MACKENZIE VALLEY ENVIRONMENTAL

IMPACT AND REVIEW BOARD

PRAIRIE CREEK ALL SEASON ACCESS ROAD PROJECT

(EA1415-01)

TECHNICAL SESSIONS

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Co-Facilitator Stefan Reinecke

Explorer Hotel, Yellowknife

June 13, 2016

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--- Upon resuming at 1:05 p.m. 1 2 3 CO-FACILITATOR MARK CLIFFE-PHILLIPS: Hello, everybody. I'd like to welcome you to the 4 Mackenzie Valley Review Board's Prairie Creek all-5 season access road project technical session. I'm 6 7 Mark Cliffe-Phillips. I'm the executive director with the -- the Review Board. 8 9 We just have a few introductory slides that we want to talk about, the -- the purpose of the 10 technical session. I'm going to pass it off to our --11 12 our facilitators sort of partway through the -- the presentation. And they're going to go over more 13 details on -- on things like questioning and -- and 14 15 the likes. 16 But the -- the true purpose of the 17 technical session here is -- one (1) is to encourage open discussion between parties and the developer on 18 19 scientific and -- and traditional knowledge information. 20 21 We want to try and keep this as 22 informal as possible. It's -- it's a little difficult 23 when we have a setting like this with microphones, and transcription, and -- and the likes, but we do want to 24 25 try and keep this a -- a light conversation as -- as

10

1 best as possible. We -- we'd like to seek clarification 2 on responses to Information Requests, on the 3 developers -- on the -- the developer's assessment 4 report adequa -- adequacy responses or other evidence 5 on the -- the public record. And we want to clarify 6 7 the project description in scope. 8 And the developer today will -- will have a -- a presentation to -- to describe that in 9 greater detail. And -- and throughout the -- the days 10 here, we'll -- we'll have further presentations from 11 12 the -- the developer. 13 We'd like to describe the scheduling of activities for all the project phases, identify 14 impacts from the project on the environment and the 15 people, and reduce unknowns related to potential 16 17 impacts. 18 Importantly, we want to describe the value components the development will impact and how. 19 20 And going back to the -- the role, and responsibility, and mandate of the -- the Review Board itself is we 21 22 want to focus on which parts of the development are 23 likely to cause significant impacts. 24 And just to give a little bit of 25 refresher for people or for individuals who haven't

11

1 been involved in the Review Board process, I'm just 2 going to hand it over to Alan Ehrlich. And he's just 3 going to describe a little bit about the -- the likely 4 significant impact.

5 MR. ALAN EHRLICH: Good morning, 6 I -- I can keep it really brief. The word everyone. 7 -- the phrase 'significant impacts' is one that you will hear a lot in environmental impact assessment, 8 and is an important part of the Act because if the 9 Board finds that significant adverse environmental 10 impacts are likely for a project, it has the ability 11 12 to create mitigation measures, which can reduce or 13 avoid those impacts.

14 But the question of what is a significant impact is something that comes up a lot. 15 Our Board's decision focusses largely on potential 16 17 significant impacts. So we want this to be a constructive session, and for it to be an effective 18 use of time, it's really important the parties focus 19 20 on the impacts that matter to them, the ones that 21 matter in terms of acceptability. 22 So there are some factors that lead to 23 a significant impact. You probably all know the -the technical aspects of an impact. The change in 24

25 magnitude. The change in extent of an impact. How

long the impact lasts. Is it reversible? That kind 1 of stuff. 2 3 But there's a question after the impact has been predicted that the Board has to ask, which 4 Is it acceptable? All right. Is it okay? 5 is: Is that impact likely to be significant? When they're 6 thinking about significance, they're looking at what 7 is acceptable, and they're considering parties' views 8 on the threshold of what is acceptable and what is 9 10 not. 11 And, you know, the different parties 12 have different views on that. The Board is interested in the Developer's views and parties' views. 13 The Board has asked questions in the terms of reference 14 for the Developer about that. 15 16 But I -- I just want to emphasize the 17 significant stuff now, because although there are a 18 myriad of tiny changes that any human activity will cause, the stuff that the impact assessment wants to 19 focus on is significant stuff. Stuff that matters 20 21 enough to -- impacts that matter enough to need 22 minimizing or avoiding through measures. 23 And so I just want to put that out as -24 - as a context. Thank you very much. CO-FACILITATOR MARK CLIFFE-PHILLIPS: 25

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1 Thanks, Alan. Mark again. On top of what Alan 2 discussed there, one -- one of the other purposes of 3 the technical session is where there is likely to be 4 significant impacts in the view of the -- the parties 5 here.

We also want to -- to hear from parties on what their proposed mitigation would be. So again, it's not just identifying impacts, but also mit -- how -- how best, in your opinion, that we could mitigate those impacts. And -- and that's a discussion that we'll be having here today, as well.

12 So I just want to have a little refresher on the scope of the development in -- in 13 terms of this particular EA, EA1415-01. There --14 there was a -- a Reasons for Decision that was put out 15 by the Board regarding the scope of the assessment. 16 17 There have been previous environmental assessments 18 associated with this development. And we're required under the Mackenzie Valley Resource Management Act to 19 20 consider these -- these previous environmental 21 assessments. 22 So the -- this particular EA excludes 23 project components which have been previously assessed and are permitted, most recently after EA0809-002, 24 which was the environmental assessment for the mine 25

and the winter road. Kilometre zero to 37.4 was
 permitted for all-season use in the past.

3 Upgrades in this 37.4 kilometre section 4 are part of the scope of this development, and the 5 upgrades that are being considered include road design 6 standards, upgrades to any features, any realignments, 7 and any stream crossings, as previously there were no 8 fixed stream crossings. It was all winter road or ice 9 crossings.

10 Previously assessed components of the project will be considered through the cumulative 11 12 effects assessment of this EA. Relevant materials 13 from the previous EA, and others prior to the EA0809-002, will be used in support of this current 14 environmental assessment. And just as a reminder, 15 airstrips within the Nahanni National Park 16 17 Reserve are not part of the scope of the development for this EA, and will not be considered. 18 19 In terms of responses to Information 20 Requests, the Review Board is aware parties have not had the opportunity to ask questions or Information 21 22 Requests about adequacy responses that were submitted 23 by the Developer after December 21st, 2015. 24 And this is an opportunity for you to 25 continue to question, if you do have questions,

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regarding the -- the adequacy information items that 1 were submitted by Canadian Zinc. And again, this is 2 just the beginning point, and -- and there will be --3 and when we go through the next steps, there will be 4 further opportunities for questioning regarding those 5 6 -- those items after the technical session. 7 So just as a little bit of a refresher how we got here, the project itself was referred to EA 8 in May of 2014. The Review Board did hold community 9 scoping meetings in June of 2014 in Fort Simpson, 10 Nahanni Butte, and Fort Liard. 11 12 They -- the Review Board finalized 13 their terms of reference and issued that in September 2014. The DAR was submitted by Canadian Zinc in May 14 of 2015, and the Board issued its reasons for decision 15 on the adequacy of the DAR and the requirements for 16 17 outstanding information in December 2015. We did receive Information Requests by 18 all the parties by the end of February 2016, and we 19 20 received the Developer's responses to outstanding adequacy items in April -- the -- the last of the 21 22 outstanding adequacy items in April 2016, and the 23 Developer's response to the party IRs in May, leading 24 us here to the technical sessions. 25 So in terms of the next steps, after

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the technical sessions here this week, we will likely 1 2 have some undertakings that follow up from this particular technical session. Following the -- the --3 those undertakings coming in, there will be another 4 round of Information Requests, likely dates to be --5 to be finalized, but in July of 2016. The responses 6 7 to those Information Requests will be in August. 8 The Board is also planning/scheduling a community technical session on cultural impacts. 9 We're still working through the details on that, and 10 if you have questions regarding, that you could 11 12 contact staff or speak to staff here during the technical sessions. 13 14 But it -- it is a -- a new step that 15 we're adding, which is looking at getting information on cultural impacts directly in the communities, as we 16 17 found these technical sessions aren't always the most 18 conducive way of receiving that information. 19 After that, we'll move into the hearing 20 phase, where we do have a -- a risk assessment report 21 from Oboni Riskope. And we do have Oboni Riskope 22 here, which is our third-party independent consultant 23 that is producing a -- a -- an independent risk assessment for all parties, including the Board and 24 25 the Developer. They will be asking questions

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throughout the -- the sessions here. And feel free to 1 2 have conversations with Cesar during the -- the three (3) days here -- or the four (4) days here. 3 We will add the Developer's response to 4 the -- the Oboni report, and then technical reports --5 or interventions from parties after that. All those 6 7 dates will be finalized once we -- we have a better understanding of the outstanding information 8 requirements are. 9 So... Hello. I'll move to the other 10 I'm going to pass it over to our two (2) Co-11 mic. 12 Facilitators here from Stratos. We have Barb Sweazey 13 and we have Stefan Reinecke. And they'll go through a -- a little bit more about the actual structure of the 14 -- the technical session today. 15 CO-FACILITATOR BARB SWEAZEY: 16 Great. 17 Thanks very much, Mark. So I -- thank you for the 18 opportunity to work with you over the next few days. And I thought that perhaps the best way we might get 19 20 started today, because we're going to spend a lot of 21 time together over the next four (4) days, is just 22 find out who is in the room. 23 And so to do that, I suggest that we do a little bit of a round table of introductions. 24 So 25 perhaps you could share with us, when we go around,

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and maybe we'll do them by little -- the teams and the 1 gatherings that we have here, your name, and your 2 organization that you're with, and if there's a 3 particular area of responsibility that you might have. 4 5 And also, perhaps either one (1) of your favourite spots or one (1) of your favourite 6 features about the Northwest Territories. 7 So, for instance, my name is Barb 8 Sweazey, and I am director of Organizational 9 Effectiveness at Stratos. And one (1) of my favourite 10 features of the Northwest Territories is the very 11 strong artistic community that I experience when I 12 come to visit this -- this territory. 13 14 So who is ready to go? I'm looking at 15 Parks Canada. You guys look like you're all ready to 16 qo. Okay. 17 MR. JONATHAN TSETSO: Thank you. My 18 name is Jonathan Tsetso. I am the park superintendent in Nahanni National Park Reserve. And my favourite 19 20 spot in the NWT I think is Nahanni National Park. 21 MS. AUDREY STEEDMAN: Hi. My name's 22 Audrey Steedman. I'm an ecologist with Nahanni 23 National Park Reserve. I'm a vegetation specialist, and it probably goes without saying, but my favourite 24 25 spot in the NWT is also Nahanni National Park.

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1 MR. GARY SCRIMGEOUR: Good morning. 2 My name is Gary Scrimgeour. I'm an aquatic ecologist with Parks Canada. I've seen the vast majority of the 3 south Nahanni watershed. I have a number of wonderful 4 fishing spots which I cannot share with you. 5 6 MS. ALLISON STODDART: Great. Good 7 morning, everyone. My name is Allison Stoddart. I'm an environment assessment specialist with Parks 8 I'm going to go off a little bit of the 9 Canada. tangent here that Parks is going on. I'm going to say 10 one (1) of my favourite spots -- I have a bit of a 11 12 soft spot actually for Yellowknife, so... MS. LAURA JAMES: Hi. My name's Laura 13 I'm also with Parks Canada as an environment 14 James. assessment specialist, and I think my favourite thing 15 about the NWT is that there's still a lot of 16 17 wilderness available. MR. DOUGLAS TATE: 18 Hi. My name is Douglas Tate, ecologist with Nahanni National Park 19 20 Reserve. My background is mostly in wildlife, so that's what I'll be talking about here. My favourite 21 22 spot or feature, probably Rabbit Kettle Lake area 23 within Nahanni National Park. 24 MR. DAVID HARPLEY: Morning. It's 25 David Harpley. I'm the VP Environment for Canadian

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1 Zinc, and I'd have to say my favourite spot is Prairie Creek Mine. 2 3 MR. ALAN TAYLOR: Good morning. It's Alan Taylor. I'm the chief operating officer for 4 Canadian Zinc. My second home is Prairie Creek, and 5 it is still my second favourite place. 6 7 MR. WILBERT ANTOINE: Wilbert Antoine, manager, northern development, Canadian Zinc out of 8 Fort Simpson. I left the north for a number of years, 9 but the north never left me. 2002, I returned to 10 heaven, and when I die, I'll still be in heaven. 11 12 MR. RICK WALBOURNE: Rick Walbourne. I'm with ENR Water Resources Division, regulatory and 13 science officer. My favourite places are a lot of the 14 lakes around Yellowknife for fishing in the summer or 15 skiing in the winter, so either way. 16 17 CO-FACILITATOR BARB SWEAZEY: Right, 18 and I'm just going to pause you right there to get the 19 two (2) other folks ... 20 MS. KARLA LANGOIS: Hi. I'm Karla Langois. I'm a biologist with Tetra Tech EBA. And I 21 22 think my favourite spot is probably the Yellowknife 23 ski club. 24 MR. DAVE NICKERSON: My name is Dave 25 Nickerson. I'm a director of Canadian Zinc. I'll be

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popping in from time to time. I'm not a technical 1 expert so I won't be here all the time, but I used to 2 be chairman of the Northwest Territories Water Board 3 when a technical advisory committee would have a 4 meeting with five (5), six (6), seven (7) at the most 5 people there, not the fifty-five (55) we have 6 7 assembled around the table today. 8 MR. BILL PAIN: Bill Pain, ENR, the water regulatory group. Favourite feature, I'll try 9 something different. Kind of the open landscapes, 10 kind of -- yeah, we'll go with that. 11 12 MS. VERONIQUE D'AMOURS-GAUTHIER: 13 Veronique D'Amours-Gauthier, department of land with the GNWT. I'm with the project assessment branch. 14 We're coordinating environment assessment. And my 15 favourite part in Inuvik and DNWT. 16 17 MR. ADRIAN PARADIS: Hello. My name is Adrian Paradis. I am with Canor. Great Slave 18 19 Lake. 20 MS. CAMILIA ABDELMEJID: My name is 21 Camilia Abdelmejid. I'm a summer student with Canor, 22 and I'd say just the beauty of Yellowknife, the 23 nature. 24 CO-FACILITATOR BARB SWEAZEY: First, 25 I'm going to get you to introduce yourselves when you

speak, okay. We're going to go right here. 1 2 MS. JULIE MARENTETTE: Hi, everyone. I'm Julie Marentette. I'm a fisheries protection 3 biologist with Fisheries and Oceans Canada. And my 4 favourite aspect of the NWT is the endless daylight we 5 have in the summer. 6 7 CO-FACILITATOR BARB SWEAZEY: Great. Thank you. 8 9 MR. BRADLEY SUMMERFIELD: Thanks. Hi. My name's Bradley Summerfield, with Environment and 10 Climate Change Canada, an environmental assessment 11 12 coordinator. I think my favourite spot is Hidden 13 Lake. 14 MS. LORETTA RANSOM: Good morning. I'm Loretta Ransom. I'm a senior environmental 15 assessment coordinator with Environment and Climate 16 17 Change Canada. And there's too many spots to choose from, but right now, I'm just loving the rain. 18 19 MS. SHANNON MOORE: Hi. I'm Shannon 20 Moore, with Canadian Parks and Wilderness Society. I 21 think my favourite spot is -- or my favourite feature 22 is also the daylight right now. 23 CO-FACILITATOR BARB SWEAZEY: It's 24 Barb here. I'm actually going to go to the phone 25 because I believe there's one (1) representative from

23

So perhaps the person on the phone could 1 Enercan. introduce themselves at this time. 2 3 MS. ROCHELLE BEZNER (BY PHONE): Yes, it's Rochelle Bezner, from Enercan. I'm part of the 4 environmental assessment group based out of Ottawa. 5 So my favourite part of the Northwest Torritor --6 7 Territories is the airport because that's the only place I've been to in the NWT at this point. 8 9 MR. CLIMATE MUYAMBO: Hi. My name is Climate Muyambo. I'm in finance. And my favourite 10 spot is Seven -- Seven Spruce Golf Course. 11 12 MR. DEAN HOLMAN: Thank you. My name is Deal Holman. I'm with the Liidlii Kue First Nation 13 14 in Fort Simpson. I think the favourite spot I have is 15 just at the Camsell Range there, Camsell bend where I 16 grew up. Masi. 17 MS. CARRIE BRENEMAN: Thank you. My name's Carrie Breneman. I'm an environmental 18 consultant for Dehcho First Nations. My favourite 19 20 feature spot of the NWT is the Mackenzie River, 21 particularly around Fort Simpson. 22 MR. CESAR OBONI: Hi, everyone. My 23 name is Cesar Oboni. I'm here with Oboni Riskope Associates. And my favourite things about the 24 25 Northwest Territories are also undisclosable fishing

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1 grounds. 2 MR. CHUCK HUBERT: Chuck Hubert, with the Review Board. And I'll go with this room. 3 MS. STEFAN REINECKE: Stefan Reinecke, 4 with Stratos. I've main spent time in Yellowknife, so 5 it would probably around -- running around the lakes. 6 7 MS. SACHI DE SOUZA: Sachi De Souza, with the Review Board. And I'm going to go with the 8 light in wintertime. 9 10 MR. BRETT WHELER: Brett Wheler, with the Review Board. Lots of favourite spots. I'm going 11 12 to say the Nicholson River. 13 MR. MARK CLIFF-PHILLIPS: It's Mark Cliff-Phillips again. My favourite spot is the 14 15 ramparts on the Mackenzie River. 16 MR. ALAN EHRLICH: Hi. It's Alan 17 Ehrlich. It's a tie between Yellowknife Bay and the 18 dump. 19 CO-FACILITATOR BARB SWEAZEY: I'm 20 going to need to know more about that. 21 MR. ALAN EHRLICH: What's that? 22 CO-FACILITATOR BARB SWEAZEY: I said 23 I'm going to need to know more about that. 24 MR. CHRIS ROSE: Okay. Chris Rose, a 25 policy advisor with the Review Board here. One of my

25

1 favourite things about nor -- the North and Yellowknife is the big, open sky. It -- I didn't 2 really know what people meant by it, but now that I've 3 moved here, I understand. 4 CO-FACILITATOR BARB SWEAZEY: 5 Good. Well, thank you very much and welcome to everyone. 6 And for those of you who haven't -- are on the out --7 yes, sorry? You can use your mic, m-hm. 8 9 MS. LORETTA RANSOM: It's Loretta Oh. Ransom again. My apologies. There are one (1) or two 10 (2) people on the line from Environment and Climate 11 12 Change Canada. I really forgot to mention that. 13 CO-FACILITATOR BARB SWEAZEY: Oh, okay. We didn't realize they were connected yet, so 14 we'll check. Okay, so, folks -- other folks from ECCC 15 on the line, could you introduce yourselves, please? 16 17 MR. DAVID LAVERDIERE (BY PHONE): I'm with Environment and Climate Change Canada. And I'm a 18 senior -- senior engineer with expert support. And I 19 20 am in Toronto. And, unfortunately, I have yet to enjoy the Northwest Territories. 21 22 CO-FACILITATOR BARB SWEAZEY: And is 23 there one (1) other person or is that it, Loretta? That's it. Okay, good. Welcome. Thank you. And for 24 25 -- yes. Okay, so if there's a question at the back,

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you just need to come and introduce yourself. You 1 2 just have to sort of --3 MS. LORRAINE SEALE: Lorraine Seale, with Department and Lands. I just want to clarify, is 4 there anyone from Nahanni Butte Dene First -- Dene 5 6 band here or on the line? 7 CO-FACILITATOR BARB SWEAZEY: I'll let Chuck answer that question, please. 8 9 MR. CHUCK HUBERT: Chuck Hubert, with the Review Board. Not today. But tomorrow around 10 4:00 p.m. members from Nahanni Butte Dene band will be 11 12 speaking. 13 CO-FACILITATOR BARB SWEAZEY: Okay. They're going to call in tomorrow around 4:00. That's 14 the -- that's the plan as for their involvement, yeah. 15 Oh, are -- yes? 16 17 MR. DARRELL BETSAKA: I'm from Nahanni 18 Butte. 19 CO-FACILITATOR BARB SWEAZEY: Oh, 20 you're from Nahanni Butte. Well, come on up and introduce yourself then. We're -- we're delighted 21 22 that you're here. We didn't expect to have you in 23 person. Thank you. 24 MR. DARRELL BETSAKA: Darrell Betsaka, 25 Naha Dehe Consensus Team, joint collaborative

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management with Parks Canada. And my favourite part 1 is probably Nahanni National Park. Thank you for your 2 time. 3 CO-FACILITATOR BARB SWEAZEY: 4 Great, thank you. Is there anyone else here that should be 5 introducing themselves, or are you -- is it okay for 6 7 you to introduce yourselves when you come up to the table? 8 9 10 (BRIEF PAUSE) 11 12 CO-FACILITATOR BARB SWEAZEY: Okay. I'm going to leave that as your -- your thing to do. 13 Okay. So we know who's here and in the room. You 14 have a detailed agenda that you've been given. The 15 way -- and I'm sure many of you who have participated 16 17 in technical sessions before know that there's large time chunks with several bullets. 18 19 So we're going to go through the 20 bullets to the best that we can based on what information needs that you have. So we will use this 21 22 set of agenda bullets as our guide, and we'll try and 23 make progress. In some instances if we're able to get through some of the items a little bit earlier we'll 24 25 bump some of -- the agenda items that are to come

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1 later, we'll bump them forward.

So we'll just do a little bit of back and forth, and assessing how we're doing depending on what information needs you're still needing to address, and how we -- how we're able to progress through the day.

7 This -- today we're particularly going 8 to have an opening presentation by CanZinc to set the 9 context and the lay of the land for us. And then 10 before lunch our focus of the questions is really 11 going to be about that project overview, particularly 12 around access control, the road components, and also 13 the closure and reclamation.

14 So we're going to try and do that piece 15 before lunch. After lunch, we're going to open it up to talk about more of the biophysical side of things. 16 17 So the fish, the water, the water quality, and the vegetation. That's where we're going to focus on 18 today, and I've got a little bit of a roadmap posted 19 20 on the side wall so that as we're making progress we can tick them off as we advance through the workshop 21 22 today -- the -- the meeting today. 23 Are there any questions that you have 24 about this agenda, and the way it's structured?

25

1 (BRIEF PAUSE) 2 3 CO-FACILITATOR BARB SWEAZEY: Okay. So in terms of how can we make this session 4 productive, Mark very kindly walked through some 5 6 suggestions. I have a few additional things that I 7 would invite you to think about, and perhaps some of these are very familiar to you but I -- I found it 8 helpful just to put them out in front for us to 9 consider. 10 11 So throughout our conversation over the 12 next four (4) days, we are going to be tracking specifically commitments and undertakings, and as we 13 start to identify the need for a commitment or for an 14 undertaking we're going to be pausing to identify that 15 we have a need for it. And, in fact, I've got some 16 17 sticky notes so that if there's a few key words -- so, for instance, if there's an undertaking that we need 18 more information on 'X', 'Y', or 'Z' we might just jot 19 20 it up and put it on a sticky note on the side wall. 21 And in the meantime, we have a couple 22 of folks here who are actually going to work on the 23 detailed wording of those undertakings, those homework 24 assignments essentially, or the commitments so that we 25 can agree as a group before we move on what those

30

1 commitments or what those undertakings are so that we
2 are -- we're comfortable to progress to the next
3 conversation topic.

If there's a situation where we're not 4 able to land a commitment or undertaking but there's 5 still an outstanding question that -- that does need 6 7 some attention, we'll capture it in the currently unknown, the pink category. So for those ones that 8 there isn't a clear response and a clear direction, 9 that's how I invite us to handle those particular 10 11 ones.

12 When a question is asked, I invite a timely response to the extent that's possible. If 13 14 it's possible to put your thoughts and responses 15 together in one (1) to two (2) minutes to help us allow to get through as many information questions as 16 17 we can, we'll be -- I will be trying to hopefully (AUDIO ISSUES) in that thought. And if it's not 18 possible within a couple minutes to put your (AUDIO 19 20 ISSUES) that's a -- that's a perfect place to flag it 21 as an undertaking.

We also invite you to have sidebar conversations. As David pointed out, there are a lot of people in this room and there's a lot of times for lunch breaks and coffee breaks to have those side

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1 conversations. Your -- your job today is to make sure
2 that you get the information that you need in order to
3 advance your work. So, please, make sure that you
4 chat with one another to try and sort through the
5 outstanding questions that you might have if we're not
6 able to resolve them here.
7 And if there are differences in opinion

8 on what information is required during the EA phase 9 versus the regulatory, I'm going to invite the Review 10 Board staff to help weigh in on that -- on shaping 11 what do we do in that instance of difference of 12 opinion.

In terms of -- in terms of some of the logistics, I -- we're going to try and stay on time. So you will hear my little bell from time to time, at break time and lunch time. That's inviting you to come back as promptly as possible because we have a lot of information to get through.

As Mark said, this is designed to be informal and to be open. It's an opportunity to learn from one another and so I hope that we can do that to the extent that is comfortable when we have microphones and when we have to introduce our name at the beginning of each time we -- we make a -- a comment, but it's here for the -- for the conversation

1 that needs to happen.

2 We have folks at the back of the room 3 who are making the transcriptions. And in order for 4 them to do that well they need to have your name 5 spoken at the beginning of each time that you make a 6 comment into the microphone, so that the verbatim 7 tracking is -- is kept accurate.

8 If there are additional agenda items 9 that we can't get through we will flag them and put 10 them up in a parking lot so that if we have time at 11 the back end, particularly at Thursday, or if we can 12 bump it up into the end of one (1) of our days earlier 13 we will do that.

14 I also invite you to be mindful of the 15 fact that we do have a few people joining us remotely by the phone. So I will try to remember to invite 16 17 their participation, but when you're giving your 18 comments and your questions, please -- please do remember there are some remote folks joining us. 19 20 I didn't actually check where the 21 bathrooms are for housekeeping. So can someone point 22 them -- down the hall and to the left. Okay. And 23 lunch options are basically the two (2) restaurants in this hotel? Is that the best options, or where you 24 25 wish to do? Okay.

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1 And I generally have a little bit of a house rule about phones. So if you do need to take a 2 -- a call, I invite you just to step out at your 3 convenience to do that so that we can continue the 4 flow of the conversation here in the room. 5 6 Any questions about the logistics? 7 Okay. So before we launch into the first -- first item for -- where we'll have Canadian Zinc do the 8 presentation, I'd like you to just spend a moment 9 thinking about how it is that we would like to work 10 together over the next four (4) days. 11 12 So we do have four (4) days to work That's a lot of time. You probably have a 13 together. lot of experience of what has worked well. Think back 14 to a meeting or technical session that you though, 15 That was great. What was it about it that worked 16 17 really well? 18 Or conversely, think about a meeting or a workshop you went to that was a complete disaster. 19 20 What was it that we would like to avoid here today. So in little groups of two (2) or three (3) around 21 22 your table, and I would normally mix you all up, but 23 because you're kind of huddled in like groups, maybe talk to someone you don't know if you can, if you're 24 25 on the edges.

1 Come up with one (1) or two (2) things 2 about how you'd like us to work today. You know, things we want to avoid or things that we definitely 3 want to see -- have as our good practice and we'll 4 collect a few ideas in two (2) minutes. 5 6 Talk amongst yourselves. 7 8 (BRIEF PAUSE) 9 10 CO-FACILITATOR BARB SWEAZEY: Okav. Have you got some ideas? Okay. I've got a couple of 11 12 head nods. Do you guys -- and GNWT, do you have something to add to the conversation? All right. 13 Get busy. Do you guys have something? Yes. Yes, you're 14 15 ready? Okay. 16 MR. ALAN TAYLOR: Well, I just need to 17 make a comment that's all. 18 CO-FACILITATOR BARB SWEAZEY: Okav. 19 MR. ALAN TAYLOR: It's Alan Taylor. 20 You -- you mentioned shuffling the agenda somewhat. Well, you notice that we have a few people here, 21 22 that's because we have a number of consultants that 23 are coming at designated times and appearing on the phones at designated times. So those slots need to be 24 25 protected. Thanks.

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1 CO-FACILITATOR BARB SWEAZEY: And so 2 to the extent that we can -- we need to make sure the right people are in the room, at the right time, for 3 the right topic. Yes? Okay. Good. 4 5 In terms of our meeting conduct Okay. today, has -- have anyone got some ideas about how we 6 7 should run our conversations? Okay. We'll start here. 8 9 MR. RICK WALBOURNE: Rick Walbourne, ENR. I just think, you know, questions should be 10 clear and concise, and we should show each other a 11 12 certain level of respect. I know it's always difficult sometimes when we get a lot of different 13 people in the rooms, but somewhat -- I would say we 14 15 all have really the same agendas, to get to. 16 We want to be at the same place, but we 17 don't always go about it the same way. So we just need to show each other a certain level of respect, I 18 think, to -- to help these things go a little 19 20 smoother. 21 CO-FACILITATOR BARB SWEAZEY: Right. 22 Thanks very much, Rick. 23 Other people have something to add to 24 this discussion? 25 MS. LORETTA RANSOM: It's Loretta

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Ransom, Environment and Climate Change Canada. 1 I know 2 you're encouraging sort of sidebar conversations, but if those do happen, that that information is shared 3 with all the other parties as well. 4 5 (BRIEF PAUSE) 6 7 CO-FACILITATOR BARB SWEAZEY: So what Loretta shared with us is the need to report back to 8 plenary. If there's been a sidebar conversation and a 9 learning that's happened, that needs to come back into 10 plenary, particularly when it's related to one (1) of 11 12 the undertakings. Great. Thanks. Did you say -- was it Alan or Chuck? 13 14 Chuck Hubert, with MR. CHUCK HUBERT: 15 the Board. We will post a sample example meeting report for interested parties and the Developer in how 16 17 to write one (1) of these things up and as an example 18 for everybody. 19 CO-FACILITATOR BARB SWEAZEY: Great. Good. Other comments in terms of how we should 20 conduct ourselves today? How about this table up here 21 22 at the front? Did you have anything to add? 23 MR. JONATHAN TSETSO: From my perspective, I think people have captured things quite 24 25 well. Anybody else?

