 280 kilometres northeast of Yellowknife. It's 16 17 approximately 80 kilometres east of Snap Lake, the 18 other De Beers property, about 120 kilometres plus 19 from Diavik and Ekati. We're about 140 kilometres 20 from the nearest community, which is the Lutsel K'e 21 community, and we have -- we're located along the 22 Tibbett-Contwoyto Road. At approximately two hundred 23 and seventy (270), it -- it heads south about 120 24 kilometres down to the Gahcho Kue. We have a permit 25 to use that road, although we haven't used it

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1 extensively to date. 2 The green line on here is just tree 3 lines, so we're located just above tree line. 4 5 (BRIEF PAUSE) 6 7 MS. VERONICA CHISHOLM: Apparently I have to stop chewing the mic so I think everybody can 8 9 hear me. 10 So this is just an aerial overview of 11 the site and where the deposits are located. We've 12 got 5034, which is located in the middle. That's the first kimberlite that was discovered at the site. 13 We 14 have Hearne located just about here, and Tuzo located 15 here. 16 This is where our current camp is. And 17 I'll remind you to look at that peninsula because we 18 referenced that peninsula in some other aerial view 19 slides. So we'll try and take you back to that one. 20 I'm just -- I'm just going -- oops. 21 I'm just going to show you these kimberlites and where they're situated. Oh, I'm on slide number 11. Thank 22 you, Alan. 23 24 I'm just going to show you where these 25 kimberlites are situated under Kennady Lake. As I

said, there are vertical pipes under the lake. 1 And 5034 is the one we're going to be mining initially, 2 followed by Hearne and Tusla (sic) -- Tuzo. 3 And they are very different shapes and 4 5 because of where they're situated under the lake, and 6 the amount of cap rock that situates above the lake, 7 it requires us to dewater Kennady Lake. 8 So the mining method, and the 9 alternatives that we're considering, there are three (3) ore bodies at Kennady Lake that will be mined 10 11 using open pit mining method. The alternatives that 12 we considered very early on was the underground mining 13 potential to get at those sites. 14 Can you hear me? Thanks. 15 Some of the challenges with underground 16 mining was just simple safety concerns, to keep --17 because we have to manage the inflow of water into the 18 mine. 19 It's technically challenging to maintain the sufficient layer of competent watertight 20 And it's economically deemed -- it was 21 rock. economically deemed less favourable, just because of 22 23 the capital and operating costs and the potential for 24 ore sterilization. 25 The mining sequence and extraction

rates and some of the alternatives. So we're going to 1 mine them, the kimberlites, se -- sequentially, 2 3 starting with 5034, as I mentioned, followed by Hearne, and then Tuzo. 4 5 We looked at doing a parallel mining 6 method. Again, that's in section 2 of the project 7 description, Volume I. And parallel mining simply 8 means opening up all the pits at the same time. 9 Again, that's a far more complex 10 operation and when we -- we're undertaking a project 11 description, we're always looking for an opportunity 12 to minimize impacts and protect the environment. And 13 so we wanted to have a smaller footprint and parallel mining would result in a fairly large footprint for 14 15 this mine. So it was deemed lest favourable 16 alternative. And economically, it was just determined 17 to be less favourable. 18 The maximum sustainable extraction or 19 processing rate is 3 million tons per year. Again, in the alternative analysis in section 2, we looked at 20 different rates. And this was determined to be the 21 22 most ideal rate from environmental and technical 23 perspective because it reduces the amount of 24 groundwater to be managed. 25 A faster rate would result in no pits

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available for backfilling, because as we mine one (1) 1 2 pit, we can backfill as we open up another pit into that original pit. So that's the overall plan. And a 3 slower rate would be uneconomical, as well. 4 5 Anticipated employment. So at peak 6 construction, we're looking at approximately seven 7 hundred (700) full-time employees. It includes both 8 on-site and off-site employees. It has camp capacity 9 of four hundred and thirty-two (432). At operations, we're anticipating three hundred and seventy-two (372) 10 11 full-time employees. A hundred or less will be at 12 closure. 13 And although smaller than both the 14 Ekati and Diavik mines, the timing of this project and 15 when it's -- if permitting is successful, then we 16 would expect there to be some economic sustainability 17 for the NWT. 18 Thank you. Slide number 15: So this 19 will -- this shows the operating lives of the various diamond mines in the area any information we have on 20 21 it to date. So Diavik, at the top, is scheduled operation to end around 2020. Ekati is scheduled 22 23 around 2021. Snap Lake is expected at 2029. And the 24 operating life for this project, should the permitting 25 be successful, would be a start of operation around

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2015 and an end of operation around 2025, so. 1 2 Project timeline. So we intend --3 should permitting be successful, we intend to start construction in 2013, and that'll extend for two (2) 4 5 years, to 2015. During that time is when we'll 6 undertake the dewatering of Kennady Lake, as well as 7 infrastructure construction. And Stephen will get into the detail on the infrastructure and the mine 8 9 footprint. 10 During the operating pe -- period will 11 be from year 1 to year 11, or 2015 to 2025. The first 12 activity will be mining 5034, followed by Hearne in year 4, and Tuzo in year 5. 5034 will be backfilled 13 with mine rocks starting in year 5; Hearne backfilled 14 15 with fine PK starting in year 8. 16 Where possible, progressive 17 decommissioning and reclamation will occur because we 18 want to start the reclamation process. And perhaps 19 I'm preempting my talk that I'm going to give at the 20 end, but we want to start the reclamation process as 21 early as possible so by the time we reach reclamation 22 we actually could have up to ten (10) years, eight (8) 23 years of data that will tell us how best to approach 24 final closure reclamation and to have that -- some 25 more detailed information on proven practices and

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proven technology. 1 2 At closure we'll be within two (2) 3 years after mining, at the end of year 13. So that's when we actually complete the removal of the in --4 5 infrastructure, disposal of all the materials onsite 6 and off-site as appropriate in refilling Kennady Lake 7 and restoration monitoring. Post closure there'll be 8 monitoring to ensure that we're meeting our 9 reclamation and closure objectives. And again, I'm going to be presenting those in the last project 10 11 description of the day. 12 So questions on the first part? 13 14 QUESTION PERIOD: 15 THE FACILITATOR EHRLICH: I don't see 16 any hands going up. Oh, there is one (1), and it's 17 from Madelaine. Do you want to go ahead? And please 18 state your -- your name into the microphone so they --19 they catch it. 20 MS. MADELAINE PASQUAYAK: This is --21 my name is Madelaine Pasquayak and I'm a Tlicho 22 Just -- just for the record, I'd like to citizen. 23 clarify the name, Gahcho -- Gahcho -- Gahcho Kue. I 24 think that's wha -- that's how it's written. The name 25 of the lake is really called Gahcho T'i (phonetic) in

44 -- in Dogrib. And for the -- for the Elders that I 1 2 work with and for -- for the sake of the people that live in that area I -- I think it -- we should refer 3 to Gahcho T'i if we're talking about Kennady Lake 4 5 because Gahcho T'i -- Gahcho Kue translates into the 6 area around Gahcho T'i, so we're either talking about 7 Gahcho T'i or we're talking about the area surrounding 8 Gahcho T'i. Thank you. 9 THE FACILITATOR EHRLICH: Thank you 10 for that, Madelaine. 11 MS. VERONICA CHISHOLM: Yes, I apprec 12 \_\_\_ 13 THE FACILITATOR EHRLICH: And I see 14 that De Beers is -- sorry, that you care to respond? 15 MS. VERONICA CHISHOLM: I appreciate 16 those comments, Madelaine, and I appreciate that 17 information. 18 THE FACILITATOR EHRLICH: And, 19 Veronica, I'm just going to remind you that even 20 though you're one (1) of the main speakers, it does 21 help if you can say your name each time you take up 22 the microphone. The Chair's got the prerogative of 23 not doing that but, otherwise, you're going to face 24 the wrath of Wendy, and you don't want that to happen. 25 Any other questions or comments at this

time? 1 2 In that case, I'm going to ask De Beers 3 to continue on with its next presentation. We are trying to make up for the lost time because of the 4 5 technical trouble we had. Are you ready or do you 6 need a minute? Veronica's indicating that she's ready 7 and she's grabbing the remote microphone, so. 8 MS. VERONICA CHISHOLM: I'm grabbing 9 the remote again. I just to need to line up the 10 presentation for Stephen Lines. 11 THE FACILITATOR EHRLICH: Yeah. 12 13 (BRIEF PAUSE) 14 15 THE FACILITATOR EHRLICH: Okay. For folks who are listening on the webcast, we're just 16 getting organized in the room here today. It's just 17 18 going to be a minute. Please bear with us. The dead 19 air doesn't mean that the session has stopped. 20 21 (BRIEF PAUSE) 22 23 PRESENTATION BY DE BEERS RE THE GAHCHO KUE PROJECT 24 PART II: 25 MR. STEPHEN LINES: Good morning,

Is that -- is that a good distance there? 1 evervone. 2 Okay. Thank you. 3 I'm Stephen Lines, and I'm the environmental assessment and permitting coordinator 4 5 for Gahcho Kue. So as Veronica mentioned, I'm just to 6 walk us through some of the infrastructure that is 7 necessary in order to build the mine, so that will 8 involve the project footprint. And then, after that, 9 I'm going to get into a -- a conceptual level 10 presentation on the water management plan. 11 THE FACILITATOR EHRLICH: Stephen, I'm 12 going to ask you to hold the microphone just a little 13 closer so the webcast picks you up? 14 15 (BRIEF PAUSE) 16 17 MR. STEPHEN LINES: Okay. So what 18 we've presented up until now is that Gahcho Kue is an 19 open-pit mine. There are three (3) open pits to be 20 developed. The ore bodies are all located underneath 21 Kennady Lake and, therefore, we need to dewater the 22 lake eventually to access the ore. 23 So for the infrastructure, overall, 24 just -- this is on slide 20 now. There's a diagram 25 there that shows the key components or the major

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components involved with the mine. So when we add all 1 2 those up, the physical footprint of all these 3 facilities, we're looking at a total project footprint of just over 1,200 hectares. So comparatively to 4 5 other projects that we have in the north, Ekati is in 6 the order of about 3,000 hectares, Diavik is also just 7 over twelve (12), and Snap Lake is in the order of 8 about 400 hectares. So that gives us an idea of the 9 size of the project. And for three (3) open pits in 1,200 hectares, you know, we've really managed to 10 11 condense the physical footprint of the facilities and 12 the operation.

13 So the main features are the mine pits. 14 So up in the north, we have Tuzo; in the middle, we 15 have the 5034 pit; and down sort of in the southwest 16 is Hearne. Of course, we also require the camp and 17 the processing plant, so those would be located just 18 up on the peninsula here of Kennady Lake. During 19 operations, we would have the use of a water management pond in this western portion of the lake, 20 21 and we'd need to construct various dikes and diversion 22 -- so internal water management dikes and some di --23 diversion dikes on the outer perimeter of the lake. 24 The other major facilities include the 25 coarse PK pile, so that's just located to the north of

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1 the processing plant, as well as the fine PK facility. 2 And Alan asked at the beginning that we provide an update on the evolution of the project, and we'll get 3 into an update shortly, and that surrounds the reduced 4 5 footprint of this fine PK facility. 6 And of course, we have two (2) mine 7 rock piles, so one (1) to the west, the west mine rock 8 pile, and another to the south, the south mine rock 9 pile. 10 All of these facilities are contained within a controlled area of the Kennady Lake 11 12 watershed, so any water that comes into contact with these facilities is contained within the mine 13 footprint. The only piece of infrastructure located 14 15 outside of that is the airstrip, so that's just located to the south of Area 8, and that was sort of 16 17 limited -- its location was limited by the 18 availability of land, so that's pretty much the only 19 place that we can reasonably site an airstrip. 20 Okay. So this is just a -- slide 21. 21 This is a layout of looking at the mine site itself. 22 So down in number 14 -- I'll try and point out a 23 couple of these facilities. Number 14 would be the 24 camp accommodation complex. Here we have a road, I think that's number 20. So that's the road that would 25

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go out to the airstrip over Dike A. There'd also be a 1 freshwater line put in here. 2 3 Eighteen (18), just sort of to the southwest of the accommodation complex, is potable 4 5 water storage. Just up in the north, this is the fuel 6 storage area. And then we have a gen -- electricity 7 generation over in here and just other facilities 8 associated with the site. So this is in the project 9 description. I think it's located on page 374. 10 So now I'm onto slide -- slide 22. So 11 this is just a visualization of what the campsite and 12 the facilities are projected to look like, so pretty 13 much just the same as what we saw before. The -- just 14 for the fuel tank storage, there are eight (8) half-15 million-litre tanks, and then two (2) larger tanks 16 that would make up the fuel tank farm. 17 Okay. So in addition to the 18 infrastructure that we need to build the mine, we also 19 need to access the site. So in order to do that, 20 there are two (2) ways to get there. So one (1), 21 during the winter, being the all-weather road that Veronica mentioned, so that cuts off the main road at 22 23 kilometre 271 and makes its way down to the proposed 24 mine site via a series of lakes. So that has been 25 used in the past. It is, as Veronica mentioned,

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within the scope of our existing permits. 1 2 The second way to access the site, and 3 this would be on an all-season basis, is through the airstrip. So the airstrip would be designed to land 4 5 jet aircraft on it. And then here's the -- the road 6 that would come off the airstrip, go over Dike A, and 7 then right into the campsite here. 8 So other important components of Okay. 9 the mine development, and these are very typical of what we see at other northern mine sites, so we'd 10 11 require a landfill, slide number 24 -- thanks, Alan. So we'd require a landfill for disposing of inert 12 solid wastes, and the landfill would be located within 13 14 different areas of the mine rock piles, and then 15 they'd -- it would be covered over on an annual basis. 16 As well, we may require a land farm in 17 order to treat soils that may come into contact with 18 hydrocarbons. This is a photo of an existing land 19 farm at a site where we're doing some reclamation work and it's going very well. 20 21 We'd have an incinerator for 22 combustible waste, a sewage treatment plant, and then, 23 of course, we'd have a hazardous waste stream, and 24 that would be shipped off site progressively as space 25 was available to take stuff off.

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So when we look at diamond 1 Okav. 2 mining, again, it's very similar to what we see at the 3 other mine sites. So I've moved on to slide number 25 here. So we have three (3) waste streams. One (1) is 4 5 the mine rock piles. That's sort of the area around 6 the ore bodies that gets mined out. As well, we have 7 coarse process kimberlite and fine process kimberlite. 8 So these are the two (2) streams that come out of the 9 processing plant. 10 So for the mine rock piles there are 11 two (2). The first one (1) that gets used is the 12 south mine rock pile, and that receives mine rock from 13 5034 pit. And then the second mine rock pile is the west mine rock pile. And then in addition to these 14 15 two (2) piles, mine rock is also used in reclamation 16 to cover the coarse PK pile and the fine process 17 kimberlite containment facility, as well. 18 So for the coarse PK, I pointed that 19 out just earlier, that's located just to the north of the camp. And that's -- that would be just on the 20 21 east side of Kennady Lake, so just adjacent to area 4. 22 Okay. So for the material that comes 23 out of processing the kimberlite ore we have the two 24 (2) streams, as I mentioned, the fine PK and the 25 coarse PK. So the fine PK comes out from the plant in

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a slurry and it gets piped to the fine process 1 kimberlite containment facility. 2 3 So here is just a photo. This is slide This is the first photo that you'll see today. 4 26. 5 This is the -- a reduced footprint of the fine PK. So 6 this is an update of the project based on what was submitted in December of 2010. And I think the next 7 8 slides that follow provides a background on why that 9 was updated. 10 So for the fine PK, disposal initially, 11 it would be disposed of in the fine PK facility. And 12 then later on, because we're mining the pits in a se -13 - sequential fashion, we're able to use the pits to back -- as backfill. So once 5034 is mined out we're 14 able to backfill it with some fine PK. And later on, 15 once Hearne is -- is mined out, we're able to backfill 16 17 PK to Hearne, as well. 18 Okay. So that brings us to a -- just a 19 brief update here on the project. So this is slide 20 28. Okay. So as Alan mentioned earlier this morning, 21 De Beers submitted its final response to the 22 conformity determination on July 15th. So that 23 included an update to Chapters 8, 9 and 10. And then 24 we received a positive conformity determination a few 25 days later, on July 26th.

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The reason for updating those chapters 1 2 was, as the panel noted, there was some information on nutrients that was left out of the EIS. And the 3 reason for that was we have been doing ongoing 4 5 geochemistry work of -- related to the fine PK. And 6 this is not uncommon and still going on today. 7 So one (1) of the samples had shown an 8 elevation in phosphorous. So we looked at that quite 9 closely and then decided to proceed in quite a So we looked at what it -- what 10 cautionary approach. 11 it would mean for the project if we did have slightly 12 higher phosphorous concentrations than originally 13 anticipated. 14 So this led to a closer look at 15 alternatives for the disposal of fine process kimberlite. And the alternatives assessment resulted 16 in an option for disposing of fine PK in a manner that 17 18 would reduce the footprint of the facility. 19 So when we reduce the footprint -- this 20 is the original footprint. So you can imagine if --21 this is the size of the facility here, and then you 22 have precipitation and rain that falls on the 23 facility, there's more water that would flow through 24 So the smaller we make the facility, the less it. 25 water that comes in contact with it and, therefore,

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1 there's less nutrients that result in Kennady Lake 2 during the post closure period. 3 So we were able to reduce the footprint, largely by using one (1) of the options 4 5 that was already detailed in the EIS, and that was the 6 availability to backfill 5034 and Hearne with slightly more fine PK. 7 8 So that option brings us to this 9 revised footprint of the fine PK facility. Consequently, as a result of that, the fine PK is no 10 11 longer located in Lakes A-1 and A-2. So it's confined 12 entirely within the general footprint here of Kennady Lake, area 2. So this is on slide 30 now, for the 13 14 people participating remotely. 15 So it's just a reduced footprint. 16 There's nothing else about the project that has come 17 about as a result of this. And again, it's just 18 building on a contingency that was written into the 19 EIS previously. 20 So here is slide 31, just a side view 21 of the fine process kimberlite containment facility at 22 closure. So you'd see that it rises up in the middle. 23 It's about 8 metres above the water level of Kennady 24 Lake. And then at the end, it's capped with coarse PK 25 and mine rock, as well.

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Alan, would you like me to continue for 1 2 -- or do you want to hold off? THE FACILITATOR EHRLICH: Are you 3 comfortable taking a couple of questions, now? 4 5 6 (BRIEF PAUSE) 7 8 THE FACILITATOR EHRLICH: To the 9 parties in the room, and to any parties that are 10 listening remotely, so you've got a high level 11 overview of the project. You've heard some of the 12 things that have changed with respect to fine kimberlite, tailing storage, and a change in the lakes 13 that will be affected because now it's focussed on 14 15 Kennady Lake. Does anyone have any questions about what they've -- what they've recently heard? 16 17 Remember, there will be two (2) days 18 that deal with water and fish and aquatic habitat, 19 Thursday/Friday. So there will be a chance to get 20 into it in detail. But in terms of broad strokes, 21 does anyone have anything they'd like to ask De Beers 22 now? 23 24 (BRIEF PAUSE) 25

1 THE FACILITATOR EHRLICH: Okav. 2 Steve, can you say your name first? So -- because 3 we're -- we're being transcribed. Thanks, Steve. 4 5 QUESTION PERIOD: 6 MR. STEVE ELLIS: Yeah, Steve Ellis with the Treaty 8 Tribal Corporation. I'm not quite 7 8 sure if you're going to get to this later, so I just 9 want to ask it now, if -- if not. 10 Will there be a point in the agenda 11 where we talk about project alternatives, or is that 12 something I should bring up now? 13 THE FACILITATOR EHRLICH: With respect to the agenda, I'll -- I'll say that that is on for 14 15 later today. It was going to be the first 16 presentation. De Beers has -- or, do -- do I -- do I 17 have that right? My understanding is that De Beers 18 wants to get into a little bit more detail about that 19 in today's session. I see Steve nodding. Steve? 20 Sorry, Steve Lines. This is a question 21 from a Steve to a Steve. I should be very clear. 22 MR. STEPHEN LINES: Steve Lines. I --23 I'm going to defer to Veronica and she had a plan for 24 how we were going to address that. 25 MS. VERONICA CHISHOLM: Thank you.

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Hi, Steve. What we were trying to do, we were -- we 1 2 didn't go into a detailed alternatives, But we tried to include some of the alternatives embedded into the 3 project description. 4 5 So -- but if you have specific 6 questions on alternatives that we might consider, 7 we're certainly open to hearing that. But what we 8 tried to do was include it as part of the project 9 description. 10 So for example, when I gave my talk in 11 the beginning, we talk -- I talked about the 12 alternatives for underground mining, the alternatives 13 for sequencing, the alternatives for the rate in which we would mine, but I didn't get into any more 14 15 specifics than that. 16 MR. STEPHEN LINES: I can maybe just 17 add to that, as well. The alternatives, section 2 of 18 the EIS has a description of the alternatives that 19 were considered for the project. As far as the mine 20 rock piles, for example, go, alternatives of placing 21 them entirely on land for -- were considered, but the 22 land that's around Kennady Lake is quite limited, and 23 the way they're -- the places where they're located 24 now reduces the footprint of the mine site and allows us to keep most of the mining facilities within that 25

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controlled area of Kennady Lake that I'm going to get 1 2 to. 3 And the alternatives assessment that I spoke of earlier about the project update, that's 4 5 something that De Beers is still working on compiling 6 a final report on. So that's anticipated early next 7 year. 8 MS. VERONICA CHISHOLM: Veronica 9 Chisholm. I just have one (1) more comment. So, Steve, if -- if you have specific questions that you 10 want to raise on the project alternatives, we're 11 prepared to answer those today. So I don't -- I'm not 12 13 sure if we covered them off or not. 14 MR. STEVE ELLIS: Yeah. Maybe the 15 best -- oh, Steve Ellis here. Maybe the best approach 16 going forward is that, as we go through the body of 17 the week, as we get into discussion, for example, on 18 the mine pits and if there's some thoughts that come 19 up about alternatives and so on, we can just address 20 them there instead of addressing them now up front. 21 It seems like a better way to go for me. 22 MS. VERONICA CHISHOLM: Veronica 23 Chisholm from De Beers. I agree, Steve. So as that 24 comes up and you have a question, then De Beers is 25 certainly -- we're going to be here as part of the

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project team the whole week, and we'd be certainly 1 2 prepared to answer those questions. Thank you. 3 MR. STEVE ELLIS: Steve Ellis here. Ι 4 actually just mentioned that the Yellowknives Dene and 5 the Lutsel K'e Dene are both on the phone. So they 6 couldn't be here, but they're with us with their ears. 7 THE FACILITATOR EHRLICH: So just to -- to clarify, then, what I've just heard is that the -8 9 - the Lutsel K'e and the Yellowknives are -- are both 10 using the remote participation setup that we've got. 11 And so, Steve Ellis, I -- I take it that means that 12 you're the -- the point man, the so called shortstop, 13 for anything they want to send in? 14 MR. STEVE ELLIS: Well --15 THE FACILITATOR EHRLICH: I mean, they 16 -- can -- can they -- can they get in touch with you 17 somehow? 18 MR. STEVE ELLIS: Well, I hope so. 19 THE FACILITATOR EHRLICH: Okay, yeah. 20 So Steve is holding a -- yeah, Steve is able to ask 21 questions on their behalf, and he's -- he's connected to them, so we're happy that that's turning out to be 22 23 of -- of use to someone. 24 Are there any other questions on what 25 you've heard so far? Madelaine, please go ahead.

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1 MS. MADELAINE PASQUAYAK: Thank you. My name's Madelaine. I understand, just from looking 2 at the map, that you want to minimize the footprint to 3 -- and keep it, you know, contained to 1,235 hectare. 4 5 I was wondering, does that also include the -- the 6 airstrip, as well, in case, you know, questions are 7 asked? 8 MR. STEPHEN LINES: Thank you, 9 Madelaine. It's Stephen with De Beers. That's a good question and, yeah, the footprint, the 1,235 hectares, 10 11 includes the airstrip. 12 THE FACILITATOR EHRLICH: Steve, it's 13 -- it's Alan Ehrlich. I have a question that's not a 14 facilitator question, it's a panel-type question, but 15 you mentioned that almost everything is -- is within 16 that -- that footprint, with the exception of the 17 airstrip. Is explosive storage on -- which side of 18 Dike A is explosive storage on? Is it out past the 19 airstrip? I mean, I couldn't imagine it's quite close 20 to the camp, for the obvious reasons. Could you --21 could you describe where explosives are stored? 22 MR. STEPHEN LINES: Thanks, Sure. 23 Alan. It's Stephen with De Beers. So just to clarify 24 the -- the footprint, the footprint includes the 25 airstrip over here, but the -- the airstrip is outside

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of the controlled area that's going to be established 1 through the diking of Kennady Lake. So that's just 2 that one (1) clarification there. 3 The explosive storage, Andrew can 4 5 correct me if I'm wrong, but that's just to the north 6 of the camp. 7 MR. ANDREW WILLIAMS: It's Andrew 8 Williams here. The storage is actually just to the 9 north of the fine PK facility, and what Steve pointed to just then is the emulsion plant where the 10 11 explosives are prepared prior to blasting. 12 THE FACILITATOR ALAN EHRLICH: Great. 13 That's helpful. Thank you. Does anyone else have any other questions on what they've heard so far to date? 14 15 Anne Wilson from Environment Canada has 16 a question. 17 MS. ANNE WILSON: Thanks. It's Anne 18 Wilson again. On a bigger picture level, I haven't 19 seen any extended descriptions of the new tailings configuration. Is that something that's coming out? 20 21 And one (1) of the first questions was: How well 22 encapsulated will the final closure configuration be? 23 And that might be coming up later. Thanks. 24 MR. STEPHEN LINES: Thanks, Anne. So 25 the -- one (1) of the ongoing work streams is the de -

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- de -- more detailed engineering of that facility. 1 So I think Andrew can maybe speak a little bit more to 2 3 that. But as -- as far as, you know, for the footprint, you know, again, it's just this reduced 4 5 area in -- into Area 2 here. And perhaps Andrew wants 6 to address the more detailed engineering of it. 7 MR. ANDREW WILLIAMS: Pardon me. 8 Andrew Williams, De Beers. Stephen, I think you're 9 going to be presenting more of that in the water 10 management plan in terms of the footprint of it. And, 11 yes, we will be doing -- we are doing ongoing work on 12 the option that Steve's presented, and we expect that 13 to be available early in the new year and will be 14 providing that information to the panel. 15 THE FACILITATOR ALAN EHRLICH: Anyone 16 else have any other questions on what we've just 17 heard? Paul Green...? 18 MR. PAUL GREEN: It's Paul Green, with 19 Water Resources. Just a general question. One (1) of 20 the -- the primary design goals seems to have been 21 minimizing the overall footprint and keeping it within the same -- with -- within one (1) watershed. 22 23 What drove that? Was that sort of an 24 operational enclosure type concerns that drove that 25 way of thinking or was it consultation with other

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groups or just what -- what drove that decision? 1 2 MR. STEPHEN LINES: Thanks, Paul. 3 Stephen, with De Beers again. I think it's a combination of factors really. When -- you know, it's 4 5 trying to first maximize the natural basin of Kennady 6 Lake. So whatever water comes into contact with any 7 of the actual mine-related facilities during 8 construction and operation, then we have a really good 9 handle on that water. We can control it, collect it, and then discharge it when -- whenever it meets water 10 11 quality cri -- criteria that's acceptable. 12 So it's -- it was an environmental 13 protection driver behind that. But, also, I mean, the 14 closer these facilities are to the camp, as well, the 15 more economical it becomes also. So there's some 16 economic considerations in that, as well. 17 And I think in the -- some of the 18 feedback we've gotten from the community is that they 19 don't want to see a very large development on the landscape. So if we can keep things as tight as 20 21 possible around the site, then I think that's looked 22 upon favourably. 23 THE FACILITATOR EHRLICH: If I may ask 24 a similar question. And we've noticed that the 25 backfilling -- it's Alan Ehrlich again. The

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backfilling of -- progressive backfilling as -- of 1 pits to minimize your amount of kimberlite storage 2 3 obviously has certain environmental advantages. We haven't seen a whole lot of that in 4 5 the north. Could you also describe some of the 6 thinking that went into that planning? 7 MR. STEPHEN LINES: Yes. Alan, it's 8 I think originally, you know, we did look at Stephen. 9 mining out all the -- all three (3) pits at once. So that was one (1) of the alternatives that was 10 considered, and, again, that results in mine -- some 11 12 of the mine rock piles being a lot larger than they 13 would be under this proposal here. 14 So, for example, the 5034 pit is 15 backfilled pretty much entirely back to surface. You 16 know, has it been done? I quess it is -- you know, I 17 would -- I wouldn't say it's -- it's new, but it's --18 I think it's a -- it's a good viable option. And, you 19 know, we have heard from DFO in some of our meetings that backfilling the pits there isn't, you know, three 20 21 (3) holes left when Kennady Lake is filled back up. I think, again, that's something that's looked at quite 22 23 favourably, or that's the feedback that we've been 24 getting. 25 THE FACILITATOR EHRLICH: I know that,

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from my perspective, I think it's, you know, an 1 admirable innovation to take a liability like an open 2 pit and look at it as a potential resource and a way 3 to reduce certain other undesirable environmental 4 5 things. And I see a fair bit of evidence throughout 6 the way this project is planned, some real effort on 7 efficiency. 8 I think back to, was it Nicholas 9 Negroponte of MIT was saying back in the '80s that, what is it, pollution is a measure of waste and waste 10 11 is profit loss. Sometimes it can be economically 12 desirable to have an efficient system that also has 13 serious environmental benefits. And I just -- the project plan that you've proposed is quite interesting 14 15 from that perspective. 16 I -- I see De Beers trying hard to 17 innovate in a way to avoid problems, which as I've 18 said is one (1) of the things that we're trying to do 19 with our process, anticipate and avoid problems rather 20 than react and cure. 21 So I -- I was just wondering if there 22 was anything else about the way you've planned this 23 that -- that you wanted to share, but it's -- if you 24 have it, great, if not we can continue with the 25 presentation.

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1 MR. ANDREW WILLIAMS: Yes. Hi, it's 2 Andrew Williams from De Beers. We -- we also reacted to some early comments that we had during our 3 community engagement sessions that asked us if in fact 4 5 we could backfill all of the pits. That -- that 6 wouldn't have been feasible. Obviously the last pit 7 would always be a problem to backfill and -- and very expensive. 8 9 So we did listen to that and -- but that -- that change was made quite early on in -- in 10 11 our decision making. And we realized as -- as you've 12 just said, Alan, that reducing the infrastructure and the travel distances of haul trucks and so on that was 13 afforded by being able to backfill the pits, it was, 14 15 in fact, also an economic driver. So on those two (2) 16 fronts is basically what we decided to proceed on. 17 THE FACILITATOR EHRLICH: Thanks. 18 Does anyone else in the room have any other questions 19 or comments on what you've just heard? 20 21 (BRIEF PAUSE) 22 23 THE FACILITATOR EHRLICH: In that 24 case, I am going to ask De Beers to carry on. For 25 people who have just joined the webcast, I'll remind

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you that there's a presentation entitled, The Gaucho 1 2 Kue Project. 3 I believe you're on slide, is it thirty (30)? On slide 33 -- thirty-three (33) is coming up? 4 5 Thirty-two (32)? So those who are listening from 6 elsewhere, please open the PDF and get to slide 32, and I'll hand it back to Stephen Lines of De Beers. 7 8 9 PRESENTATION BY DE BEERS RE THE GAHCHO KUE PROJECT 10 PART III: 11 MR. STEPHEN LINES: Thank you, Alan. So we'll continue on with the -- the conceptual level 12 13 water management plan, and I'm going to try and present it in a little bit of a different way than 14 15 what we've done in the past. 16 So though in a -- in a few slides, 17 maybe there's about five (5) slides that I'm going to 18 go through with some figures on it, and then there's 19 another one (1) with some animations that we've done 20 to sort of illustrate the water management plan at a 21 conceptual level. 22 So for everybody participating 23 remotely, I have now moved onto slide 33. Okay. So 24 for the timeline Veronica touched on, the project 25 timeline in her presentation, but from a water

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management plan perspective. So we're using the same 1 2 time frame. So construction is two (2) years. Year minus one (1) to year -- sorry, year minus two (2) to 3 year minus one (1). And the key activities during 4 5 that time frame is, of course, the dewatering of Kennady Late -- Kennady Lake in order to access the 6 7 ore body so we can start mining. 8 And I just want to highlight that in 9 each of these project phases, so construction, operation, closure, post closure, monitoring is a key 10 11 activity. So monitoring of water quality and water 12 quantity, in -- in particular. 13 So during construction we're also 14 looking to establish that controlled area around 15 Kennady Lake. And that's achieved through the construction of the various diversion dikes and 16 17 internal water management dikes. And then, as well, 18 during construction we need to put in place the 19 infrastructure for pumping and dewatering. 20 And then moving onto operations, we 21 were looking at an eleven (11) year operation period. 22 And then during this time we've established the water 23 management pond in Areas 3 and 5, and we'll get to 24 those areas on a map. And again we're monitoring the 25 quality and quantity of water that we're dealing with

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1 during operations, and whatever we're discharging to 2 the receiving environment. 3 During closure, this is a time when we're looking to refill Kennady Lake back up as 4 5 quickly as possible. And again we're monitoring 6 during that phase. 7 And then post closure, so twenty (20) 8 plus years beyond when we've started. This is when 9 Kennady Lake begins to recover from an aquatic systems point of view, and breach the dike, reconnect to the 10 11 downstream, and so on. 12 So that's just the general timeline, 13 and I'll move onto slide number 34. So before I get 14 into the details of what is proposed for water 15 management specifically around Kennady Lake. I just wanted to give everybody, and hopefully make sure that 16 17 we all have a clear understanding, a good starting 18 point, of the hydrology in the va -- in the vicinity. 19 So when we dewater Kennady Lake, there's two (2) discharge points initially during the 20 dewatering. So one (1) is via the natural outlet of 21 22 Kennady Lake, from Area 8. That flows up through the 23 'L' watershed, up through the 'M' watershed, and 24 eventually into Lake 410. This is approximately 9 to 25 10 kilometres from Kennady Lake, here.