1 CO-FACILITATOR BARB SWEAZEY: Great. 2 Anything else to add on this side here? No. Yes, at the back. 3 MS. LORRAINE SEALE: Hi. Lorraine 4 Seale, GNWT. We always have scheduling challenges 5 with these things, and we're already behind, so really 6 7 think that's part of the respect for everybody, too, is trying to balance getting the input and staying on 8 9 schedule. 10 CO-FACILITATOR BARB SWEAZEY: Great. Good. And with that, that's a perfect seque to move 11 12 into our opening presentation. So, folks from you're going to make an overview of the 13 CanZinc, project. Is that correct? 14 15 16 (BRIEF PAUSE) 17 PRESENTATION BY CANADIAN ZINC CORPORATION: 18 19 MR. DAVID HARPLEY: Good morning. 20 I'll stand. If anybody wants me to sit, that's -that's fine, but I find it easier to be galvanized 21 22 standing up. So I'll just give a guick overview of 23 the salient points of the project. 24 For most of the regulatory people here, 25 I think you should know all this anyway. So this is

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really an overview for those people who are not
 particularly familiar with the project.

3 So these are the items we'll cover 4 briefly. We're going to just describe the general 5 alignment and the major crossings of our water 6 courses. We'll then spend a little bit of time 7 discussing the construction approach. Best to do that 8 right after the alignment so you're familiar with some 9 of the locations.

And then we'll get into some more finer 10 points such as where the proposal season road differs 11 12 from the -- the winter road, and what changes we've actually made during the course of this EA to date 13 since we submitted our Developer's Assessment Report. 14 15 We'll mention what other infrastructure is related to the road, and lastly we'll just consider 16 17 the general timing of road operation and closure. And I'll apologize to my Parks Canada folks that I'm --18 rudely got my back to, but it's a little difficult to 19 talk and see the screen at the same time. 20

21 So this is basically the -- the whole 22 area and the road in total. And you can see here that 23 we've got the Nahanni Park boundary, the eastern 24 boundary of the expanded Nahanni Park Reserve --25 National Park Reserve. And here's the mine here in

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what we fondly call the 'island in the park'. And 1 that's where we basically call the 'kilometre zero' 2 being the mine. And here the road -- this red line is 3 the -- the alignment of the access road snaking its 4 way down here, crossing the Liard River, and then 5 joining the Liard Highway at this location here. 6 7 So here's Nahanni Butte. So in a -- in a general fashion, the mine is along the -- on the 8 bank of the Prairie Creek. And the road starts by 9 heading north up Prairie Creek, and then it heads east 10 up one of the tributaries. And right at the park, the 11 kind of the internal park boundary here at kilometre 12 17, is where the road actually enters the park. And 13 it's also the -- the highest elevation in the -- the 14 15 Headless range of the Macken -- the Mackenzie Mountains in here. 16 17 Then it traverses down parallel to 18 Sundog Creek, departs from the creek here and crosses the Ram Plateau. The Ram is actually a much larger 19 20 area in here, so the road crosses in -- in this kind of location. 21 22 And right about at this point, it 23 descends into the lowlands of the Tetcela River. Ιt crosses a wetland area here, and then climbs a 24 25 relatively small mountain range called the Silent

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And it climbs up a -- a fairly steep slope to 1 Hills. 2 go through a pass which is called Wolverine -- called Wolverine Pass. Then through another lowland stretch. 3 It goes through -- there's another -- there's a front 4 range in here -- front range mountains. The road goes 5 6 through what's called Grainger Gap, formed by the 7 Grainger River. And then it traverses along the foothills of the front range to cross the river right 8 9 here.

10 So in a little more detail, and also considering water course crossings, here again is the 11 12 mine down here. And, as I say, it traverses north. The -- the tributary that it goes up to head east is 13 Funeral Creek. And the first major water course 14 crossing is -- is here at kilometre point 6.2. And 15 this is Casket Creek. That's a tributary of Prairie. 16 17 The next one in the Sundog drainage is at this location, twenty point five (20.5). And then 18 a -- a larger one here at twenty-three point four 19 20 (23.4) is another tributary of Sundog. But it's -it's almost the same size, so it's a fairly 21 22 substantial crossing. Then we have two (2) further 23 tributary crossings on Sundog here, twenty-five point three (25.3) and twenty-eight point six (28.6). Both, 24 25 again, tributaries.

1 So when I'm talking, I -- I notice when 2 I'm slightly away, can you still hear me clearly? No. So you need -- I need to be there? Okay. 3 So continuing down Sundog, where the 4 road parallels the creek -- okay. How's that? 5 I almost need to hold it on my chin to get the right --6 7 yeah. So Jonathan was just asking me what is the blue line, and I was going to explain that on a later 8 slide. But given that it's on here, the red line is 9 the proposed all-season road. The blue line is the 10 currently permitted winter road. 11 12 So just finishing off this section. There's another tributary here of Sundog, 39.4. And 13 you can actually see the -- the catchment of this 14 tributary in here, so it's another fairly substantial 15 crossing before we actually leave the Sundog Creek 16 17 valley and head across. So here we are back to where we left 18 off. There's a -- there's a tributary of Sundog in 19 20 here, forty-three point two (43.2). Then here is the 21 Ram in -- basically in here. And the road skirts 22 along the edge of the -- the Ram. It crosses what we 23 call Polje Creek, but in the park, it's locally known as Bubbling Springs Creek. 24 25 Then it climbs the slide of the slope

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in here to cross the plateau proper, if I can call it 1 that. So this is basically all the plateau. And --2 and the road essentially follows a height of land 3 between these two (2) streams in here, so very little 4 in the way of crossings. 5 6 And it's only when we get down here 7 just off the plateau and into the lowlands again where we're crossing first a -- a fairly sizeable tributary 8 of -- of Tetcela River, which is this one. And then 9 we cross the main stem of the river itself here at 10 eighty-nine point eight (89.8). And after that, the 11 12 road crosses that wetland section that I mentioned. 13 So the last section in here -- after the wetland section here is the cross -- climbing the 14 15 slope. And you can see there's a couple of switchbacks in here to gain elevation, and then 16 17 through the pass. And then you can see that we've actually got three (3) colours in here now. 18 The blue I mentioned was the primitive winter road. 19 The red 20 was the all-season road alignment that we had in the 21 Developer's assessment report. 22 And since we submitted the DAR, for 23 reasons that I'll get into later, because I'm sure it'll come up, we -- we came up -- we did some more 24 25 fill work and we came up with this alternative, which

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we think is a -- a better alignment and it's the one
 we currently prefer.

3 It -- it crosses the wetland valley here in this location. And then it basically skirts 4 the -- the toe of this range, the front -- the back of 5 the front range, and joins up with the alignment again 6 7 down here just on the west side of the gap, and then through the gap and heading south towards the river. 8 9 So in terms of how we propose to build the road, basically, in order to build the road, in 10 addition to borrowing material for construction, you 11 12 also have to have manpower, and you have to have equipment. 13 14 So the logical way to -- to effect the 15 construction is basically to -- to build from the east, because that's where your access is. So you 16 17 come in initially in the wintertime and bring in your 18 personnel, and equipment, and supplies. 19 So the -- the -- in year one, we would 20 basically propose to start building the -- the 21 subgrade. And -- and the subgrade is basically the --22 the bottom section of the road, the -- the embankment 23 section of the road, if you like. The top surface, or the gravel would be the running surface. So when we 24 25 talk about subgrade, it's -- it's basically the

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bottom. And then the top surface would be the gravel. 1 2 So the -- also, the general idea is you want to place your subgrade first. You want to give 3 that a period to settle in. There will be some settle 4 -- settlement, no doubt. So the idea is we -- you 5 want to have some separation between placement of 6 7 subgrade before you place the top surface. 8 So when you -- when you put the top surface in, you would hope that whatever significant 9 settlement is going to happen has already occurred. 10 11 Yeah. 12 MS. ALLISON STODDART: Hi. This is Allison Stoddart, with Parks. Just a quick question. 13 14 When you refer to the winter road here, 15 are you referring to the winter road alignment or are you referring to just building a -- a winter-style 16 17 road on the all-season road alignment? MR. DAVID HARPLEY: Yeah. So to what 18 -- to our way of thinking, for the most part, if the 19 20 all-season road is approved, the all-season road 21 alignment, for the most part, will become the winter 22 alignment, because it doesn't make any sense to us to 23 develop two (2) alignments. 24 So the idea would be that we would 25 develop a -- a winter road on the all-season alignment

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to allow a) access into the mine so we can start 1 construction at the mine, and at the same time, allow 2 us access to actually build the all season road. So 3 it'll be -- they'll -- the two (2) will be basically 4 next to one other within the same right-of-way. 5 6 7 (BRIEF PAUSE) 8 9 MS. ALLISON STODDART: So you're -you're essentially saying there'll be a winter road 10 and an all-season road side-by-side, or will it just 11 12 become the same road? Like, will you build the winter and then slowly build up the grade so that it becomes 13 an all-season road? No? Okay. 14 15 MR. DAVID HARPLEY: Yeah. So the winter road would essentially be next to the all-16 17 season road. Because as you're building the -- the 18 all-season road, you obviously can't be driving on it. And also initially, you have a subgrade. You don't 19 20 have a top surface. 21 So, I mean, theoretically, you could 22 drive on it, but it would probably be pretty heavy 23 going, because it hadn't been smoothed. It hasn't settled yet. You haven't smoothed it out. This is 24 25 probably a question you should ask again when we have

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1 our engineers here on Wednesday and Thursday.

But, you know, we have a -- nominally a 20 metre wide -- wide right-of-way. It's -- it's more 4 than wide enough to have a single lane winter road 5 adjacent to a -- the footprint of where we want to put 6 the actual all-season road so that the -- you can 7 still have access at the same time as you're -- you're 8 building the thing.

9 So schedule-wise, initially, we're going to be starting with subgrade from kilometre 174 10 to the Liard River. The reason kilometre 174 is 11 12 significant is that's the distance from the mine at 13 which the all-season road leaves the current existing Nahanni access road. So that's already built, so 14 15 that's basically where we're starting our construction 16 from.

17 And we would build roughly the 14 kilometres distance from the Nahanni access road to 18 19 the Liard River. Most of that section also has been 20 previously developed as a winter road. It was an old logging road that the community used for felling 21 22 trees. So for the most part, we'll be using that 23 alignment, which is -- I mean, obviously it was 24 cleared before, but there's -- there's now some more 25 clearing to be done.

1 In the first year in the winter, we 2 need to build the ice bridge along -- across the river, and at the same time, we'd also start to build 3 the -- the ramps on both sides of the river where 4 we're going to operate a barge. And as winter 5 progresses, we would continue with the subgrade north 6 7 along the front range, taking us up to Grainger Gap, and that's about kilometre 125. So from the river to 8 the gap is about 35 kilometres. 9

While the subgrade work is continuing 10 and after we've completed the ice bridge, then the 11 12 winter road construction to the mine will continue. The object being that before the end of winter, we 13 want to have a -- what we call a -- a tote road --14 tote winter road to the mine, which is just sufficient 15 to allow supplies and some equipment to be taken in. 16 17 It's not going to be a -- a winter road 18 that would allow frequent traffic, or any significant amount of traffic. It's basically enough to get some 19 20 -- you know, several loads of equipment and supplies 21 into the mine on a basically a once -- once in and 22 once out situation, and then the road -- the winter 23 road will be closed. 24

And again, as winter progresses, and 25 depending on how -- how the settling has occurred on

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the section from one seventy-four (174) to the Liard 1 2 River, then we may commence surfacing that section, so that -- that piece may be done. But it depends on --3 on how things progress and how -- you know, what --4 how the settling goes. 5 6 What's a little confusing in this 7 slide, because there's no -- there's no boundaries to these, but year 2, the fall here is year 2. It's not 8 part of year 1. So we're basically saying after the 9 first winter, there'll be a gap until we get to the 10 fall of year -- year 2 before we continue the work. 11 12 And at that point, we'd continue with our surfacing, 13 or indeed start it if conditions weren't suitable. On the east side of the river, we'd continue the 14 15 surfacing up to Grainger Gap. 16 This work would be contingent on 17 equipment and supplies being available, so they would have to have been left. Otherwise, we would have to 18 wait until the ice bridge is completed the following 19 20 winter, and then continue with that work. So I --21 I've been given the five (5) minute signal, so I'm 22 going to have to speed up here a little bit. 23 So year 2, basically, the winter, obviously, we have to get the ice bridge in again 24 25 before we can continue with significant equipment and

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1 supplies.

We'd still need to build the -- the 2 winter road to the mine again because we would need 3 more supplies in the second year. And also at that --4 at that point, we'd be taking in what we call 'long-5 lead items' that took longer to acquire, and we would 6 7 take them in so that we then basically have everything in at the mine we'd need to complete the construction 8 and actually commission the mill. 9

10 After that, we're basically continuing the subgrade further west. We'll -- we'll continue up 11 to kilometre point 102, which is basically the Silent 12 13 Hills. And then on the other side of the Hills, continuing the gravelling up to the -- more or less 14 the midpoint of the -- the Ram Plateau. The reason 15 there's a gap in there between ninety-five (95) and 16 17 one-o-two (102), is that's the west side of the Silent Hills, which is -- which is very densely treed. 18 And it would take some time to fully clear out that right-19 20 of-way so that it's suitable for activity for allseason road construction. 21 22 In -- also in that winter, we can start 23 installing some of our crossings from the east up to 24 KP 87, which is basically the Tetcela River. So 25 roughly halfway of the trip.

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1 Year 2 continues in the summer. Now we 2 have subgrade for a good stretch, so we can continue our surfacing on -- on the subgrade. And in that 3 respect, we're not using the winter road. 4 We're actually using the subgrade that's been placed. 5 And 6 we continue our subgrade placement, again using the 7 all-season road, not the winter road. 8 Continuing with our crossings, here -these are the ones in Sundog. This we may do with 9 equipment and supplies from the mine. 10 So -- and actually, at this point, we may be working both ends 11 12 of the road. There's some work we can do based from 13 the mine. 14 In -- in the later part in the fall or 15 -- or in the winter, depending on conditions, we can start getting into things like the Sundog Creek 16 17 realignment, where we're -- want to adjust the -- the 18 alignment of the creek over roughly a one 1 kilometre stretch. At this time, we're also finishing our 19 20 construction at the mine and starting to commission the mill for actual production. 21 22 Then year 3 is basically the period 23 when we're finishing off the road. We're starting again in the winter with an ice bridge to bring in 24 25 more equipment. And we're finishing off all the

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subgrade work, installing the -- the final crossings, 1 2 and in the summer of that year, the final surfacing. And we're basically -- have our finished road, and we 3 can commence trucking operations. 4 So very quickly, differences between 5 the -- an all-season road -- the all-season road and 6 7 the permitted winter road. This is the Sundog section. Currently, the winter road is on the north 8 side of this section of Sundog, between roughly KP 24 9 and 29. 10 11 We're proposing to realign the road to 12 the south side, because there's very significant talas slopes on the north side, and also there's a rather 13 unstable area right at this corner here on the north 14 15 side. 16 So we're proposing to come onto the 17 other side. It will mean a couple more crossings of tributaries, and it will also mean some rock work in 18 this section, but we think overall, it's a better 19 20 alignment. 21 There's some slight differences along 22 Sundog in this section, whereas the -- the winter road basically goes up the centre of the -- of the -- the 23 canyon, whereas the all-season road, we propose to put 24 25 -- tuck it up against the toe of the slope, here.

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1 Crossing the Ram Plateau, we've --2 we've made some adjustments to -- to minimize cut and fill in here, and also because of a -- a few spots 3 where the ground has been indicated as potentially 4 having some instability based on terrain mapping. 5 6 This is where we had proposed to build 7 the -- actually, it was here, was the Tetcela transfer facility. We've moved it here, because we've actually 8 changed the alignment. This ground is quite wet, 9 which is good for winter, but not good for all 10 seasons. So that's -- that's why we've realigned 11 12 here. And the same situation on the east side of 13 Tetcela River. 14 We've also found what we think is a better alignment crossing -- climbing the slope of the 15 Silent Hills here. Coming down the -- crossing the --16 17 the valley here -- actually, I've already covered 18 this. Rather than go along the -- the toe of the 19 Silent Hills, we propose to come across and -- and run 20 along the -- the backside of -- of the front range, 21 here, to the gap. 22 MR. JONATHAN TSETSO: I think it would 23 just be important to note -- oh, sorry, my name is 24 Jonathan Tsetso. I'm with Parks Canada. I think it 25 would just be important to note for the alignments

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along the slope of the Silent Hills aren't actually 1 2 cleared, just from an impacts perspective. 3 MR. DAVID HARPLEY: Yeah, that's There is actually -- I mean, the old --4 correct. there -- there was a winter road here originally that 5 Cadillac put in back in the '80s, and there -- there 6 7 is still visible parts of the old winter road alignment crossing -- I mean, climbing that slope, but 8 it's mostly vegetated now. So it would -- it would 9 still require quite a bit of clearing. 10 11 But the new alignment we're proposing 12 would need full clearing. That's correct. 13 MS. CARRIE BRENEMAN: Carrie Breneman, Dehcho First Nation. The slopes that you're 14 describing for the Silent Hills, is that the same 15 alignment that's presented in the DAR? 16 17 MR. DAVID HARPLEY: Yes, it is. And 18 this is the front range. Again, we've -- we've just tweaked the alignment a little bit from -- from the 19 20 winter alignment just to find better ground, but 21 generally, the alignment is much the same. 22 So changes we've made since the DAR. 23 And I'm trying to go through these pretty quick, because I know I'm over time already. This is Sundoq. 24 25 This is kilometre 29. We -- in the DAR, we had

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actually pro -- proposed to cross the main stem of 1 Sundog. I think it's in here, and skirt along here 2 using the old winter alignment, and crossing again at 3 this location. 4 Terrain mapping found an in -- unstable 5 section of the -- the mountain in this location, so 6 7 we've revised the alignment since the DAR, and are staying on the south side, which avoids these two (2) 8 It means we've got to cross this 9 crossings. tributary, but it's fairly small. 10 11 We've also got some rock work in here, 12 but overall, we actually think it's a better 13 situation. 14 We haven't made any significant changes 15 crossing the -- this section just before the Ram Plateau. There's just been a few tweaks to avoid some 16 17 unstable spots. The same on this slide. I'm -- I'm 18 just going to skip over this. 19 As I mentioned, this was quite a 20 significant change from the DAR and was as a result of some interaction we had with the community and some 21 22 further engineering consideration we -- we undertook. 23 Again, we -- we -- just a few tweaks 24 because of some issues. There's a couple of spots 25 where the road was a little close to the -- the river

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is eroding. So we've just shifted it over a little 1 bit, and here we're actually cutting the corner. 2 3 Other infrastructure related to the road, construction camps. I've listed them here. 4 You've -- you've -- you may have this printed out, but 5 it's on -- it's on the registry if you want to refer 6 7 to it. Certain of these camps we may retain -- I've starred them here -- just for support for road 8 maintenance during operations. 9 There is an airstrip, an old airstrip, 10 that was used by Cadillac back in the '80s. This 11 12 rather horrible looking map gives you a rough location. This -- here's the airstrip I'm -- I'm 13 referring to. It's -- it's basically -- we call it 14 15 the Wolverine Airstrip. 16 This is the Silent Hills here, which is 17 also the park boundary, so it's outside the park. And 18 here it is again. Here's the -- the park band is roughly in here. This is -- this is the Silent Hills, 19 20 and this is roughly where the airstrip is. 21 So I'm not going to dwell on this very 22 much. Again, you have this information, but we 23 envisage currently a seventeen (17) year mine life. That's also a bit of a change since the DAR because 24 25 we've continued to work on the -- the project in terms

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of resource. And of -- we can see that it will -- it 1 2 will go for longer than we originally projected. 3 Basically, we're going to have to have an ice bridge construction over the river to allow 4 winter hauling, and that's the period we estimate. 5 And similarly, there'll be a summer barge operation 6 across the river after break-up and before freeze-up. 7 8 So we're expecting roughly two (2) years of actual reclamation of the mine, and then 9 following that, a similar period for reclamation of 10 the road. And then there will be a period of 11 12 monitoring both for the mine and the road and with -with kind of decreasing intensity based on things 13 stabilizing and starting to revegetate. 14 15 And I'm going to stop there. This was in the presentation originally, but thankfully it's 16 17 not now because it would be very much longer. But I think this is also on the registry and for -- for 18 reference. We may use this later during the week. 19 20 QUESTION PERIOD: 21 22 CO-FACILITATOR BARB SWEAZEY: Thank 23 you very much. It's Barb, from Stratos. So at this point in our meeting, we have as -- our first 24 25 conversation item is around the project overview. And

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the first set of questions that we would like to open 1 2 up the floor is related to access control. 3 So perhaps I'll turn to the Review Board to see if you have an initial question related 4 to access control. And others can formulate their 5 questions as they're ready. 6 7 8 (BRIEF PAUSE) 9 10 CO-FACILITATOR BARB SWEAZEY: Okav. So there -- I don't think there's any questions from 11 12 the Review Board. Are there questions from other parties related to access control that you would like 13 to raise at this time? Parks...? Yes, you do, 14 Jonathan? Okay, go ahead. 15 16 MR. JONATHAN TSETSO: Jonathan Tsetso, 17 from Parks Canada. There was a note sent from the 18 Review Board to Parks Canada just with regards to access controls and how we deal with that. So perhaps 19 20 before I get into this, I'll just provide a little context for our organization and kind of where some of 21 22 our comments are coming from, just very quickly. 23 So it's a large park. It's about 30,000 square kilometres. And we're responsible for 24 25 protecting and preserving and presenting the natural

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and cultural heritage of the park for future
 generations.

3 So really what does this mean? Really 4 it's a very broad mandate and we're responsible for 5 protecting the ecological and cultural integrity of 6 the park. And really, in carrying out this mandate, 7 we rely on positive relationships with our indigenous 8 communities.

9 We are cooperatively managed with the 10 park, Dehcho First Nations and Nahanni Butte, through 11 the Naha dehe consensus team. And Darrell Betsaka's 12 here from Nahanni Butte, as well, so we're -- we're 13 happy to have him here.

14 And we also rely heavily on traditional ecological knowledge and science-based research based 15 on monitoring projects and programs that we have 16 17 ongoing in the park. So that's really forming the foundation for pretty much everything that we do. 18 19 So with regards to access control, it's 20 -- it's very quite simple. All access into the park will be controlled through permitting. And part of 21 22 what we're discussing here today is permits would look 23 like in the context of a -- of a mining road. So we

25 potential for recreational use and things like that.

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do extend that for -- for other things, as well, a

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1 And we would really have to work closely with, obviously, the proponent because they 2 would be having activities on the road, but also with 3 the community of Nahanni Butte. They've brought 4 forward a number of concerns with regards to access in 5 6 that area. 7 Now, having said that, the park boundary is a considerable distance from the Liard 8 Highway. So with regards to access control, is it 9 more closer to the terminus of the road, we would kind 10 of be more in an observe -- observe type of capacity 11 12 there. 13 CO-FACILITATOR BARB SWEAZEY: Go ahead, Chuck. 14 15 MR. CHUCK HUBERT: Chuck Hubert, with the Review Board. Thanks for that answer. You 16 17 mentioned a permitting system in other parks. Do you 18 have examples of -- of that permitting method in other wilderness parks? 19 20 MR. JONATHAN TSETSO: Thanks, Chuck. Jonathan Tsetso, for Parks Canada. Yeah, we do, 21 22 actually. I mentioned we're a large park. We're 30,000 square kilometres. And when the park was 23 established in 2009 there were two (2) existing 24 25 interests. Which we made special provisions in the

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Canada National Parks Act to allow for sections of 1 2 mining roads to pass through a park or the newly expanded area to their mineral claims. 3 So the other example we have is the --4 the Howard's Pass Access Road with the Howard's Pass 5 property. So that road now approximate -- covers 6 7 approximately almost 40 some kilometres through two (2) national parks. We do have a gate there. 8 The road has become seasonally operational as of 2014, so 9 there has been some work done there. 10 11 So there again we do work very closely 12 with the proponent in our communities for access controls. The road is just being used very minimally 13 by the Company right now and there's some traditional 14 subsistence harvesting facilitated by the road, but, 15 otherwise, very minimal use. 16 17 MR. CHUCK HUBERT: Thanks. Chuck 18 Hubert again. Just a followup question. By permitting, I was actually trying to get at permitting 19 20 for other uses, say permits -- do you give permits for tourism companies, guide outfitters, yeah, other --21 22 other types? 23 MR. JONATHAN TSETSO: Yeah, sorry, 24 maybe I missed the first part of your question there. 25 I apologize. Yeah, absolutely. So any tourists that

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1 do have an interest in -- in using the road, the road 2 goes adjacent to the little Nahanni River, which is 3 kind of a small, little lesser travelled river in the 4 Nahanni.

5 So for repeat visitors, they'll come 6 and use that area. Other areas are in the Alpine 7 areas where people might access -- use the road to 8 access hiking opportunities, things like that.

9 So, yeah, in those ins -- instances we 10 do permit those activities. We work closely with them 11 to ensure that the road is safe and, you know, there's 12 no -- if there are any issues, that we do communicate 13 that to the visitors so they're well prepared.

MR. CHUCK HUBERT: Chuck Hubert, Review Board. Last question. Does Parks anticipate any adverse impacts to wildlife vegetation or ecological integrity into the park without access control?

MR. JONATHAN TSETSO: So your question 20 was: Was there any impacts to the wildlife vegetation 21 with current access?

22 MR. CHUCK HUBERT: In -- in the 23 context of this proposed project, does Parks Canada 24 anticipate adverse impacts to wildlife, vegetation, 25 water, ecological integrity, if there is no access

control? 1 2 MR. JONATHAN TSETSO: So that's for the Howards Pass access road you're talking about? 3 MR. CHUCK HUBERT: Oh, sorry. Chuck 4 Hubert, Review Board. No. I'm talking about this 5 project, and the proposed Prairie Creek Mine all 6 season road. 7 8 Should this project proceed, does Parks Canada anticipate adverse impacts to park values, 9 which are quite numerous, in the absence of some type 10 11 of access control? 12 13 (BRIEF PAUSE) 14 15 MR. JONATHAN TSETSO: Jonathan Tsetso, 16 Parks Canada. Yes. 17 CO-FACILITATOR BARB SWEAZEY: Okay. 18 Thank you. Are there any other questions? So 19 Dave...? 20 MR. DAVID HARPLEY: I think maybe it's appropriate for CanZinc to give a bit of an update on 21 22 the access control issue because there has been some 23 recent information. So if you're amenable it probably means me getting back on my feet and pointing again, 24 25 but it'll probably be more efficient to do that.

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1 CO-FACILITATOR BARB SWEAZEY: Okay. 2 Thank you. Do you want me to -- do we need to go back to one of your maps, Dave? 3 MR. DAVID HARPLEY: Yes, please. Just 4 go back to the big map. 5 6 CO-FACILITATOR BARB SWEAZEY: To the 7 big one? 8 9 (BRIEF PAUSE) 10 11 MR. DAVID HARPLEY: So, Jonathan, is 12 correct that one of the main concerns of particularly 13 Nahanni Butte with the all season access road is the potential for unintended access, if I can call it 14 15 that. 16 So it's a -- it's a vexing question 17 that we've been working on, and the reason it's vexing 18 is basically at least -- at least in the territory, once you build a road it becomes a public road. 19 So 20 there are some things you can do, and can't do. For example, we can't legally deny access. 21 22 So we've been working on a premise of 23 operating a -- what we call a check point, which is 24 merely a location where we would want to record who's 25 coming and going, what their intentions are for -- for 64

1 a couple of reasons.

2 One is when the road is operating, 3 obviously there's going to be traffic on the road. So 4 clearly from a safety perspective you want to know 5 who's intending to come up the road, and where they're 6 going to go.

7 Secondarily, if there are people coming 8 in with the intent of hunting, then from an 9 environmental standpoint you want to know what their 10 intentions are and where they're going to go, and 11 particularly if they're going to be shooting 12 approximal to the road.

So we've maintained for some time that 13 we want to operate a check point staffed by members of 14 the Nahanni Butte Dene band. We feel it's their 15 territory. They're the best people to actually be 16 17 manning the check point. So they can "deter access" of unauthorized users. In other words, people we 18 really don't want on the road because of the safety 19 issues and the environmental concerns. 20

Now, at this point we've suggested the best location for the control point to be roughly here, halfway along this stretch between the river and the gap. And the reason we've picked this location is if we had a check point on the east side of the river

on this section, the -- the thinking is it would not stop people who are really intent on using the road from putting their watercraft in somewhere like Black -- Blackstone Park, for example, and coming down the river and actually accessing the road and bypassing the check point.

7 So by having a check point here, we 8 basically have it as a catch all for all traffic. We 9 would propose to put it in a location where it would 10 be very difficult to bypass. You basically have to go 11 through the check point, or you don't get up the road 12 at all.

13 The reason we haven't actually officially put it on a map at this point is we're 14 still in discussions with Nahanni Butte and until we 15 get to a point where they're satisfied with our 16 17 suggestion, and we come to basically a meeting of the 18 minds as to where we want to put this checkpoint, we don't want to actually bring it forward formally in 19 20 the process.