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But what's important is that the second 1 discharge point during dewatering is from Kennady Lake 2 up to Lake N11, right in here. So the key point there 3 is that whatever water is pumped from the dewatering 4 5 to N11, is that it also makes it way up to Lake 410. 6 And it's at Lake 410, when the quantity of water -the flow is projected to be back at background during 7 8 dewatering. So this is an important lake for the 9 project. So whatever water gets diverted out to N11, it ends up in the same place. That's the key there. 10 11 So slide 35 is just an aerial photo of 12 what Kennady Lake looks like. I know some of you have been out to -- to site and have seen it firsthand. 13 So 14 here in the photo we have the existing exploration 15 camp. So I'll use that as a bit of a reference point 16 throughout some of the other photos. As -- you can 17 also see in the background there that there is, you 18 know, quite a bit of water in the project area. So 19 it's not that surprising, I guess, that the ore body is located underneath the lake. 20 So comparative -- comparatively, size-21 22 wise, the lake, you know, although it's not small. 23 It's, at the same time, nowhere near the size of some 24 of the other, larger lakes that we see in the project 25 area.

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1 Okay, so we're in again to the water 2 management strategy. But just from a high level, some of the keys to it, and the reason why we're doing it 3 is (1) to -- so that we can dewater Kennady Lake so 4 5 that we can safely access the ore. Without that, we 6 obviously can't build the mine. As we've seen from 7 Veronica's presentation, that going underground is just not a viable option for the project. 8 9 So, for the dewatering, that requires the construction of various dikes. There are fourteen 10 11 (14) of them, in total. So, the dikes help us 12 establish a controlled area for water. We have the 13 water management pond during the operation phase. So whatever water runoff, precipitation comes into 14 15 contact with any of the mine facilities, it's contained and managed. 16 17 And the final key to the strategy here 18 is that we've heard that it is important for Kennady 19 Lake to be refilled as quickly as possible during post 20 closure to re-establish the aquatic system. So that's 21 one (1) of the key drivers for the way the plan has 22 been developed. 23 Okay, so this is just -- this is slide 24 So this is just a figure of the various pieces of 37. infrastructure that we need to build in order to 25

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1 manage the water. On this map, it looks, you know, 2 fairly complex and I realize when you go through the 3 project description, based on the number of dikes that need to be put in to manage water and access ore --4 5 you know, you have to read it a couple of times in 6 order to get a handle on it. But from a higher level, the plan and 7 8 the strategy is fairly straightforward. It's just 9 simply about managing the water and stopping the water that's currently coming into Kennady Lake. So just 10 11 blocking it off at the perimeter. Blocking off the 12 outlet so we have some control over what comes in and 13 what goes out. 14 So that's what we're going to get into 15 with some of the animations that I'll go through now. 16 And I apol -- apologize to the people that are 17 participating remotely. All you're able to look at is 18 a one (1) slide PDF and it doesn't really mean that 19 much. But, what I have here, in the meeting room, is pretty much just a blank slide of Kennady Lake. 20 21 And I'm going to go through some of the 22 important structures and bring them in -- in 23 sequentially, in order as, I guess, reasonably 24 possible, of what I can do with the presentation. So, 25 again, I apologize to those people participating

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1 remotely. I hope you can see it sometime in the near 2 future.

3 Okay. This starts off just by identifying the key management areas of Kennady Lake, 4 5 and initially we had Area 1 included. Area 1 does not 6 make up part of Kennady Lake. However, it was 7 originally included because that's where the footprint of the fine PK covered. So that's -- where Area 1 is 8 9 written on the slide, that's actually Lake A1, and it includes Lake A2. So that's Area 1 in here. It 10 11 includes A3 as well up here. 12 So we have Area 2. This is currently 13 where the fine processed kimberlite containment 14 facility is proposed to be located. We have Area 3, 15 so that's just the northwestern portion of the lake. So we have Area 4. This is the location of the Tuzo 16

17 pit. So Area 5, that's the western portion of Kennady 18 Lake, and later on during operations we'll see this 19 will make up part of the water management pond.

And then, getting into the southern area of Kennady Lake, we have Area 6. So this is generally the location of the 5034 pit and the Hearne pit. And then, heading out to the west, we have Area 7, so this is just to the south of the mine camp, or where it's proposed to be located. And then, finally,

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Area 8. So Area 7 -- Kennady Lake flows out through this small channel between Area 7 and Area 8 and on through the small watersheds up to Lake 410. So these are just the subdivisions, how we've done it in order to reference different management areas and for engineering purposes.

7 Okay. So in order to proceed with the water management plan, we have to have a clear 8 9 understanding of what flows are coming into Kennady Lake. So there are four (4) inflows, or four (4) 10 11 significant inflows. So the first one is from the 'A' 12 watershed into Area 2. So that's the first one up in 13 the northern part of the lake. The second is from the 14 'B' watershed into Area 2 up here. The third is from 15 the 'D' watershed into Area 5 up through here. And, 16 for the people that have had the chance to come on a 17 site visit, we would have toured this area in here. 18 And then, to the southwest, we have the 'E' watershed 19 flowing into Area 6. So this is the four (4) major 20 inflows into Kennady Lake. And then only outflow that 21 we have, as I said just earlier, is the outflow from 22 Area 7 to Area 8. 23 So these are the inflows and outflows

23 So these are the inflows and outliows 24 that we need to control in order to achieve the 25 dewatering of Kennady Lake. So that's achieved first

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by inserting a dike here between Area 7 and Area 8, so 1 that closes off the outflow. And then we proceed with 2 perimeter dikes to divert water from those upper small 3 watersheds. So we insert the four (4) dikes and then 4 5 Kennady Lake is now isolated. 6 There are some minor flows that come in from some of these small lakes and ponds just to the 7 south of Area 7, but they're not significant from a 8 water management perspective. 9 10 Okay. So once we've isolated it off, 11 we've got two (2) areas for dewatering. So we have 12 two (2) sources that we're going to be pumping from. 13 So the first is Area 7 to Area 8, so we'll put some infrastructure there to allow us to pump over the dike 14 15 and then, as well, we have pumping from Area 3 to Lake 16 11, so that would be via a pipeline to the north. 17 So the objective of the initial 18 dewatering is to lower Kennady Lake by at least 50 19 percent. So here we turn on the pumps. The arrows 20 turn blue. And then we proceed to dewater Kennady 21 Lake by at least 50 percent here. 22 So now, at this point, we have less 23 water in Areas 6 and 7 and less water in Areas 2, 3, 4 24 and 5. In here it's a little bit shallower, so we're 25 -- it's possible that we'll run into some TSS issues

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1 earlier on. So in order to proceed with the 2 dewatering that -- the pumping from Area 7 to Area 8 3 gets shut off. During this initial dewatering phase 4 5 it's also important to note that as the water level 6 decreases some of the lake bottom in the middle of 7 Kennady Lake becomes exposed, and that allows us to 8 put in the internal water management dikes, so that's 9 Dikes H, I and J. 10 So with those in place, again, as I 11 said, we stop dewatering from Area 7 to Area 8. And 12 in order to completely drain Area 6 and Area 7 we then 13 transfer the pumping from Area 6 over into Area 5. 14 So with that pumping there's a inline 15 flocculant system that's proposed to help settle out 16 the TSS that we might encounter. So with the pumping 17 from Area 6 to Area 5 we've now dewatered the southern 18 portion of the lake. 19 This is Dike K. This is put in early 20 on, and initially it's just a haul road. It'd be 21 built with some of the pre-stripping material off of the land base portion of 5034 in here, and it would 22 23 allow us to access the southern portion of the lake. 24 Okay. As well, during the construction 25 phase we move in to put -- to start building the fine

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PK facilities. That's Dike L and Dike D. 1 Dike D actually goes in more during year 1. For illustration 2 3 purposes, this is what's required for the fine PK facility up here. 4 5 Okay, so this is pretty much the end of dewatering and construction. So, again, the goal here 6 7 is to -- now we have access to the 5034 ore body. 8 That's what's just overlaid here. Okay, so the 9 dewatering from Area 6 and 7 stops. And now we move into year 1 of operations. 10 11 So here we can see that mining has 12 begun in the 5034 pit, so that's the first pit to 13 start out. And as a result of that our three (3) mine 14 waste streams begin. So we have the south mine rock 15 pile as the first mine rock pile to be used. As well, 16 we have the coarse PK that started up here and fine 17 process kimberlite. Disposal has begun up in Area 2. 18 So as we proceed with the mining of 19 5034 we get further along. This is closer to about 20 year 3. Again, we're managing water at this point in 21 Areas 3 and 5, which would make up the water 22 management pond. So this water is increasing in this 23 area, so we've put in Dike M. So this prevents the 24 water management pond from overtopping into the areas 25 that we're mining. That's -- that's very important,

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this part of the project, from a safety perspective. 1 2 So again, year 3 we've got more mine rock being disposed of in the south mine rock pile. 3 The coarse PK has gotten a little larger. And then 4 5 Area 2 is filling up a little bit more with fine PK. 6 7 (BRIEF PAUSE) 8 9 MR. STEPHEN LINES: Okay. So as well 10 around year 3, 4, this is Dike N. It goes in and that 11 sort of isolates out the -- the area for a Hearne pit. 12 And later on this allows Area 6 down in here to fill 13 up with water progressively during operations, once Hearne is mined out. 14 15 Okay. So we've moved into sort of the 16 end of year 4 here. This is what I'm trying to get at 17 with this animation. So, 5034 is pretty much near 18 completion, so we're right at the bottom. Hearne has 19 begun some mining down in the south part of Area 6. 20 The south mine rock pile is complete at its maximum elevation. 21 22 We're into waste rock disposal in the 23 west mine rock pile. As well, you can see that the 24 fine PK facility is nearing its maximum elevation. So 25 with 5034 available we can start using 5034 for fine

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1 PK disposal. 2 So as we move on through years 4 and 5, 3 one (1) of the larger project dikes, Dike B, is put in, in the sort of northeastern section of Kennady 4 5 Lake. So that isolates Area 4, and allows us to 6 completely drain the remaining water in Area 4. And 7 that's in order to access Tuzo. So you can see the 8 Tuzo pit shows itself here. Area 4 is dewatered, and 9 again we're mining up here in Hearne. 10 So here you can also see that 5034 is 11 being backfilled. There's just a little bit of 12 material being disposed of in the pit. Also later on 13 through operations, Area 7 is already beginning to refill, so that's one (1) of the strategies for 14 15 facilitating the refilling of Kennady Lake. I believe that's it for this part. 16 17 Okay, so this gets a little bit closer 18 there to year 8. So we have Hearne that's complete, 19 5034 is still being backfilled. And now we've -certainly into mining of -- of Tuzo. At this point, 20 21 the fine PK facility would be in the process of being 22 We're still dewatered in Area 4. capped. There's 23 more coarse PK going to the PK pile. Some of the 24 coarse PK is also being used in the reclamation and 25 capping for the fine PK facility in here.

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And then I -- was this the last one? 1 Okay. Okay, there you go. Okay, so this is the last 2 3 animation, I believe. But I thought Tuzo was a little bit deeper there. 4 5 Okay. This might be -- just a little bit of an older 6 verison, but anyway. 7 So in year 11, Tuzo is mined out to the 8 bottom. It should be a little bit deeper than what's 9 represented here in the animation. And of course, also 5034 is also backfilled completely, so there's no 10 more pit left in the lake bottom. As well, Hearne is 11 12 also partially backfilled. And water is allowed to 13 refill back in this area, and that's also helpful for 14 the refilling of Kennady Lake. 15 So this takes it through construction 16 and operation, and is a high level sort of concept 17 visualization of what the plan is. 18 And as far as closure goes, Veronica is 19 going to cover the conceptual closure and reclamation Anyway, so if there's any questions. Just, I 20 plan. 21 guess, to finish off the water management plan 22 summary, it's really been designed by the engineers 23 with environmental protection in mind, especially of 24 the receiving environment. And one (1) of the key 25 components of that is containing all of the contact

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water during the operations in the water management 1 2 ponds. So we've got control over what touches the mine site and what gets released and how that gets 3 released. So we're controlling the water quality and 4 5 the flow in the downstream environment. 6 And again, just to close this off, it 7 was very important to minimize the refilling time of 8 Kennady Lake and to recover the aquatic ecosystem. 9 And that's again been worked into the water management 10 plan. 11 THE FACILITATOR EHRLICH: Thanks very 12 much, Steve. And my compliments on taking something 13 that is necessarily complicated and -- and breaking it 14 down in as clear a way as it can be. 15 I know there have been animated videos 16 released by De Beers in the past to show how this 17 would work out. Are you looking at updating those 18 animated ones, too? 19 I -- I -- Veronica is nodding yes. I 20 would suggest, in that case, that any remote 21 participants who had a hard time following what was 22 going on, please contact De Beers directly -- Stephen, 23 would you be the person to contact -- to -- to 24 indicate if you would like a DVD with the revised 25 animation on it. Because there is a DVD out there, or

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there will be a DVD out there that shows this stuff 1 quite -- quite clearly. And I think it's one (1) of 2 3 the only things that's happened today that -- that remote participants are at a bit of a disadvantage of. 4 5 But I -- I really found the previous 6 animations to be quite clear, quite useful, as I found 7 your presentation today. So, thanks for that. 8 Does anyone have any questions on what 9 you've just heard? 10 11 QUESTION PERIOD: 12 THE FACILITATOR EHRLICH: Please go 13 ahead, Madelaine. And then -- can you say your first 14 and last name. If I say your last name, I'll -- I'll 15 -- I'll probably muck it up and I want to make sure 16 that we get it. 17 MS. MADELAINE PASQUAYAK: Madelaine 18 Pasquayak. You talk about dewatering the Kennady Lake 19 -- Gahcho Kue. My question is, how -- is there any fish in the lake? And if there is, how do you propose 20 21 to do remove the fish before you dewater? 22 MR. STEPHEN LINES: Thank you, 23 Madelaine. Yes, thank you for correcting me and I'll 24 try and pronounce it correctly, the Gahcho Kue. 25 Yeah, there are fish in Kennady Lake,

certainly are. We'll hear a little bit more during 1 2 the aquatic session on the type of fish that are in 3 Kennady Lake. But as part of the proposed dewatering, there would be a fish out program, very similar to, 4 5 say, what was done at the Meadow Bank mine site, for 6 example. It was -- DFO has a fish out protocol but, in addition to that, De Beers is certainly -- places a 7 8 lot of importance on consulting with the communities 9 on how to go about doing that and the most effective 10 way. 11 THE FACILITATOR EHRLICH: Rather than 12 take any other questions now, the timing is such that, 13 it's ten (10) to noon. I -- I know De Beers has other presentations for later. I'd like to be able to 14 15 cogitate on their questions, think about what you've -16 - you've heard this morning. If you have other 17 questions, we'll take them after lunch, starting at 18 1:15. 19 I -- I certainly don't want to start 20 the next presentation right now, because it will be --21 we won't have time to really get into it. Is everyone 22 okay with coming back at 1:15? We're going to try and 23 start promptly. 24 When we do, Chuck Hubert, panel 25 manager, will be chairing it. I'll have to join a

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little bit late. But, we'll continue on the agenda 1 from the point we're at now. Except for we will start 2 with a question opportunity. 3 So we're going to break now until --4 5 Steve, you look like you have one (1) more thing to say. Please go ahead. 6 7 MR. STEPHEN LINES: Just after lunch, 8 I'm going to provide Alan with some contact 9 information for anybody either here or listening remotely that may want a copy of the DVD. Cathie 10 mentioned that's something that we will be updating. 11 12 But, Alan, we'll give that to you over the lunch break 13 and then you can convey it to people afterwards, or 14 Chuck can. THE FACILITATOR EHRLICH: 15 Steve, rather than conveying, the whole thing's on 16 17 transcript. And the transcripts will be posted 18 tomorrow. So, once you've read it into the 19 microphone, everyone will have it in writing. And 20 just remember that, you know, that there's many 21 advantages to the -- the transcription that -- that 22 we've got. But we can certainly do that after lunch. 23 We'll see you at 1:15. Thanks. 24 25 --- Upon recessing at 11:50 a.m.

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--- Upon resuming at 1:15 p.m. 1 2 3 THE FACILITATOR HUBERT: Okay. Good afternoon, ladies and gentlemen. Once again, we'll 4 5 make an effort to get started on time, at 1:15. 6 My name is Chuck Hubert. I'm going to 7 be taking over manager of the panel responsibilities 8 from Alan. One (1) thing, Alan is -- is more verbose 9 than I am, so I'll -- I'll probably be cutting it 10 short right there. 11 So what I'd like -- like to do is allow 12 De Beers a bit of time right now to provide some 13 follow-up information from -- from this morning. And we'll go from there directly into questions from 14 15 anybody in the -- in the audience that would like to 16 talk a bit about what occurred this morning. 17 So, Veronica, please. 18 MS. VERONICA CHISHOLM: Thank you, 19 Chuck. So just a few things we wanted to follow up, based on some of the feedback we received this 20 21 morning. 22 So one (1) is on the DVD. We are going 23 to update the DVD and anyone who's interested can 24 contact Brenda Anderson at De Beers. And her 25 telephone number is 766-7303.

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1 And also I was going to have And --Andrew Williams provide a followup on some of the 2 environmental design features that we included in the 3 project plan. And it sort of flows from the mine 4 5 infrastructure, surface footprint that we presented 6 this morning, as well as the water management plan. 7 So, Andrew. 8 MR. ANDREW WILLIAMS: Yeah, Andrew 9 Williams, from De Beers. Yeah, thanks Veronica. 10 I -- I think we saw, in this morning's 11 presentation, a number of things and I thought I'd 12 just summarize them quickly. In incorporating 13 environmental design features into the project, we did rely heavily on our information sessions with the 14 15 communities. 16 And I quess there were three (3) key 17 things that came out of it, that we had built into it. 18 And we're -- we're -- as Chuck mentioned, earlier, he 19 referred to them as innovations. But we're quite proud of the fact that, we managed to build in -- in 20 these -- these features. 21 22 The first one was isolating the Kennady 23 Lake basin in order to protect the environment 24 downstream of the project through that isolation. Ιt 25 allows us to -- to limit the disturbed area of the

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project, and also meant that we can control the 1 releases outside of the -- the project. 2 3 The other one -- another one was the sequencing of the pits, and that allowed us -- allowed 4 5 us to use the available pits for the backfilling, 6 which I think is a pretty unique opportunity. Most 7 mines don't have pits that are as close as the ones 8 that we have here, which -- allowing you to do that 9 backfilling, and -- and many mines don't have multiple 10 pits; they only have single pits. 11 So by using those pits, that obviously 12 allowed us to reduce the footprint significantly of 13 the project. Some of the very earlier versions of it were much larger. And, again, it -- it also provides 14 15 us with a lot of additional flexibility in terms of 16 waste and water management. 17 And finally, the other thing we heard 18 from the communities, what they -- they particularly 19 wanted to make sure that the project could recover as quickly as possible, so we've built into the design 20 21 progressive reclamation, and you'll hear some of that 22 with Veronica's talk a little later this afternoon, as 23 well as the refilling of Kennady Lake, and, as you 24 could see there, it's not 100 percent dewatered, and 25 that allows us to speed up the refilling of the lake a

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lot quicker than if we'd completely dewatered it. 1 2 So thanks, Veronica. 3 MS. VERONICA CHISHOLM: Thank you, Andrew. And we just have one (1) other update, and we 4 5 wanted -- I'm going to have Cathie Bolstad speak to 6 sort of the context for the selection of the name, 7 Gahcho Kue project, and so I'll ask her to speak to that. 8 9 MS. CATHIE BOLSTAD: Thanks, Veronica. 10 It's Cathie Bolstad for De Beers. I just wanted to 11 respond to, earlier this morning, Madelaine from the 12 Tlicho government when she commented on our calling of 13 our project the Gahcho Kue project. And I want to say that De Beers has travelled to a number of the 14 15 communities that are close to the Gahcho Kue project, 16 and when we refer to the project name, the Gahcho Kue 17 project, we have no intention as a company to be 18 describing any particular lake or land feature, 19 because we actually acknowledge and -- and you see it, I think it's in section 5 of our EIS, there are many 20 21 names for places, features, lakes that differ, 22 depending on the communities that we're in, and those 23 are -- those are special names to those communities, 24 and we acknowledge those. 25 The name for the Gahcho Kue project

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actually came, and we decided upon it, based on 1 conversations with Elders from the Lutsel K'e Dene 2 First Nation, and Gahcho is -- is -- refers to big 3 rabbits. And so the Gahcho Kue project is intended to 4 5 reflect our naming of a project that is in a place 6 where big rabbits are in abundance. And so whether we pronounce is Gahcho Kue or Gahcho Ku, it will depend 7 8 on who we're speaking with, because each Elder, 9 depending on their experience, may pronounce it differently. 10 11 So, Madelaine, there is no intended 12 disrespect. It's the name of our project, and we 13 value and respect the names of the features of the lands and the lakes nearby that come from the Tlicho 14 15 and the Akaitcho communities. 16 THE FACILITATOR HUBERT: Thanks very 17 Any other followup before we get into questions much. 18 from this morning? 19 MS. VERONICA CHISHOLM: That's --20 that's it from De Beers. Thank you very much. 21 THE FACILITATOR HUBERT: Thank you. 22 And it's Chuck Hubert with the Review Board, and I 23 need to start actually saying my name as I'm supposed 24 to before speaking. So thanks very much for the 25 presentation this morning. That was excellent. Some

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great visuals and some -- some very useful 1 2 information. 3 I'd like to open it up to the floor now to any participants who'd like to ask -- ask questions 4 5 of De Beers. 6 MS. MADELAINE PASQUAYAK: My name is 7 Madelaine Pasquayak. Thank you, Cathie, for 8 correcting me on that, but with my work with the 9 Elders, they always correct me, so I just thought I'd -- I'd use the names, the -- the proper names for our 10 11 area anyway. But I do respect the -- the Lutsel K'e 12 and -- and the proper name for that area for them. 13 The question that I have is -- is in 14 regards to the 3.0 million tonnes of processed rock. 15 We were just kind of curious. What does 3.0 million 16 tonnes of processed rock look like? And can the De 17 Beers staff provide a description that would be 18 understandable to -- to the community people in the 19 Tlicho region? Mahsi. 20 MS. VERONICA CHISHOLM: It's Veronica 21 Chisholm from De Beers. Thank you, Madelaine. I'm 22 going to have Andrew Williams respond to that 23 question. 24 MR. ANDREW WILLIAMS: Thanks, 25 Madelaine. The 3 million tonnes of rock is the yearly

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throughput of the kimberlite material through our 1 plant. As part of the process each -- the rock goes 2 into the -- to a crushing plant where it gets ground 3 down into finer and finer particles. 4 So what it looks like, I think, is the 5 6 -- the two (2) areas where that material ends up after it's been crushed and treated are the coarse 7 kimberlite, process kimberlite pile, and the fine 8 9 process kimberlite pile. 10 Stephen, in his presentation, showed 11 you a couple of graphics of that, both the area of it, and it covers that northern portion of the lake 12 referred to as area 2 and it would rise probably about 13 8 to 9 metres above the height of the water that it 14 15 lies adjacent to. 16 The coarse PK pile will be a little bit 17 I can't recall off the top of my how high it higher. 18 will be. Wayne, do you recall? 19 So we'll -- we'll have a look for that 20 then and we'll get back to you with that number, 21 Madelaine. But again, you saw the -- the size of it, 22 relative maybe to the size of the camp area, to give 23 you a bit of an idea. 24 So again, over the -- over the life of 25 the mine -- of the operations of the mine, which is

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92 about eleven (11) years, we're going to mine pretty 1 close to 30, 33 million tonnes of ore. Thirty (30), 2 sorry, 30 million tonnes because it's not -- the last 3 year and the beginning year aren't full years, so. 4 5 So the -- the coarse PK pile is about 6 25 to 30 metres high above the surrounding terrain, 25 7 to 30 metres high. Thank you. 8 THE FACILITATOR HUBERT: 9 Just a -- Chuck- Hubert here, with the Review Board. Just to follow up to that, one (1) typical way of 10 11 measuring a size of a mine is throughput of tonnes per 12 day. 13 Can you give us an indication of tonnes 14 per day and perhaps compare it to the other diamond 15 mines if you can? 16 MR. ANDREW WILLIAMS: It's Andrew 17 Williams, from De Beers. It's about 8,400 tonnes per 18 day. I'm not sure what the other mines are doing at 19 the moment, to be honest, so I can't really comment. 20 THE FACILITATOR HUBERT: Thanks. That's fine. Any further questions? 21 22 23 (BRIEF PAUSE) 24 25 THE FACILITATOR HUBERT: Just a note.

93 It's Chuck Hubert. I've been advised that CBC's 1 interested in perhaps using portions of this 2 discussion as a recording, and if there are any 3 objections to that we'd like to hear them at this 4 5 point. So raise your hand or wave or something if you 6 would object. 7 8 (BRIEF PAUSE) 9 10 THE FACILITATOR HUBERT: I take that 11 as a nay, so thanks very much. Once again, questions 12 on this morning's discussion and visual presentation, 13 thanks. 14 15 (BRIEF PAUSE) 16 17 THE FACILITATOR HUBERT: Okay. It's 18 Chuck Hubert. It seems that people are content and 19 satisfied with the information provided. So, De 20 Beers, Veronica, please proceed with this afternoon's 21 presentation. 22 23 PRESENTATION BY DE BEERS RE RECLAMATION AND CLOSURE: 24 MS. VERONICA CHISHOLM: Good afternoon, 25 everyone. I hope everyone had a nice lunch. And now

we're into the exciting world of reclamation and 1 2 closure, so I'm sure everybody will have lots of 3 questions and information on this presentation. The close -- slo -- oh, sorry, Alan, 4 5 thank you. We're on slide 44. What I'm going to 6 discuss in the closure and reclamation plan are some 7 of the goals and of -- and objectives. And I want to 8 remind people that -- that what was submitted is a 9 conceptual plan, some of the key concepts in the plan, 10 some of the commitments made by De Beers, an overview 11 of the key activity and schedules, and just a summary 12 of the plan itself. 13 MR. ALAN EHRLICH: Sorry, Veronica. 14 I'm just going to jump in for the benefit of the 15 remote listeners. I got a few emails over lunchtime 16 from people who are listening from elsewhere, and it 17 sounds like you can hear clearly what's going on and 18 everything like that, but people are -- we can't 19 always tell when people are joining. We can tell when 20 people are walking into the room here. 21 So just to remind people who -- who 22 haven't been on in the morning, we're on the 23 presentation called the Gahcho Kue Project by De 24 Beers. It's on the website and we're starting on --25 on slide 44.

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But it's the -- the -- the Gahcho Kue 1 2 Project presentation. You should open the PDF and get down to page 44 and then you'll have no problem 3 following. Thanks. 4 5 MS. VERONICA CHISHOLM: Thank you, 6 Alan. So that's pretty much what we're going to talk 7 about in the -- in this presentation today. 8 In terms of the goals and objectives of 9 the plan these are sort of what I like to think of as 10 our report card. So these are what we're setting out to ensure at the end of the day whether we've reached 11 12 success in our plan. So the overall goals of the plan 13 are to minimize the environmental impacts of the 14 operation to the extent practical; to reestablish fish 15 and wildlife habitat as quickly as possible following 16 operations; to create self-sustaining ecosystems; and 17 achieve a post-closure environment that doesn't 18 require long-term maintenance. As I mentioned, it's a 19 conceptual plan and it's not a detailed plan. 20 So the long-term objectives, I know the 21 goals and objectives kind of fit together in here, but 22 we want to reestablish the natural fish habitat that 23 may be lost, altered, or disturbed as part of the 24 project. We want to return the site conditions to 25 self-sustaining ecosystems that are typical in the

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region. And we want to create to the extent possible,
 or practical, final land forms that integrate into the
 natural landscape.

The short-term obje -- objectives, so these are things that we're going to try and do immediately, reclaim areas as soon as possible once they are no longer required. So if there's opportunities in construction, operation phase where we can reclaim an area, we're going to do that as soon as possible.

11 We want to minimize the risk of erosion 12 and sediment loss from onsite runoff; stabilize the slopes to maintain safe working conditions and to aid 13 14 in reclamation activities; restore the natural drainage wherever we can; establish a groundcover, 15 16 which is tricky in the north, but we want to do that 17 to limit soil erosion and dust production; and 18 obviously, to maintain an environmentally safe site. 19 Some of the key concepts and community input we've received on the project that helped in the 20 21 design, as well as the concer -- the Closure and 22 Reclamation Plan. So beginning at the very earliest 23 stages of the project we had undertaken engagement in 24 the communities. 25 And some of the feedback that we did

receive, and we mentioned this this morning or earlier 1 2 this morning, was to reduce that project footprint. 3 And the other thing that we had heard was to restore Kennady Lake as quickly as possible. 4 5 So to address that the plan is to start 6 the pumping from N11 during refilling, which will 7 reduce the time required to fill Kennady Lake from twenty (20) years to about eight (8) or nine (9) 8 9 years. 10 So that's some of the TK we've included 11 in the Plan and we intend to undertake engagement 12 throughout the life of the project in order to find 13 opportunities to include TK into our project, 14 reclamation for sure. 15 Key concept designs. I'm sorry, I'm on slide 49. Reclamation and closure was considered in 16 17 all the project phases including the alternative 18 analysis. And when we were undertaking the 19 alternative analysis, one (1) of the questions we had 20 to ask ourselves is: How difficult will that 21 particular design feature be at reclamation and 22 closure? So as we're working through the actual 23 project design, that was in the forefront of our 24 minds. 25 Everybody knows the concept, I think,

1 of progressive, or what I'd like to call ongoing 2 reclamation. So I mentioned this earlier, where we have the opportunity to start some field trials and do 3 some reclamation right away so that we can gather 4 5 information, we want to do that, to create proven 6 practices and proven technology by the time we get to closure. 7 And we'll also follow whatever 8 9 quidelines there are, including the mine site reclamation guidelines for the NWT. Oh, someone's 10 11 trying to get in. I think there's snow along the 12 building and I've seen slumps onto the street. 13 14 (BRIEF PAUSE) 15 16 MS. VERONICA CHISHOLM: The conceptual 17 C and R. So some of the commitments that we made in 18 the plan included the use of progressive reclamation 19 or ongoing reclamation to minimize the total amount of 20 area disturbed at one (1) time; recover as much soil 21 as practical, for use in the reclamation activities; 22 develop a fish habitat compensation plan that meets 23 the no nes -- no net loss guide lining -- guiding 24 principles established by DFO; undertake reclamation 25 trials, I've mentioned those a few times; and liaise

with other mine operators in the Canadian Arctic to
 share information on reclamation. So we know that
 Ekati and Diavik are doing some work and we want to be
 able to learn from them.

5 I'm on slide number 51. Key activities and constru -- key activities during construction and 6 7 operation. I'm kind of going through a bit of a 8 sequence here. So during construction and operation, 9 that's when we start to separate the salvage and stockpile the soil, overburden and lake bed sediments 10 11 to the extent practical from the disturbance area, so 12 keep the soil away; establish new, or expand the fish 13 habitat; progressively reclaim parts of the fine PK, so fine processed kimberlite containment facility; 14 15 progressively reclaim portions of the south and west mine rock and coarse PK, that's processed kimberlite 16 17 piles; and progressively backfill the 5034 and Hearne 18 pits.

During the closure phase, so after we finished operations, we want to remove all the potential hazardous material from the site. We want to dismantle and demolish all the buildings and dispose of the material either on site or off site, remove all above-grade concrete footings and foundation and dispose of that material; construct the

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1 additional fish compensation, as laid out in the compensation plan; and refill -- construct the 2 3 additional fish habitat enhancement structure, so any additional enhancement that we might do at closure; 4 5 and refill Kennady Lake. 6 Some of the other key closure 7 activities. Cut channels in Dike B, K and N, to begin 8 filling the areas around Tuzo pit, and allow for the 9 lowering of all dikes below planned lake elevation; upon refilling the lake, achieve appropriate water 10 11 quality; breach or partially remove dike A to connect 12 the reclaimed portions of Kennady Lake in Area 8; 13 monitor conditions over time; adjust the plan where we 14 need to; and -- and that's the -- apply the adaptive 15 management principles. 16 So if there's something that comes out 17 in the monitoring activity where we need to revisit 18 some of our plans, we'll do that. And comply with the 19 legal requirements for closure and reclamation in 20 effect at the time. 21 So this is just similar to the map that 22 Stephen had shown earlier. It has the configuration 23 of the fine proc -- processed kimberlite facility. 24 I'm on slide number 54. You know, I purposely made 25 the slide number big at the bottom of the right hand

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side for those people viewing it, so they can have a look.

3 And then -- and the -- and the mine rock piles, here's a better view, I think. So this is 4 5 very similar to the images that Stephen had shown for his water management plan. So at the end of the day, 6 7 we'll have the two (2) mine rock piles, the west and 8 the south. We'll have the coarse processed kimberlite 9 in a pile, and then the fine processed kimberlite in a 10 pile. And we'll restore the drainage around the lake 11 to the natural drainage pattern, as -- to the extent 12 practical. 13 So a little bit on key activities. The planned schedule, closure and reclamation activities 14 15 will occur throughout the eleven (11) years. 16 Reclamation will begin as soon as possible. Beginning 17 in year three (3) with the fine PK facility, extending 18 after mine closure, and final demolition of sites in 19 year nineteen (19). 20 Again, I've mentioned these proven 21 technologies and proven practices. De Beers will 22 incorporate those, as they become available. 23 And I'm -- I'm not going to go through 24 this in detail because I've already covered this off, 25 but within Volume I, in section 3, we have these

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102 tables of key activities and milestones. So, year 3, 1 2 begin progressive reclamation of the fine PK facility. 3 By the time we get down to year 6, we're into progressively reclaiming the course PK 4 5 pile. We'll be breaching Dikes B, K, and N in year 6 11, and year 11 is when most of the closure and reclamation activities will occur. We'll be 7 8 decommissioning the explosive storage and 9 manufacturing facilities as well as in year 11, and complete the construction of the fish habitat 10 11 compensation works. 12 Year 12, start to decommission the 13 process plants and service shop, and -- as well as 14 decommissioning the main power plant. 15 Year 13, we'll remove the permanent accommodation complex, achieve interim closure status 16 17 in year 13, reclaim the site roads not required for 18 reclamation monitoring. 19 Nineteen (19) plus years, that's when we'll start to breach Dike A, complete the refilling 20 21 of Kennady Lake, and the final demolition of the site. 22 Post-closure, that's twenty (20) plus 23 years, we'll be monitoring Kennady Lake to see whether 24 that lake -- how that lake's doing in terms of its 25 restoration to aquatic ecosystem.