Now, just recently there's been a further development, which you may have seen in the material on the -- the registry. But this section right in here that the road crosses is what's called IAB lands'. And basically they're lands held by INAC

1 for the community. And just recently we've confirmed that there are mechanisms within the IAB lands 2 framework that the community can actually put a gate 3 on the road and deny access to people they don't want 4 using the road. 5 6 So it -- it seems likely there will be 7 a gate in here. Whether or not we still have a checkpoint remains to be seen at this location. 8 That's a discussion ag -- also we need to have the 9 with the band. But I think that's kind of relevant 10 access control issues that you all need to know about. 11 12 CO-FACILITATOR BARB SWEAZEY: Thank you very much. Does that help to clarify the 13 questions, Chuck and Jonathan? We're okay for the 14 additional follow-up? 15 16 MS. SACHI DE SOUZA: Sachi De Souza, with the Review Board. So under this -- what was just 17 18 explained is there's two (2) possible locations where there could be access control. At this point in time 19 20 given what you -- was stated earlier that essentially roads that are built are public, there is still the 21 22 potential that even with a manned gate you can't 23 actually say, No, you can't get onto the road, there's 24 that potential exists. 25 With that in mind, who would be

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responsible for public members, so non-mine related 1 traffic on that road? So if a tourist was on that 2 road, whether it's the GNWT por -- portion, or the 3 Parks Canada portion, how would -- if someone got in 4 trouble what would happen in that situation? 5 And that's -- Sachi, with the Board -- that's for Parks, 6 7 Canadian Zinc, and GNWT at this point in time. 8 MR. DAVID HARPLEY: I'll -- I'll have the first shot, but I'll pass it over to my 9 colleagues. But I think the pretext needs to be 10 cleared up a little bit. The assumption is that where 11 12 the -- as far as I understand it, with a gate on the IAB lands you can deny access. So the -- I think --13 don't think the pretext is entirely correct. But the 14 question is probably more, I think, specific to, okay, 15 somebody breaks down the gate or bypasses the gate, 16 17 say from using the river. And if I'm not mistaken you -- you're kind of coming at this from a risk to the 18 user perspective and how it would be addressed. 19 20 Is that right? 21 MS. SACHI DE SOUZA: Yes. 22 MR. DAVID HARPLEY: So I'll -- I'll 23 let others cover that for... 24 MS. SACHI DE SOUZA: Sachi, with the 25 Board. I just wanted to add one (1) thing. Ι

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understand that if it -- there's the potential to --1 2 to put a -- a controlled gate on IAB lands. I think at this point in time in the EA we don't have 3 certainty that that's going to happen. The discussion 4 just happened last week. So the possibility exists 5 that it could be -- that could be where the gate goes. 6 7 There's a possibility it goes somewhere else. And so it's important that we just understand what can happen 8 under different options. And with that just -- you 9 said there's a point between Grainger Gap and the 10 Liard River. 11 12 About what kilometre was that idea, just roughly? 13 14 MR. DAVID HARPLEY: So the kilometre 15 point we have in mind is roughly kilometre 142, I believe. The road traverses between two (2) small 16 lakes and the ground in between is pretty marshy. 17 So 18 in summertime it would be almost impossible to bypass. If I can just add one (1) other thing related to my 19 20 ramble just now, also a fairly recent development. You may remember from my presentation that we made an 21 22 adjustment to the alignment on -- just on the east 23 side of the river to -- to get to the crossing to 24 avoid part of the riverbank, which is eroding. 25 That -- that portion actually crosses

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the IAB lands. And we've had some discussion with the 1 band just recently about that realignment and shown it 2 to them on the map. And they had a council meeting a 3 few days ago and unanimously approved the alignment. 4 They actually want it. Their -- their message to us 5 is, We want you to put the road in the middle of the 6 7 lands so that in the future we can potentially use it for access to all parts of the lands. 8 9 So we gave them the map with the alignment that we proposed, and they unanimously 10 agreed to that location. 11 12 And -- and also, I should add, in the meeting that we had about a week ago in the community, 13 it was them specifically who -- who asked the 14 15 question: Can we put a gate on the road? So it seems pretty clear to me that that's their intention, and --16 17 and we fully support that because it's something we 18 collectively have wanted all along. 19 CO-FACILITATOR BARB SWEAZEY: Thank 20 you. Is there something from GNWT to add to this conversation? 21 22 MR. ANDREW MATTHEWS: It's Andrew 23 Matthews. I work in legislation for the Department of Lands, GNWT. Just to respond to Mr. Tsetso's question 24 25 regarding the -- the risk that people will be

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undertaking, because I think we were mentioned in your 1 question, effectively, if -- if people use a road, 2 they're then -- they would be entering into their --3 their own kind of responsibility, same as any other 4 part of the Northwest Territories. 5 6 It would be the same kind of risks they 7 would assume on any other road, so it wouldn't be different in this situation. 8 9 CO-FACILITATOR BARB SWEAZEY: Thank 10 you. Was there anything else to add from Parks Canada in response? Yes? 11 12 MR. JONATHAN TSETSO: I -- I think you 13 meant to say, "road." 14 MR. ANDREW MATTHEWS: Sorry, did I --15 did I use a different term? 16 MR. JONATHAN TSETSO: I -- I think you 17 said, "park." 18 MR. ANDREW MATTHEWS: Oh, yeah. My -my apologies. It would be the same as any other road 19 20 -- any other road. 21 MR. JONATHAN TSETSO: Okay. Jonathan 22 Tsetso, Parks Canada. Just with regards to -- to 23 access control and who would be responsible for, say, somebody who got in trouble on the road, it is our 24 25 view that, you know, any use on the road, recreational

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1 or otherwise, would have to be done by permit.

So we would look at, you know, what's 2 happening on the road and provide enough mitigations 3 in place so that, if somebody's on the road, that they 4 would be responsible for their own safety and fully 5 contained. You know, they would have all the 6 7 equipment they need to handle, you know, the blowout or mechanical problem or fuel. You know, they would 8 be responsible for all of that on their own. 9

10 And if somebody would enter the park 11 without a permit, then we have a group in our law 12 enforcement branch that would investigate that.

13 MR. DAVID HARPLEY: Okay. Again, I'm just kind of adding more information as I think about 14 I'm trying not to hold the mic here, but I think 15 it. a question that some people might ask or wonder about 16 17 is, How do you actually police use of the road when it 18 crosses the park? And issues come up in terms of staffing and, you know, money and that kind of thing. 19 20 I just wanted to make everyone aware 21 that we had already made the commitment to Nahanni 22 Butte that we would have environmental monitors on the winter road when we went through that process several 23 24 years ago. 25 What we've done in our recent

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conversations with the band is we've told them that we 1 2 fully intend to extend that commitment to the allseason road. So in addition to the checkpoint, we 3 expect that there will be monitors on the road 4 whenever the traffic, mine traffic, is in operation. 5 6 So the reason I'm mentioning that is I 7 think per -- potentially there's a case to be made for one (1) or more of these monitors potentially having a 8 dual role whereas they -- I don't know whether they 9 can have some sort of liaison with the park, whether 10 you want to have them as a -- I don't know the right 11 12 terminology. 13 You might consider them a surrogate ranger, for example, but essentially instead of -- I 14 think it would be kind of a little silly to have a 15 park warden sitting at the park boundary. 16 17 But I think it's entirely feasible that 18 you might have some liaison with the road monitors so that you -- you actually know who's coming up the road 19 20 and -- and theoretically going into the park without your knowledge or permitting. 21 22 CO-FACILITATOR BARB SWEAZEY: Great. So are there -- I'm wondering whether or 23 Thank you. not we need to write this and record this as a 24 25 commitment. I'm looking to -- the Review Board for a

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little bit of guidance on that recommendation. 1 MS. SACHI DE SOUZA: It's Sachi De 2 Souza, with the Review Board. So if I understand 3 correctly, CanZinc is committed to use environmental 4 monitors on the access road to -- for the purpose of 5 monitoring wildlife and potential hunting of wildlife 6 7 along the road? 8 MR. DAVID HARPLEY: In -- in a general sense, yes, but more specifically for the monitoring 9 of traffic that might affect wildlife adversely. And 10 -- and also again as I mentioned, for safety reasons. 11 12 CanZinc is committed to use 13 --- COMMITMENT NO. 1: 14 environmental monitors on the 15 access road for the 16 monitoring of traffic that 17 might affect wildlife adversely, and for safety 18 19 reasons 20 21 CO-FACILITATOR BARB SWEAZEY: So we're 22 just working on drafting some suggested wording for 23 that particular commitment, which we'll put up in one moment. I just want to, before we break for lunch and 24 25 to -- to firm up that commitment, are there any other

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questions that parties do have related to access 1 control? 2 3 MS. CARRIE BRENEMAN: Carrie Breneman, Dehcho First Nations. I'm just making sure that I 4 understand this correctly. So your proposal is with 5 Nahanni Butte. You'd have a manned checkpoint that 6 7 would be gated. Is that correct? 8 MR. DAVID HARPLEY: It's Dave Harpley here again. Not exactly. We had previously proposed 9 a checkpoint on the west side of the river, which 10 would be manned but not gated because we're not 11 12 allowed to put a gate on a public road because that's 13 territorial land. 14 With the recent discussion around these IEB lands on the east side of the river, that's 15 federal jurisdiction still. That can be gated. 16 We 17 support the band in their own intention to gate it, and we haven't got to the point of discussing manning, 18 per se. But so there -- there could be two (2) 19 locations where there would be "control." 20 21 MS. CARRIE BRENEMAN: Okay. So in 22 terms of having a gated site, have you thought about 23 how you're going to monitor access? Like if you're going to put up -- have you -- have -- anyways. 24 25 Have you thought about how you're going 75

1 to monitoring access into the road?

2 MR. DAVID HARPLEY: Yeah. During the 3 -- well, during the road operations we would have the 4 checkpoint in operation. So that would be the primary 5 location where we'd be monitoring traffic.

6 In addition to that, we're going to have maintenance crews on the road. One of their 7 tasks would be to check who's coming by and basically 8 say, you know, who are they, where are they going, 9 that type of thing. They'll all have radios, so I 10 think pretty much anybody who gets on that road 11 12 straight away we're going to know about it, and everybody else is going to know about it because the 13 maintenance crews will have radios, the checkpoint 14 will have radios, the mine will have radios. 15

During the summertime when the ferry is operating, the ferry operator is going to have a radio as well. So if anybody is coming up that road, the --I - I'm pretty sure we're going to know, and -- and we'll respond as -- you know, accordingly.

MS. CARRIE BRENEMAN: Are you going to be -- I mean, a lot of times other developers put out let's say like a yearly annual report. Will you be reporting on what road access looks like along the road so to say like on a yearly basis we had, you

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know, two (2) tourists, or we had hunters, or like 1 these are the amount of people that we saw travelling 2 the road on a yearly basis? 3 MR. DAVID HARPLEY: Yes, Dave Harpley, 4 again. Almost certainly we're going to have a 5 6 recording of road use. I mean, we plan to have a 7 fairly rigorous and regimented recording system just for road operations. So that kind of information 8 would also be collected and -- and reported on. 9 10 MS. CARRIE BRENEMAN: And is that a commitment that you have within the -- within the DAR, 11 12 or could we have that as a commitment of a yearly reporting of -- of what you saw for road access other 13 than for mine operations? 14 15 MR. DAVID HARPLEY: I -- I think it's mentioned in the DAR in terms of the -- the monitoring 16 17 of road operations. It may not be completely specific to unauthorized use of the road, and -- but -- but --18 yeah. I mean, it -- it's part and parcel of what --19 20 how we intend to operate the road so, yes. 21 22 --- COMMITMENT NO. 2: CanZinc to commit to a yearly 23 reporting of road access not 24 related to the mine 25

1 MS. CARRIE BRENEMAN: And then as a side note, I mean if we are -- if you are seeing 2 significant numbers of vehicle traffic on the off 3 chance that you are, have you thought about adaptive 4 management around -- I mean, it seems fairly unlikely 5 6 but on the off chance that either the gate doesn't go 7 through or the checkpoint becomes unmanned and you are seeing a lot of people who suddenly want hunting 8 access for caribou or that you have safety concerns, 9 have you thought about how you're going to manage 10 11 that? 12 MR. DAVID HARPLEY: I think, as with most things, we're going to respond based on what 13 activities actually occur. And we're certainly 14 expecting to have folks that are basically on our 15 payroll operate a checkpoint. If they're not doing 16 17 that, then clearly we're going to have to change staff or take a different approach or maybe an addif --18 additional approach to make sure the checkpoint's 19 20 operated. 21 It's a little hard to speculate on what 22 kind of issues might arise if -- if -- I mean, it 23 might be possible that some people are still avoiding 24 the checkpoint. And we may have to make some 25 adaptation possibly in the location of the checkpoint

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itself, or even additional measures, like additional 1 2 monitors. 3 But, as you say, I think it's kind of unlikely. But until we actually get to the situation 4 it's hard to be specific on how we would re --5 respond. 6 7 CO-FACILITATOR BARB SWEAZEY: Thank you. So we've actually done a little bit of drafting 8 of some potential wording for commitment. Was this an 9 appropriate time to put it up in front of the group to 10 make sure that we are all in agreement with the idea 11 that it'd be exchanged here? It's okay for us to try 12 13 that? 14 Yeah, okay, Jonathan, Parks Canada. 15 MR. JONATHAN TSETSO: Jonathan, Parks I'd just like to make a quick clarification 16 Canada. 17 on a few of the discussion points from earlier. So we 18 would have signage at the park boundary indicating that people are required to have a permit to -- or 19 20 contact Parks Canada prior to going into the park. 21 And then, also, you know, we're talking 22 about shared responsibility for safety for potential 23 visitors on the road in a park. You know, in -- in an instance where somebody does have a serious emergency, 24 25 obviously Parks Canada would -- would provide

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assistance. 1 2 Now, how we already operate and manage the park is a very practical approach. We have river 3 outfitters out on the river with some of the 4 canoeists. We have pilots out there. 5 6 So as -- as occurrence or incidents 7 happen, we certainly tap into those relationships. And I'm -- and I'm glad to hear that Canadians Inc. 8 has been thinking about, you know, a cooperative and 9 shared approach to monitoring the road. 10 11 Would we necessarily have park staff 12 just sitting at a manned gate out there? No, obviously not. Our -- our law enforcement personnel 13 would probably do periodic patrols. And then, also, 14 15 they would be very reactive. So anything that comes up that they think might trigger an investigation, 16 17 they would go out. 18 And then obviously we would have staff working very closely with the Company and contractors 19 20 doing any type of compliance inspections under the land use permit and water licence, as well. 21 22 CO-FACILITATOR BARB SWEAZEY: Thank 23 you. So shall we go ahead and put something up? So if you'd just give us one (1) moment just to switch 24 25 the cords to the projector, please.

1 (BRIEF PAUSE) 2 3 CO-FACILITATOR BARB SWEAZEY: So there was a suggestion just to read it instead of put it 4 onto the screen. So, Stefan, can I turn it over to 5 you to read --6 7 CO-FACILITATOR STEFAN REINECKE: Okay. 8 CO-FACILITATOR BARB SWEAZEY: -- your 9 wording? I turn it over to you to read --10 11 CO-FACILITATOR STEFAN REINECKE: Okay, 12 so Stefan Reinecke, with Stratos. Just I need a little bit of clarification here because it seems like 13 we potentially have questions related to an 14 undertaking, and also a commitment. 15 16 So I'm just wondering, if we state a 17 commitment, if it will be complete at this stage. 18 CO-FACILITATOR BARB SWEAZEY: I think 19 it will. 20 CO-FACILITATOR STEFAN REINECKE: Okay. So CanZinc will establish traffic monitoring on the 21 all-weather road to -- and this will address the 22 23 location of checkpoints with the possibility of one 24 (1) at the crossing as well as at the midpoint between the river and Grainger Gap, monitoring by maintenance 25

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crews, the data collection reporting of incidence and 1 2 incidence response measures. 3 So that's just a rough take to capture some of the questions and details that people have 4 5 raised. 6 CO-FACILITATOR BARB SWEAZEY: Barb 7 Sweazey. Are there -- are there any concerns with the wording of that -- that concept for the commitments 8 and does it address the questions and concerns that 9 you have raised? 10 11 12 (BRIEF PAUSE) 13 14 CO-FACILITATOR BARB SWEAZEY: So there was a suggestion from the Review Board, folks, that we 15 will just work a little bit on smoothing out the word. 16 17 Perhaps we can just do that over lunch and put that back in front of you after lunch and then that might 18 19 be easier to respond to. 20 Is that okay? Are there any concerns 21 with that approach? 22 MR. DAVID HARPLEY: I -- I don't 23 really have an objection to that. I was actually going to offer to do the same thing, but -- and I 24 25 would maybe still do that, because there may be some

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1 tweaks we'd like to make.

CO-FACILITATOR BARB SWEAZEY: 2 Thank you for that offer. Perhaps we can just have a little 3 working session over lunch. Thank you for that. 4 Okay. So I'm going to suggest that unless there's any 5 other questions on access control that we break now 6 for lunch. 7 8 I know that we still have a couple of other agenda items related to the project overview 9 that we'll do immediately following lunch. So it is 10 about thirteen (13) minutes after 12:00. Could I ask 11 12 you to be back just by one o'clock or a couple minutes after one o'clock, ready to go by 1:05. 13 14 Thank you. 15 --- Upon recessing at 12:13 p.m. 16 17 --- Upon resuming at 1:21 p.m. 18 19 CO-FACILITATOR BARB SWEAZEY: I'm 20 sorry that we're a bit late starting, but we are happy 21 to have everyone back in the room. So again it's --22 sorry, Barb, from Stratos. So over the lunch hour 23 there was a little bit of thinking that was done around two (2) commitments that relate to access 24 25 control that were being explored before the lunch

hour. 1 2 And so some draft wording has been proposed, and I wonder if I could have someone from --3 are you going to read it -- Stefan will read out this 4 -- this language. And make sure that it sort of 5 addresses the concerns and questions that had 6 surfaced, and that CanZinc is okay with the proposed 7 wording. 8 9 CO-FACILITATOR STEFAN REINECKE: Stefan, from Stratos. So two (2) commitments. 10 The first CZN will monitor and record non-mining traffic 11 activity on the all weather road, including through 12 13 the establishment of a checkpoint and report this information annually. 14 15 And the second one is CZN will have local environmental monitors on the all season road 16 17 during periods of mine traffic. 18 So I'm seeing a nod. CanZinc reat --19 comment? 20 MR. DAVID HARPLEY: Yes, that's fine. 21 Thanks. 22 MR. CHUCK HUBERT: Chuck Hubert, with 23 the Review Board. With the exception that the Review 24 Board will use the short form CanZinc for CanZinc Incorporation rather than the symbol. The -- the 25

Review Board doesn't want to be associated with the 1 2 stock symbols. Thanks. 3 MR. DAVID HARPLEY: Okay. CO-FACILITATOR BARB SWEAZEY: 4 And, Carrie, is that okay? 5 6 MS. CARRIE BRENEMAN: Carrie 7 Breneman, Dehcho First Nations. Yes, that's fine. 8 CO-FACILITATOR BARB SWEAZEY: Great. Thank you very much. So I'm going to suggest that we 9 wrap this section of the conversation on access 10 control. We are running behind, which we flagged 11 12 earlier. Today would be one of our biggest 13 challenges. So -- but I do want to give the -- the opportunity for any questions that may relate to the 14 second agenda item in the eleven o'clock time slot but 15 just related to road components. 16 And there's two (2) sub bullets there. 17 18 One (1) related to temporary camps, and one (1) to the Tetcela transfer facility. So I suggest that if there 19 20 are any questions related to temporary camps, this would be a good time to -- to raise those questions. 21 And I believe someone from Parks Canada I know had one 22 23 (1) question to kick off the discussion. 24 So I'll turn it to Parks Canada first. 25 MR. GARY SCRIMGEOUR: Gary Scrimgeour,

Parks Canada. I'd like to take the opportunity to 1 talk about the use of soak away sumps at the temporary 2 camps, specifically for some context. 3 There are four (4) construction camps 4 within Nahanni National Park Reserve. The -- Canadian 5 6 Zinc has identified the use of soak away sumps for 7 both grey water and sewage at two (2) of those sites. Excuse me. And for soak away sumps for solely grey 8 water at the remaining two (2). 9 Soak away sumps are a standard approved 10 recognized method. We think disposal of grey water at 11 12 soak away sumps minimized any environmental impacts. 13 We would like to make a -- a request, or a com -- a request that the Canadian Zinc consider, or are able 14 to commit to on site sewage containment and off site 15 disposal for all four (4) camps. 16 17 CO-FACILITATOR BARB SWEAZEY: Canadian 18 Zinc, can I ask you to respond to that or do you need 19 a moment? 20 MR. DAVID HARPLEY: No, I think I can respond. Or I guess I'd kind of like to put the 21 22 question back as to why that's being asked for. It's 23 the -- the assumption would be that sumps are 24 considered such a risk that we can't use them. 25 CO-FACILITATOR BARB SWEAZEY: Parks

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1 Canada...?

2 MR. GARRY SCRIMGEOUR: Certainly. Just additional clarity. On site sewage storage 3 combined with off site disposal is becoming a 4 predominant way to address potential effects due to 5 6 sewage. They've committed to it at two (2) sites. 7 We think that any potential concerns related to sewage disposal could be totally avoided or 8 eliminated by offsite disposal. 9 MR. DAVID HARPLEY: 10 Okay. So as far as I understand, Garry, what you're saying is you 11 12 don't have a problem with grey water at specific sites, it's -- the problem is brown water, if I can 13 call it that. 14 15 I think what I'd prefer to do at this point is just to say we'll go away and think about it 16 17 some more and get back to you on that one. 18 CO-FACILITATOR BARB SWEAZEY: So could we shape that as an undertaking then? I'm looking to 19 20 Review Board staff. Yes. So could one (1) of you, perhaps Dave or Garry help just articulate what that 21 22 followup investigation would look like in your own 23 words, please? 24 MR. GARRY SCRIMGEOUR: Absolutely, 25 happy to do so.

1 CO-FACILITATOR BARB SWEAZEY: Do we 2 want to try and -- try and do that right now, right, get the wording of the undertaking. Could -- how 3 would we shape that? David, when you said you would 4 be happy to look into that and get more information, 5 can you just articulate to us what that would be, 6 7 please? 8 Well, I have to --MR. DAVID HARPLEY: David Harpley. We will go away and think how much of 9 an impediment it might be to the operation to 10 undertake to store and dispose of sewage elsewhere, 11 12 brown water, in other words. 13 14 --- UNDERTAKING NO. 1: Canadian Zinc Corporation to 15 go away and think how much of 16 an impediment it might be to 17 the operation to undertake to 18 store and dispose of sewage 19 elsewhere, brown water, in 20 other words and advise. 21 22 (BRIEF PAUSE) 23 24 MS. SACHI DE SOUZA: Sachi De Souza, 25 with the Board. Right now the intended deadline for

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undertaking responses is two (2) weeks from next Fri -1 - from this Friday, so June 30th, I think, off the top 2 of my head. Can you have that -- is that an okay 3 timeline for you providing that response? 4 5 MR. DAVID HARPLEY: Probably, but that's kind of pointing a gun to my head right now. 6 7 CO-FACILITATOR BARB SWEAZEY: David, is there a better time frame, or what -- what is your 8 thinking on time? 9 10 MR. DAVID HARPLEY: Well, I mean, most likely we -- we won't have a problem with it, but I 11 12 just -- you know, I'm relu -- I'm reluctant to commit before I know I can speak to the relevant people and 13 we can consider it and get back to you, but most 14 15 likely yes. CO-FACILITATOR BARB SWEAZEY: Barb, 16 17 from Stratos. Thank you. Are there -- sorry? 18 MR. GARRY SCRIMGEOUR: Actually, if I could -- Garry Scrimgeour, Parks Canada. In two (2) 19 20 weeks, I don't think this is a simple evaluation. We certainly -- we're not -- we would not object to 21 22 providing David with a suitable amount of time to 23 consider this option. 24 MR. ALAN EHRLICH: Thanks. It's Alan 25 EHRLICH, with the Review Board. I have a question for

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Parks Canada on that. 1 2 Could you please describe if and what the potentially significant impact is that you're 3 hoping to mitigate with this? 4 5 MR. GARRY SCRIMGEOUR: Briefly, we know that -- thank you. Garry Scrimgeour, Parks 6 7 Canada. 8 We think that any potential environmental risks could be eliminated, avoided, 9 through off-site disposal. It's that simple. 10 11 MR. ALAN EHRLICH: Alan Ehrlich, with 12 the Review Board again. So can I -- are -- are you saying that part of this risk is a potentially 13 significant environmental impact? 14 15 MR. GARRY SCRIMGEOUR: It's a -- it is an issue of concern to Parks Canada. 16 17 MR. ALAN EHRLICH: Thank you. 18 CO-FACILITATOR BARB SWEAZEY: Yes, go 19 ahead. 20 MR. DAVID HARPLEY: It's Dave Harpley. 21 Maybe it would help to kind of frame this issue a 22 little -- a little better. There are certain camp 23 locations that automatically we've alr -- we've already decided there's too much of a risk of either 24 25 grey or brown water. So we just simply wouldn't

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operate a -- a sump at that particular location 1 because it's right by a creek, for example. What 2 we're saying is that there are certain locations, and 3 one (1) I can think of is near the Tetcela. You know, 4 it's a lowland area. It can be very distant from a 5 It's very flat. There's -- any -- any 6 river. 7 discharge from a sump's just going not to travel anywhere very quickly. So I think the risk is very --8 very minimal. 9

10 However, with a soak away, the water has to soak away. So, you know, if we're in a lowland 11 12 area, and it's not doing that, then it's not going to work effectively anyway. So that's -- those are the 13 kind of issues we're going to need to wrestle with and 14 -- and come up with a -- an answer of whether we 15 should just abandon the idea or -- or, no, we really 16 17 do want a sump.

18 CO-FACILITATOR BARB SWEAZEY: Barb, from Stratos. Thank you, David. So is it safe to say 19 20 that we have flagged this as an undertaking requiring further investigation, but that we don't necessarily 21 22 need to have it within the two (2) week timeframe, 23 given the complexity of the issue at hand? I'm just 24 wondering if that's what we've agreed to here. Yes? 25 Yes, David, Garry? Okay. Great. Thank you.

1 So are there any other questions 2 related to the -- to temporary camps that folks either on the phone or others around the table would like to 3 ask at this time? 4 5 6 (BRIEF PAUSE) 7 CO-FACILITATOR BARB SWEAZEY: Is there 8 another question from Parks Canada? Possibly? And 9 Barb, from Stratos. 10 11 While they are just deciding if there's 12 a question, just as a heads up, the next questions we'll be tackling are related to the Tetcela transfer 13 facility. 14 15 16 (BRIEF PAUSE) 17 18 MR. JONATHAN TSETSO: Jonathan Tsetso, 19 Parks Canada. Just -- I quess it's more of a -- a 20 question for the Proponent CanZinc. In the project description, there are only four (4) proposed camp 21 locations at kilometre 23.2, 40, 65, and 87.5. But 22 23 there was some loose language in there about potential 24 other sites. 25 So I just want to be clear if -- if

those are the -- the four locations that you're 1 2 proposing for camps in -- in the park. Thanks. 3 MR. DAVID HARPLEY: It's Dave Harpley. I think the -- the general assumption is correct that 4 -- but with one (1) possible exception. 5 I think we were kind of vacillating a little bit on the -- the 6 7 Tetcela 87 camp, because there's a possibility we might combine that with the Tetcela transfer facility 8 site. So at one (1) -- one (1) of those two (2) 9 locations, we would propose to have a camp. 10 11 CO-FACILITATOR BARB SWEAZEY: Barb, 12 from Stratos. Are there any follow-up questions from 13 Parks Canada? No. Okay. Great. So at this time, I'm going to open it up for the next piece, which is 14 on the Tetcela transfer facility. 15 16 Are there questions from anyone on the 17 phone line or anyone in the room related to that topic? 18 19 20 (BRIEF PAUSE) 21 22 MR. JONATHAN TSETSO: Jonathan Tsetso, 23 Parks Canada. So I'd just like to note that we're pleased that Canadian Zinc has provided certainty and 24 25 clarity regarding the development, the description of

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1 the proposed all-season road.

2 Canadian Zinc has indicated that phase 1 and phase 2 approaches will be abandoned and that 3 the TTF will no longer be constructed or operated. 4 Parks Canada is satisfied with your response, and this 5 will reduce the potential impacts associated with 6 7 long-term storage of concentrates in the park, and also reduces complexity and increases efficiency for 8 assessment. 9

Now that the TTF is no longer required by Canadian Zinc, it is Parks Canada's view that the permits will not be required to construct and operate the facility. It is our view that the TTF, the Tetcela transfer facility, should be scoped out of the assessment.

16 If this is the case, Parks Canada will 17 rescind IRs 5 through 7, as they are no longer relevant to the project description. However, 18 Canadian Zinc has also indicated that they now intend 19 20 to develop a road maintenance yard at the previously 21 proposed TTF location. And to that, we will respond 22 with new Information Requests for Canadian Zinc, and 23 we'll be asking the following: 24 1) Please identify the activities, 25 precise location, and space requirements asso --

associated with the newly proposed road maintenance 1 2 vard. 3 2) Please identify all potential impacts to wildlife, vegetation, water quality and 4 cultural resources. Include all baseline research 5 that would provide clear evidence to support the 6 7 findings. 8 And, 3) Identify these proposed mitigations to effectively manage any potential 9 impacts to wildlife, vegetation, water quality, or 10 11 cultural resources. 12 CO-FACILITATOR BARB SWEAZEY: So CanZinc, is there a response to that request? 13 14 MR. DAVID HARPLEY: It's Dave Harpley. 15 Before I get to the request, I just want to be clear on where we believe we are in terms of the TTF and 16 17 phase 1 and phase 2. It is true that we entered the 18 EA on the assumption that we might develop the road in two (2) phases. That's where the phase 1 and phase 2 19 came from. 20 21 The reason it came in that nature was 22 because initially, we thought it would make sense to 23 at least have an all-season road from the mine to the 24 TTF, because then we could start hauling year-round to that location. 25

1 For a number of reasons, through the EA 2 process as it's evolved, that approach is no longer workable from a project perspective, because we're 3 dealing with concentrate not only in bags, but also in 4 bulk. And we don't want to get in a situation where 5 we're dumping bulk, and then reloading bulk offsite. 6 7 So the project as we currently envisage it -- envisage -- just get my tongue around it, 8 envisage the project right now is that we will not 9 have a phased project. We will not have a need for a 10 11 TTF. 12 But whether we can go to the point of abandoning it, I think that's, I think, maybe what the 13 Review Board needs to be comfortable that the phased 14 approach has been abandoned, and they're happy to just 15 consider the -- the one (1) project, because it's --16 17 it's part of the scope currently. And we can't just 18 decide to change the scope. That's up to the Board. 19 But, you know, as -- as we said on the 20 record, and in -- and in writing in our responses, currently we don't envisage a phased development. And 21 22 -- and, therefore, we don't have a need for a TTF. 23 So given we don't develop a TTF, there 24 would be no sense trying to preserve that location for 25 road maintenance. All we're saying is that, at -- at

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certain of the locations we develop for camps to 1 support road construction, we would want to maintain 2 some of them to support road maintenance. 3 So, in that respect, we're happy to 4 obviously entertain IRs and bring as much clarity as 5 6 we can. 7 CO-FACILITATOR BARB SWEAZEY: So T look to the Review Board to comment on that question -8 - or the response from David. 9 MR. CHUCK HUBERT: Yeah, Chuck Hubert, 10 with the Review Board. The -- the Board requests that 11 12 CanZinc describe its scope of development in its entirety for clarity for the Board and other parties. 13 14 So if CanZinc requests that the phased approach is no longer required, and it -- that it's 15 simply build -- building from east to west, please, 16 17 state that. If the TTF is no longer required, please, 18 say that for clarity for everybody. 19 If there's -- so in other words, it's a 20 -- the Board relies on the Developer to describe the project so that everybody is clear. Does that help? 21 22 MR. DAVID HARPLEY: Yeah. Dave Harpley. Yeah, I mean, that's fine. But, in fact, I 23 think we've done exactly that in our recent 24 submissions. 25

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1 MS. SACHI DE SOUZA: So it's Sachi De Souza, with the Review Board. So just to make sure 2 all of us are on the same page, and Parks Canada 3 stated this very well. If a phased approach is no 4 longer the approach for the Development, it's going to 5 be constructed as a whole, the Tetcela Transfer 6 7 Facility is no longer needed to store concentrate. 8 It will -- however, there will be a camp location in that vicinity, and there is wording 9 for an undertaking to clarify what that camp is needed 10 for. And just for my own clarity, in the presentation 11 12 from Canadian Zinc on -- I don't know what slide 13 number this is -- there is a Tetcela Transfer Facility 14 located on this slide. So is this really the location of a 15 camp as opposed to a concentrate storage location? 16 17 MR. DAVID HARPLEY: It's Dave Harpley. It was -- or it is the location of the TTF if we were 18 to build it. If we're not going to build it, which is 19 20 currently our position, then it would likely not be the location for a camp. 21 22 23 (BRIEF PAUSE) 24 25 MR. ALAN EHRLICH: Okay. It's Alan

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1 Ehrlich, for the Review Board. Can you just confirm 2 that the first statement that Sachi made about your project and intentions are also correct? 3 MR. DAVID HARPLEY: It's Dave Harpley. 4 You mean that we no longer intend to build the road in 5 a phased manner, and that it's going to be one (1) 6 7 project? Yeah, I just said that. And also it's in our submissions that we've put in recently. 8 9 MS. SACHI DE SOUZA: Thank you. Sachi De Souza, with the Board. So understood and 10 confirmed. I'm still a little bit unclear about what 11 12 you're saying with the Tetcela Transfer Facility here. 13 In the presentation you gave earlier to -- this morning, you said the location of the Tetcela 14 Transfer Facility has moved from what was proposed 15 with the winter road alignment, and now you stated you 16 17 don't intend on constructing it. 18 So is it a possibility you need it, and if so is -- it is still in the scope of development. 19 20 If you don't need it at all, we will make the 21 assumption that what's on the slide in your 22 presentation is -- is no longer accurate, and no 23 Tetcela Transfer Facility for storing concentrate is 24 needed. 25 MR. DAVID HARPLEY: Dave Harpley.

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We're belabouring this, aren't we. I -- I showed the 1 2 TTF location because in the permitted winter road the location of it is in a different location, and that 3 most certainly would be needed for the operation based 4 on winter because the development -- the -- the 5 project description for the winter only road relies on 6 7 having the midway point for storage so that we can start haul -- hauling early in the winter. 8 9 If we now go to all weather and build 10 the whole thing as one phase, we no longer need a TTF and we wouldn't build it. I simply showed it -- where 11 12 it would be based on the current scope of development, which includes a phased approach. 13 14 So it -- it's not that it wasn't 15 it's just that we've now moved on and we're accurate, obviously discussing modifying the scope of 16 17 development officially. CO-FACILITATOR BARB SWEAZEY: 18 Are there any other comments from the Review Board? 19 20 21 (BRIEF PAUSE) 22 23 CO-FACILITATOR BARB SWEAZEY: I would 24 just like to thank you for your -- it's Barb, from 25 Stratos -- for your response. And just to clarify,

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with the three (3) undertaking suggestions to follow 1 2 up around impacts -- activities, impacts, and mitigation that was suggested by Parks Canada, is 3 CanZinc -- I -- I think, David, you earlier agreed 4 that you would go ahead and search -- search up those 5 pieces of information in the new model. 6 7 Is that right? When they said if the TTF is not going to be there but it's a road 8 maintenance area, if you could clarify the activities 9 that would occur, the impacts related to those 10 activities, and the related mitigation measures? I 11 12 believe that's what Parks Canada was requesting as follow-up. I may be putting your -- words in your 13 14 mouth, but I just want to clarify. 15 MR. JONATHAN TSETSO: Okay. Thanks. Jonathan, from Parks Canada. 16 17 Perhaps what would help my -- my logic on this a little bit is, so we have the four (4) 18 locations at -- that are identified for camps in the 19 20 park. And then -- then we have the currently permanent TTF at kilometre 86, correct? Yeah? Okay. 21 22 So one (1) of the kilometre markings 23 that we were given for the camps was eighty-seven point five (87.5). So, I mean, eighty-six (86) and 24 25 eighty-seven point five (87.5) are pretty close. So I

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1 guess if there's no need for the TTF and there will be 2 a camp at eighty-seven point five (87.5) then that's 3 already scoped into the EA. So I think I'm okay with 4 that approach.

5 CO-FACILITATOR BARB SWEAZEY: Barb, 6 from Stratos. So then no additional follow-up 7 investigation is required? No -- no undertakings are 8 required then or requested at this time?

9 MR. JONATHAN TSETSO: Jonathan, from Parks Canada. I guess the only additional question I 10 would have for the Proponent is because this is, like 11 12 as you mentioned, kind of that midway point, are there certain requirements or needs from the camp at -- in 13 this area, eighty-seven (87), that are over and above 14 now with this new scenario where the TTF is not in? 15 Are there any additional requirements for that space? 16 17 MR. DAVID HARPLEY: It's Dave Harpley. 18 So the -- the idea here, the camps, in general, for the whole road are roughly about 20 kilometres apart. 19 20 So, I mean, you -- you would understand that the purpose of the camp is that you be proximal to the 21 22 location of work activity, so you're not travelling a 23 great distance every day. So the camps are going --24 the camps are going to ebb and flow. You know, one 25 (1) camp will become the main camp. Then it'll be

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1 scaled down and basically closed. They're -- they're
2 really meant to support construction.

3 So our id -- our idea for operations is that perhaps we can have a nominal camp location 4 approximately every 40 kilometres. And that was the 5 purpose of putting the stars on those camp locations 6 7 in the slide I showed this morning, to indicate which camps we think are the right kind of location and 8 distance as -- as camps to be maintained for 9 operations. But -- but these are going to be much, 10 much lesser activity than -- than during construction. 11 12 We're literally talking about maybe a trailer and a -and a space to park a couple of vehicles, and maybe 13 stockpile a little bit of borrow material. 14 15 And the other thing to bear in mind is that in developing these camps we're going to prefer, 16 17 where possible, to develop the camps in borrow 18 locations. So we're not actually creating a -another disturbance. We're -- we're keeping the 19 20 disturbance to an area where we're already disturbing. 21 CO-FACILITATOR SWEAZEY: Barb, from 22 Stratos. Thank you, David. Parks Canada, are there 23 any additional questions or follow-ups required? 24 25 (BRIEF PAUSE)

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1 MS. ALLISON STODDART: Hi. This is 2 Allison Stoddart, with Parks. Oh, okay. There. Allison Stoddart, with Parks. So just to clarify, the 3 -- the camps that you're talking about right now, the 4 ones that you are asking about to be 40 kilometres 5 apart, where you can store some things for -- for 6 construction stuff. 7 So these are not the current con --8 construction camps that you've already referenced in -9 - in the DAR? 10 11 MR. DAVID HARPLEY: Dave Harpley. No, 12 they are. They're the same. We're not proposing to develop different sites. We're just maintaining some 13 of the construction camp locations in a smaller 14 15 capacity to support maintenance during operations. 16 MS. ALLISON STODDART: Oh, okay. So 17 Allison Stoddart, with Parks. So just to clarify, so 18 these are the same locations you've already proposed, but you're just proposing to keep them operational in 19 a -- in a sort of small sense for maintenance 20 21 purposes? 22 MR. DAVID HARPLEY: Dave Harpley. 23 Correct. 24 MS. ALLISON STODDART: Okay. 25 CO-FACILITATOR SWEAZEY: Barb, from

105 Stratos. So just to confirm with Parks Canada, no 1 2 request for any additional undertakings required at this time? 3 MR. JONATHAN TSETSO: No. Jon, from 4 5 Parks. No. 6 CO-FACILITATOR BARB SWEAZEY: Okay. 7 Are there any other questions related to road components? If not, I'm going to suggest then that we 8 move to the last section of this agenda which is 9 related to closure and reclamation. 10 11 Are there questions that we have 12 related -- yes, go ahead, please. 13 MS. CARRIE BRENEMAN: On slide number 8 of your presentation -- oh, sorry, Carrie Breneman, 14 15 Dehcho First Nations. 16 17 (BRIEF PAUSE) 18 19 MS. CARRIE BRENEMAN: You had the --20 the schedule and timing of road construction and I just didn't see it on here, so I just wanted to ask 21 22 for clarity. I don't see on here, this or the 23 previous slide, when you have surfacing from kilometre 39 to the mine. 24 25 Does that area require surfacing?

MR. DAVID HARPLEY: Dave Harpley. 1 First off, you're correct, it's not on there. I -- I 2 guess I will say that I tried to simplify this to 3 minimize the number of words and -- and how much 4 material. But for the most part that section's 5 already in a condition that it's not going to require 6 much material. 7 8 Certainly there's a road bed that exists from the mine to approximately kilometre 23. 9 And then beyond that we -- we're going to have to 10 develop a bed, but it's -- it's largely gravely or --11 12 or -- in fact, rock material. So the reason I left it out is it's just not going to require a significant 13 amount of work in terms of subgrade and gravel. 14 15 CO-FACILITATOR BARB SWEAZEY: Thank you, Dave. Are there any followup questions from 16 17 Dehcho? 18 MS. CARRIE BRENEMAN: You mentioned 19 the winter --20 CO-FACILITATOR BARB SWEAZEY: Name, 21 please. 22 MS. CARRIE BRENEMAN: Oh, sorry. 23 Carrie Breneman, Dehcho First Nations. 24 In your presentation you mentioned the 25 preferred alternate alignment. And I was wondering

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has the kind of wildlife, veg, and fish assessment 1 2 work been done on that new proposed alignment? 3 MR. DAVID HARPLEY: Dave Harpley. I don't have my consultants behind me to confirm, but --4 and we can come back to this, but it's my 5 understanding that in their revised assessments in the 6 7 adequacy materials they were aware of the realignment and have incorporated that into their reporting, or 8 adjusted it as necessary, or -- or deemed it isn't --9 doesn't require adjustment. 10 11 So right now the best I can say is, I 12 think so, yes. 13 MS. CARRIE BRENEMAN: Carrie Breneman, Dehcho First Nations. This is my final question. 14 In this you mention that there'll be a winter road 15 that'll be right beside the all-season road. Is --16 17 I'm just confused about this, just because you've already been permitted for a winter road. 18 19 So will that -- but -- but in some 20 sections the alignment's different than what you're 21 proposing for the all-season road. 22 Will you also be applying for a winter 23 road in this application or is that covered under the previous permit? 24 25 MR. DAVID HARPLEY: It's Dave Harpley.

It gets a little complicated, I guess. Maybe the best 1 2 answer I can give you is that I think when you have an all-season -- to my -- to my knowledge at least, when 3 you have an all-season road permit you can pretty much 4 build either type of road. You can -- you can build a 5 winter road or an all-season road, because winter road 6 7 impacts aren't going to be as great as an all-season road. 8

9 But as I said this morning, it's --10 it's not our intention to go out and build the winter 11 road on the alignment that we provided to the Review 12 Board and to the permitting agencies, because we would 13 just be creating more impact by doing that and then 14 going and building an all-season road on a different 15 alignment.

16 So in general terms, we're going -- our 17 intent at least is to build the -- the winter road 18 access right adjacent to the footprint of where we're building the all-season road. Apart from two (2) 19 20 specific locations where we still intend to stick to the intended winter road, because the -- the all-21 22 season road wouldn't have advanced to those locations 23 by the time we would want to put the winter road in. 24 MS. CARRIE BRENEMAN: And then -sorry, Carrie Breneman, Dehcho First Nations. Just to 25

follow up, like my understanding was that your 1 original road that you're permitted for was a snow-2 capped road. It's not an ice road. So would you be 3 using the same -- like, first of all, is that correct? 4 5 MR. DAVID HARPLEY: Dave Harpley. Essentially, that's correct. And -- and to -- I can -6 7 - I -- I think I know what your next question's going to be, but the -- the approach to construction on the 8 winter road is going to be for -- to support the --9 the all-season road construction would be the same as 10 we had proposed before for the winter road. 11 12 I mean, it -- it's ice over -- over large water courses and it's -- it's snow fill for the 13 14 rest, so. 15 MS. CARRIE BRENEMAN: Okay. The only reason I asked is I was just curious, if you were 16 17 planning to use ice, if you were going to use water and where those water sources would be if there was 18 any change from the original project. That was my 19 20 only question. So you've answered that. Thank you. 21 CO-FACILITATOR BARB SWEAZEY: Thank 22 you. Are there any additional questions related to 23 road -- the closure and reclamation? 24 People on the telephone, are there any 25 questions related to this topic?

110 1 2 (BRIEF PAUSE) 3 CO-FACILITATOR BARB SWEAZEY: 4 So at this time I think I will just Mark, did you want to 5 6 just make one (1) remark? 7 MR. MARK CLIFFE-PHILLIPS: Mark Cliffe-Phillips, with the Review Board. Just in 8 following up to some of Carrie's questions and the --9 the responses from -- from David. 10 11 In terms of any winter road alignment 12 or winter road being constructed within the all-season road alignment, if that is a consideration, we will be 13 considering any of the -- the potential impacts 14 associated with the winter road construction. Even 15 though you do have a permit for a winter road, it's 16 17 within a certain quarter from the previous permit and previous environmental assessment. 18 19 CO-FACILITATOR BARB SWEAZEY: Is there 20 a -- Barb, from Stratos. Is there a response 21 required? 22 Mark, were you looking for a particular 23 response? It was a just a comment. And one (1) 24 additional question, I understand. 25 MS. SACHI DE SOUZA: Sachi, with the

Review Board. So the first -- I just have a couple of 1 2 questions related to the closure and reclamation. So I would -- was hoping CanZinc could confirm their 3 overall closure and reclamation goal or what they 4 intend the area to look like and what would be -- what 5 they want it to be after the road is closed and 6 7 reclaimed. 8 9 (BRIEF PAUSE) 10 11 MR. DAVID HARPLEY: It's Dave Harpley. 12 And the pause is because I'm -- I'm trying to remember what was in our draft closure and reclamation plan 13 which was in the Allnorth report, and I can't remember 14 if that was in there or not. 15 But I think our general intent is --16 17 which I -- I'm almost certain we've spelled out 18 somewhere, is that we want to return the ground in a condition that it can over time develop vegetation and 19 20 stability comparable to the surroundings. How we go about that? It varies depending on the location. 21 22 There are some locations that I think 23 we did note where that wouldn't be possible. These would be sections where we're going to need to do some 24 25 blasting to provide for appro -- approaches to

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crossings, for example. So they will be -- they will 1 2 be necessarily left as blasted rock shapes. 3 But for the rest then, you know, for -for ground that -- where we have fill or granular 4 material, then we're going to grade and scarify and 5 contour as best we can to -- to, you know, match --6 7 blend with the local landscape and promote revegetation. 8 9 MS. SACHI DE SOUZA: Sachi, with the Review Board. So in the Allnorth report it was in the 10 -- appendix A from the DAR addendum. And Allnorth 11 12 described certain activities that were going to be done at closure, and we are aware of those. 13 14 With what was described in the Allnorth report, it wasn't necessarily clear what the intent 15 was. So if returning the ground to similar conditions 16 17 is the goal that it's good -- it's -- it will return to a wildlife habitat again that is -- has similar 18 uses to what it has now? 19 20 MR. DAVID HARPLEY: Dave Harpley. Ι 21 think, yes, in -- in general, that's the intent. 22 MS. SACHI DE SOUZA: Okay, Sachi De 23 Souza, with the Review Board. Thank you for that. 24 And the last thing was, it was unclear 25 because it was in as -- written as Appendix A to the

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113 DAR Addendum, Allnorth described specific things that 1 were going to be done, such as removing man-made 2 materials and removing bridges and culverts. And they 3 were specific about areas where they wouldn't be able 4 to reclaim. 5 6 Is CanZinc committing to doing those 7 items listed in Appendix A of the DAR Addendum outlined by Allnorth? 8 9 MR. DAVID HARPLEY: Dave Harpley. I think you can assume that if it's in a consultant's 10 report that we've included in a submission then we're 11 12 standing behind that as an approach, yes. 13 MS. SACHI DE SOUZA: Okay. Thank you. 14 CO-FACILITATOR BARB SWEAZEY: Any 15 further questions related to closure and reclamation? 16 Yes, one (1) from Parks Canada, please. 17 MS. AUDREY STEEDMAN: Audrey Steedman, 18 Parks Canada. So we do have a couple points to raise about reclamation and re-vegetation. Most of it's 19 related to Parks Canada IR-46. 20 21 So we do want to acknowledge that in 22 some terrain types along the winter road alignment 23 natural re-vegetation over about thirty (30) years has been effective at restoring ecosystem structure and 24 25 function but the -- the literature shows that there

have been examples of persistent changes in structure 1 2 and function. And so the -- the study I'm citing here is Emily Cameron's thesis in 2015. And so they 3 provided some good explanation for the mechanisms for 4 this, and some other supporting literature. 5 6 So we would just like to re-iterate 7 that all season road construction has the potential to alter permafrost hydrology in plant communities along 8 and near the road. And in cases where these impacts 9 are likely to be -- be persistent, they're probably 10 going to result in persistent changes in ecosystem 11 12 structure and function. So Parks Canada does have quidelines for ecological restoration within park 13 boundaries. We can provide that document through the 14 15 public registry. 16 And so basically our -- our request for 17 IR-46, we're still requesting that information. And 18 just to refer back to that, we're looking for details on predicted reclamation outcomes by terrain type 19 20 based on information that has been illustrated by the 21 winter road access -- or sorry, the winter access road 22 case study. 23 And we'd like impacts to ecosystems to be accurately characterized, and in cases where 24 reclamation needs to be tailored to those terrain 25

types to restore ecosystem structure and function, we 1 would like to see reclamation strategies that address 2 those terrain types. 3 CO-FACILITATOR BARB SWEAZEY: Thank 4 So just to clarify, is what you're requesting, 5 you. Parks Canada, is an undertaking for further research 6 7 above and beyond what has been asked already of CanZinc? Just -- just so I understand the process 8 there. 9 10 MS. AUDREY STEEDMAN: It's not clear if additional field studies would be required. The 11 12 first step would be, you know, a synthesis of the existing information and literature that's out there, 13 14 yeah. 15 CO-FACILITATOR BARB SWEAZEY: So is 16 there a response from CanZinc on that request? MR. DAVID HARPLEY: 17 It's Dave Harpley. This is something we will have to consider further, 18 depending on what's being requested. So I -- it would 19 20 be premature for me to make any meaningful comment on that at this point. 21 22 I would perhaps say that I think it --23 it's accurate to say that the vast majority of the old winter road alignment has naturally re-vegetated quite 24 25 well, and is pretty comparable to the surroundings.

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There may be some isolated locations that are somewhat 1 2 different. 3 But thirty (30) years is -- okay, it's a significant time period but it's still virtually 4 short in terms of how long this assemblage has taken 5 to develop to this point. So, I'm not sure we can 6 7 classify those isolated examples right now as, quote, "persistent." 8 9 Persistent in a thirty (30) year time frame may be but perhaps if we come back in a hundred 10 years we wouldn't notice them as being any different. 11 12 So that's all I can say for now. CO-FACILITATOR BARB SWEAZEY: 13 Barb, 14 from Stratos. So I'm wondering whether or not, just to get clarity on what the ask is, is it -- would it 15 be helpful for Parks Canada and CanZinc just to have a 16 17 -- a side conversation about what your expectations are and what information exists, and decide whether or 18 not it needs to be formally rolled into an 19 20 undertaking. 21 Like, is that something that we could 22 do during the day at some point today? Is that an 23 appropriate approach? 24 MS. AUDREY STEEDMAN: Yeah, we're 25 comfortable with that approach, either today or

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sometime in the near future. Yeah. 1 2 CO-FACILITATOR SWEAZEY: David, is that okay for CanZinc? 3 MR. DAVID HARPLEY: Yeah, that's fine. 4 5 Thanks. 6 CO-FACILITATOR BARB SWEAZEY: Okay. 7 Great. Thank you. Any other questions -- Barb here, from Stratos. 8 9 Any questions still related to closure 10 or reclamation? 11 12 (BRIEF PAUSE) 13 14 CO-FACILITATOR BARB SWEAZEY: Yes, 15 from Parks Canada. 16 MS. AUDREY STEEDMAN: Yes, just one 17 (1) point of clarification. I'm going to --18 CO-FACILITATOR BARB SWEAZEY: Just --19 may you state your name again? Pardon me. 20 MS. AUDREY STEEDMAN: Sorry. Audrey 21 Steedman, Parks Canada. 22 Some of the persistent changes that 23 have been researched in that study that I referenced, they seem to be related to permafrost degradation in 24 25 certain terrain types. And those -- those impacts

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are, in fact, persistent as the changes to hydrology 1 result from that permafrost degradation, and that is a 2 permanent change in the ecosystem as it won't reform. 3 So that's where we're coming from for -- for some of 4 those persistent impacts, that perspective. 5 6 CO-FACILITATOR BARB SWEAZEY: Okay. 7 Any other response or comment? 8 MR. DAVID HARPLEY: It's Dave Harpley. Well, I -- I don't think we need to get into a lengthy 9 discussion at this point. 10 11 But again, I'm not sure you can 12 consider it permanent because if you're assuming that the permafrost is changed because you've changed the 13 vegetation, then eventually the vegetation re-14 establishes as it was before. Then presumably the 15 permafrost will re-establish as it did before. But, 16 17 like I say, I don't know if we want to just continue this technical discussion, but I just didn't want to 18 leave that hanging. 19 20 CO-FACILITATOR BARB SWEAZEY: Thanks. 21 It's Barb, from Stratos. So what I've just put up on 22 the side board is for a -- a side conversation between 23 the two (2) parties to see if you can scope that out a little bit more and come back to us. We'll -- we'll 24 25 follow-up on that one (1) either later today, or if it

can't get addressed in the next four (4) days then we 1 2 can perhaps flag it as an undertaking for -- for a shared understanding to occur. Okay. Chuck...? 3 MR. CHUCK HUBERT: Chuck Hubert, with 4 the Review Board. And if Parks Canada could please 5 submit that study that was referenced. 6 7 What -- what was the name of it, please? 8 9 MS. AUDREY STEEDMAN: Audrey Steedman, 10 Parks Canada. It's on the public registry. MR. CHUCK HUBERT: Then scratch that. 11 12 Thanks. 13 CO-FACILITATOR BARB SWEAZEY: Okav. 14 So Barb, from Stratos. Looking to our agenda now, I 15 think we should move on to our next topic, which is related to fish, water, and water quality, the 16 17 biophysical. There's a bundle of five (5) or six (6) bullets there, and at this point let's -- let's take -18 - let's -- let's take a kick at the can for, you know, 19 20 half an hour, forty-five (45) minutes and then we'll take a little break, and then we'll come back at it. 21 22 So I -- I'm actually going to start 23 with folks on the phone to see if folks from ECCC or NRCAN have a question to start us off related to this 24 25 category of biophy -- oh, pardon me, sorry -- before

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we go to the phones, David? 1 2 MR. DAVID HARPLEY: It's Dave Harpley. I just want to confirm that our aquatic biologist 3 consultant is on the line. 4 MR. JOHN WILCOCKSON (BY PHONE): 5 Yeah, this is John Wilcockson, with Hatfield Consultants. 6 7 CO-FACILITATOR BARB SWEAZEY: So -so, John? Is that the name? 8 9 MR. JOHN WILCOCKSON (BY PHONE): Yes. CO-FACILITATOR SWEAZEY: Will be 10 answering some of these questions. Okay. 11 12 And what about Carla, who was here 13 earlier? She doesn't have -- related to these 14 questions? No. Okay. 15 Okay. So folks from ECCC on the line, are there any questions to start with you? Or in the 16 17 room? Loretta...? MS. LORETTA RANSOM: Hi. It's Loretta 18 19 Ransom, Environment and Climate Change Canada. I think -- I believe that we have two 20 (2) ECCC people on the line. And maybe I'll just ask 21 22 them to introduce themselves, please. 23 MR. REJ EJECKAM (BY PHONE): Rei 24 Ejeckam, Environment Canada Climate Change. 25 MR. DAVID LAVERDIERE (BY PHONE): And

1 David Laverdiere.

2 MS. LORETTA RANSOM: Loretta Ran --Loretta Ransom again with Environment and Climate 3 Change Canada. I believe what we are going to do for 4 now, unless David or Reg do have some questions right 5 now, but we would probably, as the discussion moves 6 7 along, provide some comments, or questions, or input as things move along. 8 9 CO-FACILITATOR BARB SWEAZEY: Thank you. Are there other questions from folks in the room 10 related to this topic, the biophysical components? 11 12 13 (BRIEF PAUSE) 14 15 CO-FACILITATOR BARB SWEAZEY: Okay. Dean...? 16 17 MR. DEAN HOLMAN: Thank you. Dean Holman, from the Liidlii Kue First Nation. I'm just 18 bringing to light -- let me see, CZN had contracted 19 20 Golder Associates to conduct a study to det -- to 21 determine the caribou distribution along the proposed 22 road during the non-winter period. 23 My -- I guess a question or a concern 24 would be, was there indigenous knowledge? Was indigenous knowledge an aspect of this study or not? 25

CO-FACILITATOR BARB SWEAZEY: 1 Tt's 2 Barb here. There's a request that perhaps that question might be a better fit for the -- the day that 3 we deal with the caribou population, specifically 4 Is that okay, Dean, that we pause that 5 tomorrow. question until tomorrow? 6 7 MR. DEAN HOLMAN: Yeah, that's -that's fine. 8 9 I -- I did want to mention something else with a sidebar on -- on -- between Parks Canada 10 and CZN if -- because -- because the -- the intent --11 12 the intent of the agreement between Parks Canada and the -- and the expansion of the park itself is highly 13 dependent on the aquatic resources and the 14 15 biophysical, but more importantly, the aquatic resources, I'm wondering if the First Nations in the 16 17 room here could accompany it in that discussion. Thanks. 18 19 CO-FACILITATOR BARB SWEAZEY: Are --20 are you directing that question particularly to someone from CanZinc, or to First Nations colleagues, 21 22 Dean? 23 MR. DEAN HOLMAN: It's Dean Holman, It's -- it's directed to the Board. I think 24 again. 25 that the Board is the one -- is the -- the -- you

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know, the coordinate body here, so that's for you guys 1 to decide. Thanks. 2 3 (BRIEF PAUSE) 4 5 6 MR. MARK CLIFFE-PHILLIPS: Mark 7 Cliffe-Phillips, with the Review Board. Is that okay with Parks Canada and Canadian Zinc to have 8 representation from DFN, or -- or Dehcho First Nation, 9 or -- or Liidlii Kue in those conversations? 10 11 MR. DAVID HARPLEY: It's Dave Harpley, 12 Canadian Zinc. I think I'm -- I'm a little confused as to what is being asked of us. And it seems to me 13 Parks are in a similar position, so. 14 15 MR. DEAN HOLMAN: Dean Holman, here again. Because -- okay. The -- the original park 16 17 expansion was highly dependent on protecting the waterways and protecting the -- the hydrology, the 18 aquatic ecosystem, and all that's pretty much under 19 20 the sun, and the sky, and the mountains. 21 What we were -- what I'm -- why I'd 22 like to be involved or like the First Nations to be 23 involved in the conversations is to -- is because we still are actively in -- are sitting at a table 24 25 discussing what the values of the park would be from a

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First Nations perspective, not just a Parks Canada 1 2 perspective. 3 And so, you know, I -- I think that the information that the First Nations may be able to 4 provide would only add -- add some value to the 5 6 conversation. 7 CO-FACILITATOR BARB SWEAZEY: Thank you, Dean. It's Barb. 8 9 So just perhaps if I could ask a follow-up question, are there particular ways that 10 First Nation involvement could occur that isn't 11 12 occurring that you can see that you would like to discuss here? 13 14 Are there specific ways or opportunities that -- that could exist for you that 15 you haven't been able to participate in? Is that the 16 17 question you're getting at? 18 MR. DEAN HOLMAN: The -- sorry, Dean Holman again. The LKFN has -- has been engaged in 19 20 various discussions from a regional perspective, from a Park's perspective, nationally. But also, from the 21 22 community perspective, there are a lot of information 23 sources that haven't necessarily been tapped into. And this is as a result of the -- of just not being --24 25 being included in some of the discussion and topics.

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Again, you know, like, there -- there 1 2 was -- for an example, there was a -- there was discussions on where to -- where the Review -- Review 3 Board would be having a -- a community session to 4 discuss the community perspectives. Liidlii Kue 5 wasn't -- wasn't one (1) of those places with on the -6 7 - with -- or sorry, on the list. 8 So, you know, I think just for the benefit of everybody here, if we have -- you know, 9 keep this transparent, we shouldn't have, you know, 10 just one (1) organization or one (1) government 11 12 organization that's also supposed to be in -- in a way representing the First Nations' interests, speaking 13 directly with the com -- proponent without the First 14 15 Nation being there. 16 MR. DAVID HARPLEY: It's Dave Harpley. 17 I -- I won't speak for other parties, it's -- it's not 18 our place. But what I will say, Dean, is that a number of things have happened to get us to this point 19 20 that you may or may not be aware of. 21 And -- and we can certainly sit with 22 you and go through the details of what transpired and 23 what the outcomes were. For example, there were the 24 studies that were completed to support the EA for the 25 mine several years ago.