103 1 So I guess, as a bit of a summary, the closure and reclamation planning have been considered 2 3 in all phases of the project. Progressive or ongoing reclamation is expected to begin and continue during 4 5 construction and operations, and will be completed 6 during closure. The conceptualcy (phonetic) in our plan includes both the long and short-term objectives 7 8 by ways of measuring our success at the site, and De 9 Beers will use the proven technology and proven 10 practices in reclamation. 11 I think that's it. I'm hoping there's 12 questions. 13 THE FACILITATOR HUBERT: Chuck Hubert 14 with the Review Board. Thanks very much. So, yeah, 15 questions, please. 16 17 QUESTION PERIOD: 18 MR. STEVE ELLIS: Sorry for -- oh, 19 Steve Ellis here. Sorry for lurking in the back. I don't want to disturb people when I run out to take 20 21 calls, but Steve Ellis with the Treaty 8 Tribal Corp. 22 A couple of questions, one (1) with -- just with 23 regards to the no net loss program that might be 24 developed. 25 I'm not sure if -- do you guys have

some plans now on how that might look, or is that 1 2 something to be developed over the next few years of what exactly you guys will do to achieve no net loss? 3 MS. VERONICA CHISHOLM: It's Veronica 4 5 Chisholm from De Beers. We are developing that plan 6 now, and we're in consultation with DFO on -- very 7 early discussions on that. I don't know whether you 8 have anything else to add on that, John. 9 MR. JOHN FAITHFUL: John Faithful. 10 No, Veronica, you've -- you've captured the -- the 11 position that we're currently in and the progress as 12 we move forwards. 13 MR. STEVE ELLIS: Steve Ellis. Just 14 to follow up, do you guys expect to consult at all 15 with the Aboriginal parties? 16 MS. VERONICA CHISHOLM: You know, I meant to say that, so I'm glad you brought that up, 17 18 Steve. Yes, we do plan to discuss that with the 19 Aboriginal communities as we move forward with the plan, because obviously PK is very important in coming 20 21 up with that final fish habitat compensation plan. 22 MR. STEVE ELLIS: Steve Ellis again. 23 Just as a bit of a flag here, certainly for the First 24 Nations that I work for, Deninu Kue, Yellowknives, and 25 Lutsel K'e, a no net loss approach similar to Diavik,

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where essentially what we consider to be undisturbed 1 2 lakes were mucked around with, is not something that we'd be looking at doing. So we'd be much more 3 favourable to something that, in fact, provides a net 4 5 benefit to the communities, and maybe some sort of 6 creativity there would be encouraged. We're not sure 7 what DFO has to say about that, but I look forward to the consultations. 8 9 MS. VERONICA CHISHOLM: Veronica 10 Chisholm from De Beers. Thank you very much. We 11 appreciate that advice and guidance, and -- and look forward to meeting with the Aboriginal communities. 12 13 MR. STEVE ELLIS: Again, a total --14 Steve Ellis again. On a -- on a different front, so 15 there's three (3) identified pits that would be mined

17 other pits that might become economic over the next 18 fifteen (15) years, say, that may expand either the 19 life of the mine or the scope of the mine? 20 Hi. MR. ANDREW WILLIAMS: Andrew Williams from De Beers. Yeah, Steve, at the moment, 21 22 the three (3) main pits are -- constitute the mine 23 There is possibilities that additional material plan. 24 might be added to the mine plan in the longer term. 25 At the moment, we don't have those resources

for sure. Is there any potential opportunity for any

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identified. Some of the kimberlites continue to 1 extend with depth, so there's a possibility the pits 2 might be deepened. So there is a possibility. 3 We will, of course, during the 4 5 operations continue to look for other sources of ore 6 and will obviously adapt the -- the plan as required 7 should we find something or -- or an extension. It's 8 quite often when you start mining you realize that 9 things have actually changed somewhat from your geological models before you start, so. 10 11 MR. STEVE ELLIS: Yeah, Steve Ellis 12 again. I -- I guess if there's anything we've learned 13 from the existing mines is that things change, right. And so I -- I quess what I'm hearing is that there may 14 15 be other pits that might be economic as well as the 16 existing three (3) pits might have more than currently projected? 17 18 MR. ANDREW WILLIAMS: Hi, Steve. Just 19 to clarify, at the moment, we don't know of any other pits. There is -- there are -- there are other 20 21 kimberlites on the property. Pardon me. 22 23 (BRIEF PAUSE) 24 25 MR. ANDREW WILLIAMS: Andrew Williams

107 again. There are other kimberlites, but we -- the 1 economics of them at the moment don't indicate that 2 they'll -- they'll become economic in any foreseeable 3 time. 4 5 THE FACILITATOR HUBERT: Thanks very 6 much. Any further questions on the closure and reclamation discussion? 7 8 9 (BRIEF PAUSE) 10 11 MR. PAUL GREEN: It's Paul Green with 12 Water Resources. I'm just looking at -- I guess you 13 had that figure slide -- I've lost my sheet, but it 14 was the one (1) that showed the photo with the waste 15 rock piles and the coarse kimberlite. Yeah. 16 Is there a figure within your documents 17 showing sort of the high -- where -- like, I quess to 18 get an idea of what the water level will be within the 19 waste rock piles and the kimberlite piles, is there a figure sort of showing the high -- the high watermark 20 21 and low watermark of -- of Kennady Lake in relation to the -- where those piles will exist? 22 23 MR. WAYNE CORSO: It's Wayne Corso. 24 The high level or the -- the reclamation water level 25 at -- at closure will be some -- the same as it was at

the -- at the be -- pre-development. Yeah, four 1 twenty point seven (420.7) is the number. But does --2 does that answer your question, or you're -- you're 3 looking for during operations? 4 5 MR. PAUL GREEN: No, I quess that 6 answers my question. And -- and a second part to that Is what -- what sort of fluctuation is there in 7 is: the lake level like at present, low water compared to 8 9 high water? 10 And I guess where I'm going with this 11 is that there'll be contact, I guess, with lake water, 12 you know, within the -- within the piles and just 13 looking at, you know, the question of any sort of flushing and perha -- potential meteral -- metal 14 15 release as you get water levels moving up and down 16 within the fi -- within the piles. 17 I'm just wondering if it's -- you know, 18 what -- what the magnitude of that may be or -- or 19 what -- or what the thoughts are on that front. 20 MR. JOHN FAITHFUL: John Faithful, 21 from Golder Associates. Thanks for that, Paul. I 22 can't spe -- speak specifically to what the actual 23 variability in the water level is on a given year. Ι 24 can speak to what -- to what the variability is for --25 for Area 8 and -- and Lake N11, for example, but I

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109 will provide a response to -- to the water level in 1 2 Kennady Lake. 3 With respect to the -- the potential for mobilization of metals, that's -- and -- and any 4 5 other constituents as a result of -- of water 6 progressing up and down through those piles, that's --7 that's addressed in -- in the water quality 8 assessment, and -- and we can provide that 9 information. You'll hear that information on 10 Thursday. 11 But our -- our assessment of -- of 12 water quality in Kennady Lake through closure is one 13 that -- that con -- that conforms to -- to guideline 14 expectations. 15 MR. JULIAN KANIGAN: It's Julian 16 Kanigan with Aboriginal Affairs. I just had more of a 17 general question about closure. And in thinking about 18 the -- the mine site eleven (11) year projected life, 19 and then in thinking about some of the reviews of 20 closure plans that we've seen in the north in the 21 recent past, we're getting close, I mean, three (3) to 22 five (5) years to -- to get something that's more 23 substantive than a conceptual closure plan. 24 And I'm just wondering, the first 25 question I guess is: What are De Beers' thoughts on a

1 timeline for heading towards something more interim 2 and then final? It seems to me that it would need to 3 happen a little more quickly than in some other mines 4 cases.

5 The second question is -- is related to 6 a bullet on one (1) of the slides, I can't remember 7 the number, but mentioning that De Beers is going to 8 try and liaise where they can with other mines in 9 order to build on some of the research that's already been done. And I think that's going to be fairly 10 11 important for a mine that has sort of a short 12 operating life.

13 I don't know if -- you -- you'd really 14 need to set out your research priorities and ideas 15 right now in order to get something substantive that 16 you'd be able to use in your own reclamation. 17 So I'm looking maybe for -- for an 18 answer on specific ways or things that you've already 19 done or will do to liaise with -- with other companies, because I know that may be difficult, so 20 21 sort of a two (2) part question there. MS. VERONICA CHISHOLM: 22 Veronica 23 Chisholm from De Beers. So to answer your first 24 question on how quickly you might expect a more 25 detailed C and R plan, I think you have some

111 quidelines at Aboriginal Affairs on the quidelines and 1 I think they may be two (2) years and five (5) years, 2 3 a revision to the plan. You can correct me if I'm wrong. So we would follow those government guidelines 4 5 in terms of submission. 6 In answer to your second question, liaising with the other companies, De Beers is -- has 7 8 already started to do some consultation, not 9 specifically with reclamation with the other 10 companies. 11 And also we do have some reclamation 12 activities being undertaken at Snap Lake. So ha -- we 13 don't have a formal process per se, but we would look for opportunities and look at the information that 14 15 they would choose to generate, and certainly we would 16 be open to any government documents that may be 17 produced resulting from those two (2) mines from here 18 on, for example. 19 And I don't know whether anybody has 20 anything else to add from the De Beers' team. Is that 21 good? 22 MR. JULIAN KANIGAN: Thanks a lot. 23 It's Julian Kanigan again from Aboriginal Affairs. 24 This isn't a followup, it's another question. In 25 thinking about priorities from -- from my point of

112 view for closure, one (1) of them would be the -- the 1 2 post-closure monitoring of water quality. 3 And one (1) of the things that we've seen at other diamond mines in the North is elevated 4 5 levels of metals, nutrients coming off of mine seepage 6 or being recorded in mine seepage. And I'm thinking about your reclamation 7 plan in terms of refilling the -- the lake over time. 8 9 You'll be monitoring the water quality and there's a 10 commitment to look at adaptive management. So if -if things aren't going the way that you'd predicted, 11 what do you do? 12 13 I'm just trying to get a sense maybe of 14 -- it -- it seems to me in the closure plan there's 15 sort of a two (2) year period right after operations 16 are done when you'll be on site, there'll be lots of 17 capacity to do things if -- if things aren't working 18 out as planned. 19 And then there's a time when you're off 20 site and maybe the monitoring is a little more inter -21 - intermittent and there's less capacity, less 22 availability of equipment. 23 Maybe just run me through a -- a couple 24 different scenarios of how -- how adaptive management 25 would work in those two (2) settings.

MS. VERONICA CHISHOLM: 1 Veronica 2 Chisholm, from De Beers. I'm going to ask John Faithful to perhaps speak to that one, or ... 3 4 MS. VERONICA CHISHOLM: Oh, sorry, 5 Wayne, Wayne Corso. 6 MR. WAYNE CORSO: Okay. Wayne Corso 7 here. As far as the -- the actual process, you know, 8 first of all, the -- the -- the adapt -- adaptive management and response to monitoring, like one (1) of 9 the strengths of the -- of the entire program is that 10 11 it starts during operations. 12 So most of the -- say the fine PK gets 13 deposited and covered within the operating lifetime of 14 the mine. So you're not waiting until that -- those 15 two (2) years after closure before you actually start to, you know, maybe see something that -- that might 16 17 be different than what you'd predic -- predicted in 18 something like that. So that's one (1) of the real 19 strengths of the program. 20 The other thing is that the -throughout the eleven (11) years is -- is the 21 22 operating -- operating life of the mine. Those --23 those two (2) years after, it's -- it's basically the 24 mine stops processing ore and all the equipment is --25 depending on what month it stops, of course, all the

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equipment that was used in the operation is still 1 2 there. So you have all that opportunity to do whatever you need to that's -- that's earth moving 3 related or demolition related before that gets moved 4 5 off. 6 The period after that -- that demolition and -- and large demo is not any -- any 7 8 less -- there's not any less monitoring. All it is, 9 is we don't need as much of a presence on site. So there's still a small camp on site to -- to carry out 10 11 the monitoring. There's still some equipment on site 12 that's required to just keep things moving, you know, 13 keep the camp, keep power being generated, keep snow 14 removed, and that sort of a thing. 15 So that period of refilling the lake is 16 really -- I -- I don't see any slowdown in the 17 monitoring, you know. Correct me if I'm wrong, but --18 but the strength of the plan is that the -- most of 19 the reaction to what the actuals are, from the 20 monitoring program, can occur during the operating life of the mine. 21 22 THE FACILITATOR HUBERT: Thanks verv 23 much for that question and response. Any further questions on that topic, or -- or related to closure 24 25 and reclamation?

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115 1 (BRIEF PAUSE) 2 3 MS. MADELAINE PASQUAYAK: Yeah, I just have a little question here. There was a question 4 5 asked. I understand that there is three (3) 6 identified pits. 7 In the likelihood that there are other potential pits 8 opening in the area, would that mean that the 9 scheduled key activities would change if -- if -- if they did decide that they would mine these other 10 11 potential pits? 12 MR. ANDREW WILLIAMS: Thanks, 13 Madelaine. Andrew Williams, from De Beers. 14 At the moment, Madelaine, I think you 15 used the word potential and that's very important. 16 The -- we do not know, at this point, of any other pits that we could mine. So -- at least that would be 17 18 economic in the foreseeable future. 19 If we did find something then, yes, it 20 would obviously make some changes, or there would be some changes required in order to accommodate that. 21 22 And that wouldn't take place, though, until we'd 23 identified what they might be. And at this point in 24 time, I don't know what -- what they could be, so, 25 yeah. Thanks.

116 1 MR. ALAN EHRLICH: Alan Ehrlich, here. 2 I've got two (2) -- one (1) is a comment, one (1) is a question, and the other one (1) I'm not sure of. But, 3 my understanding is, when it comes to possible future 4 5 resources in the area, there are, in fact, some legal 6 limits that bind what developers are allowed to 7 describe, as well, in a post Bre-X world. 8 You know, there are laws that -- that 9 say that you can't really talk about speculative stuff and you can't put it out there. And I know that some 10 11 companies have a -- you know, a challenge when they're 12 trying to be forthright about what's reasonably 13 foreseeable, but also act within the -- the limits of -- of the loss. So I -- I -- you know, I certainly 14 15 understand that there is a limit to the amount of 16 detail you can go into as to what else may be in the 17 area. 18 At the -- the same time, the questions 19 that we've heard from the Tlicho Government and from the Akaitcho Treaty 8 Tribal Corp, really are -- are 20 21 based on their experiences with -- with past development expanding. And they -- they do want to 22 23 understand how the big picture is, you know, and --24 and what's coming down the pipe. 25 So I imagine that as soon as De Beers

1 is able to share any information on that, certainly 2 it's been forthright and open to date and I expect 3 that it will continue to be. And I see nodding along 4 the -- the De Beers side of the table here, so that's 5 -- that's encouraging.

6 With respect to the question about no 7 net loss planning and working out details, De Beers 8 has indicated that it will work with DFO at a later 9 time to figure that out. It's worth remembering that 10 the Panel respects that regulators have an important 11 role and duty and it relies on them to -- to do it at 12 that part of the process.

The way the environmental impact review process goes, the Panel has to decide whether or not this project is likely to have a significant adverse effect, and whether or not -- if there is, whether or not it's been adequately mitigated before it can go to regulators.

19 In considering whether or not it's been 20 adequately mitigated, it needs to understand what the 21 mitigations are and a lot of this project has to do 22 with the lake.

23 So don't wait too late in the game 24 before you figure out how you plan to mitigate your 25 main impacts on fish and aquatic habitat. The Panel

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will need to consider this. And it's important that you have this information out and I would suggest you have the information out before the second round of information requests so that parties have a chance to clarify.

6 It's very helpful if you can get some 7 of these issues out before the hearing so that the 8 hearing doesn't become a morass of technical argument. 9 I would strongly encourage De Beers to make every effort it can to -- to clarify how it -- it plans its 10 11 no net loss type mitigation soon enough in the process 12 so that we avoid problems later on. This is not 13 discouraging you from working with DFO to flesh it 14 out, I'm just saying that the timing is important from 15 the perspective of our process. 16 Does De Beers wish to comment on that? 17 MR. ANDREW WILLIAMS: Pardon me. 18 Andrew Williams from De Beers. Yeah, Chuck, we --

19 sorry, Alan. I'm getting confused with the 20 moderators. No, we take those comments, and they're 21 valid comments, and we're working at what we think is 22 a reasonable pace in order to establish the concepts 23 for compensation. Once those concepts are -- are 24 accepted, we would then move on to the next phase, and 25 we would continue to work continuously throughout the

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coming year. And, as you say, IR-2 would be a good 1 time to have those concepts well bedded down, and that 2 would be similar to our internal timeline. 3 MR. ALAN EHRLICH: 4 Thanks, Andrew 5 Williams. I was actually saying prior to IR Round 2, 6 so that if parties need to clarify they -- they can do 7 it. But, I mean, that it sounds -- what you say sounds positive, and like it will -- it will fit in 8 9 well. 10 I have another question. It's just a little bit detailed. I probably read this in the EIS, 11 12 but it slipped my mind, and this is to -- I guess it's 13 to Veronica. You mentioned the twenty (20) plus years you'll be -- you'll be monitoring. For how long does 14 15 De Beers expect it will have to monitor the site after the mine is closed? 16 17 MS. VERONICA CHISHOLM: Veronica 18 Chisholm from De Beers. I guess the simple answer on 19 there -- on that is we will monitor until the ecosystems are along a trajectory that we believe will 20 21 be self-sustaining and no longer require long-term maintenance, as per the two (2) objectives that we --22 23 or the two (2) goals that I specified on the first 24 slide. So pinning down the exact timeframe, I can't 25 do that for you, and I think it would be irresponsible

1 to do so. So that's what I will say. Until we meet 2 those primary goals, we will continue to do monitoring 3 post closure.