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And there was also -- we had to rebuild 1 2 the road in several sections near the mine because it had eroded. And in that reconstruction, we -- we had 3 to also build compensation for habitat lost. 4 So there were a number of that -- of 5 studies that were done to replace that habitat. And 6 7 just to the -- get to the point where we agreed what we were going to do, there were a number of meetings 8 held with the First Nations. 9 In the -- in the last EA with the 10 winter road and, also, this EA for the all-season 11 12 road, we've -- we've relied at times quite heavily on the extensive traditional knowledge study that was 13 completed by Cross Currents Associates (phonetic). 14 15 Admittedly, that was largely focussed on Nahanni Butte as a source of knowledge. But it 16 17 documented historical use of the -- of the area and, 18 particularly, locations where certain types of fish were caught, how many, and -- and that type of 19 information, so we have used it. 20 21 And as I say, we're more than happy to 22 sit down and share with you what we've learned to this 23 point based on Aboriginal knowledge and traditional 24 knowledge. MR. DEAN HOLMAN: Thank you -- thank 25

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1 you very much. I -- I just wanted to -- the -- the 2 intent behind this is -- is because there are changes 3 between, you know, what was proposed during -- you 4 know, during the past ten (10) -- ten (10) years, for 5 instance.

6 The -- the all-weather road, in both 7 the government's eyes and the First Nations' eyes is -8 - is something that is -- it -- it is a high value. 9 However, there are other values, I guess, on their 10 right-of-way changes that could pet -- potentially be 11 affected that might not have been included in the past 12 studies.

13 And I think that's something that -that we have to really pay attention to during --14 during these discussions, especially on the technical 15 aspects, because if we -- if we don't have the 16 17 indigenous knowledge of information out there on the -18 - on the new right-of-way, then it presents -- it presents a problem in the Board determining the -- the 19 20 impacts to First Nations. 21 CO-FACILITATOR BARB SWEAZEY: Thank

22 you, Dean. Barb, from Stratos. Mark, do you have a 23 comment to add here? 24 MR. MARK CLIFFE-PHILLIPS: Mark

25 Cliffe-Phillips, with the Review Board.

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1 Dean, my initial request, I guess, to both Canad -- Canadian Zinc and Parks Canada was 2 referring to the -- the homework item of the 3 discussions that were going on. It doesn't sound like 4 that was really the root of what you were asking for. 5 6 Maybe if we could just ask Canadian Zinc if you could 7 commit to following up with Liidlii Kue on some of the discussion items that were being brought forward. 8 It's Dave Harpley. 9 MR. DAVID HARPLEY: 10 Yeah, we're happy to do that, as I just mentioned. Ι -- I will add though that, Dean, I take your point 11 12 regarding the alignment and consideration being also 13 environmental impact and -- and fish. You'll remember this morning there was one (1) specific area between 14 15 the Grainger Gap and the Wolverine Pass that I indicated that we had come up with an alternative 16 17 alignment, which we think is superior. Part of the reason we -- we came to 18 that decision was we had feedback from Nahanni Butte 19 20 that we should obviously protect water resources and -21 - and fish res -- resources where we can, and also 22 minimize blasting as much as possible. So in the --23 in the red line that I showed there, entering the -the Grainger Gap from the east, we have to cross 24 25 Grainger River once. And also on the west side of the

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gap, we have to cross it again to climb an escarpment 1 in order to get to the other side of the valley. 2 3 By going to that preferred route, the yellow line that I showed, we avoid that second 4 crossing, and -- and instead, we cross what we call an 5 'outwash fan', which for the most part of the year is 6 dry and it doesn't host fish. And there's no blasting 7 involved. So there's just an example how we've 8 incorporated Aboriginal input and also minimizing the 9 impact on fisheries with coming up with a better 10 11 alignment. 12 CO-FACILITATOR STEFAN REINECKE: Stefan Reinecke, with Stratos. Just a point of 13 clarification. 14 15 We had previously identified the need for a sidebar conversation between CanZinc and Parks 16 17 in response to the questions related to reclamation and the possible need for additional assessment and 18 tailoring of reclamation methods and concerns about 19 20 permanent impacts. And I understood that Mark has now made the suggestion that -- that you two (2) report 21 22 back to Dean on the findings of that. 23 But I thought that would be discussed with the whole group in general, would it not? 24 25 MS. SACHI DE SOUZA: Sachi De Souza,

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with the Board. So there's a couple of things here, I 1 think. The first is that Parks Canada and CanZinc are 2 going to have a conversation about closure and 3 reclamation as -- as was phrased in their initial 4 question. The second is -- and once they reach that -5 - the outcomes from that discussion will be reported 6 7 to the Board either during the technical session or for the record later on. 8 The second part of that is that CanZinc 9 will have a conversation with Liidlii Kue to update 10 them on what's going on to date with this project, and 11 12 with a specific focus, by the sounds of it, on aquatic resources of the fisheries resources. So those are 13 the two (2) things that we have written down as to-dos 14 from the technical session. 15 CO-FACILITATOR BARB SWEAZEY: So I --16 17 Barb, from Stratos. Just checking in with Parks 18 Canada, CanZinc, and with Liidlii Kue. 19 Are the -- does that little summary 20 that Sachi just did, does that make sense? Is that 21 sort of reflecting what we've decided so far? 22 MR. JONATHAN TSETSO: Jonathan Tsetso, 23 Parks Canada. Yes. 24 25 --- UNDERTAKING NO. 2: Parks Canada and Canadian

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1 Zinc to report outcomes from sidebar discussion to the 2 3 Board. CanZinc will update Liidlii Kue on the project, 4 5 with specific focus on 6 aquatic resources of the fisheries resources 7 8 9 I might just add MR. JONATHAN TSETSO: another point, just for additional information for 10 you, Dean. 11 12 As you know, we have a -- an interim park management arrangement with Dehcho First Nations, 13 which outlines our Cooperative Management Board. 14 We have Darrell Betsala here with us as well. Currently, 15 the -- the committee is -- consists of -- of seven (7) 16 17 seats. So two (2) are appointed by Dehcho First 18 Nations, and two (2) are appointed by the community of 19 Nahanni Butte. 20 So we endeavour to meet upwards of seven (7) to -- or several times per year to discuss 21 22 operational issues. We do provide regular updates on 23 these files to committee members at those meetings. 24 They're open to -- to any of the Dehcho membership. 25 They always have been.

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1 So what we could do is commit to -- to 2 let you know when those dates are, and -- I mean, our offices are very close. It's -- it would be very easy 3 to have you there with us. 4 5 Secondarily, we do have a memorandum of understanding with Canadian Zinc which also endeavours 6 7 us to meet and discuss more operational issues surrounding the road. So we do have representation 8 from the consensus team there, as well. And, yeah, 9 those are kind of all avenues to -- to help get 10 information to your members to the community. 11 12 So, yeah, we'll -- we'll try to keep in touch with you on that, for sure. 13 14 CO-FACILITATOR BARB SWEAZEY: Barb, 15 from Stratos. Thanks very much, Jonathan. Okay. So are there other questions now 16 17 related to fish, water, water quality? I'm kind of 18 looking at DFO to see whether you've got questions there that you'd like to bring forward. 19 20 Are you -- I don't want to put you on 21 the spot, but I wondered if you had a question you'd like to raise? 22 23 MS. JULIE MARENTETTE: Hi. Julie Marentette, with Fisheries and Oceans Canada. 24 The 25 first question I'd like to ask has to do with the

habitat assessment information that was provided 1 2 throughout the DAR and DAR Addendum. Now that we have a finalized list of --3 of water crossings that was provided as Table 1-1 in 4 the IR -- Information Request responses, linking the 5 habitat assessment to each crossing, encroachment, or 6 7 realignment is a little difficult because the numbers have shifted. 8 9 Is this something that could be provided in the form of a table kind of linking which 10 habitat assessment goes with which crossing, 11 12 encroachment, or alignment for clarity? 13 MR. DAVID HARPLEY: Dave Harpley. 14 Yes. 15 16 --- UNDERTAKING NO. 3: CanZinc to provide a table 17 linking which habitat 18 assessment goes with which 19 crossing, encroachment, or 20 alignment 21 22 CO-FACILITATOR BARB SWEAZEY: So we'll 23 record that -- Barb -- as -- from Stratos. 24 We'll record that action item as an 25 undertaking. Do you need -- Review Board, I'm looking

at you. Do you need any rearticulation of that 1 2 statement that DFO just made, or are you good? 3 MS. SACHI DE SOUZA: We're good. CO-FACILITATOR BARB SWEAZEY: 4 We're good, okay. Great. Are there -- and thank you, 5 CanZinc. Are there any other questions related to 6 7 fish, water, water quality, at this time? It's -yeah, from GNW -- oh, was someone on the phone? 8 9 Okay. We'll go to GNWT first, and then 10 if someone on the phone has a question, I'll go to you next. Thanks. 11 12 MR. RICK WALBOURNE: Thank you. Rick Walbourne, ENR. Hi, David. I just had a quick 13 question. I know there was a couple of IRs regarding 14 15 borrow pits and water management. 16 Can you outline what the proposed water 17 monitoring or sampling right now from Canadian Zinc at those borrow pits -- what do you anticipate in terms 18 of water quality monitoring for that -- that pit 19 20 water? Thanks. 21 MR. DAVID HARPLEY: It's Dave Harpley. 22 Of course with any monitoring, it's highly site-23 specific, so one (1) -- one (1) rule isn't going to fit all borrow sources. And I think it -- it really 24 25 depends where the borrow source is in relation to

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water crosses. Obviously, the more proximity you are 1 2 -- the more proximal you are to a water cross, the more careful you're going to be with water management. 3 I think for sure we're going to be 4 monitoring any discharge at -- at least for TSS, but 5 the -- I mean, the general approach, I basically would 6 7 think that we would just try and avoid discharge altogether if possible. So beyond that, it's -- it's 8 -- you know, each -- think we've -- we've said in our 9 submissions, each borrow pit is going to need a 10 specific development plan, and as part of that plan, 11 12 that would be the appropriate time and location to be specific about monitoring requirements. 13 14 CO-FACILITATOR BARB SWEAZEY: Barb, 15 from Stratos. Rick, does that help to answer your question, or do you have a follow-up question, or do 16 17 others have a question related to this topic? 18 Rick, go ahead. 19 MR. RICK WALBOURNE: Rick Walbourne. 20 I've got a couple follow up. So, David, do you anticipate that that would be something further down 21 22 the road as in like a regulatory requirement of the 23 water licence, or where do you feel that borrow pit --24 those specific plans would be -- would be ready? 25 MR. DAVID HARPLEY: It's Dave Harpley.

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My opinion is that the best way to -- to handle this 1 2 is for a permit to have a condition that basically says a borrow pit will only be developed subject to 3 the Proponent providing a suitable development plan, 4 and having it approved beforehand. And -- and that 5 would basically include everything, including 6 7 monitoring. 8 MR. RICK WALBOURNE: Thank you, David. Just one (1) follow-up question regarding borrow pits. 9 I appreciate your response regarding TSS, and that 10 might be the -- the main issue there. 11 12 In response to GNWT-21, there was some discussion regarding potential ARD. Canadian Zinc 13 said that you're assuming or anticipating that pH will 14 15 be neutral to alkaline going to the terrain. 16 Can you -- do you have a report or --17 or any sampling of the aggregate or anything that you 18 could point us to where you made the conclusion regarding potential ARD, I guess, or lack thereof 19 20 regarding the pits? Thank you. 21 MR. DAVID HARPLEY: It's Dave Harpley. 22 We had a number of different crews in the field, 23 including engineering crews, looking at material, taking surface samples, doing -- doing shovel tests, a 24 25 limited amount of augering, so, I mean, there was --

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there was a fair amount of physical examination going 1 2 on. 3 But, of course, you can only examine what you're able to see, and -- and we need to go 4 deeper. So we recognize that as we go deeper, it's 5 possible we -- we could uncover something else. 6 7 But to this point, we've -- we've not uncovered any evidence to suggest that we're going to 8 have an ARD issue. I mean, there's been no heavy 9 staining noted. There has been no indication of 10 pyrite occurrence. You know, none of those kind of 11 12 flags have come up. 13 And that's not going to -- that's not to say that we're not going to stop looking. 14 It's 15 merely an indication of what's out there right now. And, frankly, it's not a surprise, given the -- the 16 17 rock formations and the soil types that we know are out there. 18 19 But again, our approach, to be -- you 20 know, to -- to manage it properly and to make sure we don't stumble on something that we weren't aware of is 21 22 we -- we are going to need to do more detailed 23 investigation before we actually build the road to support the detailed design. And -- and during that 24 25 investigation, we will be drilling and collecting

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samples from deeper and -- and potentially also 1 2 digging some test pits. 3 So we'll be able to sample much more material. At that point, we can -- we obviously have 4 more opportunity to see much more material and for 5

visual examination. But we can also take some representative samples for, you know, acid-base 7 accounting. 8

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9 And then, depending on what those results are, we might feel it's appropriate with 10 guidance from an appropriate consultant to do some 11 12 leachate analysis. So, you know, we'll -- we'll deal with it in an orderly fashion. And if we find 13 something that doesn't seem quite right, we'll either 14 provide an approach that is -- is appropriate for it, 15 or we'll just simply avoid it. We'll go somewhere 16 17 else.

18 We've got plenty of defined borrow sources that we can go to use as backup if we need to. 19 20 CO-FACILITATOR BARB SWEAZEY: Rick, do 21 you have any further questions? 22 MR. RICK WALBOURNE: Rick Walbourne, 23 ENR. No, thank you for that response. That was helpful. That's -- that's all from us for now. 24 25 CO-FACILITATOR BARB SWEAZEY: Okay.

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139 1 (BRIEF PAUSE) 2 3 MR. DAVID LAVERDIERE (BY PHONE): Hi, there. This is David Laverdiere, with Environment 4 Canada. Could I ask a question just in follow-up to 5 6 that? 7 CO-FACILITATOR BARB SWEAZEY: Tt's Barb, from Stratos. We were actually just going to go 8 to Environment Canada Climate Change, so you're right 9 on -- you're right on track. Go ahead. 10 11 MR. DAVID LAVERDIERE (BY PHONE): 12 Okay, great. Thank you. Well, as you know, the -you know, what was stated in the response to some IRs 13 about the potential for acid rock drainage and metal 14 leaching is that -- that the Proponent stated that he 15 indicates that -- that they -- sorry, that they 16 17 indicate that there -- they -- there appears to be an abundance of -- of neutralization capacity from the 18 19 carbonate ter -- terrain. 20 I guess my response to that would be 21 that, although it's likely in -- in those types of --22 of situations the -- of -- of a situation that there's 23 a neutral pH, it does not necessarily mean that there 24 won't -- will not be any metal leaching. 25 So I understand that with the testing

program that's focussed on acid-base testing, would the proponent be open to undertaking, in addition to that, shake flask -- shake flask extraction testing, which is a short-term leach testing, under the guidance of a professional ARDML geochemist, ARDML being short form for acid rock drainage and metal leaching.

8 As well, with -- with that in mind, would there be an openness to undertake the associated 9 kinetic test -- testing on that material, which is a 10 longer -- a -- a longer metal leaching testing 11 12 program, so that -- and -- and could that be done throughout the EA phase so that Environment Canada and 13 Climate Change can understand whether or not there are 14 potential risks to water quality, and whether or not -15 - if there are any risks to water quality, how they 16 17 can compare to the Canadian Water Quality Guidelines 18 for the protection of aquatic life, and whether or not any -- whether or not there might be the requirement 19 20 for any associated mitigation measures? 21 MR. DAVID HARPLEY: It's Dave Harpley. 22 So as -- as far as -- from what I heard, there are two (2) components to that. The first, in terms of 23

25 professional would indicate as far as testing, but --

testing, I -- I don't want to prejudge what a

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but based on my knowledge of past situations such as 1 this, for example, two (2) situations at the mine site 2 where we were asked to investigate an old waste rock 3 dump, and also a natural slope next to the mine. 4 5 The first step is nearly always to collect representative samples, and to do simple ABA 6 tests. And then determine whether it's even worth 7 considering leachate tests as a result of that. 8 In other words, if there's no acid for the 'A' -- if 9 there's no sulphate, then there's no ability to 10 generate any acid in the first place, and therefore 11 12 there's -- there's really no point in doing leaching So I think that same approach is what we would 13 tests. adopt when we get to the detailed investigation phase. 14 15 The second component in terms of kinetic work during the program of the EA, I kind of 16 17 think that's unrealistic and -- and definitely not 18 warranted, because as I -- I may just -- mentioned a minute ago, there is just no evidence out there that 19 20 there's any significant acid generation potential. 21 There's been -- we've -- we've had no 22 indication of occurrence of sulfides or staining or anything of that nature to even suggest that we should 23 24 embark on a significant ABA test program, never mind a 25 kinetic program. And also again, as I just mentioned,

even if on subject -- sub -- subsequent detailed 1 investigation we discovered, you know, in -- in the 2 unlikely event we discover some -- some potential for 3 acid generation, well, we're simply going to avoid 4 that location and use another borrow location that has 5 no such potential. 6 7 We've -- we've identified -- I don't have the numbers in the -- off the top of my head 8 right now, but I think we're intending to use 9 something like fifty (50) or sixty (60) borrow 10 locations, and we've got something like forty (40) or 11 12 fifty (50) possible backup sources. So it's not like we're going to be short on borrow, and -- and if we --13 if we find in any particular location has any kind of 14 a ARD potential, we're just going to avoid it. 15 16 CO-FACILITATOR STEFAN REINECKE: 17 Stefan, from Stratos. 18 Environment Canada, did you have any follow up to CZN's appro -- CanZinc's response on sort 19 20 of initial signs of leaching potential? 21 22 (BRIEF PAUSE) 23 24 CO-FACILITATOR BARB SWEAZEY: Barb, from Stratos. David, do you have any response to 25

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CanZinc's response to your question? We couldn't hear 1 2 you if you were coming on the line. 3 MR. DAVID LAVERDIERE (BY PHONE): Actually, if -- if -- I think Rej was about to speak, 4 if -- sorry, it's -- it's David Laverdiere. I think 5 Rej was about to speak. If Rej could get that in, 6 7 what he was about to say, and then -- and then I'll --I'll speak to it. 8 CO-FACILITATOR BARB SWEAZEY: 9 Thanks. 10 Go ahead, Rej. 11 MR. REJ EJECKAM (BY PHONE): Okay. Ι 12 was just following up on the response given to David. I think metal leaching doesn't only occur when you 13 have acid conditions. Sometimes they occur in neutral 14 conditions as well. So just because there is no 15 potential for acid generation doesn't mean that they 16 17 may not get metal leaching issues, especially when you 18 -- you do some blasting and use it for other 19 conditions. 20 The other point following this is one 21 (1) of your responses to the IR. There was a 22 statement that any borrow with positive identification 23 of -- of potential for ARD with marginal ARD methodology and potential, will that not be used or --24 25 or used, but with some mitigations?

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1 I think, from the response you're 2 giving, that you have a lot of borrow locations. I would rather have anything that's marginal or -- or, 3 in fact, it not used at all because the mitigation 4 that would be applied after it has been used to build 5 the road becomes a bit more difficult to ensure that 6 7 it doesn't create issues with water quality. 8 So would -- would you be able to make 9 that commitment? CO-FACILITATOR BARB SWEAZEY: 10 It's Barb, from Stratos. Rej, would you be able to just 11 12 rephrase that request for a commitment for us? 13 MR. REJ Ejeckam (by phone): Well, a commitment if they can -- if they will avoid using any 14 borrow material that has even marginal potential to 15 generate acid or metal leaching. 16 17 MR. DAVID HARPLEY: It's Dave Harpley. I -- I think what we said in our document that I would 18 prefer to stick to is that, if we encountered material 19 20 that was marginal in terms of ARD, we would either 21 just avoid it or, if we really wanted to use it, we 22 would come up with a -- a plan that would address the 23 material in an appropriate manner. I -- I think that's the best approach, 24 but, you know, 99 percent proba -- probable that we 25

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will just avoid the issue rather than go to the 1 2 trouble of trying to come up with a specific plan to use the material. 3 MR. DAVID LAVERDIERE (BY PHONE): 4 Hi. It's David -- David Laverdiere. I quess I -- the only 5 thing I would just add is just I think there's a bit 6 7 of a difference of opinion here, I -- you know, between myself and the Proponent. 8 9 I think it -- you know, it -- to -- you know, it's quite clear that there's going to be acid-10 base -- acid-base testing on material. I don't think 11 12 the addition of short-term leach testing would be that 13 onerous or very costly. 14 I think it would give us a lot more 15 certainty about the potential for water quality issues at -- at -- of the -- of the material because, as Rej 16 17 said, you know, the -- the leaching of -- a metal 18 leaching can occur also at -- at -- you know, in the absence of -- of acid rock drainage. So this would be 19 20 my -- my view of -- of that. 21 MS. SACHI DE SOUZA: Sachi De Souza, 22 with the Review Board. Dave, you just recognized that 23 there's a difference of opinion there. And one (1) of the things I think would -- would help in explaining 24 25 this a little bit further is earlier you're -- you

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mentioned that you're concerned about the potential 1 risks to water quality and how that water qualities 2 could affect aquatic life. 3 Could you describe specifically what 4 impacts to water quality and to the environment you're 5 concerned about? And if there are specific borrow 6 7 locations that you're more concerned about, given their proximity to a water course or a water body? 8 MR. DAVID HARPLEY: It's Dave Harpley. 9 I -- I kind of think we've got two (2) different 10 issues, and -- oh, you were asking him. 11 12 MS. SACHI DE SOUZA: Sorry. Sachi De Souza. I was referring to the Environment and Climate 13 14 Cha -- Canada Change, Dave. 15 MR. REJ EJECKAM (BY PHONE): Well, if 16 you can speak up so that we can hear. 17 CO-FACILITATOR BARB SWEAZEY: Sorry. 18 Do you need the --19 MR. DAVID LAVERDIERE (BY PHONE): Yeah. I -- it's -- hi. It's David, with Environment 20 21 Canada. 22 CO-FACILITATOR BARB SWEAZEY: It --23 it's --24 MR. DAVID LAVERDIERE (BY PHONE): It – 25 - was -- was it me you wanted to speak to -- me to

147 answer? 1 2 CO-FACILITATOR BARB SWEAZEY: Yes. This is Barb. 3 MR. DAVID LAVERDIERE (BY PHONE): Yes. 4 5 Hi. 6 CO-FACILITATOR BARB SWEAZEY: I'm 7 reaching out to you, Dave, and Environment Canada Climate Change. Did you hear Sachi's question --8 Sachi's question from the Review Board, or do you need 9 her to restate it? Because she would like your 10 opinion on a couple of things. 11 12 MR. DAVID LAVERDIERE (BY PHONE): Yeah. If -- if, you know, if she could be so kind to 13 restate it, just to make sure I understand clearly. 14 15 CO-FACILITATOR BARB SWEAZEY: Will do. 16 MS. SACHI DE SOUZA: This is Sachi De 17 Souza, with the Board. Okay, sorry. Got it. On it. 18 Dave, the specific question was what the specific impacts to the environment that you're concerned about 19 20 with respect to water quality and the potential effects to aquatic species, and if there are specific 21 22 borrow locations that you are more concerned about, 23 given their proximity to a water course or water body. 24 MR. DAVID LAVERDIERE (BY PHONE): Hi. It's David, Environment Canada. It's -- it's not 25

possible to answer all those questions be -- with the 1 2 absence of any short-term leach testing of -- of the borrow source material because, you know, that would 3 need to be done at -- at all of the potential borrow 4 source locations in order to provide what -- what 5 risks there might be to water quality. 6 7 If -- if any of those borrow source locations are used for the construction of the road, 8 and those -- and -- and those portions of the road 9 that are in proximity to wat -- natural water courses, 10 it would be -- the -- the potential risks to -- to 11 12 fish and fish habitat would be based on the concentrations leaching off of -- of that road if it -13 - if it does occur at all. So it just -- I'm -- I'm -14 - I would -- it's -- it's simply not possible to 15 answer that question, if you understand my response. 16 17 MS. SACHI DE SOUZA: Sachi De Souza. 18 Thank you for that. And I -- I do understand the limitations of the -- of what you're able to answer 19 there. So thank you. 20 21 22 (BRIEF PAUSE) 23 24 CO-FACILITATOR BARB SWEAZEY: Okav. Thank you. Are there additional questions 25 Good.

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related to -- yes, we have questions. Okay. 1 So I'm 2 going to go to Parks Canada next. Thanks. 3 MR. GARRY SCRIMGEOUR: Garry Scrimgeour, Parks Canada. 4 We'd just like to reiterate that we 5 6 agree with Environment Canada Climate Change that 7 additional details on the testing of ARD and the potential incorporation of strata with marginal ARD 8 would warrant a more detailed description of how it 9 would be used and how potential risks would be 10 mitigated. 11 MS. SACHI DE SOUZA: 12 It's Sachi De Souza, with the Board. And thank you for that. 13 14 And I guess it was -- it -- it was good 15 for me personally to understand that both Parks Canada and ECCC are concerned about the -- the potential for 16 17 MLARD from the borrow sources, but also as the fill source for the road, and the fact that if there -- if 18 that rock is there and it becomes the road bed, then 19 20 you are, in some locations along this road, 21 immediately next to a water course. So that's 22 understood and we appreciate that. Thank you. 23 MR. DAVID HARPLEY: So it's Dave 24 Harpley. Just to be clear on what I just said a few 25 minutes ago. I don't think we have a problem

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addressing material that we intend to either borrow or fill or whatever. We certainly don't intend to place material that could result in a metal leaching issue, because we're just going to create more of a problem for ourselves. So we've got no problem to committing to the appropriate level of investigation for that material.

8 The -- the only problem I have, and -and would not be prepared to agree to at this point is 9 the notion that collecting samples and doing leaching 10 tests now is necessary, given that, as I just stated, 11 12 there's no evidence that there's an issue out there. Even if we did go and take samples and do the testing 13 right now, we just simply wouldn't use the material. 14 15 So then what is the point of doing the testing now? And -- and the reason I would not want 16 17 to do it now is we are hamstrung by the representivity 18 of the samples we are able to collect, because you need to go deeper. And we're only going to do that 19 20 when we can get rigs out there during detail design to 21 actually drill deeper and get representative samples. 22 CO-FACILITATOR STEFAN REINECKE: 23 Stefan Reinecke, with Stratos. Could CanZinc put in its own words that commitment to testing at the time 24 25 that you think is most appropriate, so that we can get

1 that on the record?

2 MR. DAVID HARPLEY: Dave Harpley. I -- I think that's already in our submissions 3 previously. We've said that during detailed design 4 we will take representative samples of all borrow 5 sites that we intend to use and -- and screen them for 6 7 geochemistry and -- and under the guidance of a professional geoscientist. 8 9 And I think what that means is that we're going to do a -- a reasonable number of samples 10 for ABA (phonetic) and if we have any indication of 11 12 acid generating material, I'm not talking about neutralization potential or -- or metal leaching in 13 neutral conditions. 14 15 If there's -- if there's no ability for acid to be produced then there can't be any acid 16 17 generation issue. So -- and if there's any -- I mean, 18 the consultant may come back and say, Okay, well, we're going to do ten (10) samples per borrow pit of 19 20 this size and -- and 20 percent of those samples we're going to a leach test, then that's what we'll do. 21 22 But as I said, I don't want to pre-23 judge what the consultant may indicate. 24 MS. SACHI DE SOUZA: It's Sachi De 25 Souza, with the Board. I'd -- I'd like to wrap up

152 this discussion. And the last thing I would like to 1 2 do is CanZinc to commit to doing the geochemical testing in their response to the Information Request. 3 Parks Canada and Environment and 4 Climate Change Canada, you've both commented on the --5 the need for more information prior to using the 6 7 material from potential borrow sources. In the commitment that CanZinc made in their IR responses, is 8 there additional detail that you think is necessary 9 for testing? 10 11 What specific would you like to see 12 done during the detailed design phase to ensure that metal leaching and acid rock drainage potential has 13 been accounted for fairly? 14 15 CO-FACILITATOR BARB SWEAZEY: Barb, here from Stratos. 16 17 Dave from Environment Canada Climate 18 Change, do you have a response to Sasha's (sic) --Sachi's request? 19 20 MR. DAVID LAVERDIERE (BY PHONE): Yes. It's David -- David Laverdiere, Environment 21 Hi. 22 Canada. The -- the -- what the proponent has outlined 23 in -- in the detailed design phase is currently strictly limited to acid base testing. 24 25 You know, Environment Canada and

Climate Change would prefer to see that also include 1 short-term leach testing simply because when there's a 2 problem of -- of acid -- if there is not a problem of 3 acid generation it does not preclude that there's a --4 there's potentially a problem with metal leaching. 5 6 And a short-term leach test is not 7 expensive and it's very quick. And I think that information in addition to the acid based test --8 testing would provide better results to the -- to the 9 geochemist consultant that's working for the 10 11 proponent. 12 CO-FACILITATOR BARB SWEAZEY: Barb, 13 from Stratos. Parks Canada, did you have an answer or response to Sachi's question that's different or in 14 confirmation with what Dave from Environment Canada 15 Climate Change just suggested? 16 17 MR. GARRY SCRIMGEOUR: Garry 18 Scrimgeour, Parks Canada. Our -- our geological structural expert is currently not online. We'd like 19 20 the opportunity to discuss with them tomorrow and 21 perhaps get comments on the second part back to you. 22 In terms of the first part we're always 23 open and willing to review a proposal from the proponent in terms of specific sampling designed, 24 number of bored holes, those types of things. We're -25

1 - we're always open to reviewing those.

But, you know, it -- it as equally 2 difficult to ask us to -- to present a design as it is 3 to ask Canadian Zinc to -- to present a design, 4 because they're so context dependant. But we're more 5 than happy to review additional information and 6 7 provide comments back to you on that. 8 MR. DAVID HARPLEY: It's Dave Harpley. I -- I'll take a leap of faith here and -- and let's 9 just make the assumption that our geochemist is going 10 to say 'X' number of samples will need to be done for 11 12 ABA and a certain percentage of those will need to --

13 to have leach tests completed on them based on the 14 results.

15 So Dave on the phone is right that they 16 are not that expensive and I'm almost certain that 17 would be part of the program, so let's just assume 18 that they will be.

19 CO-FACILITATOR BARB SWEAZEY: Great.
20 Thank you very much, Dave, CanZinc, and for
21 Environment Canada Climate Change and Parks Canada.
22 So it's -- it's five (5) to 3:00. I'm going to
23 suggest we take a fifteen (15) minute break at this
24 point.
25 And when we come back I suspect there

may still be some questions related to fish, water, 1 2 water quality if you review some of those bullets, as well as vegetation. 3 So we'll use the remaining time that we 4 have this afternoon to cover additional questions. 5 So if I could kindly ask you to be ready to go at ten 6 7 (10) after 3:00, that would be great. Thank you. 8 --- Upon recessing at 12:54 p.m. 9 --- Upon resuming at 3:16 p.m. 10 11 12 CO-FACILITATOR BARB SWEAZEY: Okay, welcome back. It's Barb, Stratos. Folks on the 13 phone, hopefully you've been able to reconnect with us 14 15 as we go through the last segment of our agenda today. 16 Over the break, there was a little bit 17 of work done on crafting some suggested wording for a 18 commitment related to the last topic that we were discussing before we broke. And perhaps I can get --19 20 Stefan, would you mind reading that out for folks, 21 please? 22 CO-FACILITATOR STEFAN REINECKE: Sure. 23 So commitment number 3 related to water quality and borrow sources. In addition to the acid-based testing 24 25 discussed in response to PCA IR-12, CanZinc will

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conduct -- conduct metal leaching -- metal leach
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 2 testing during the detailed design phase on
   representative samples based on the guidance of a
 3
 4 professional MLARD geochemist.
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   --- COMMITMENT NUMBER 3: CanZinc will conduct
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                                 metal leach testing
                                 during the detailed
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                                 design phase on
10
                                 representative samples
11
                                 based on the guidance of
12
                                 a professional MLARD
13
                                 geochemist
14
15
                  CO-FACILITATOR BARB SWEAZEY: So I'm
   looking to CanZinc. I'm getting -- go ahead.
16
17
                  MR. DAVID HARPLEY: Dave Harpley.
18
   That's fine.
19
                  CO-FACILITATOR BARB SWEAZEY:
                                                 Thank
20
  you. Parks Canada?
21
                  MR. GARRY SCRIMGEOUR: Garry
22
   Scrimgeour. That would be wonderful.
23
                  CO-FACILITATOR BARB SWEAZEY: Great.
24
   Thank you. And Dave, from Environment Canada Climate
25 Change?
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MR. DAVID LAVERDIERE (BY PHONE): 1 Yes. 2 Thank you. I -- I recognize and appreciate the commitment on behar -- on behalf of the proponent. 3 CO-FACILITATOR BARB SWEAZEY: Thank 4 you very much. So I'm opening up the floor again to 5 see if there are additional questions related to our 6 7 topic right now related to fish, water, water quality, and also vegetation. 8 9 So we'll turn to Loretta, from 10 Environment Canada Climate Change, please. 11 MS. LORETTA RANSOM: Thank you. It's 12 Loretta Ransom, Environment and Climate Change Canada. Rick had brought up, well, from the 13 GNWT erosion and sediment control management and 14 planning. And that is also something else that 15 Environment and Climate Change Canada had looked at 16 17 and asked Information Requests on. And so while we do have David on the 18 phone, I wanted to give him the opportunity to also 19 20 provide additional input and any thoughts, comments, 21 questions. 22 CO-FACILITATOR BARB SWEAZEY: Yeah. 23 Barb, from Stratos. 24 Dave, from Environment Canada Climate 25 Change, do you have anything else you'd like to add on

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1 erosion and sediment control?

2 MR. DAVID LAVERDIERE (BY PHONE): Hi. It's David Laverdiere, Environment Canada and Climate 3 Change. Yes, I do. In the sediment -- sorry, in the 4 -- the sediment and erosion control plan that is 5 provided in Appendix A of -- of one (1) of the 6 7 documents there's something that has been defined as a special erosion protection area, and that is an area 8 characterized by poor soil types and stable areas for 9 drainage, standing water and/or drainage flowing 10 directly into fish bearing streams. 11 12 Well, with the case of these special erosion protection areas, the proponent has said that 13 it could also include wetland complexes and bridge and 14 culvert crossings of fish bearing channels. 15 16 I quess my question would be: When the 17 Proponent uses the qualifier 'could', it's a vague qualifier. And would the Proponent be able to use a 18 more specific qualifier such as will or shall? 19 20 Because in the -- in the case of a -- a 21 drainage flowing directly into a fish bearing stream, 22 into a fish bearing channel, Environment Canada could 23 clearly have concern with respect to water quality and the potential impacts of fish and fish habitat. 24 25 MR. DAVID HARPLEY: It's Dave Harpley.

The sediment and erosion control plan was drafted by 1 AllNorth Consultants. They're currently not in the --2 the room at the minute. But I think really what they 3 were trying to get at here is a more heightened 4 awareness of the potential for impact in certain 5 locations such as locations approximable to fish 6 7 bearing streams. So I -- I mean, it -- it kind of 8 suggests then, Well, then what -- what are you doing 9 elsewhere? And -- and I don't think they're intending 10 to imply that you would not have the kind of similar 11 12 attitude anywhere else on the road. 13 It's just literally heightened awareness in more sensitive locations. I mean, it is 14 a draft. It's -- it's a -- an initial management 15 plan. It's certainly going to go through additional 16 17 review by various agencies before it comes to the 18 final version, so we -- you know, we can -- we can certainly work on it and improve on it as we go 19 forward. 20 21 CO-FACILITATOR BARB SWEAZEY: Barb, 22 from Stratos. Dave, do you have any followup 23 questions for CanZinc on this topic? 24 MR. DAVID LAVERDIERE (BY PHONE): You 25 know, I think would be a great -- Hi. Sorry. David

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Laverdiere, Environment Canada. I think that would be 1 2 great. I guess I would just -- if somebody could help me understand when the -- the opportunity to -- to 3 take a -- a draft -- a draft document that -- that 4 shows quite a bit of extra potential to prot -- to 5 protect water quality. 6 7 And might I add, when -- when would that opportunity be for -- for a draft document to 8 move from -- from the draft stage to a -- a finalized 9 stage where, you know, where there's quite a bit of 10 wording an qualifiers that are a little vague could be 11 12 -- could be changed or append the language? 13 CO-FACILITATOR BARB SWEAZEY: Barb, 14 from Stratos. Do you understand the question or do 15 you need more clarity? 16 MR. DAVID HARPLEY: It's Dave Harpley. 17 I -- I'm not -- was there a specific question there? CO-FACILITATOR BARB SWEAZEY: 18 Barb, from Stratos. I think that what he was asking, 19 20 correct me if I'm wrong, Dave, is you would just -- he 21 would like some clarity on at what point in the 22 process timeline would be appropriate for him to give 23 the specific comments about the -- the changes he's looking for in terms of some of the verbs. 24 25 Correct me if I'm wrong, Dave, or let

1 me know if this is the right question.

2 MR. DAVID LAVERDIERE (BY PHONE): Yeah, sorry. That's -- yes, that's exactly what I'm 3 asking. At what point in the process would, you know, 4 would -- would there be an opportunity to do that. 5 6 MR. DAVID HARPLEY: Okay. It's Dave 7 Harpley, again. Again, just my opinion, but personally, I think management plans are appropriate 8 as a condition of a permit so that the right kind of 9 plan is in place before anything actually happens on 10 the ground. 11 12 Hopefully we've done enough to demonstrate at this point that we're aware of the need 13 to have specific measures to control erosion and 14 sediment. Yes, more work needs to be done on refining 15 those measures, but I think the time for that is -- is 16 17 in -- you know, once the permits have been issued and 18 -- and before work actually occurs. 19 MS. SACHI DE SOUZA: It's Sachi De 20 Souza, with the Review Board. With regards to this conversation about sediment and erosion control 21 22 measures that are outlined in the plan, plans are --23 are generally final -- finalized in the permitting 24 phase, not in the environmental -- during the environmental assessment. 25

1 What we are concerned about in the 2 environmental assessment is if there are specific mitigations that are necessary to prevent a 3 significant impact to water quality. And, Dave, from 4 Environment and Climate Change Canada, if there are 5 6 specific questions you have or you think certain 7 mitigations are necessary to prevent a significant adverse impact to water quality, are there specific 8 locations that you're more concerned about? 9 It would be good for us to understand 10 that a little bit better right now. If there are 11 12 specific locations and specific mitigations that you're looking for. 13 14 MR. DAVID LAVERDIERE (BY PHONE): Hi. It's David Laverdiere, Environment Canada. Yes, I --15 I had -- do have a number of specific mitigations I 16 17 think I would like to see that would be ideal. One (1) example of that is as it relates to the -- the 18 work for the construction of a road within 100 metres 19 of the fish bearing channel, and bridge and culvert 20 21 crossings of fish bearing channel. 22 I would like the wording to be changed 23 from "could" to "will" in -- in the sense of designating that area as a special erosion pro --24 25 protection area because with the designation of that

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area as a special erosion protection area, the 1 Proponent has indicated that there would be insulation 2 of sediment run off and erosion control measures. 3 And I would -- I think I would like to 4 have those measures be implemented just prior to the 5 construction -- at the beginning of the construction 6 7 of those works, not at the mid point or -- or too late after the construction has -- has begun. That is one 8 (1) example. 9 10 MS. SACHI DE SOUZA: Okay. It's Sachi De Souza, with the Board. So if I understand 11 12 correctly, the request is to see if Canadian Zinc will 13 commit to installing or using erosion control measures when -- within 100 metres of a fish bearing channel. 14 15 So Canadian Zinc -- or Environment Canada/Climate Change Canada, if you can confirm that? 16 17 And then Canadian Zinc, will you commit to that? 18 MR. DAVID LAVERDIERE (BY PHONE): Yes. 19 This is David. That is -- that's what I'm asking for. 20 MR. DAVID HARPLEY: It's Dave Harpley. If that is what the -- is designed in the commitment, 21 22 then I don't think I have a problem with it because we 23 -- we're going to have sediment and erosion control 24 measures proximal to water cause in any case. 25 But I thought your issue was more to do

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with a designation of -- what was the term, sensitive 1 2 or special -- special -- what was it? 3 (BRIEF PAUSE) 4 5 6 MR. DAVID HARPLEY: Special erosion 7 protection areas. I think that's what you were looking for. You were looking for a 'will' instead of 8 a 'could.' And I think we probably put a 'could' 9 because, you know, there's - - there's a variety of 10 different situations along the road, and -- and in one 11 12 location it may be appropriate to have, you know, the heightened approach and in -- and in others it may not 13 14 be necessary. For example, you know, I know you --15 you probably suffer from the difficulty of not really 16 17 knowing the terrain too well but there's quite a few kilometre sections of the road that parallels Sundog 18 Creek, and Sundog Creek and the stretch I'm thinking 19 20 of is a pretty broad flood plain of a number of braided channels, which for the most part of the year 21 22 are bone dry. 23 So, you know, you have a situation where you -- you're building a road next to a flood 24 25 plain and there's absolutely no water, so why would

you go to special protection measures when there's 1 just nothing there. So that's why we have the 2 'could', not the 'will,' and -- and I would want to 3 retain the flexibility to adopt what's appropriate for 4 the location at the time of construction. 5 6 CO-FACILITATOR BARB SWEAZEY: Do you 7 have something? 8 MR. GARRY SCRIMGEOUR: Garry Scrimgeour, with Parks Canada. The language that 9 David's used is -- is actually guite amenable to how 10 we would describe it when there's a prescription 11 12 specific approach or standard that would be applied based on risk. So, you know, a suggestion might be 13 'where required' those additional measures would be 14 applied. That language would be good for us. 15 16 I think in terms of developing a plan 17 or -- or assisting Canadian Zinc to -- to create the plan that we would review, I would like another 18 discussion on the variables that were measured. 19 David 20 just mentioned that he would be measuring total suspended solids. I -- clearly that's one (1) of the 21 22 anchor variables to be measured, but I think in some 23 construction design situations where there is disturbance of organic soils that we would like 24 25 Canadian Zinc to consider a commitment to measure just

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1 a few other variables.

2 These would include dissolved oxygen because organic materials would be potentially 3 transported into the receiving environment. Also pH, 4 and perhaps a consideration of measuring water 5 6 turbidity, which can be measured very, very quickly 7 and on-site, an instantaneous measure. So we'd like that consideration. And even the -- an outline in 8 terms of the number of sites perhaps upstream of where 9 a bridge approach or an abutment was -- was put in an 10 upstream site, perhaps keeping with EEM guidelines, a 11 12 near field site, and a far field site.

13 And, you know, to follow a -- a colleague's comment on sort of prescriptions and an 14 adaptive approach, if monitoring of dissolved oxygen 15 and pH shows no real decline downstream, we'd be more 16 17 than happy to entertain a constraining of the sampling if it -- so we're going to ask that Canadian Zinc 18 consider additional variables, but the data that comes 19 20 back instantaneously measured can be used to decide how the duration at those variables would be measured, 21 22 and the sites that would be measured. So we're asking 23 for flexibility, just good scientific interpretation that would guide the specifics of -- of the -- what 24 25 this plan could look like.

MS. SACHI DE SOUZA: Sachi De Souza, 1 2 with the Board. Before we move on to this discussion of instantaneous measurements of -- of parameters such 3 as dissolved oxygen, pH turbidity, and upstream and 4 near field and downstream sites, I just want to just 5 backtrack one (1) second here to the -- the request 6 7 from -- from ECCC about considering erosion control measures within a hundred metres. It started off with 8 -- with Canadian Zinc saying, Yes, we -- we commit to 9 doing that, but then sort of going back a little bit 10 by saying, It will depend on a certain conditions, and 11 12 the time of year. 13 I can appreciate during certain times of year creeks are dry and we might need -- not need 14 to do certain things. You might not need to do 15 certain things. So before I ask any questions I 16 17 wanted to just first see if Dave on the phone has something to add there, and if you're satisfied with 18 the response from Canadian Zinc. 19 20 MR. DAVID LAVERDIERE (BY PHONE): It's David. Thank you. David, from ECCC. 21 22 Yes, you know, I -- I certainly agree 23 with the Proponent and his good sense, and -- and that, you know, implementing extensive sediment and 24 25 erosion control in the areas adjacent to a dry fish

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bed would not make sense. I think it can -- I think 1 2 our concerns can -- can be easily addressed if -- if there are slight changes to language that says if 3 there's drainage into a fish bearing channel under, 4 you know, that is not dry where there is water present 5 in that channel. And I think if the erosion -- think 6 -- I think in -- in that situation the -- the 7 construction and -- and implementation of sediment and 8 erosion control measures make sense. 9 So if -- if -- would that be something 10 that we would be considered reasonable to Canadian 11 12 Zinc? 13 MR. DAVID HARPLEY: Dave Harpley, yes. 14 MS. SACHI DE SOUZA: Okay. So to confirm the wording, Canadian Zinc commits to 15 implementing erosion and cont -- sediment control 16 17 measures when within a hundred metres of a fish 18 bearing channel if there is water present or water 19 draining into those fish bearing creeks at that time. 20 21 --- COMMITMENT NO. 4: Canadian Zinc commits to 22 implementing erosion and 23 sediment control 24 measures when within a 25 hundred metres of a fish

169 1 bearing channel if there 2 is water present or 3 water draining into those fish bearing 4 5 creeks at that time 6 7 MR. DAVID LAVERDIERE (BY PHONE): Yes -- it's David. Yes, that's correct. And the only 8 other thing that -- that would concern me is, you 9 know, if the -- if the construction of a certain 10 segment of roadway would be undertaken for a certain 11 12 amount of time from which, you know, the -- the dry 13 fish chan -- the -- the dry fish channel could go from being dry to being a flowing fish channel during like 14 15 a flash flood, for example. 16 That could bring drainage in that fish-17 bearing channel for -- for an expended -- for an -for an extended period of time. Since the fish are 18 making use of that as -- as part of fish habitat, then 19 20 there's -- there's the risk that we're overlooking 21 that potential risk. 22 So I don't know how -- you know, I 23 don't -- maybe I'm -- I could ask what the Proponent 24 feels would be appropriate in that situation if there 25 can be some -- some contingency measures in place

where -- or perhaps there can be a fairly quick 1 mobilization of -- of these measures to protect from 2 excessive sediment and erosion. 3 MR. DAVID HARPLEY: Dave Harpley. I -4 - I know what you're getting at, and I don't think we 5 have a problem with that. We -- we have to be 6 7 prepared for what might occur, and we know it's an area where things can change rather quickly. 8 CO-FACILITATOR BARB SWEAZEY: 9 Barb, 10 from Stratos. So perhaps we can just build that contingent -- contingency part into the -- into the 11 12 commitment statement. 13 Yeah, go ahead. 14 CO-FACILITATOR STEFAN REINECKE: 15 Stefan, from Stratos. I'll -- I'll just read what we have so far, and it may not be very elegant, but 16 17 hopefully it -- it meets the requirements of the 18 parties here. 19 CanZinc commits to implementing erosion control for construction activities within 100 metres 20 21 of a fish-bearing channel where water is present or 22 could be present within a short period of time. MR. DAVID HARPLEY: It's Dave Harpley. 23 24 I think I would probably work on the -- the ending of 25 that because that would pretty much cover everything

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1 the -- as written.

2 I think we want to craft something at the end that's more specific to having specific plans 3 for rapid response in the event of a substantial 4 change in conditions, something like that. 5 6 CO-FACILITATOR BARB SWEAZEY: Barb, 7 from Stratos. Parks Canada, can I just go back to you just to confirm? You had also suggested some wording 8 along the lines of, you know, "where required," which 9 I think we're being much more specific in this 10 11 commitment. 12 So are you okay with that component of the discussion going forward? 13 14 MR. GARRY SCRIMGEOUR: Garry 15 Scrimgeour, Parks Canada. Yes. CO-FACILITATOR BARB SWEAZEY: Okay. 16 17 Great. So I think we can wrap this part up, but I would like to go to the -- to the other one about the 18 plan, the -- that you had talked about, the additional 19 20 types of testing that might be required. 21 And I'm going into technical territory 22 that I don't probably belong where the TSS, dissolved 23 oxygen, pH, that one, right? Is that the next one on the -- on the list of things to talk about? Okay. 24 25 So do you need to ask a question, or do

1 you have something written?

2 CO-FACILITATOR STEFAN REINECKE: No, we don't have enough written. Stefan, from Stratos. 3 If -- if you could provide sort of a headline 4 statement on -- on what you're looking for, if that's 5 possible, so that we can craft that into either an 6 7 undertaking or a commitment statement. And I'm not sure if CanZinc had a 8 9 chance to respond on that one yet. Maybe I should wait for that first. 10 11 MR. DAVID HARPLEY: Dave Harpley. 12 Yeah, thanks. I would like to respond. 13 I mean, we're -- we're flexible. We 14 want to do whatever's the right thing, and, you know, if -- if we're talking -- even if we're talking about 15 multiple sites, you know, pH connectivity, turbidity, 16 17 relatively simple, quick tests to do, got no problem with that at all. 18 19 I'm kind of reluctant with DO. I know 20 it's an important parameter for fish, but I just know 21 from experience that measuring DO can either be time 22 consuming or very finicky in terms of a -- an 23 appropriate machine. 24 I mean, I think we -- we should 25 probably do some DO measurements, but I would just not

1 want to commit to doing, you know, an extensive 2 program that just becomes cumbersome and it doesn't --3 just really doesn't generate for us any useful 4 information.

5 MR. GARRY SCRIMGEOUR: Garry 6 Scrimgeour, Parks Canada. I fully agree and 7 appreciate the comments from Dave. DO -- measuring dissolved oxygen can be somewhat finicky. And I'm 8 just looking at a -- a brochure for a dissolved oxy --9 a portable dissolved oxygen meter by Heck (phonetic). 10 I'd be more than happy to pay this -- to provide this 11 12 to David. It's a simple what I found to be a very robust meter that will provide instantaneous measure. 13 14 Additionally, you know, just to 15 reiterate the adaptive management approach, the adaptiveness of the monitoring program. If -- if 16 17 Canadian Zinc commits to measuring a broader suite of variables, we would let the data that are collected 18 influence the frequency of sampling, the special 19 20 extent of sampling. 21 So we're -- we're inherently saying

21 So we re -- we re inherently saying 22 there needs to be flexibility, and -- and that's what 23 -- that's what we're asking for. And specifically, 24 just to cross-reference for your purposes, this 25 addresses Parks Canada IR-29.

174 1 2 (BRIEF PAUSE) 3 MS. SACHI DE SOUZA: Sachi De Souza, 4 with the Board. Maybe what we'll do is just grab some 5 6 of that -- the detailed wording on what specific 7 parameters you mentioned and CanZinc committed to rather than restating it right now. And then we'll 8 report it back tomorrow. 9 10 CO-FACILITATOR BARB SWEAZEY: It's Barb here. And then, at that point, maybe we can --11 12 once that's finessed, we can read it back in in front 13 of the group just to test to make sure we all are on the same page. Okay. Great. Good. Chuck -- Rick, 14 15 you're up. 16 MR. RICK WALBOURNE: Rick Walbourne, 17 ENR. I had a question for maybe Environment Canada or Canadian Zinc or a combination thereof regarding the 18 19 monitoring. 20 Now, just for example, I was looking at the Tuk/Inuvik Highway. And for that one, during 21 22 crossings they took TSS and total petroleum 23 hydrocarbons daily, but things like DO and some other 24 were done on a monthly basis during open water. 25 So I was wondering if Environment

Canada had any thoughts about frequencies regarding 1 some of those parameters they're requesting or if that 2 could be included in the recommendation, and maybe 3 also from -- from David, with Canadian Zinc, if he had 4 any thoughts on frequencies for some of those 5 different parameters that they've been discussing. 6 7 Thank you. 8 CO-FACILITATOR BARB SWEAZEY: Are there any comments from Environment Canada Climate 9 Change? Or are you -- you're looking over here. 10 11 Do you mean Parks Canada or you 12 actually mean Environment Canada Climate Change? 13 MR. RICK WALBOURNE: Rick, ENR. 14 Apologies. That was for Parks Canada, not Environment 15 Canada. 16 MR. GARRY SCRIMGEOUR: Garrv 17 Scrimgeour, Parks Canada, firmly back on the hook. Ι think -- I think the -- the special extent and timing 18 is going to be dependent on the context of the -- of 19 20 the -- the location, the engineering construction 21 that's being applied. 22 You know, what we would -- we would 23 fall back to what -- what is reasonable given the levels of uncertainty and risk. We're more than happy 24 25 to -- to have discussions with ECC, DFO, Canadian Zinc

on what could that design look like, but at the 1 moment, it's -- it's probably not productive. 2 3 CO-FACILITATOR BARB SWEAZEY: Thank you. David, do you have anything else to add? 4 5 MR. DAVID HARPLEY: It's Dave Harpley. I think that covers it. And I guess the only thing I 6 7 would add is I'm not sure why they were doing petroleum hy -- hydrocarbons in Inuvik. Maybe it's 8 something site specific, but I would -- don't think we 9 would need it in -- in our location. 10 11 MR. RICK WALBOURNE: Rick Walbourne, 12 ENR. My understanding was the hydrocarbons were being done downstream just to make sure there was nothing 13 coming out the equipment during the construction of 14 the crossing; that would be my assumption. 15 16 CO-FACILITATOR BARB SWEAZEY: Great. 17 Thank you. Barb here. Is there any need to share 18 that particular document or study or methodology or is that already -- is that a helpful step or not so much? 19 20 MR. RICK WALBOURNE: Rick Walbourne, 21 We can -- we can put it on the record. I mean, ENR. 22 it's -- it's an example of a recent water licence. 23 And it was, you know, an environmental assessment of another road project, so it could be an example. It's 24 25 obviously a different area.

177 I'm not saying by any means that the 1 roads are the same or need -- you know, some things 2 will be needed here that weren't there and vice versa. 3 But there could be some examples of things that were 4 done there, so I have no problem. 5 6 It's a public document on the land --7 or on the Inuvialuit Water Board registry, so it could be put up if anyone requested it. 8 9 CO-FACILITATOR BARB SWEAZEY: Great. Thank you. We'll put that as an undertaking if that's 10 okay. Thanks very much, GNWT. 11 12 13 --- UNDERTAKING NUMBER 4: ENR TO PROVIDE HECK 14 STUDY 15 16 CO-FACILITATOR BARB SWEAZEY: Are 17 there other questions to raise at this time? 18 MR. DAVID LAVERDIERE (BY PHONE): Hi. It's David Laverdiere, Environment Canada. I actually 19 20 would like to -- the opportunity to weigh in on that. And in the sediment and erosion control plan, the 21 22 draft document, there's a commitment to inspect every 23 seven (7) days following a rain or -- or snow melt 24 event at erosion and sediment control installations. 25 In the document it also says, once

again it's a little vague, turbidity measurements 1 should be taken during inspections. My comment -- our 2 comment is that the Proponent should commit to 3 turbidity measurements during these inspections 4 because, you know, the -- a turbidity measure --5 6 measurement is quite quick to take. It's not onerous. 7 And in addition to that, it is our viewpoint that at 50 percent of the sites where 8 there's active construction that feature sediment and 9 erosion control measures there should be water samples 10 taken for measurements of total suspended solids so 11 12 that those concentrations can be compared to the 13 Canadian Water Quality Guidelines for the Protection of Aquatic Life not on a weekly basis but on a 14 biweekly basis either during snow or -- a storm or 15 snow melt event, or as soon as is practical following 16 17 a storm or snow melt. And I emphasize "as soon as is 18 practical," so that would only coincide with an 19 inspection. 20 We would not -- we would not want there to be any-- you know, we -- we wouldn't want there to 21 22 be, for example, two (2) inspections, you know, within

23 a seven (7) day period. We wouldn't want it to occur 24 during the normal inspection.

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In addition, at the -- the remaining 50

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percent of sites that feature sediment and erosion 1 2 control measures that are undergoing active construction that the Proponent, when they are taking 3 turbidity measurements, that they also take 4 measurements of total suspended solids on a -- on a 5 quarterly basis so that -- so that throughout the 6 entire stretch of road that is under -- being 7 undertaken active construction where there is active 8 sediment and erosion control measures, that we have 9 coverage of 100 percent of those -- of that active 10 11 area. 12 CO-FACILITATOR BARB SWEAZEY: Dave, it's Barb here, from Stratos. I'm just wondering if 13 some of the details that you're speaking about in this 14 15 particular question will be actually captured in the -- the phrasing of the commitment that Parks Canada is 16 17 going to work on that sort of talks about flexibility 18 and different types of tests that need to occur. 19 So I'm wondering if you can hold that 20 thought, and make sure that it would be adequately covered in the phrasing that we're going to come back 21 22 to with the -- with the draft commitment that Parks 23 Canada is suggesting. Is that -- is that fair? Or CanZinc/Parks Canada, would you like to weigh in? I 24 25 might be off on the wrong track here.

MR. DAVID HARPLEY: It's Dave Harpley. 1 No, I don't -- I don't think you're entirely off on 2 the wrong -- wrong track but just -- just some 3 additional comments I might make. 4 I'm getting a little confused myself as 5 to whether we're talking about construction or 6 7 operations. And I'm also bearing in mind what I produced this morning, which indicated that a lot of 8 the construction is actually going to occur in the 9 winter. So I think we have to be careful about what 10 we're writing so that we're -- you know, we're really 11 12 getting at what the needs are rather than just blanket 13 covering everything. 14 CO-FACILITATOR BARB SWEAZEY: Okay. 15 Great. Thank you. So maybe when we have the draft commitment, let's really look at it from that 16 17 perspective, as well. 18 Dave, from Environment Canada --19 MR. DAVID LAVERDIERE (BY PHONE): I --CO-FACILITATOR BARB SWEAZEY: 20 21 Climate Change, are you okay with that approach for 22 the moment? 23 MR. DAVID LAVERDIERE (BY PHONE): Yes, and -- sorry, it's Dave, with Environment Canada. 24 25 And, yes, I -- I'm okay with that approach. And --

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1 and, yes, I -- I failed to mention that, you know -2 or, sorry, I -- I think that the -- that Canadian Zinc
3 makes a lot of sense in bringing up the aspect of
4 winter construction.

5 It would not -- we would not want to 6 see -- Environment Canada would not want to see water 7 samples being taken for total suspended solids during 8 the winter months. It just would not make any sense. 9 CO-FACILITATOR BARB SWEAZEY: Great. 10 Good. Thanks. Loretta, from Environment Canada 11 Climate Change.

MS. LORETTA RANSOM: 12 Thanks. I know we're almost done talking about this subject, but just 13 to make one (1) point, too. Rick brought up the 14 Inuvik-to-Tuk Highway. And while construction would 15 be happening in the winter, one (1) issue is to really 16 17 make sure that you have the erosion and sediment 18 control measures in place prior to freshet because that's one (1) of the key issues. And also that links 19 20 into the frequency of sampling and what parameters and 21 whatnot. So I just wanted to mention that. That that 22 parts of, you know, the issues behind this discussion. 23 CO-FACILITATOR BARB SWEAZEY: Great. 24 Thank you. Are there additional questions on the 25 topic fish, water, water quality, vegetation?

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1 Chuck...?

2 MR. CHUCK HUBERT: Thanks. Chuck Hubert, with the Review Board. So I thought I'd 3 broach a couple of questions here about fish habitat 4 offsetting. So I'll start out to CanZinc. 5 6 How much community engagement has 7 occurred to date regarding fish habitat offsetting plans? 8 9 MR. DAVID HARPLEY: It's Dave Harpley. We've not specifically discovered -- discussed 10 offsetting specific to this project at this point 11 12 because we've yet to define actually habitat loss and habitat gain, and had some input from DFO. And I 13 don't want to prejudge what DFO might determine. 14 15 I mentioned earlier that we had quite a lot of discussion regarding the compensation required 16 17 for the habitat loss that occurred when we repaired the eroded winter road previously. So I expect a 18 similar process would occur at the point we know what 19 20 the offset is, if there is one (1), and then what we 21 can propose to do about it. 22 MR. CHUCK HUBERT: Thanks. So then I 23 guess I'll turn the question to DFO. So the question 24 -- and perhaps to -- to Parks Canada as well, but DFO first. 25

1 How much offsetting information or -or pre-channel and habitat -- fish habitat information 2 is needed during the EA phase in order for DFO to make 3 a finding of significant adverse impacts from the 4 project to fish, fish habitat, and riparian habitat? 5 6 7 (BRIEF PAUSE) 8 9 CO-FACILITATOR BARB SWEAZEY: Do you need the question repeated again? Would that be 10 11 helpful? Okay. 12 MR. CHUCK HUBERT: All right. So it's -- sorry if I was unclear. But the -- the interest of 13 the question is -- Chuck Hubert, with the Review Board 14 -- is to -- is to get an understanding of how much 15 16 information DFO believes is required on the amount of 17 fish habitat to be changed, lost, modified during the EA in order to make its own opinion to the Review 18 19 Board on the significance of adverse impacts to fish and fish habitat. 20 21 Does that make sense? 22 23 (BRIEF PAUSE) 24 25 MS. GEORGINA WILLISTON: Thank you.