4 THE FACILITATOR HUBERT: Thanks very 5 much. Any further questions?

This is 6 MS. SARAH OLIVIER: Yeah. 7 Sarah Olivier with DFO. Maybe to just go on Alan's 8 point about closure and how long after post closure 9 you guys are planning on doing some monitoring. And I noticed on the -- the one (1) slide, it mentioned that 10 11 it'd be twenty (20) plus years, but if you calculate 12 it back it's actually six (6) years from actual 13 closure that you guys would be doing post-closure 14 monitoring.

15 And I guess my question was: In the 16 EIS, there's mention that it would take close to 17 seventy (70) years for fish populations to re-18 establish within Kennady Lake and that, again, there 19 would be thoughts of looking at doing some benching 20 and habitat enhancements within Kennady Lake. So I 21 guess my question was: How long do you think post-22 closure monitoring would be needed to, again, show the 23 success of whether or not those populations are re-24 establishing within Kennady Lake? 25 MR. JOHN FAITHFUL: John Faithful from

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Golder Associates. Thanks for the question, Sarah. 1 The -- the EIS also provides an indication of the --2 3 of the -- of the succession in terms of the lake recovery with respect to functionality. And it -- it 4 5 sort of initiates with the -- the lower trophic 6 organisms to -- to -- to -- to the larger-bodied 7 fish over that time frame that you mentioned. 8 The -- the -- the monitoring, as -- as 9 Veronica pointed out, would -- would be compared against some trajectories that were placed in -- in 10 11 the EIS in terms of -- of that succession, and I guess the -- the monitoring would -- the -- the -- the 12 13 extent of the monitoring would be based on the -- on 14 the findings of the -- of the program as it moved 15 along. 16 MS. VERONICA CHISHOLM: Veronica 17 Chisholm from De Beers. I also just wanted to add 18 that on Thursday and Friday we'll be discussing the 19 aquatic session in detail, and there will be some more 20 detailed information on the fish compensation plan and 21 some of the EI -- some of the information that we 22 included in the EIS. So we also will be reviewing 23 that in detail, but I don't know, John, if you had a 24 follow-up. 25 MR. JOHN FAITHFUL: John Faithful from

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122 Golder Associates. I -- I just wanted to follow up on 1 2 my previous comment, that the -- the expectation is that, once the -- once Kennady Lake is reconnected to 3 4 the downstream waters that it would be expected that 5 the fish populations would start to become re-6 established. I think it's the question in terms of our -- our overall lake recoveries on -- on the -- on 7 8 the steady state of the -- the stable fish community with respect to the -- to the larger fish pop -- fish 9 -- larger fish. 10 11 THE FACILITATOR HUBERT: Thanks very 12 much for that response. Chuck -- Chuck Hubert, with 13 the Review Board. A follow-up question from DFO? 14 Anything further from parties on the closure and 15 reclamation subject or anything reasonably related? 16 17 (BRIEF PAUSE) 18 19 THE FACILITATOR HUBERT: Okay, great. 20 So I think we can proceed to your next stage in your 21 presentation, please. 22 MS. VERONICA CHISHOLM: Thank you, 23 Chuck. Veronica Chisholm, from De Beers. We're going 24 to have John Faithful talk about the structure of the 25 EIS that was originally scheduled for first thing, but

123 we decided to put it towards the end of the project 1 2 description. 3 4 (BRIEF PAUSE) 5 6 THE FACILITATOR EHRLICH: I'm just 7 going to ask our remote participants, to give them a heads-up that we're starting up with the presentation 8 9 again. What slide number are you planning to start 10 with? 11 12 PRESENTATION BY DE BEERS RE STRUCTURE OF EIS: 13 MR. JOHN FAITHFUL: Alan, I'll start 14 with slide 1. 15 THE FACILITATOR EHRLICH: Slide 1 sounds like an excellent beginning place. And --16 17 MR. JOHN FAITHFUL: Oh, it's actually 18 slide 2 it says. 19 THE FACILITATOR EHRLICH: Sorry, slide 20 2. Can you go back to slide -- to the cover. So, in 21 this case, remote participants should open the presentation which is titled, "The Gahcho Kue project 22 23 environmental impact review process." And it'll start 24 on slide 2. 25 You should have the PDF in front of

And you can be ready to follow at your leisure. 1 vou. 2 We're getting a correction from the De Beers team. 3 The presentation is titled "EIS structure" or "Structure of the EIS." We're not sure which. 4 But if 5 you open up -- it's the latter. If you opened up 6 that, then you should be looking at the right 7 presentation, and we're just starting it now. Thank 8 you. 9 MR. JOHN FAITHFUL: Thanks very much, 10 Alan. So we've -- we've heard today -- John Faithful, 11 from Golder Associates. I'm going to talk initially 12 around the structure of the EIS. It's go -- we're 13 going to start off with the timeline that -- that 14 shows us where we are right now and -- and gives us --15 give a bit of an overview of -- of how we got here. I'll talk a little bit about the 16 17 structure of the EIS and some of the rationale for why 18 the EIS has -- is presented in the manner that it has 19 been presented. And then that will be the lead in for 20 the discussions that you're going to hear this 21 afternoon and through the les -- rest of the week on 22 the -- the actual assessment within the EIS. 23 I'm now on slide 2, and a lot of the 24 information that's presented in the table that you can 25 see on this slide Alan mentioned a little earlier

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1 today. We're here, November, 2011, at the EIS 2 analysis session. What proceeded that was -- was a 3 number of milestone events that -- that have actually led us to -- to the point that we're here today. 4 5 In November, 2005, De Beers had an 6 application for a Type A water licence and land use 7 permit. In January of 2006, Mackenzie Valley 8 Environmental Impact Review -- Review Board, MVEIRB, 9 initiated an environmental assessment. In June of 2006, there was a decision that was -- that -- to 10 11 proceed with an environmental impact review. And in 12 2007, October, the draft terms of reference for the 13 environmental impact statement were issued. 14 As Alan pointed out, on December the 15 23rd in 2010, the EIS was submitted. In March of 16 2011, the panel's conformity determination was -- was 17 issued with a no -- with a deficiency statement to --18 to provide some responses to several issues. In April 19 of 2011, the panel's draft work plan for the 20 environmental impact review process was issued. And 21 in May and July De Beers provided the conformity 22 responses to -- to -- to the deficiency statement. 23 And in July the panel then determined 24 that conformity had been reached with the EIS, which 25 allowed for the final work plan to be issued.

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Participant funding was awa -- awarded by Aboriginal 1 2 Affairs and Northern Development in August 2011. And 3 in October De Beers hosted a -- an EIS overview and project description workshop. 4 5 I'm now moving onto slide 4. And this 6 slide shows a photograph of Paul Cobban, the previous 7 permitting manager for De Beers handing over the EIS 8 to Alan on December the 23rd, 2010. 9 This -- the -- the binders that you see 10 and the -- the associated materials represent a copy 11 of the EIS. It is quite a -- a substantial document, 12 quite a substantial undertaking by De Beers to -- to -13 - to -- to produce the EIS. It's a document that --14 that comprises of approximately twelve thousand 15 (12,000) pages. I think there's -- there's eighteen (18) volumes and associated materials that -- that 16 17 cover off the baseline information as well. 18 The size of the EIS really reflects 19 that there were a num -- quite a large number of issues that were identified within the terms of 20 reference that had to be addressed. It -- it reflects 21 22 the -- the complexity of the assessment and the 23 analysis that was required to -- to address the -- the 24 -- the requirements within the terms of reference. 25 Now, the structure of the EIS, well,

it's built upon, as I mentioned before, the -- the 1 terms of reference that were provided by the panel. 2 3 It -- the terms of reference arose from the environmental assessment conducted by the panel that -4 5 - that identified issues through a series of scoping 6 sessions which were technical workshops and hearings that were undertaken here in Yellowknife and in the 7 Northwest communities in an -- in an endeavour to --8 9 to not only identify all of the issues that could be 10 associated with the project that would require assessment but also to try and prioritize those into -11 12 - into levels of importance. 13 And these were -- these topics that 14 were indicated as being -- as requiring some -- some 15 degree of an analysis in detail and -- and detail 16 within the EIS, were actually clearly outlined and 17 classified as either being key lines of inquiry or 18 subjects of note. 19 Now the key lines of inquiry, of which there were seven (7) key lines of inquiry, four (4) by 20 21 physical and three (3) socio-economic, required a grea 22 -- a high level of analysis and detail within the --23 the EIS. And within the -- the -- the document that -24 - that has been prepared is where you will find the

25 most detailed level of assessment within the -- within

the -- with -- within the overall assessment for the 1 2 EIS. 3 There were subjects of note. Now these were still substantive issues that needed to be 4 5 addressed as part of the terms of reference, but they 6 didn't require the same level of detail of analysis. However, they were still -- still carried forward with 7 8 a -- with a -- with a fair degree of attention and 9 detail. 10 This approach to -- to developing other 11 environmental impact statements or development --12 developer's assessment reports is -- is becoming 13 a -- a more common feature in the way that EISs are --14 are being developed within the -- the Northwest 15 Territories. They move to a more holistic assessment 16 approach where -- integrate a number of key 17 disciplines in order to address both the land and the 18 water, and the people that depend on those -- those 19 important issues. It moves away from the subject-20 specific types of EISs that have -- that have occurred 21 in the past, particularly in relation to -- to mining 22 developments in the Northwest Territories. 23 In addition to the assessment pieces 24 that were set within the EIS, there are also baseline 25 reports that -- that I listed as -- or, that I

presented as either annexes or addenda to the EIS. 1 2 I'm now on slide 6. Now this provides 3 an overview of the -- of effectively the tur -- the table of contents within the EIS. There are seven (7) 4 5 volumes that comprise fourteen (14) sections, which 6 also includes -- includes the plain language summary. And then a series of annexes and addenda which provide 7 the baseline information. 8 The -- the addenda that -- that -- that 9 10 are supplemental to the annexes are found within the 11 wildlife and some of the aquatics disciplines and they 12 provide de -- more up to date information for 13 additional baseline surveys that were conducted in 14 2010. The other baseline information really carries 15 in more historic baseline information as well as baseline data that was collected between 2006 -- 2004 16 17 and 2007. 18 For the -- for the various volumes 19 within the -- the EIS sections, Volume I really reflects a lot of the introductory -- introductory 20 21 information. A lot of the project description. The 22 traditional knowledge. It carries the assessment 23 approach. And it also provides information around the 24 community, regulatory, and the public engagement parts 25 of -- of the environmental impact assessment.

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Volumes II to V, represent the 1 2 biophysical key lines of inquiry. Section -- Volume 3 II has Section 7, which is the key line of inquiry for caribou. Volumes III to V are the aquatic key lines 4 5 of inquiry. They've been split between water quality 6 and fish within Kennady Lake, the -- the downstream water effects, and the long term biophysical effects 7 in closure and reclamation. 8 9 It's important to point out that 10 sections -- Section 10, which is the long-term 11 biophysical effects, really provides a lot of the 12 detailed information around the closure aspects of Sections 8 and Section 9, which is the Kennady Lake 13 14 and the downstream water effects. With the -- the one (1) unique element to it, which is the closure and rec 15 16 plan, or the clo -- the conceptual closure and rec 17 plan, which is outlined in -- in Volume V. A summary 18 of that closure and reclamation plan is found in the 19 project description. 20 Section 6 represents the subject of 21 note, the biophysical subjects of note, and also the 22 project description related subjects of note. And so, 23 you would find the subjects of note on alternative energy. And climate change would have been included 24

25 within -- within the biophysical subjects of note.

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Section 7, or Volume VII, I should say, 1 contains the socio-economic impact assessment, which 2 includes both the key lines of inquiry that are 3 specific to the socio-ec side of things, but also the 4 5 subjects of note related to the socio-ec assessment. It also includes the cumulative effects section and 6 the conclusions. 7 8 I'm on slide 7. The next three (3) 9 slides specifically talk to sections that are relevant to either the terrestrial, the aquatics, and the 10 socio-ec assessment. And so, for parties that are 11 12 interested in the -- the terrestrial assessment and 13 where to find very focussed assessments, either through the key lines of inquiry or subjects of note, 14 15 this table provides almost an overview of -- of where 16 best to -- to initiate your -- your -- your -- your 17 review. 18 If there is any other information 19 that's -- that's -- that's pertinent to either the -to either the terrestrial, aquatics, or the socio-20 21 economic assessment, that you don't find in this --22 this high level overview, please don't hesitate to --23 to drop by the -- the De Beers table or to Lisa to ask 24 for any specific assistance. 25 And we've outlined the -- the section

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numbers that are relevant to the aquatics assessment 1 and for the socio-economic assessment on -- on -- on 2 slide 9. The important point to note out, that I 3 alluded to a little earlier, within Section 12, which 4 5 is the socio-economic impact assessment, you find both 6 the key lines of inquiry and the subjects of note 7 covered off in that particular section. 8 That provides a -- a bit of an overview 9 as to the -- the -- the structure of the EIS. And that's a -- a seque, really, into the next 10 11 presentation, which is the assessment approach, which 12 John Virgl will provide. 13 THE FACILITATOR HUBERT: Excellent. 14 Thanks very much. I quess we can ask -- any questions 15 on the -- the structure there? It's fairly -- fairly 16 general. If not, we'll continue right into the 17 assessment approach. 18 19 QUESTION PERIOD: 20 MS. MADELAINE PASQUAYAK: Madelaine --21 Madelaine Pasquayak. I notice on slide 2, timeline, I 22 didn't notice any community visits. 23 MR. JOHN FAITHFUL: Thank you very 24 much for that, Madelaine. That's -- the point is 25 noted.

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133 MR. ANDREW WILLIAMS: Andrew -- Andrew 1 Williams from De Beers. I should point out, 2 Madelaine, that we do intend to -- to have a number of 3 community visits. That was just an oversight on the 4 5 slide. Thank you. 6 MS. VERONICA CHISHOLM: Veronica Chisholm from De Beers. I also want to note that 7 8 tomorrow, Cathie Bolstad will be presenting the 9 community engagement that's been completed to date, and that will have all of that information as well. 10 11 THE FACILITATOR HUBERT: Thanks very 12 much. We'll look forward to that. In the meantime, 13 let's continue with the next presentation from De 14 Beers, please. 15 Chuck Hubert here with the Review Board. Just for clarification for those on the 16 17 webcast, the next presentation is entitled "Assessment 18 approach." It's a separate PDF on the public registry 19 for the -- for the Board, so if you'd like to check 20 that one out that's where we will be proceeding to 21 now. Thanks. 22 23 PRESENTATION BY DE BEERS RE ASSESSMENT: 24 MS. VERONICA CHISHOLM: Veronica 25 Chisholm from De Beers. I just -- we haven't

134 introduced John Virgl. He's actually been working on 1 the wildlife section, impact section, and he's going 2 to be presenting the -- the general approach to the 3 assessment right now, so I'd like -- I thought I'd 4 5 like to introduce him. 6 MR. JOHN VIRGL: Good afternoon. My 7 name is John Virgl, and what I'll be talking about 8 today is the assessment approach that was used in the 9 Gahcho Kue -- for -- for -- for the Gahcho Kue 10 project. So I will start on slide 2. 11 Okay. The approach was developed to 12 provide a transparent, consistent, and systematic 13 process for analyzing and assessing the significance of effects from the project throughout all the key 14 15 lines of inquiry and subjects of note. The assessment 16 -- the EIS assesses effects through air, land, water, 17 and people. Air includes air quality and noise 18 levels; the land includes terrain and soils, also 19 vegetation and wildlife; water includes ground surface and surface water quality and quantity, and fish and 20 21 other aquatic life; and the people includes the 22 archaeological -- archaeological, cultural, social, 23 and economic components. 24 It's important to note that a process 25 is iterative, and that means there's feedback between

the project design engineers and the environmental 1 scientists, and, where opportunities existed, tried to 2 3 implement new designs or refine designs to limit the effects on the environment from the project. 4 5 Slide 3. The key issues and 6 environmental effects were identified from a number of 7 sources and involved the project description and 8 preliminary knowledge of the existing environment. 9 This is really what we call a scoping of project effects pathways, where we look at all the potential 10 11 interactions between the project and the environment. 12 Issues were identified during 13 engagement with the public, First Nations, and Metis, 14 and the government. Also, the terms of reference for 15 the Gahcho Kue project environmental impact assess --16 or statement, and the report from the environmental 17 assessment by the Mackenzie Valley Environmental 18 Impact Review Board, also identified key issues and 19 effects. And, finally, the scientific knowledge and experience with other mines in the NWT and Nunavut was 20 21 also used to identify potential interactions. 22 Slide 4. A basic element of all 23 environmental assessment -- assessments is to identify 24 value components. Value components are those physical, biological, cultural, social, and economic 25

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properties of the environment that are considered
 important to society. Value components were mostly
 identified in the terms of reference and through the
 issue of scoping sessions in the communities by the
 MVEIRB. In the EIS, value components really represent
 the key lines of inquiry and subjects of note.