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Georgina Williston, with Fisheries and Oceans Canada. 1 So we're still working -- working through the envir --2 the IR phase right now. Julie is working on the 3 project. And we're working on trying to get all those 4 details together. We're not there yet. And that's 5 not unusual. During the environmental assessment 6 7 phase there are a lot of times a lot of iterations that go on in the project. The road has changed 8 alignments a couple of times. And based on input from 9 other reviewers, First Nations, other interested 10 parties, things change. 11

12 So as we go through it we -- as we get more and more information we get better placed to make 13 our regulatory decision on -- on whether or not we 14 15 think that there are any aspects of the project that -- that are going cause serious harm. This could be 16 17 anything from the bridge -- the bridge installations to the culvert installations to the realignment of 18 Sundog Creek, maybe some of the channel stabilization, 19 20 riprap placement that's going to occur.

But -- so we're -- we're still working through that, trying to get all those pieces together. Our hope is, generally, that by the time we get to a final hearing we -- we have a position on that, but we don't have one (1) now. In order to be able to make

that determination we need to know the fish 1 2 communities, the fish habitat that's going to be impacted, the footprint of the area. From our 3 perspective it's -- it's the definition of the 4 Fisheries Act, so whether that area -- area is 5 harmfully altered or destroyed or whether there's any 6 death of fish. 7 8 So we're working our way through that. So at this point in time, we don't have a position, 9 but we hope to, hopefully by the final hearing if 10 everything comes together. That being said, it 11 12 doesn't always come together. Some projects it does, 13 some it doesn't. 14 It -- it'll depend a lot on I guess how -- how final the alignment is and how -- how much --15 how far into I guess detailed design the Proponent 16 17 gets. Sometimes they get a little further into that, sometimes they don't. 18 19 MR. CHUCK HUBERT: Okay. Chuck 20 Hubert, with the Review Board. Thanks very much. Is 21 DFO and -- and committed to working together to 22 discuss these requirements prior to the hearing phase? 23 MS. GEORGINA WILLISTON: DFO, def --Georgina Williston, with Fisheries and Oceans Canada. 24 25 Yeah, I think that's what we're doing through the --

186 the IR phase now and -- and with the additional 1 2 questions we have at these technical meetings to -- to get the information we need to get to that point. So, 3 4 yes, we commit. MR. CHUCK HUBERT: 5 Thanks. Chuck I was hoping for, you know, just more cosy 6 Hubert. 7 meetings between the two (2) of you rather in this big room. 8 CO-FACILITATOR BARB SWEAZEY: 9 Is someone going to name the time and place, Chuck? 10 11 MR. CHUCK HUBERT: Not me, thanks. 12 CO-FACILITATOR BARB SWEAZEY: So I 13 guess -- it's Barb here -- one (1) step beyond the 14 formal IR process you're saying. Could it be -- would it be helpful for and DFO to get together to better 15 understand the information needs? So David...? 16 17 MR. DAVID HARPLEY: It's Dave Harpley. 18 Our aquatic biologist -- I believe John is still on the line -- was in town several weeks ago. So, in 19 20 view of that, we took the opportunity to have him sit 21 down with DFO's representative, Julie, to specifically 22 say, Do you have questions? Any more information we 23 can provide? 24 So the process has already been 25 initiated. We've always -- we've already got cosy, so

to speak. And, you know, DFO can approach us at any 1 2 time, and -- and as much as we can help them come to their determination, that's fine. 3 CO-FACILITATOR BARB SWEAZEY: Good. 4 Chuck, do you have any additional questions that you'd 5 6 like to ask? 7 Are there other questions that folks have on their list that they haven't had a chance to 8 bring forward yet? Parks...? 9 10 MR. GARRY SCRIMGEOUR: Garrv Scrimgeour, with Parks Canada. I have two (2) other 11 12 issues I'd like to draw to your attention for discussion. But before I do so, I'd -- I think 13 discussions of fish loss or destruction or 14 degradation, Parks Canada would certainly appreciate 15 being a part of that cosy discussion. 16 17 CO-FACILITATOR BARB SWEAZEY: So can I 18 just interrupt you there? Is -- do we need to have something formal about that? DFO, CanZinc, and Parks 19 20 Canada okay to have these -- I really don't like using the word "cosy," but that's what we're using. 21 It's Dave Harpley. 22 MR. DAVID HARPLEY: 23 I -- I guess I need to better understand what the regulatory requirement is here. It was my assumption, 24 and it may be incorrect, that this is basically DFO 25

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territory and they're -- they're carrying the ball. 1 2 So, I mean, I -- I'm -- I'm not opposed to another party. It just makes it a little more 3 cumbersome. I just want to get to -- efficiently get 4 to an end result. 5 6 MR. GARRY SCRIMGEOUR: Garry 7 Scrimgeour, Parks Canada. We certainly understand the regulatory framework, and certainly appreciate and 8 thank the guidance that DFO continues to provide. 9 Parks Canada's view is that discussions 10 on losses or a degradation or destruction of fish 11 12 habitat is a shared responsibility. We have a number of IRs that we've provided to the Proponent, and --13 and just -- just to make a -- a more streamlined sort 14 of success discussion, we think those shared 15 discussions between three (3) groups would be helpful. 16 17 MS. SACHI DE SOUZA: Sachi De Souza, 18 with the Board. So as we said earlier, we -- the Board always encourages parties to have conversations 19 offline. And if Parks Canada and DFO both have an 20 21 interest and responsibility for fish within the park, 22 we encourage you to have that conversation with 23 Canadian Zinc to discuss impacts to fish and report back. And if it helps inform your decision about 24 25 potential significant impacts for the EA, we would be

1 very interested in that.

2 CO-FACILITATOR BARB SWEAZEY: Dean, go 3 ahead, please.

MR. DEAN HOLMAN: Yeah, Dean Holman, with Liidlii Kue First Nation. Just continuing on the path of alteration disruption and destruction, I -- I had brought this up a few years back, but there was a report on the effect of -- effectiveness of fish habitat compensation in Canada in achieving no net loss.

11 That was by Quigley and Harper, both 12 from -- well, Fisheries and Oceans. And in that 13 report they -- they did come to a conclusion on 14 approximately -- well, the percentage of results in 15 net loss in habitat productivity, they're quoting here 16 63 percent on that.

And then when it comes to the monitoring I think there was only something like, and this is considering 2006, 2.1 percent of DFO's habitat and management workload was spent conducting followup monitoring, but not on the majority of no net loss sites.

I'm wondering, if I can direct this at DFO, if those numbers have actually climbed, or have they remained the same? The reason I'm -- I'm asking

this is because given, you know, regulatory 1 requirements, if this is part of a regulatory 2 requirement, then to me it seems -- it seems that you 3 would not have a clear picture of the amount of 4 significant loss of fish in the area or not. 5 6 That's just a question there. 7 CO-FACILITATOR BARB SWEAZEY: Barb, from Stratos. DFO, do you have a -- a response to the 8 question? 9 10 Thank you. MS. GEORGINA WILLISTON: Georgina Williston, with Fisheries and Oceans Canada. 11 12 I'm aware of the paper. We were crit -- DFO was criticized for -- for not conducting monitoring and a 13 number of other shortfalls, perhaps, with that 14 15 program. 16 So I've been -- I probably started with 17 the old fish habitat management program in 2006 and as the program has moved on before we switched to the 18 fisheries protection program with the other program, 19 20 we did introduce a monitoring program. 21 We actually brought on Fisheries 22 monitoring technicians and their goal -- their job was 23 to do monitoring. So I think after that report came out and there was other criticisms to the program, 24 25 decided to invest more and to do more monitoring.

1 It -- with this current -- the new 2 program -- with the new Fisheries protection program we also now have annual work plan monitor -- mon --3 annual work plans that layout, you know, projects that 4 -- that are monitored. It's probably not perfect, but 5 we are trying to do more monitoring. 6 And all the different offices all 7 throughout my region, central, and arctic, I can't 8 speak to the other regions, we do -- we do do 9 monitoring. As to the -- the numbers that are 10 monitored, I don't know for sure. I know we do report 11 12 on that. So I might be able to pull some monitoring statistics, but I -- I don't have those with me. 13 14 But I think with every major project 15 that we do review and we do issue either a Fisheries Act authorization or what we call a letter of advice 16 17 when we determine that a Fisheries Act authorization 18 isn't required we do try and do monitoring. It gets a little challenging when sites are isolated and -- and 19 20 gaining access and going at the -- at just the right 21 time so we can see what we need to see, but we do 22 definitely try. 23 And it's no perfect. I know we can't 24 get everywhere, but -- but we are trying to improve on 25 our -- our monitoring statistics for sure.

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192 CO-FACILITATOR STEFAN REINECKE: 1 Thank 2 you. I believe we have a comment from -- from Alan. Do we? 3 MR. ALAN EHRLICH: Yeah. 4 Thanks. 5 Alan EHRLICH. 6 CO-FACILITATOR STEFAN REINECKE: But -7 - but -- and -- and -- but just before -- before we forget, this report, I don't believe, is part of the 8 record. If somebody could commit to adding it to the 9 registry, the report on loss and monitoring. 10 11 MR. DEAN HOLMAN: I can -- I can 12 provide that or DFO could provide that. I just wanted to followup with that and --13 14 MS. SACHI DE SOUZA: Sorry, Dean, can 15 we just stop for one (1) quick second there? So I just want to -- two (2) things here, so DFO, you're 16 17 commit -- you're going to provide the Review Board 18 with this report and also the monitoring results that you just referenced in your response? 19 20 MS. GEORGINA WILLISTON: Yes. 21 Georgina Williston, with Fisheries and Oceans Canada. 22 Yeah, either one (1) of us could provide the report 23 that's referenced, the 2006. As -- as with regards to monitoring statistics that the Fisheries and Oceans 24 25 Canada has, I'd have to see what's been pulled

I know we report on some of them, and I 1 together. don't know what that will look like. But there's 2 something out there that I'll bring in. Thank you. 3 MR. DEAN HOLMAN: Dean Holman, with 4 LKFN again. I'm -- I'm just wondering, if you do have 5 such low number -- if there are such low numbers on 6 7 following up or monitoring of no net loss projects then, you know, considering that in 2006 they're 8 quoting about 64 percent, 63.8 I think, percent of no 9 -- of net losses then that's a majority of projects 10 the -- in -- according to statistics here. 11 What -- what confidence does DFO have 12 in, you know, further no net loss projects if -- if 13 the numbers have not been raised since 2006? 14 15 THE CO-FACILITATOR BARB SWEAZEY: Can -- can I just interrupt for one (1) second? It's Barb 16 17 here. I wonder -- I know, Alan, you had a 18 intervention or a comment, and I wonder if can just turn to you while you're thinking about the response 19 20 here. Perhaps it will influence the -- the direction of the conversation. 21 22 MR. ALAN EHRLICH: Yeah, but I'd love 23 them to be thinking about my -- Alan Ehrlich, with the Review Board. I'd also love them to be thinking about 24 25 my comment while I say it. So, look, we've heard -- I

1 think I heard the Developer, DFO, and Parks Canada say 2 that they will talk about fish habitat compensation 3 and figuring out stuff like that. But what I heard 4 Chuck Hubert say was a temporal element, which was 5 before the Review Board's public hearing. Which means 6 the Review Board does not care about the specific 7 dollar figure of compensation.

8 The Review Board will care very much about your views on whether or not this project is 9 likely to cause a significant adverse impact to fish 10 or fish habitat. And it would be extremely helpful 11 12 for you to have had discussions that help you figure this out before the Board's hearing, so that you can 13 14 share your conclusions in your technical reports. 15 The commitment -- or a part of the commitment that I think may have been lost in this 16 17 last discussion was the part about timing. But the 18 timing is what makes this matter to the environmental assessment, and not to what our -- the regulatory 19 details that come up afterward. So I'd just -- where 20 21 do I go with this? I -- I guess if there is a 22 commitment in the works, can we make that commitment reflect this? And I wanted to articulate it this way, 23

24 so it's quite clear to the parties that are involved.
25 Thank you.

1 CO-FACILITATOR STEFAN REINECKE: Stefan Reinecke, with Stratos. So, Alan, just to 2 clarify. Our understanding is that commitments would 3 generally apply to the Developers. It's not an 4 undertaking for a group of parties to -- to sort of 5 produce information and analysis relating to the 6 7 possibility of habitat loss? 8 MR. ALAN EHRLICH: I would see a commitment from the Developer to work with Parks 9 Canada and DFO in the regulatory phase to figure out 10 the no net loss stuff as a commitment. But I would 11 12 see the stuff that leads up to the hearing phase as an undertaking by the Developer. And the -- and Parks 13 Canada and DFO as well. 14 15 CO-FACILITATOR BARB SWEAZEY: Okay. So we're going to just do a little bit of working on 16 17 some suggested wording that we'll read back into the group if that's okay. There are a few different loose 18 threads going on at the moment. So, DFO, I want to 19 20 just go back to you to see if there are any additional comments, reactions, answers to Dean's question, as 21 well as to Alan's. And then I'd also like to check in 22 23 with -- with you folks at CanZinc, too, to see where 24 you're at. 25

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1	(BRIEF PAUSE)	
2		
3	MS. GEORGINA WILLISTON: Thank you.	
4	Georgina Williston, with Fisheries and Oceans Canada.	
5	I sorry, I had to go back in my memory to to	
6	what Dean's question was about the reporting, I guess.	
7	Saying that, you know, not all offsetting plans or	
8	we don't get the no net loss with all our offsetting	
9	plans or that they don't work. I'm not entirely sure.	
10	I'd have to reread the report again. I'm a little	
11	little fuzzy on that.	
12	But I think what's important to note is	
13	that, since that that report did come out,	
14	Fisheries and Oceans Canada has has sort of taken a	
15	more proactive approach to monitoring. And we do	
16	learn from every project. We learn what works, what	
17	doesn't work. And as we try and do more monitoring we	
18	see what works and doesn't work. And we do try and	
19	make better decisions.	
20	And, hopefully, eventually, reports	
21	that come out in the future will reflect that. And if	
22	they don't, then then we'll try to continue to	
23	improve our our monitoring and our I guess we	
24	don't have the no net loss principle anymore, but the	
25	same idea. That there's no that there's no	

1 residual impacts from, you know, projects that have 2 been authorized to occur and that the offsetting 3 really does work and that it really does offset for 4 impacts.

And I just also maybe wanted to add a little bit of comment -- context around compensation. We like to call it offsetting. Compensation generally puts a dollar value on it. So when we do work through our regulatory process we don't really talk in dollars and cents, we talk in fish and fish habitat or habitat equivalent units or -- or productivity, so.

And that is sort of what we take into the EA, also. We run -- we try and run our processes parallel, the environmental assessment process parallel with our regulatory process so that we can see whether or not there are any sort of residual negative impacts to fish and fish habitat.

And the residual impacts to fish and fish habitat in the EA world, that's kind of what translates into our regulatory role. And then that's where -- if there are residual impacts, then that would be what requires offsetting.

23 So that's just sort of maybe a little 24 bit of clarity as to -- as to how we do environmental 25 assessment and regulatory at the same time because

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198 they do -- they do compliment each other, and both 1 2 processes inform each other. 3 So, hopefully, I answered all the questions. There was a couple there. I was trying to 4 remember them all. Thank you. 5 6 CO-FACILITATOR BARB SWEAZEY: Thank 7 you. Dave, from CanZinc? 8 MR. DAVID HARPLEY: Yes, Dave Harpley. Hopefully I've got a suggestion that's going to be 9 helpful to try and kind of deal with all these 10 different desire, if I can call it that. 11 I don't -- the problem is we haven't 12 really had a -- that's -- that's the proponent and DFO 13 that has -- had a good conversation yet about what is 14 lost and what is gained and where exactly we are. 15 And that's a conversation I think we need to have. 16 17 We've -- we've provided the data that 18 DFO asked for, but it just numbers, and there's probably some -- still some question marks there. 19 But 20 kind of IR I have, if I can call it that, is, I'll get back to this again, whose responsibility is it whether 21 22 it's inside the park or outside the park. 23 It was my assumption that no matter where you are it's DFO's responsibility. So I'd like 24 25 to confirm that that's the case, in the first respect.

And if I'm correct and it is their responsibility, 1 2 then I think the proponent and DFO should at least try and work out what the situation is, in other words, 3 proponent give their necessary information to DFO to -4 - so that they can actually make their preliminary 5 determination. 6 7 And then once that's -- that's occurred, then, by all means, we can have a discussion 8 involving other parties, such as Parks, which we're 9 more than happy to bring into the equation at that 10 point because that's just the way we do things on all 11 12 sorts of matters, to work collaboratively.

But I think we need to focus on getting something straight in the first respect, and I don't think we're there yet. So to try to broaden it too early is going kind of make it less efficient to get to the answer that Alan's referring to before the hearing.

19 CO-FACILITATOR BARB SWEAZEY: Thank 20 you, Dave. Parks Canada, are you okay with kind of 21 that phased approach? Does that make sense to you? I 22 quess that's a leading question, sorry. What are you 23 thoughts on what Dave just said? 24 MR. GARRY SCRIMGEOUR: Garrv 25 Scrimgeour, Parks Canada. We -- we agree that there

1 is a level of additional discussion that would provide 2 clarity to all of us. And I -- I'm pretty sure we 3 would commit to that level -- that new level of 4 discussion.

5 I think there is clear lines of 6 accountability for DFO to the Fisheries Act. Parks 7 Canada's commitment is -- is to maintain parks that 8 are unimpaired for future generations, to maintain the 9 ecological integrity.

So our responsibility in -- in some 10 ways is a little bit broader than DFO's, and I think -11 12 - I think we need some additional thinking on that. I'm not sure if heavy a bilateral discussion between 13 Canadian Zinc and DFO, and then we are brought in the 14 discussion, I'm not sure if that's the most effective 15 way to go. I -- I'm not -- I'm not sure we would 16 17 object to it. I'm just not sure if the better way 18 would just be to have ongoing discussions between the 19 three (3).

20 But -- but I think we're flexible on 21 this. But I think what we've found out in the last, 22 you know, few weeks to months is that if we had those 23 discussions between the Proponent, DFO, and Parks we -24 - we might be in a better position to evaluate risks. 25 CO-FACILITATOR STEFAN REINECKE:

Stefan Reinecke, from Stratos. Thanks for that 1 2 comment. We are going to suggest that as a undertaking that the parties involved determine the 3 most appropriate process. The draft wording we have 4 to respond to Alan's earlier suggestion is CanZinc, 5 DFO, and Parks will work together to establish 6 7 information requirements, and provide necessary information and analysis related to fish and fish 8 habitat impacts to inform the Board's decision prior 9 to the hearing phase. 10 11 So we can take any quick suggestions 12 now, but -- or, you know, during a break or at the end of the day if we want to finesse that a bit. Yeah, 13 we'll -- I think we'll move on from here. 14 15 16 --- UNDERTAKING NO. 5: CanZinc, DFO, and Parks will 17 work together to establish 18 information requirements, and 19 provide necessary information 20 and analysis related to fish 21 and fish habitat impacts to 22 inform the Board's decision 23 prior to the hearing phase 24 25 MS. CARRIE BRENEMAN: Carrie Breneman,

202 Dehcho First Nations. I was just wondering, David, do 1 2 you anticipate that there's any additional field work that needs to be done with the Sundog Creek 3 realignment? 4 5 MR. DAVID HARPLEY: It's David Harpley. At this point I'm not aware of any 6 7 additional needs that would preclude us from coming to a -- or let's say I should say, DFO coming to a 8 decision on where we are but I'm -- I'm waiting for 9 feedback. 10 11 We've -- we've collected what we 12 thought was appropriate for the determination at this point. But I would like to reiterate. The Company 13 would like to know whose responsibility is it for 14 15 determination of habitat loss or gain in the park legally, and whose job is it? Let -- let's be clear 16 17 on this. 18 We can -- once we're clear on that, and -- and the appropriate body has made that 19 determination then we can have all sorts of 20 21 discussions. 22 23 (BRIEF PAUSE) 24 25 MR. GARRY SCRIMGEOUR: If -- Garry

Scrimgeour, with Parks Canada. Our view is that it's 1 2 a joint responsibility because of overlapping mandates. 3 CO-FACILITATOR BARB SWEAZEY: 4 Okay. Okay. I'm going to move on. Are there other 5 questions? There's more questions. Okay. So we're 6 7 going to go to Parks Canada for the next -- oh, yeah, sorry. Dave. 8 9 MR. DAVID HARPLEY: It's Dave Harpley. I -- I respect what Garry said but I'd also like to 10 hear what DFO has to say. 11 12 CO-FACILITATOR BARB SWEAZEY: For --13 what DFO has to say, okay. Thank you. 14 MS. GEORGINA WILLISTON: Thank you. 15 Georgina Williston, with Fisheries and Oceans Canada. So I think we both have a role in the management of 16 17 fish and fish habitat. I think we have different 18 pieces of legislation that help us do that. 19 So my understanding is that Fisheries 20 and Oceans Canada has Section 35 of the Fisheries Act, 21 and Parks Canada has whichever legislation they have. 22 I'm not that familiar with yours. But we do 23 definitely look to Parks Canada also to provide us with -- with information. They know the park better 24 25 than we know the park, obviously. They manage the

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1 park. So if there's, you know, maybe creeks and fish 2 communities that they're more familiar with and more 3 aware of then -- then those are questions we can ask 4 Parks Canada.

5 And then those -- that's information 6 that they can give us and we can -- we can help each 7 other that way, so that we all have a good 8 understanding of the impacts to fish and fish habitat, 9 and we can work together. But I think the differences 10 probably come at the -- at the end and who issues a 11 permit or who issues an authorization.

12 CO-FACILITATOR BARB SWEAZEY: So in 13 the interest of time and where we need to focus, I'm 14 going to suggest if there's additional conversations 15 that need to happen about the regu -- regulatory thing 16 that you guys will need to sort it out.

17 I -- it's my understanding that's it not the Review Board's decision or direction to 18 provide on that particular question. It is something 19 20 that the two (2) federal bodies need to weigh in on. So with that I would like to move to the next 21 22 question. Yes, Parks Canada. Okay. 23 MR. GARRY SCRIMGEOUR: Garry 24 Scrimgeour, Parks Canada. The -- the Proponent's DAR identified the use of surface waters for dust control. 25

Abstraction of water from surface waters has the 1 potential to affect the quantity and quality of 2 aquatic habitats. And specifically referring to IR-3 24, Canadian Zinc identified two (2) main water 4 sources for dust control, firstly flowing waters. 5 6 We would like to thank them and 7 recognize the additional level of information they provided to Parks in terms of response to our IR. 8 Abstraction of water from flowing water systems has 9 been resolved, and we're thankful for that. We would 10 ask Canadian Zinc to commit to providing us with an 11 12 additional level of detail on the removal of up to 10 percent of water volume from standing water supplies, 13 so lakes and wetlands. 14

15 We have specific questions related to, but not limited to when will the volume of the 16 17 standing surface water be quantified? How will -- how will potential changes in lake water source volumes be 18 quantified through time? How accurate will those 19 20 methods be? And over what period will the maximum withdrawal of 10 percent of water source volume be 21 22 quantified? For example, will it be quantified over a 23 six (6) month period? Will it be quantified over the open water season or period? So we're just asking for 24 25 a commitment to provide another level of detail.

1 CO-FACILITATOR BARB SWEAZEY: Dave, from CanZinc. 2 3 MR. DAVID HARPLEY: Dave Harpley. None of that information sounds onerous, so I -- I 4 don't think we have a problem with it. 5 6 CO-FACILITATOR BARB SWEAZEY: Great. 7 Thank you. We'll capture that as a commitment. Oh, as a undertaking. 8 9 --- UNDERTAKING NO. 6: Canadian Zinc to provide an 10 11 additional level of detail on 12 the removal of up to 10 13 percent of water volume from 14 standing water supplies for 15 lakes and wetlands 16 17 MS. SACHI DE SOUZA: Sachi De Souza, 18 with the Review Board. With respect to water thralls and the potential impacts to aquatic species or 19 20 aquatic environments, are there specific water bodies or water courses that Parks Canada or -- I don't -- a 21 22 few other parties asked questions about water 23 withdrawals. 24 Are there specific water bodies you are 25 more concerned about than others?

1	(BRIEF PAUSE)
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3	MS. SACHI DE SOUZA: I it's Sachi
4	De Souza, with the Review Board again. I guess a a
5	better way of phrasing that is you're asking right now
6	CanZinc to do some additional work with respect to
7	water withdr or providing more information from
8	or water withdrawals from standing water sources.
9	My question is: What specific impacts
10	to the environment are you concerned about with
11	from water withdrawals?
12	MR. GARRY SCRIMGEOUR: Garry
13	Scrimgeour, with Parks Canada. I was doing so well
14	until you rephrased your question. So I'll I'll
15	make two (2) points. I expect the Proponent will
16	confirm the location of water sources. That would be
17	helpful and and nothing onerous there. But
18	secondly the application of the maximum 10 percent is
19	actually quite a conservative approach. So
20	irrespective of the water body, if they can keep to
21	that, Shall not exceed 10 percent of standing water
22	volume and give us the details on how that will be
23	measured, that would largely resolve any concerns that
24	we would have.
25	In terms of the broader question, it's

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really just a reduction in the quantity of aquatic 1 2 habitats and potentially the quality. 3 CO-FACILITATOR BARB SWEAZEY: Any other response/comment? No? Any additional 4 questions? Loretta...? 5 6 MS. LORETTA RANSOM: Loretta Ransom, 7 Environment and Climate Change Canada. I just wanted to follow up quickly with respect to what Parks raised 8 regarding dust control. Our expert, Dave Fox, is not 9 able to be here for most of the session this week, but 10 he did have a couple of questions that he would like 11 12 to have the opportunity to discuss Wednesday afternoon 13 or Thursday. 14 But I just wanted to raise it now so 15 you're aware, and it's regarding the contaminant loading management plan. And he has a few comments, 16 17 questions, and what-not around that. So hopefully he 18 will be given that opportunity to have that discussion 19 later on. 20 CO-FACILITATOR BARB SWEAZEY: Yes. 21 Thank you. We'll make a note of that. And is he 22 going to be calling in? MS. LORETTA RANSOM: Loretta Ransom. 23 24 He will be here in person. 25 CO-FACILITATOR BARB SWEAZEY: Okay.

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1 Great. Thank you.

2 MS. LORETTA RANSOM: Thank you. 3 CO-FACILITATOR BARB SWEAZEY: Okay. Other questions that you might have in this category 4 of biophysical? What else is on your list? 5 Yeah, 6 okay. DFO...? 7 MS. GEORGINA WILLISTON: Thank you. Georgina Williston, with Fisheries and Oceans Canada. 8 I just had to clarify with my Parks Canada colleagues. 9 When we talk about the -- the 10 percent, and they're 10 -- they're correct to assume that we've -- I guess 11 we've chosen the 10 percent because lots of times that 12 is a good -- a good threshold. 13 14 Lots of times that is -- you know, impacts are seen above that but not below that. But 15 we do use that as a quideline. It's not a permitted 16 17 limit or a threshold limit. 18 It's a -- a quideline because it really does depend on the water body, which is why we need 19 20 bathymetry information and maybe sometimes a little bit of habitat information to make sure that the water 21 22 withdrawal isn't going to result in, for example, 23 maybe a lot of littoral zone habitat being exposed. And maybe that's where, you know, we have eggs that 24 25 have been deposited or something.

1 We do look at each sort of water 2 withdrawal on its own merit and within each water body to make sure that there's no impacts to -- to fish and 3 fish habitat. Thanks. 4 5 CO-FACILITATOR BARB SWEAZEY: All 6 right. Thank you. 7 The other category that is in this agenda segment is vegetation. And I'm not sure 8 whether or not people have vegetation-related 9 questions that they would like to raise at this time. 10 You still have some more aquatic related? 11 12 CO-FACILITATOR BARB SWEAZEY: Okay. 13 Okay. We'll go back to Parks Canada then. 14 MR. GARRY SCRIMGEOUR: Garry 15 Scrimgeour, Parks Canada. The Developer's DAR identifies the use of explosives, in some cases 16 17 adjacent to water bodies. We -- we're referring to Parks Canada IR-20. 18 19 Firstly, we appreciate and recognize 20 the level of detail provided by the Proponent. Parks Canada would ask that the Proponent agreed or commit 21 22 to providing an additional level of detail on the use 23 of explosives adjacent to water bodies. 24 This could include -- this could 25 include potential deposition of some of the nitrate

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compounds in explosive. We -- we also know that the 1 2 Proponent is aware of the Guidelines for the Use of Explosives in or Near Canadian Aquatic Waters by 3 Wright and Hopky. 4 We would ask that Parks Canada could be 5 kept abreast of those discussions on the specific 6 7 details, the specific prescriptions on the use of explosives adjacent to water bodies. 8 9 CO-FACILITATOR BARB SWEAZEY: Comment from CanZinc? 10 11 MR. DAVID HARPLEY: Yes. Dave 12 Harpley. We're not using Ampha (phonetic), so we don't expect any significant residues. So I'm not 13 sure what the issue is. It'll just be sticks. 14 15 There'll be nothing to impact water. 16 CO-FACILITATOR BARB SWEAZEY: Does 17 that -- Barb, from Stratos. Does that answer your 18 question? Are there other outstanding questions? 19 MR. GARRY SCRIMGEOUR: Garry 20 Scrimgeour, Parks Canada. That's exactly the level of detail that would be appreciated. So really it's --21 22 it's just an additional level of involvement and 23 engagement on the use of explosives. And it might well be as simple as solving, providing, reminding us 24 25 of information that David has just done.