7 Assessment endpoints are the key 8 properties of value components that should be 9 protected for use by future human generations. This 10 incorporates sustainability to the concept of the 11 assessment endpoint. Assessment endpoints are used as 12 the final endpoint to determine or assess the 13 significance on -- of the impacts on value components. 14 Measurement endpoints are quantifiable 15 expressions of assessment endpoints, such as changes 16 in chemical concentrations, rates, area, abundance,

17 full-time equivalents, or family income. Measurement 18 endpoints can also be qualitative, such as changes in 19 wildlife movement and behaviour, or changes in social 20 measures such as community wellness. Measurement 21 endpoints really represent the attributes of the 22 environment, population, and communities that when 23 changed can result in effects on the assessment 24 endpoint for value components.

25

Slide si -- 5. There were many value

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1 components, assessment and -- and assessment and 2 measurement endpoints used in the EIS. For example, 3 surface water is a value component. The assessment endpoint for surface water was the suitability of 4 5 water quality to support a viable qua -- aquatic 6 system, ecosystem. And measurement endpoints included 7 such things as changes to physical characteristics of water, water chemistry, and water levels and flow. 8 9 Fish and fish habitat, also a value 10 component, and the assessment for -- for that VC is 11 the persistence of fish habitat in populations. 12 Measurement endpoints included things like changes in 13 chem -- water chemistry, stream flow and lake levels, benthic invertebrates, and the plankton community. 14 15 Now, soils is a valued component in --16 in the EIS, but it has no assessment endpoint. 17 Instead, it has measurement endpoints such as changes 18 in soil chemistry, quality, and distribution, and 19 erosion potential that are used by vegeta -- or by vegetation discipline to assess effects to that -- to 20 21 the assessment endpoints in that discipline such as 22 effects to traditional use plants and listed plant 23 populations. 24 Slide 6. Defining the spatial and 25 temporal boundaries is fundamental for analyzing,

1 assessing effects to value components at the 2 appropriate scales. The EIS follows the recommended 3 study areas in the terms of reference that should be considered for the different key lines of inquiry and 4 5 subjects of note. 6 The study areas were designed to 7 capture the factors influencing the geographic distribution and movement of value com -- that are 8 9 specific to those value components. And sometimes a 10 number of different spatial scales were used to 11 describe baseline conditions and analyze and predict 12 effects. 13 The local study area was intended to 14 capture the direct effects from the project, such as 15 changes in geology, soil, habitat loss, water quantity 16 and quality, and individual animal mortality. It also 17 captures the small-scale indirect effects on the 18 environment such as changes to soil and vegetation 19 from dust deposition. 20 The regional study area captures those 21 effects that go beyond, or changes that go on -- go 22 beyond the -- the local study area. These are effects -- larger-scale indirect effects such as noise, dust 23 24 and air emissions, and changes in animal movement and 25 behaviour.

It's really designed to capture the 1 2 maximum predicted spatial extent of effects from the 3 project. So, in other words, it's the maximum geographic extent of effects from the Gahcho Kue 4 5 project. In some cases, beyond regional study areas 6 were used for quantifying the baseline conditions and measuring and predicting cumulative effects on value 7 8 components that have very large geographic 9 distributions and movement, such as caribou and 10 traditional land use. 11 Slide 7. The temporal boundaries 12 really consisted of two (2) components, or two (2) 13 elements. The development phases of the project, such as construction, operation, and closure, these contain 14 15 the activities, or the stressors, related to each one 16 (1) of those different phases. 17 The duration of the effects or the 18 changes from those different activities and stressors 19 is not only related betw -- to the time that the 20 activity or the stressor is there on the landscape, but also includes the time for the effect to be 21 22 reversed on the value component. So it's including 23 reversibility, which is basically the -- the predicted 24 amount of time when the project has no lon -- is no 25 longer influencing the value component.

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It incorporates sustainability and it 1 really links the duration of the project effects on 2 3 the VC, to the amount of time that human use of ecological resources will be affected. In other 4 5 words, it provides context for the number of human 6 generations that may be influenced by the project. 7 Slide 8. Pathway analysis is a very 8 important component of the assessment approach. Ιt 9 was used to focus the assessment on those key issues and effects on the value components. 10 It's a 11 screening-level assessment that uses environmental 12 design features in mitigation, experience, logic, and 13 science to distinguish no linkage, secondary, and primary pathways. It considers all of the potential 14 15 link -- linkages identified, and then applies the 16 environmental design features and mitigation to remove 17 the pathway or limit the effects to the value 18 component. 19 Environmental design features and mitigation are things such as project designs, 20 21 environmental best practices, management policies and 22 procedures, and social programs on the socio-economic 23 side of things. And again, it's an iterative process

24 between the project design engineers and the

25 environmental scientists in an attempt to limit or

141 remove those changes from the project on the 1 environment and the subsequent effects on value 2 3 components. For an effect to occur, there has to be 4 5 a source, such as project activity or a component, 6 that results in a change to the environment or 7 population and a subsequent change, or an effect, to 8 the value component. 9 Slide 9. No-linkage pathways are 10 pathways that are removed by environmental design 11 features and mitigation, so the project results in no 12 detectable environmental change and no residual 13 effects to a value component relative to baseline 14 values or a guideline value. 15 Secondary pathways result in a 16 measurable and minor environmental change, but have a 17 negligible residual effect on value components. 18 Secondary pathways require, in some cases, detailed 19 analysis, and will use the analysis from primary pathways and other disciplines in order to support the 20 21 assessment of a secondary pathway. So, for example, 22 air modelling -- air dispersion modelling, groundwater 23 and surface water quality modelling results, are taken 24 from disciplines to determine whether or not it is a 25 secondary -- whether or not the changes in those

1 particular components result in only minor changes to 2 the environment that result in negative residual 3 effects to the value component.

Primary pathways is a pathway that's likely to result in a measurable change to the environment and a residual effect to the value component. Primary pathways require further effects analysis and classification to determine the significance or the potential significance of the effects on the value component.

No-linkage and secondary pathways are not predicted to have significant residual effects on these -- on value components, and are not considered further in the effects in the EIS. In this way, we focus the assessment on the primary, key issues, concerns, and effects from the project on value components.

18 Slide 10. The EIS conducted a 19 screening level assessment, or a pathway analysis, on a multitude of project interactions or issues and 20 21 potential effects from the project on the environment. 22 This slide here shows an example of no-linkage, 23 secondary, and primary pathways for wildlife. 24 One (1) potential pathway for wildlife 25 is -- is a leaching of potential acid-generating mine

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rock may change the amount of different quality
 habitats, which affects wildlife movement and
 behaviour.

Environmental design features used to remove this pathway include things like mine rock used to construct dikes will be non-acid generating. Any mine rock containing kimberlite will be separated from the tundra by at least 2 metres of inert and kimberlite-free rock.

10 Now, important thing here, is that this 11 pathway had already been analyzed or assessed in the 12 soi -- for -- for soils and for vegetation. And was 13 determined to have no linkage. So there is, therefore, no linkage to changes in wildlife habitat. 14 15 Another potential pathway is the 16 effects from changes -- or mortality that may be 17 caused by aircraft and vehicle collisions with 18 wildlife. Environmental design and mitigation for 19 this pathway is establishing and enforcing speed limits on a project site, giving wildlife the right of 20 21 way, and many other mitigation and deterrent or 22 avoidance measures in the wildlife effects mitigation 23 and monitoring plan. 24 The -- the long-term monitoring at Snap

25 Lake and other operating diamond mines in the

Northwest Territories, has shown that these mitigation 1 2 and environmental design features are effective, 3 successful at limiting re -- or removing the -- the mortality to wildlife from vehicles and aircraft. 4 5 And, therefore, mortality from vehicles and aircraft 6 from the project is predicted to have a negligible 7 effect on the persistence of wildlife populations and 8 the pathway was determined to be secondary. 9 Another pathway is the -- is the direct loss and fragmentation of wildlife habitat from the 10 11 physical footprint of the project. And even though 12 there's mitigation and environmental design features 13 here to reduce those changes to the environment and 14 the effects on populations, the pathway was considered 15 to be primary and went through a more fuller, detailed 16 analysis to determine the effects and classify the 17 effects and determine the significance of those 18 effects on wildlife populations. 19 Just bear with me. I know it's warm in 20 here. 21 MR. ALAN EHRLICH: I'll -- I'll just pipe up that we've asked -- that -- that sound you 22 23 just heard is the air conditioning going on. So 24 there's something perverse about using air 25 conditioning when it's minus twenty-seven (27) out or

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1 whatever, but I -- I look around and I see a lot of 2 hot people. It will cool off soon. 3 MR. JOHN VIRGL: I don't want anybody 4 going to sleep on me just yet. So after the pathway 5 analysis, the next step in the assessment is to do the 6 effects analysis. And this examines all the primary 7 pathways that result in expected changes to the 8 environment, the populations. Oh, slide 11, sorry. 9 Okay. So anyways, this is a conceptual model that's using wildlife as an example. 10 You 11 remember I said before there's assessment endpoints 12 and there's measurement endpoints, and what it's --13 what it's conveying here is that we take the project and we place it on top of the environment, and we want 14 15 to measure those changes in the state of environment 16 from the current conditions through into the future 17 with the project and any other developments that --18 that may be reasonable, foreseeable, and result in 19 cumulative changes. 20 So for wildlife, the way we do this is 21 we use measurement endpoints such as habitat loss and 22 fragmentation, changes in habitat quality, and changes 23 in reproduction and survival. And these changes are

24 then used to determine the effects on the population 25 persistence.

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146 1 The -- the changes are -- are presented 2 in absolute and relative terms. And they're discussed in terms of the direction of those changes, the 3 magnitude of the change, the spatial extent of the 4 5 change, the duration of the change, and, if 6 applicable, the frequency of those changes. Slide 12. 7 8 THE FACILITATOR HUBERT: How much 9 longer do you think that presentation will go, John? 10 MR. JOHN VIRGL: Five (5) minutes. 11 THE FACILITATOR HUBERT: Five (5) 12 minutes. Please continue. 13 MR. JOHN VIRGL: Am I running 14 overtime? 15 THE FACILITATOR HUBERT: No, you're 16 doing a fine job. I was just going to want to possibly have a break in-between, but if not --17 18 MR. JOHN VIRGL: No, I'm --19 THE FACILITATOR HUBERT: -- let's not 20 do that. 21 MR. JOHN VIRGL: Yeah. 22 THE FACILITATOR HUBERT: Plough 23 forward, please. 24 MR. JOHN VIRGL: I know this seems long-winded, and it's boring because it doesn't have 25

any pictures, but --1 2 THE FACILITATOR HUBERT: Not at all. 3 Fascinating, fascinating. Keep going. MR. JOHN VIRGL: I'm trying to do it 4 5 as excitingly as I can. The effects analysis 6 considers a number of approaches to determine or 7 predict the changes in those measurement endpoints. 8 It looks at baseline values and guideline values; does 9 -- uses modelling and statistical analyses; uses the scientific literature, government data and 10 11 publications, traditional knowledge reports and 12 publications. It includes both project-specific and 13 cumulative changes where applicable. 14 The analyses are completed at the 15 appropriate scale for the value component. If you 16 remember a few slides ago, when I talked about 17 identifying spatial boundaries, so for -- for fish and 18 for the -- the aquatic components, looked at the 19 Kennady Lake and Kirk Lake watersheds. For caribou, 20 it looked at the annual and seasonal ranges. For socio-economics it considered communities in the North 21 22 and South Slave regions of the Northwest Territories. 23 It is -- it also incorporates ecological conservatism 24 to reduce uncertainty so that the effects are not 25 worse than predicted. This is a very important point.

It looked -- then takes those changes 1 2 in measurement endpoints and links them to the effects 3 on the value component assessment endpoints in the next steps I will talk about in the residual impact 4 5 classification and determination of significance. 6 Slide 13. The purpose of the residual 7 impact classification is to describe the residual 8 effects of the project using a scale of common words, 9 and this is just using best EA practices. It's 10 completed for each primary pathway and associated 11 measurement endpoints. It's also completed on -- for the incremental effects from the project and 12 13 cumulatively for those valued components that required 14 a cumulative effects analysis. 15 To meet the terms of reference the following criteria were used, such things as 16 17 direction, magnitude, geographic extent, duration, 18 reversibility, frequency, likelihood and ecological 19 context. 20 The classification of those residual 21 impacts really provides the foundation for determining 22 significance of effects on -- on the assessment 23 endpoints for value components. The principle 24 criteria used here are magnitude, geographic extent 25 and duration. And duration, remember, includes

1 reversibility, so how long before the effect is no 2 longer influencing the value component. 3 It uses other criteria, such as frequency, probability of occurrence and context as 4 5 modifiers. It considers the relative contribution of 6 all primary pathways, okay. So it looks at all the 7 different pathways that can -- can result in 8 significant effects on a valued component but it 9 considers those pathways with things like high magnitude beyond regional geographic extent and 10 11 irreversiby -- irreverse -- and long-term -- sorry, 12 long-term duration. Those ones is more important than 13 pathways with lower scale effects. 14 It includes uncertainty and methods used to en -- to reduce the uncertainty and it applies 15 16 ecological principles, such as resilience, and also 17 experienced opin -- opinion. 18 Now it's difficult to apply a general 19 statement of significance or determination of 20 significance to all value components. It's po --21 impossible, actually. Just the same as it's 22 impossible to apply a generalized or ubiquitous study 23 area to all the value components or the same 24 definitions of magnitude to different value 25 components.

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So each value component discipline has 1 2 their own definition of significance. But the 3 question they're all asking is -- is really this: Is there a significant risk to the va -- to the 4 5 assessment endpoint from the incremental and 6 cumulative effects of the project and other previous 7 existing and reasonably foreseeable developments? Slide 15, the second to last slide. 8 9 The EIS also includes a section in every key -- key line of inquiry and subject of note on uncertainty and 10 11 provides key sources of uncertainty in the effects 12 analysis and impact classification. This is such things as the adequacy of baseline data for 13 14 understanding the current conditions and the future 15 changes not related to the project, understanding project related effects in complex systems, knowledge 16 17 of the effectiveness of mitigation and limiting those 18 effects. 19 But it not only identifies those key sources of uncertainty, but it explains how they're 20 addressed to increase the level of confidence that the 21

22 effects are not worse than predicted, things like
23 using the results from several models to increase
24 confidence in the outcomes; using results from long25 term monitoring programs at Ekati, Diavik and Snap

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Lake diamond mines, these are lessons learned from 1 2 these projects; and implementing a conservative 3 approach so that impacts are typically overestimated. Last slide, 16. Finally, the -- to 4 5 meet the terms of reference each key -- key line of 6 inquiry and subject of note was -- distinguishes 7 between the types of following mo -- following --8 types of monitoring programs that may be applied 9 during the development of the project. 10 So they fall into one (1) of three (3) 11 categories, the compliance inspection, where 12 monitoring to make sure the company is meeting 13 conditions of approval and commitments; environmental monitoring, monitoring to track conditions or issues 14 15 during the life of the project and implementation of 16 adaptive management, so things like water --17 monitoring freshwater intake and discharge, and, 18 finally, followup. These kinds of programs are 19 designed to test the accuracy of effect predictions, reduce the uncertainty, evaluate the effectiveness of 20 21 mitigation, and provide appropriate feedback for 22 operation -- to the operation for adaptive management. 23 And a key point of these programs is 24 that the results from these programs can be used to 25 increase the certainty of impact predictions and

1 future environmental assessments in the North. 2 Thank you. 3 THE FACILITATOR HUBERT: Chuck here, 4 Review Board. Thanks very much. With that we will 5 take a fifteen (15) minute break. I hope you've 6 reserved some questions and after fifteen (15) minutes 7 we can get to those. See you in fifteen (15). 8 9 --- Upon recessing at 2:49 p.m. --- Upon resuming at 3:10 p.m. 10 11 12 THE FACILITATOR HUBERT: Chuck Hubert 13 here with the Review Board. Thanks very much for the great presentation so far this early afternoon. 14 I was 15 wondering, if anybody has questions for De Beers at 16 this point, please raise them now. 17 18 QUESTION PERIOD: 19 MR. JULIAN KANIGAN: It's Julian 20 Kanigan with Aboriginal Affairs. John, I just had a 21 question for you on the pathway analysis and -- so the 22 secondary pathways, the -- they would -- could result 23 in measurable or minor environmental change that would 24 have a negi -- negligible residual effect on a -- on a 25 VC, and I'm just reading that off your slide.

1 I'm wondering about -- and -- and so 2 the next step is that those are -- those are discounted because they're negligible effects, so we 3 only -- when you -- when you're looking at effects 4 5 you're only looking at the primary pathways. 6 It made me wonder if an accumulation of 7 secondary pathways are sort of what -- what you can 8 consider a negligible effect on a one (1) by one (1), 9 case by case basis. 10 Are these secondary pathways considered 11 in your cumulative effects analysis, or are they right 12 off the board as soon as you -- as soon as you 13 analyse? 14 MR. JOHN VIRGL: John Virgl, Golder. 15 In -- they're -- they're basically looking at the 16 project specific effects, but in some cases they're 17 also considering cumulative effects. So if you look 18 at mortality from -- from roads, it's not just the 19 winter access road. It wou -- excuse me, it also 20 included the Tibbitt-to-Contwoyto winter access road. So that -- if that answers your question. 21 22 So the incremental effect from Okay. 23 the project is the winter access road and whether or 24 not that would have an effect on the change in the 25 abundance of -- of wildlife from getting struck by

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154 vehicles, okay, or if there is a change in access from 1 2 hunting and how that could affect wildlife. I'm using wildlife, because I'm familiar with it. But it didn't 3 just look at the -- the increased access or vehicle 4 5 traffic along the winter access road of the project, 6 it also looked at it in terms of the cumulative 7 effects, along -- or cumulative changes along the 8 Tibbitt-to-Contwoyto road up and to that point. MR. JULIAN KANIGAN: 9 Julian Kanigan from Aboriginal Affairs. So you're describing to me 10 11 the -- the way you assessed cumulative effects. And I 12 -- I'm just wondering about if -- if those secondary 13 pathways, so in -- maybe in this example if you could 14 come up with what one (1) of those was, and whether it 15 was assessed as part of cumulative impacts, or whether 16 it was as a negligible impact, so. 17 18 (BRIEF PAUSE) 19 20 MR. JOHN VIRGL: Okay. So I'm not doing a very good job. John Virgl. The answer to the 21 22 question is yes. If you look at the pathway for 23 changes from vehicle traffic and mortality on 24 wildlife, it includes not only the winter access road. 25 This is a secondary pathway analysis, includes a

secondary pathway, includes the project winter access 1 2 road, and the Tibbitt-to-Contwoyto winter road. So 3 the cumulative effects of those things together are looked at in that secondary pathway. 4 5 MR. JULIAN KANIGAN: Thanks, John. 6 It's Julian Kanigan again, with Aboriginal Affairs. Ι 7 just wanted to ask you one (1) more question on sort 8 of the -- the pathways analysis. When you were 9 speaking about how you kind of come up with the potential linkages between the project and -- and the 10 11 valued components and there's sort of an iterative 12 process between environmental scientists and project 13 engineers, it seemed to me like a really good step in 14 -- in which you might be able to insert traditional 15 ecological knowledge, so in thinking about what the 16 potential effects could be, but also how you might be 17 able to mitigate them through project design. 18 And so I guess just a broad question as 19 to how, in this assessment, you were able to 20 incorporate TK? 21 22 (BRIEF PAUSE) 23 24 MS. VERONICA CHISHOLM: Thank you. 25 That's a good question. Oh, Veronica Chisholm from De

I think the TK components, there were 1 Beers. consultations within the communities and that's one 2 3 (1) of the ways we received feedback on how to address things in the project description. And some of those 4 5 things I spoke to in -- as part of the closure plan, 6 and as part of the project description plan. 7 And then, I think as we move forward, 8 there will always be an opportunity and we will look 9 for opportunities to include TK in the monitoring activities and various other activities that we do. 10 11 MR. JOHN VIRGL: John Virgl. Another 12 example would be the contouring of roads so that they 13 aren't too high so that animals could move through the area easily. That's one (1) of the things that came 14 15 out of the community issues, one (1) of the 16 suggestions that the communities made. 17 Hi, it's Alan MR. ALAN EHRLICH: 18 Ehrlich. I just want to clarify something that I 19 think I heard in Julian's initial question that I don't know got answered. 20 21 And it's interesting because it has a -22 - a -- partly relates to something I was thinking, and 23 partly relates to something that our cumulative 24 effects expert who's participating remotely -- that's 25 Terry Antoniuk from Salmo Consulting -- has written in

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with a question about. 1 2 The part that I heard answered, I 3 think, was when you have a secondary effect that you're saying your not carrying forward, how can you 4 5 tell if these things could be significant with respect to cumulative effects assessment? 6 In other words, just because it's --7 it's secondary with respect to this project, doesn't 8 9 mean it's not adding to an impact that -- that is significant. And I think I heard an answer from --10 11 from John Virgl that covered that off okay. 12 Julian, am I right about that part? 13 Okay, he's nodding affirmative. 14 The other part of what I heard from 15 Julian had to do with this -- and I'm going to 16 paraphrase here just to try to make it more clear --17 had to do with the synergistic effects of multiple 18 secondary effects, in other words, smaller things 19 within the project that could work together to cause something bigger. 20 21 Not really a cumulative effect. It's 22 not about this project in combination with other 23 projects. It's about a number of little things from 24 this project working together to cause a bigger impact 25 from this project.

158 1 Does your model look at that kind of 2 stuff? Thanks. 3 4 (BRIEF PAUSE) 5 6 MR. JOHN VIRGL: John Virgl with Golder. The -- part of the -- part of the -- the 7 assessment looks at the ecological risks and -- and 8 9 then associated human health risks from additive or synergistic effects through the project as far as dust 10 11 emissions, changes in water quality, and what that 12 means to changes in -- in soils and -- and vegetation 13 and all the way up through the food chain. So that 14 aspect of -- of the pathway analysis is -- is -- is 15 covered, if -- if that's what you're after. 16 MR. ALAN EHRLICH: Julian was agreeing 17 before that I'd -- I'd summarized the first part of 18 his question adequately. Julian, in terms of a 19 response, is that good enough for you for now? 20 While Julian's pondering that, John, 21 could you restate that in a different way? Thanks. 22 Could you restate your response, please? I see 23 Julian's kind of chewing on it, and I am, too. 24 MR. JOHN VIRGL: One (1) of the -- the 25 aspects of the environmental assessment looked at the

-- well, basically, there was an ecological risk 1 assessment done, and in that ecological risk 2 assessment, it looked at those -- those changes right 3 on through the different trophic sys -- trophic 4 5 levels, okay, so changes in wa -- in surface water 6 quality, right, or changes in groundwater quality, how 7 that affects changes in surface water quality, changes 8 in -- in -- from dust deposition on -- on water and 9 soils, and how that can move up through the food chain, through the dis -- different trophic systems, 10 11 and -- and looked at all of those additive changes 12 through the system to then come up with an overall 13 assessment on what the effect would be to -- to wildlife or, at the end, the end user being -- being 14 15 people. 16 MR. ALAN EHRLICH: Thank you, John. 17 MR. JOHN VIRGL: Those are all project 18 specific related additive effects. 19 MR. ALAN EHRLICH: So, John, if I 20 understand you correctly then -- it's Alan Ehrlich 21 again -- you're saying that the -- the secondary 22 effects within the project, the -- the -- what you 23 just described, is the way that you've captured and 24 assessed the combining impacts of the secondary 25 effects, so that you have a position on -- on their

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potential significance. Is that right? 1 2 MR. JOHN VIRGL: John Virgl of Golder. Yes, that's correct. 3 MR. ALAN EHRLICH: Well, I think that 4 5 -- I -- I understand your answer to my question. 6 And the one (1) thing I'd like to do 7 before getting off of the -- the cumulative part of 8 the question that was asked earlier is, just for the 9 benefit of our -- of Terri Antoniuk, the -- the gentleman I mentioned before with Salmo Consulting, I 10 11 just want to read out his question so that you can 12 tell where he's coming from. It is mostly covered by 13 what Julian asked and what you answered. There are some -- some nuances in here that I think are -- are 14 worth having out there anyway, so if you want to add 15 16 anything you have an opportunity to. 17 He says, and I quote -- and he's 18 participating from Calgary: 19 "A fundamental principle of 20 cumulative effects assessment, and a 21 source of some confusion, is that 22 adverse cumulative effects can occur 23 even when they are project specific 24 effects that are not significant, as 25 noted in the CEA Practitioners Guide

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161 1 by Heg (phonetic) -- Hedgeman (phonetic) et al. -- Hegmann 2 3 (phonetic) et al., 1999. However, the Gahcho Kue EIS did not appear to 4 5 evaluate pathways and associated 6 effects categorized as secondary, 7 that is, considered negligible or 8 minor, because they were considered 9 unlikely to have significant project 10 specific effects." 11 In other words, he's saying they 12 weren't carried forward enough to -- to do that. 13 "However, this does not necessarily 14 mean they did not contribute to 15 adverse cumulative effects that 16 could themselves be significant. 17 Has the EIS provided evidence to 18 demonstrate that all secondary 19 pathways excluded from the EIS will 20 not contribute to cumulative effects 21 on each key line of inquiry and 22 subject of note?" 23 So if there's anything else you --24 you'd care to say in -- in response to that, that you 25 didn't say in response to Julian's question, please

take the opportunity. Thanks. 1 2 MR. JOHN VIRGL: John Virgl of Golder. 3 Appreciate you reading the question for us. Thank 4 you. 5 MR. ALAN EHRLICH: The --MR. JOHN VIRGL: Sorry, we have no 6 7 other updates at this time. 8 MR. ALAN EHRLICH: The -- one (1) of 9 the things that -- that -- that you didn't quite address in your response there was both -- I -- I 10 11 think that what Julian was saying and what -- what 12 Terri Antoniuk is saying is, in both cases, when 13 something was addressed as negligible it wasn't carried forward enough to see how it combines with 14 15 other things that you've addressed as negligible when -- when synergistically, even though it's project 16 17 specific, synergistically they might not be 18 negligible. 19 So are they missing something or could 20 you -- could you clarify? Thanks. 21 MR. STEPHEN LINES: Hi, Alan. It's 22 Stephen Lines, for De Beers. I think that -- in 23 response to the cumulative effects, I think anything 24 that was discounted that was either shown to have no 25 linkage or a secondary pathway was largely based on

1 sort of experience that we've learned from looking at 2 other mine sites, including sort of Snap Lake and the 3 other diamond mines.

So it wasn't that it wasn't assessed. 4 5 It wasn't that it wasn't carried forward. It was 6 looked at and it was looked at quite closely, both on 7 our project specific and cumulative effects assessment level. And if it wasn't carried forward through a 8 9 full assessment it was based on reasons that -experience learned at other sites and professional 10 11 judgment.

12 And if -- I quess it's a little bit of a difficult conversation to have because we're 13 speaking in sort of general terms when the assessment 14 15 is done on sort of very specific VES pathways. So I 16 think maybe moving forward in the next couple of days, 17 if there is a specific instance whether there was a 18 secondary pathway that -- whether there's a question 19 of whether or not it should have been carried forward further, I think that's probably a helpful time to 20 have that discussion. 21 22 MR. ALAN EHRLICH: I understand,

23 Stephen, and thanks for that. Another part that I 24 have questions with, and I'm not going to get into too 25 much depth on it here because it's not necessarily the

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right point in the process, but I did want to raise a 1 2 general issue. 3 You pointed out three (3) primary criterion you used for evaluating significance, and 4 5 then applied a number of other criteria as secondary 6 criteria which modified what you found on the first 7 one. Your primaries, as I recall, were magnitude, extent and duration. 8 9 But you also said you were looking at the -- I think it was environmental risk of -- of 10 11 impacts and using that to come up with it. One (1) of 12 the fundamentals in my experience with risk assessment 13 is you're looking at not just hazard, but likelihood. And likelihood didn't come up as one (1) of your --14 15 one (1) of your three (3) primaries. I -- I -- and 16 it's not entirely clear to me how you can characterize 17 risk to the environment without considering 18 likelihood. 19 So how is it that likelihood is a 20 secondary characteristic when you're trying to predict 21 the impacts? Thank you. Thanks for the 22 MR. JOHN VIRGL: 23 question, Alan. It's John Virgl. What I was trying 24 to do there was say that you couldn't define generally 25 what significance is, eval -- the determination of

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significance. 1 2 So I put it in -- in a terminology 3 maybe misconstrued, okay. So it's not a risk assessment. I was trying to put in context of what 4 5 the determination of significance was doing, okay. 6 It's not about doing likelihood and magnitude, as you 7 say. 8 We use the -- the duration, the spacial 9 extent and magnitude as the primary characteristics of mag -- duration, including reversibility, okay. The -10 11 - the likelihood of those effects occurring is -- is 12 usually pretty high, okay, unless there are cases like 13 where it's -- it only happens -- would be an example 14 where -- where it would be lower was if you didn't 15 actually detect a traditional or a listed plant species or something like that and you don't really 16 17 know for certain it's there. 18 Likelihood could be -- could be high, 19 could moderate, could be low, right. So that's where 20 likelihood can change. 21 MR. ALAN EHRLICH: Thanks, John. 22 That's -- that's helpful. In terms of the panel's 23 approach to significance, assuming that they follow 24 the same general model as the Review Board, what they 25 will wind up doing is taking the best predictions

166 1 available based on what the company has put forward as 2 a developer and what the parties have put forward and 3 the arguments that support them, and then applying their own subjective informed judgment using their 4 5 values as a lens to determine what is acceptable to 6 society based on that; in other words, whether or not 7 the predicted impact needs to be avoided or reduced 8 through mitigation, whether or not it can go ahead as 9 predicted, whether or not it should be rejected or 10 that kind of thing. 11 And so that's -- that's the approach 12 that the Board has taken to significance, but we do 13 find it quite helpful to have developers articulate 14 their perspectives on which impacts are -- are going 15 to be significant and why. And I -- I particularly 16 like that you've made a lot of your model explicit, 17 you've defined a lot of your terms in a way that will 18 certainly help other people to understand your -- your 19 thinking. 20 So I -- I thank you for that. 21 MR. JOHN VIRGL: John Virgl. Thank 22 you. 23 24 (BRIEF PAUSE) 25

THE FACILITATOR HUBERT: 1 Further 2 questions from anybody, please? 3 4 (BRIEF PAUSE) 5 6 MS. MADELAINE PASQUAYAK: Madelaine Pasquayak. I'm just wond -- I was just thinking about 7 8 the model that you're talking about. I -- I don't 9 have a copy of the slides, so I'm just going to have to go from memory of what I saw there. 10 11 And I was just kind of wondering if 12 your model included anything on the socio-economic 13 impacts that, you know, any project might have in the 14 communities? That -- that is so key, you know, to --15 to helping monitor the effects that these projects 16 have on a community and how to mitigate some of these 17 problems in the communities. Mahsi. 18 MS. VERONICA CHISHOLM: Veronica 19 Chisholm, from De Beers. Thank you, Madelaine. Yes, 20 there was a socio impact assessment done and we'll 21 actually be presenting that tomorrow as part of the 22 people impact day. And as John mentioned in his 23 presentation, people define those impact criteria 24 differently depending on what section or discipline 25 you're working on. So that will be presented

tomorrow. Thank you. 1 2 THE FACILITATOR HUBERT: Thanks very That's great. We look forward to that 3 much. 4 Anything on structure of the EA, things tomorrow. 5 we've been talking about here this afternoon, please 6 qo ahead. 7 8 (BRIEF PAUSE) 9 10 THE FACILITATOR HUBERT: Excellent. 11 Every single question has been satisfactorily 12 answered. If there's nothing further we'll break for 13 the day. A couple things I'll -- I'll mention, tomorrow we will start at nine o'clock. We expect it 14 15 to be a -- a full day, and possibly additional people as well that were not here today. So we look forward 16 17 to that. Anything else? 18 THE FACILITATOR EHRLICH: A couple of 19 minor things, it helps the people who run the room here if you can take your books and papers off the 20 21 table and put them on your chairs. They're going to 22 lock the place up so you can leave your stuff here, 23 but please bring your stuff down. As well, any remote 24 participants -- any remote participants who want to 25 share any advice or thoughts on how the remote

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participation is working, I'm going to encourage you 1 2 to email, not me, but my intrepid co-chair, Chuck 3 Hubert. And Chuck's email address is...? 4 5 THE FACILITATOR HUBERT: 6 chubert@reviewboard.ca. 7 THE FACILITATOR EHRLICH: Thanks, If there are -- are small fixes we can do to 8 Chuck. 9 make this work better for the rest of the week, great. 10 If you have ideas that we might not be able to do so 11 soon, at least we'll be able to learn from them for --12 for future undertakings. 13 So I'd like to really thank De Beers 14 for the obvious preparation that is put into making 15 these presentations. I'm hearing a lot of complicated 16 subjects, and a complicated project being described in 17 a -- a clear and thoughtful manner here. And I think 18 this helps all of the parties. 19 I'd like to thank the parties that have 20 -- have come in today, and also recognize that we may 21 get more remote involvement in future days, so you --22 you don't want to judge your audience by the ones who 23 are -- who are here physically. 24 I -- I of course want to thank Dave for 25 the sound, Wendy for the transcription, and our

170 translators for standing by. They may need to do more 1 tomorrow. If that happens, the presentations might 2 need to go a little bit slower as well, because that 3 is the nature of translation. 4 5 De Beers has -- has a point I'd like to 6 make so -- they'd like to make, so I'll hand it over 7 to you. 8 MR. JOHN FAITHFUL: Thanks, Alan. Ιf 9 I may, I'd like to provide -- oh, John Faithful from Golder Associates. If I may, I'd like to provide a 10 response to Paul Green's question regarding the -- the 11 12 range of water level that would be expected within 13 Kennady Lake. 14 THE FACILITATOR EHRLICH: Please go 15 ahead. 16 MR. JOHN FAITHFUL: We've got --17 Thanks. The -- the approximate sorry, Alan? Okay. 18 main level range between the freshet in September is 19 25 centimetres. That information can found in Annex H, which is the hydrology baseline, page 5-23. 20 21 Thank you, Alan. 22 THE FACILITATOR EHRLICH: Thank you, 23 John. On -- on that very subject, I -- we appreciate 24 you finding the information here and now. One (1) of 25 the things I did not hear happen at any time today was

any specific undertakings or homework for De Beers to 1 carry away with them. If I've missed any or any party 2 thinks that there was one (1), could you just indicate 3 now? 4 5 Okay. So, again, the sign of a good 6 thorough day but also we were dealing with fairly 7 general stuff. It's entirely possible that people will need more when it comes to specific subjects. 8 9 So again, our thanks very much. Bundle 10 up. We'll see you tomorrow morning at 9:00 a.m. 11 sharp. 12 --- Upon adjourning at 3:35 p.m. 13 14 15 16 Certified correct, 17 18 19 20 21 Wendy Warnock, Ms. 22 23 24 25

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