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212 1 2 (BRIEF PAUSE) 3 CO-FACILITATOR BARB SWEAZEY: So Barb 4 here. Parks Canada, have you got everything you need 5 on explosives now or is the request to have an ongoing 6 7 -- an ongoing keeping abreast of anything relating to explosives? 8 9 MR. GARRY SCRIMGEOUR: I think it's just a request for an additional level of discussion 10 and being kept abreast of the sper -- the -- the 11 12 specifics of the use of explosives. 13 CO-FACILITATOR BARB SWEAZEY: CanZinc...? 14 15 MR. DAVID HARPLEY: Dave Harpley. I'm -- I'm not sure what else we need to provide. We --16 17 we're always open to discussion, but, specifically, do we need anything additional now? 18 19 MR. GARRY SCRIMGEOUR: Garry 20 Scrimgeour, Parks Canada. I think -- I think there's another level of detail in terms of the use of 21 22 explosives. It might be as simple as the specific 23 locations. And it's -- I think it's more just the physical mechanics of -- of what's going to be done. 24 25 And I -- I don't think this is any more

than just keeping us in the loop so that we can 1 2 understand what's -- what's being proposed. 3 MR. DAVID HARPLEY: It's Dave Harpley. Can I suggest this is an item that we can deal with 4 during the permitting phase? 5 6 MS. SACHI DE SOUZA: It's Sachi De 7 Souza, with the Board here. So just for my understanding, is there a specific concern to water 8 quality in fish that Parks Canada has with respect to 9 blasting? And if you could please explain what those 10 are right now, that would really help me and I think 11 12 some other people in the room. 13 MR. GARRY SCRIMGEOUR: Garrv Scrimgeour, Parks Canada. I think anytime there's the 14 15 -- the use of explosives next to water bodies where, if they were used inappropriately, it has the 16 17 potential to cause fish mortality. 18 And clearly that's not to say that that would be the case, but that's the level of detail, how 19 20 close will it be, how large will the charges be, what sort of resonance and dissipation of a shock wave is 21 22 anticipated, what are the calculations that determine 23 appropriate levels of loading of explosives so that they do not result in death of fish. 24 25 I think those are the details. And,

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you know, again, I -- I refer you to the guidelines. 1 2 MS. SACHI DE SOUZA: Sachi De Souza, with the Board. So earlier we all reached an 3 agreement that DFO and CanZinc and Parks Canada 4 potentially are going to have a conversation about 5 fish habitat, effects to fish, and maybe encourage the 6 7 effects from blasting to fish and fish habitat to be a part of that discussion and part of what is reported 8 back to the Review Board from those meeting notes, if 9 we can leave it there. 10 11 So can I go to Fisheries first? And 12 then I'll go back to CanZinc. 13 MS. JULIE MARENTETTE: Julie Marentette, Fisheries and Oceans Canada. 14 I think 15 we're in agreement there, that, you know, it'll be part of additional discussions. And just as a point 16 17 of clarification, we would ultimately be looking for 18 some kind of commitment to developing a blast management plan, a site-specific one that would show 19 20 where all the measures to avoid and mitigate serious 21 harm to fish, including death of fish, would be taken 22 into account. 23 I'm not sure if that needs to be done, 24 you know, immediately or later on in the process, but 25 that would be something we would be looking for.

Thanks. 1 2 MR. DAVID HARPLEY: It's Dave Harpley. I'm -- I'm not quite sure I see the point of that 3 suggestion. I don't think we need to figure out how 4 many holes we're going to drill and how big are the 5 blasts going to be to minimize effects at this point. 6 7 We're going to follow the guidelines. We've already said that. It's in our written 8 submission. 9 10 These are details we can bring forward in our detailed design phase at a later time. I don't 11 12 think it's necessary to have a discussion on them at this point for the EA. I don't think they inform the 13 EA any -- anything. 14 15 MS. SACHI DE SOUZA: Sachi De Souza, with the Board. Given that CanZinc is -- intends to -16 17 - or commits to following the guidelines related to 18 blasting, Parks Canada, do you still have concerns about effects to fish and fish habitat, given 19 CanZinc's commitment here? 20 21 MR. GARRY SCRIMGEOUR: Garry 22 Scrimgeour, Parks Canada. I was careful to not 23 indicate that we foresaw significant effects on fish. What I was asking for was just an additional level of 24 involvement in communications in terms of the use of 25

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1 explosives. 2 Absolutely the DAR indicated that they would follow the guidelines. The guidelines are, 3 4 however, guidelines. They are somewhat broad in nature and there's lots of options, depending on the 5 context. We would like to be a part of those 6 7 discussions. 8 MR. DAVID HARPLEY: It's Dave Harpley. And -- and we're more than happy to have them. I just 9 don't think the appropriate time is now during the EA 10 process. I think it's later during the detailed 11 12 design process. Otherwise, I have to go and find a typical blaster and ask him all sorts of questions 13 about this to provide the additional level of 14 information which really has no bearing on the answer 15 16 at this point. 17 18 (BRIEF PAUSE) 19 20 CO-FACILITATOR BARB SWEAZEY: Okay. 21 So... 22 23 (BRIEF PAUSE) 24 25 CO-FACILITATOR BARB SWEAZEY: Okay.

217 So at this point the issue has been raised, and -- and 1 2 the advice that we're getting is that it's up to you guys to figure out how you're going to sort through 3 this piece. So we can -- we can make a note of it in 4 the -- in the records. Okay. 5 6 Are there other questions? 7 8 (BRIEF PAUSE) 9 10 MR. DAVID LAVERDIERE (BY PHONE): Yes, it's David Laverdiere, out of ECCC. Am I able to 11 12 bring up something with -- with respect to water quality? 13 14 CO-FACILITATOR BARB SWEAZEY: Yes, go 15 ahead. Is that Dave? Yeah, please go ahead and --16 MR. DAVID LAVERDIERE (BY PHONE): 17 Yeah. CO-FACILITATOR BARB SWEAZEY: 18 -- ask your question related to water quality. Thank you. 19 20 MR. DAVID LAVERDIERE (BY PHONE): 21 Thank you. Hi, it's David, of ECCC. And my question 22 -- I guess it's more of a comment. In Section 4.2 the 23 clearing and grubbing portion of the sediment and erosion control plan, it's stated that no materials 24 25 will be stockpiled within 15 metres of the top of bank

1 of any defined water course or wetland.

It is ECCC's opinion that 15 metres is too close with respect to a water course that has water that is flow -- present and flowing. I suppose it's too great a risk to generate total suspended solids in excess of the Canadian Water Quality Guidelines for the Protection of Aquatic Life for total particulate matter.

9 Would the Proponent be -- would the 10 Proponent be amenable to adopting a setback of 50 11 metres from the body of water -- a water course that 12 has water present?

MR. DAVID HARPLEY: It's Dave Harpley. MR. DAVID HARPLEY: It's Dave Harpley. This is kind of similar to the issue we just dealt with previously about runoff. The problem is in some locations of the road we're constrained by the topography, and it's very difficult to actually get away from the road.

19 So that's why I'm reluctant to make 20 these kind of blanket commitments. We're always going 21 to need to do something site specific. You know, 22 fifteen (15) is already a commitment. I appreciate 23 it's not a significant distance but in some of these 24 locations in tight valleys and canyons we just don't 25 have the room to go much further. And we need to

consider another measure that's protective. 1 MS. SACHI DE SOUZA: It's Sachi De 2 Souza, with the Board. Just before you -- you jump in 3 there, Dave, from the phone, would a commitment to 4 where possible keep it 50 metres away from the water 5 course? If not possible, implement erosion -- or 6 sediment control measures. 7 8 Would that be okay? 9 MR. DAVID HARPLEY: Dave Harpley. Yeah, that sounds more reasonable. I -- I would say 10 appropriate control measures, yeah. 11 12 CO-FACILITATOR BARB SWEAZEY: And Dave on the phone, are you okay with that proposed 13 commitment? Did you catch it? 14 15 MR. DAVID LAVERDIERE (BY PHONE): Yeah, I did. I was just pausing to think. I guess 16 17 that's a reasonable sort of -- I can't think of the word but kind of halfway of that -- halfway of what we 18 19 wanted. 20 CO-FACILITATOR BARB SWEAZEY: Okay. Thank you. Other questions? 21 22 23 --- COMMITMENT NO. 5: CanZinc commits to keep it 50 24 metres away from the water 25 course and if not possible

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220 1 implement sediment control 2 measures 3 CO-FACILITATOR BARB SWEAZEY: Other 4 5 questions? Yes, go ahead. 6 MS. CARRIE BRENEMAN: Carrie 7 Breneman, Dehcho First Nations. David, in the original DAR my understanding was that CanZinc 8 committed to using bagged concentrates? No? Are you 9 -- well, my question is, is -- are -- but my 10 understanding is that you're now going to be using 11 12 loose -- like that you're not going to be using bagged 13 concentrates. 14 MR. DAVID HARPLEY: Dave Harpley. I believe we had in the DAR, and if we didn't it -- it's 15 an oversight, but I think we've been consistent since 16 17 the DAR and -- and subsequently that we will have two 18 (2) types of mode of transport for concentrate. 19 The -- the lead concentrate will be in 20 bags because that's what the smelters demand. And the zinc concentrate will be bulk, also because of smelter 21 22 requirement. 23 MS. CARRIE BRENEMAN: So in -- in terms of mitigation in the case of zinc because it 24 25 won't be bagged, do you feel like dust coming off the

1 vehicle is at all a concern?

2 MR. DAVID HARPLEY: Dave Harpley. Certainly it's a concern, and just as it was a concern 3 in the previous EA process with the winter road. 4 And basically our approach then, as it is now, is we want 5 to make sure that the truck is basically clean on the 6 7 outside when it leaves the site, including the wheels. So that's why we're paying particular attention on the 8 -- the process of actually storing and loading at the 9 mine site into the trucks, and ensuring that the --10 the outsides are clean and the truck goes through a 11 12 wheel wash.

13 So, you know, we -- we don't want dust on the road. We don't want to have to look at the 14 15 prospect of -- of remediating a roadway because we're losing concentrate, never mind the fact that we're 16 17 losing part of our revenue along the road. So it --18 it's an area we're -- we're going to definitely focus on to make sure it's clean. And -- and we're going to 19 20 be monitoring it -- it.

You know, if -- if we're losing dust on the outside of the road, you would have to expect that for the most part it's going to be dropping out in the area immediately from the mine site and -- and as -you know, as you go further up the road. So that's

where we're going to focus our monitoring effort -effort, at least initially, to hopefully prove that
we're -- you know, all our systems are as they should
be, and -- and it's not an issue.

5 MS. CARRIE BRENEMAN: The second part of my question -- and I apologize if this was already 6 7 explained in the DAR, or -- or another addendum, but for these kind of loose zinc concentrates, do you have 8 concerns around spills? Like if you have a truck that 9 topples over of -- you know, what's going to happen 10 with your concentrate if it's not bagged, and then how 11 12 you're go -- like how you're effectively going to be 13 capturing and -- and getting all the zinc, you know, off the road? 14

Especially considering the topography 16 is quite steep. Like I would think that if you had a 17 spill that it could go a long ways, depending on where 18 it is or if it's close to a waterway.

19 MS. SACHI DE SOUZA: Sorry. Sachi De Souza, here with the Board. Just to confirm, when 20 you're saying "loose concentrate" you're talking about 21 22 a sealed container for the zinc concentrate, correct? MR. DAVID HARPLEY: 23 Dave Harpley. 24 So the lead concentrate will be in bags inside Yeah. 25 a truck box with a topped cover. So in a sense it's

1 double containment.

The zinc concentrate is in a bulk form, and it's in a specially designed containerized vehicle that basically has a locking lid. And so when it gets to the location, you know, the -- the load out, the lid has to be unlocked and there's a mechanism for the -- for the truck to dump.

The mechanism that seems to be the 8 industry standard and preferred is the truck actually 9 drives over a ramp and it -- and it -- the ramp tips 10 the truck and it basically tips out the concentrate. 11 12 But to answer your question, are we concerned about spills, of course we're concerned 13 about spills. We -- we've paid quite a bit of 14 15 attention to the design on the road, how -- how we can improve it in terms of grades and corners and make it 16 17 as safe as -- as we can make it. Because that's 18 basically the first approach to avoid a spill, is just to minimize the risk of a spill. 19

But having said that, there's always the risk that there's going to be a spill and that we're going to have a mount a recovery effort. So there's quite a bit of discussion in the debark (phonetic) documents we've submitted about how we can map that response and our response time and where do

we need to store equipment, what we're going to need 1 to do in terms of locations that are below the road 2 and difficult to access, control points and -- and 3 that type of thing. 4 5 And it may -- you know, for -- for a spill in a location where there is grade below the 6 7 road, for example, and it's not easy to get to, we may have to get in -- into a crew with shovels and 8 wheelbarrows or whatever it may be to pick up all the 9 material. 10 11 And -- and it won't just be the 12 material because, inevitably, there'll be some mixing with local soil, so there'll -- there'll -- it'll be a 13 bit of a, you know, cleanup, soil cleanup remediation 14 response if the -- you know, in the event of that kind 15 of a spill. 16 17 CO-FACILITATOR BARB SWEAZEY: Barb 18 here. Are there any further questions from you, Carrie, at this point? Okay. 19 20 Okay, Environment Canada, any other questions either on the line or from you, Loretta? No 21 22 further questions? Okay. 23 And Parks Canada, any additional 24 questions? 25 MS. ALLISON STODDART: We have

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vegetation questions. 1 2 CO-FACILITATOR BARB SWEAZEY: You have vegetation questions? Okay. Yes, Mark -- or sorry, 3 Dave. 4 5 MR. DAVID HARPLEY: So it's Dave Harpley. So we're done with fish and the guys -- fish 6 7 people can -- can depart? 8 CO-FACILITATOR BARB SWEAZEY: Did you have any more fish questions? Done with fish? 9 10 MS. ALLISON STODDART: Yeah. My understanding is though that it's again on the agenda 11 12 on Wednesday, right? 13 CO-FACILITATOR BARB SWEAZEY: Yeah, I think there's another -- we revisit it in a different 14 way. So I'm just mindful of the time. It's thirteen 15 (13) minutes to 5:00. I would like to leave five (5) 16 17 minutes before we wrap up just to do a very quick review of the commitments that we arrived on today and 18 a summary of the undertakings. 19 20 So if we could see how many questions we get through in seven (7) minutes and see how we're 21 22 doing. 23 MS. AUDREY STEEDMAN: Audrey Steedman, 24 Parks Canada. So these comments are about vegetation 25 baseline data, specifically vegetation and

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assemblages, including rare species and rare 1 2 assemblages as required in the terms of reference. 3 So we put forth Information Requests as part of Parks Canada IR-45. There were several 4 requests with regards to additional field vegetation 5 surveys to update and refine the veg classification 6 7 with replication of samples in all assemblages and dis -- distribution throughout the study area. 8 The second component was additional 9 rare plant surveys using best practices for rare plant 10 assessments to get distribution across a study area, 11 12 across all assemblages and, in particular, areas with high rare plant potential and that are more sensitive 13 to disturbance. And there was a third component that 14 15 we've touched on already today. 16 So we just wanted to clarify that the 17 IR responses help us understand the vegetation baseline data sources, but no new information was 18 presented to address our requests. 19 20 So, basically, our -- our primary 21 concern with the vegetation baseline data as it's been 22 presented in the DAR is that there hasn't been 23 adequate vegetation surveys in the project area to describe vegetation and vegetation assemblages, which 24 25 makes it difficult to accurately assess impacts to

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1 veg.

A significant footprint area, which includes sections not on the previous winter road alignment, borrows, camps, and et cetera will be cleared of veg and they have never been surveyed on the ground.

7 With regards to the land classification that's been used, physically it's called EOSD and it's 8 been correlated with surveys conducted in the 1980s. 9 This is an appropriate first step, but these remote 10 sensing products can be pretty limited in their 11 12 ability to accurately predict land cover. And so additional ground truthing with veg surveys on the 13 ground and/or aerial surveys would be the next 14 15 appropriate step.

16 And so one (1) -- something we can 17 bring to this is the new Parks Canada land classification data. It has better spacial and 18 19 thematic resolution than what's been used for the DAR 20 and we can share this data with the Proponent and some preliminary analysis that's been done as well. 21 22 And this data could be used to 23 structure field surveys, to ground truth the classification, better characterize assemblages, which 24 25 haven't been done to date, including rare assemblages,

and then target areas of high rare plant potential and 1 2 sensitivity to disturbance. 3 With regards to --MS. SACHI DE SOUZA: Just to confirm, 4 you -- Can -- or Parks Canada is going to provide 5 addition -- their additional vegetation data for the 6 7 record. 8 MS. AUDREY STEEDMAN: Audrey Steedman, Parks Canada. That's correct. 9 10 11 --- UNDERTAKING NO. 7: Parks Canada to provide 12 additional veg data. CanZinc 13 and Parks Canada to discuss 14 turbidity management plans 15 and adaptive management. 16 17 MS. AUDREY STEEDMAN: Okay. Just to 18 continue with the rare plant and rare assemblage component. We just want to highlight that there's two 19 20 (2) features of the project area that are of 21 particular concern to us and have higher rare plant 22 and assemblage potential and these would be on 23 glaciated terrain and course terrain. 24 So we understand that portions of the 25 road have been rerouted to avoid significant karst

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1 course features, but there's still karst terrain for a
2 span of the road on the Ram Plateau. And so basically
3 we're looking for rare plant surveys to be done
4 following guidelines and best practices for rare plant
5 surveys.

6 For example, the Alberta Native Plant 7 Council has widely accepted guidelines for -- that present standards that are accepted by Alberta 8 regulators for rare plant surveys. So we're 9 suggesting that these guidelines be used to target 10 rare plant surveys, particularly in unglaciated and 11 12 karst terrain, because these two (2) types of terrain present uncommon habitat and terrain types, as well as 13 small scale features and micro habitats that are --14 15 present a higher rare plant potential. 16 MS. SACHI DE SOUZA: If we can just 17 get you to pause there and let CanZinc respond. I 18 think the request there was for rare plant surveys following the guidelines from Alberta and areas that 19 20 are unglaciated or have karst. 21 So if CanZinc would like to respond to 22 that? 23 24 (BRIEF PAUSE)

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230 MR. DAVID HARPLEY: It's Dave Harpley. 1 2 So our consultant, after checking behind me, will have some comments on the vegetation assemblage and then 3 I'll followup after that. 4 5 MR. RICK HOOS: Good afternoon. My name is Rick Hoos, with Tetra Tech EBA, principal 6 7 consultant. And with me is Karla Langois from our Yellowknife office. We prepared the vegetation 8 sections for the DAR, and have done all the field work 9 -- the limited field work that has been done as part 10 of this work. 11 12 In terms of the vegetation assemblages, just as a general comment before I start, as we've 13 14 indicated in our response to the IR the proposed all 15 season road generally follows the alignment of the winter road, and I think everybody understands that, 16 17 except at some select locations which I believe you 18 discussed this morning, including borrow sources. 19 And -- and the -- the overall statement 20 is that the total loss -- direct loss of habitat is 21 actually going to be smaller in size than what was

22 approved for the winter road based on the -- on the 23 baseline studies that have been carried out to date. 24 We've also pointed out that the proposed alignment is 25 designed to avoid sensitive habitat features, such as

wetlands and karst formations, where -- where plants
 have a higher potential for occurrence.

3 That having been said, the vegetation cover units that we presented and discussed in the DAR 4 and the amendments to the DAR, in our view are 5 unlikely to have changed significantly in the past 6 7 thirty (30) years. And this is based on the fact that we, of course, reviewed the original data collected by 8 beckon 81/82. That same information and anything new 9 that was learned was reassembled by Robertson 10 Environment in 1994, and was presented again by Golder 11 12 in their 2010 work for Canadian Zinc.

13 We felt that we should try and do what 14 we could to update the available information, and 15 chose to use the EOSD mapping land -- cover mapping information that was available from the early 2000s. 16 17 And we compared those -- that information with the 18 results of the previous work, and concluded that there really wasn't a lot of things that have changed with 19 20 the vegetation communities over the past thirty (30) 21 years.

We are intrigued to hear though that Parks Canada is willing to provide some new updated information that we were not aware of, and we'd certainly be interested in having a look at that to

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see if that information can somehow help refine - further refine what we know about the vegetation
 communities in the area.

But in general, we don't -- we -- we feel pretty confident -- very confident, in fact, that the vegetation cover units, as we have depicted them in the documentation that's been provided, is an accurate representation of the kinds of vegetation and habit types, community types, that exist along the winter road corridor.

11 MR. DAVID HARPLEY: So it's Dave 12 Harpley. I just -- so I'm just going to add to -- to that. Just men -- talk about rare plants briefly, and 13 then get into something more general. But the rare 14 plant issue came up on the last EA specifically 15 because we had proposed a fairly significant 16 17 realignment from the original winter road. And this 18 was a realignment that, in fact, we discussed at some length with Parks in order to avoid the road bisecting 19 20 what's called the Poljes, specific karst features. 21 So the concern was that because this 22 was -- this was a new alignment with no disturbance, 23 that there could be rare plants out there. So we duly had Tetra Tech EBA undertake a rare plant survey, 24 25 which included the new alignment. And they can

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1 correct me, but my recollection is that basically they 2 found nothing of significance other than a couple of 3 plants which based on the -- the inventry (phonetic) 4 or their current thinking they're not actually rare at 5 all. They're -- they're quite common. I forget which 6 varieties they are, but there really wasn't anything 7 significant that was out there.

8 Now, fast forward to our all-season road proposal, we -- we're essentially following the 9 currently approved winter alignment. I mentioned this 10 morning there was some tweaks in it, but if you think 11 12 about the -- the road where it crosses the park, from the park boundary in the west at the pass, at about 13 kilometre 17 down to kilometre 40, which is the Sundog 14 Creek, I mean, it's basically alluvial material with 15 sparse vegetation. Pretty much similar, there's --16 17 there's not a lot of difference in it.

18 And then we go into the -- the realignment that I've just mentioned. Then, after 19 20 that, you cross the round plateau. And again, the -the vegetation crossing the plateau is -- is fairly 21 22 consistent in the different sections of the plateau. 23 We're only deviating from the original 24 winter road, you know, a hundred metres, a few hundred 25 metres at most. So I can't see the value in

collecting more specific vegetation data at this 1 2 point. I don't see how it's going to inform us from a perspective of determining effects any more than we've 3 already done. 4 5 CO-FACILITATOR BARB SWEAZEY: So Barb here. We have a couple of questions as follow-up. 6 7 And I know, Audrey, that you're not quite finished your -- your list. I also just want, as a -- as a 8 process -- proce -- it's 5:00. 9 10 So my -- my guess is that Parks Canada still has some vegetation questions, and your 11 12 vegetation specialists are only here today. Is that 13 correct? MS. ALLISON STODDART: 14 (OFF MIC COMMENTS) They are here all week. 15 16 CO-FACILITATOR BARB SWEAZEY: All 17 week. How about you folks in terms of your vegeta -all week or just today? Today and tomorrow. 18 So is there a -- a willingness to -- do you want to see 19 20 through vegetation and all the questions you have 21 right now and we -- we go past 5:00, or do we want to 22 park where we are and come back tomorrow? 23 We can look at the commitments and 24 undertakings tomorrow morning in a review rather than 25 taking time to do that tonight. So I would like some

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feedback on -- on that. Sorry? 1 2 3 (BRIEF PAUSE) 4 5 CO-FACILITATOR BARB SWEAZEY: Yes. Yeah, there -- I know there's a couple -- we'll --6 7 we'll take a couple questions related to this thread. But if there's -- I suspect there's additional 8 questions. 9 10 So should we finish this one off, like, the -- the other questions that are related, and then 11 12 come back to it tomorrow? CanZinc, are you okay with 13 that? 14 MR. DAVID HARPLEY: We don't mind. We can carry on now or tomorrow, it doesn't matter. 15 16 17 (BRIEF PAUSE) 18 19 CO-FACILITATOR BARB SWEAZEY: You're 20 worried about it eating into the agenda tomorrow. Could we go -- could we get agreement to go to 5:30 21 22 and get as much done today as we can? Because if we 23 go into it tomorrow, we're going to lose potentially a half an hour, 40 minutes into tomorrow's agenda. And 24 25 I know that there are some specialists that are only

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going to be tied for to -- tomorrow's agenda. 1 2 Can I get agreement to go til 05:30? 3 (BRIEF PAUSE) 4 5 6 CO-FACILITATOR BARB SWEAZEY: Okay. 7 So it seems like maybe going to 5:30 is not a good idea. So why don't we finish taking the couple of 8 questions related to this? And then we'll put 9 vegetation up tomorrow morning, because I think maybe 10 we're out of steam. Sorry, it was just body language. 11 12 So Cesar and Dean have questions. 13 MR. CESAR OBONI: Okay, Cesar Oboni speaking. So in the scope of work stated that the 14 location with sensitive habitats would likely result 15 in a highly -- high-consequence event, and this should 16 17 include karst area with karst topography. 18 So my question is: Location -- well, first is the statement, which is the location with 19 20 sensitive habitats entered in the risk analysis on the consequence side of the equation, and does they need 21 22 to explicitly considered during the risk analysis? 23 So is there a list of segments that are 24 considered to have a sensitive habitat rating or -and that for all the different alternative. Or from 25

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what I understood, is that there's no sensitive at --1 2 habitat at all. The road is not going through any or -- I -- I need some more explanation on that. 3 MR. DAVID HARPLEY: It's Dave Harpley. 4 Can you tell me what you're reading from? 5 6 DR. CESAR OBONI: So I'm reading from 7 the scope of work that the Mackenzie Review Board asked us to perform. And they asked us to evaluate 8 the adverse impacts on infrastructure environments, 9 human health and safety, and sub bullets location with 10 sensitive habitat that would likely result in a high-11 12 consequence event. 13 MR. DAVID HARPLEY: It's Dave Harpley. Personally, I'm not comfortable with using the word 14 'sensitive' because I think it's very subjective. 15 In this context, it could mean all manner of things. 16 Are 17 we talking karst formations? Are we talking fish? What are we talking about? It's -- to me, it's just 18 19 far too broad. 20 In terms of certain areas being more sensitive than others, yes, I think we can probably 21 22 agree with that. And again, it's site-specific, so 23 it's hard to generalize. 24 DR. CESAR OBONI: So is there -- is 25 there a list of segments that have -- could we come up

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with a seg -- with a -- a list of segments that we all 1 2 would like to have more consideration or that we would all consider it to be, I don't want to use the term 3 'sensitive', but that -- who that -- should have more 4 focussed attention? 5 6 MR. DAVID HARPLEY: Dave Harpley. Ι 7 recollect that when we put out our addendum, we did a revision of the risk assessment we prepared. 8 And towards the end of that risk assessment was a specific 9 consideration of certain seg -- segments of the road. 10 And, you know, we were specifically looking at spills 11 12 and what kind of effect spills would have. 13 So we were thinking specifically about the water courses, proximity to the water courses. 14 15 What were there in those water courses to be impacted. 16 So that I can suggest is, at least for water quality 17 and fish, a -- a reference that you might look at. 18 Regarding anything else, I don't know there's anything out there for rare plants, because, 19 20 you know, the -- the information we have at this point 21 would suggest that it -- that -- there are no 22 significant rare plants that -- that we've found to 23 date that would warrant that as kind of being up on 24 the radar. 25 In terms of karst formations, well, I

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mean, we've -- we've said that we've basically tried 1 2 to route the void to avoid specific karst features. But that's not say that we would actually do any 3 damage to formations, even if the road was proximal to 4 those features, because, you know, these are geologic 5 features that develop over a millennium. 6 7 And it's more of a proximity thing, let's just stay away from them as -- as the areas we 8 want to protect. You know, I -- I can't say that 9 they're sensitive, but maybe their areas -- areas have 10 more value, if we can put it that way. 11 12 CO-FACILITATOR BARB SWEAZEY: It's 13 okay? Dean, question from you? 14 MR. DEAN HOLMAN: Sort of two -twofold here. Dean Holman, from Liidlii Kue. First 15 to -- to Par -- Parks Canada. You mentioned a ground 16 17 truthing. It's -- it's one (1) of the cornerstones or 18 keystones of -- of traditional knowledge or indigenous knowledge. And there are some new, I guess, or -- or 19 20 reali -- with the realignment of the right-of-way, there are areas there that -- that LKFN and poss --21 22 or, well, there was a report, a 2009 report from Tetra 23 Tech, is that right? 24 I -- I was interested in whether Canadian Zinc or Parks Canada could include or involve 25

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Liidlii Kue traditional knowledge holders in the 1 ground truthing aspect of what you're talking about 2 there? 3 My other question is directed to Dave 4 at Canadian Zinc. I was just curious to unde --5 understand, given the various range and fluvial 6 7 characteristics with some of the rivers up there, including the Sundog -- Sundog Creek, what's sort of 8 their rate of return of vegetation record and 9 vegetation when it -- when -- you know, in a -- in a 10 river that doesn't necessarily flow year round? 11 Thank 12 you. 13 CO-FACILITATOR BARB SWEAZEY: Dean, was that question pointed for CanZinc's reaction? Do 14 15 you have a response? 16 MR. DEAN HOLMAN: Sorry, Dave, 17 specifically just to the rate of return for riparian 18 vegetation. 19 MR. DAVID HARPLEY: It's Dave Harpley. 20 I can -- I can -- I mean, there's -- we've not done a 21 specific study on -- on the return of vegetation, you 22 know, timewise. We can only -- I can only comment on 23 what we see out there now compared to when the original disturbance occurred. 24 25 And what we definitely see in the

1 mountains where soils are thin or -- or negligible is 2 it takes a lot longer for the vegetation to reestablish. I mean, eventually it -- I mean, it's --3 it's coming back, but -- but much slowly -- much more 4 slowly than in lowland areas. 5 6 You go to sections of the -- of the 7 lowlands on either side of the -- the Ram Plateau, and there are sections of the road that you wouldn't even 8 know that the road had gone through there. 9 It's completely regrown. But there again, you come to 10 other sections and the -- and the growth is very 11 12 sparse. So it definitely depends on where you are. 13 In the riparian areas, again, where it -- where it's just gravel, I suspect it'll be a long 14 15 time before you get organic matter in there and vegetation coming back. But again, there's other 16 17 sections that have quite a bit of organic matter, and 18 the regrowth is -- is pretty good. So it's variable. 19 CO-FACILITATOR BARB SWEAZEY: I'm --20 I'm going to go back to Parks Canada to see if there's 21 -- so we've kind of played around with a little bit on 22 the rare plant survey. There's some additional sort 23 of somewhat related follow-up questions. In light of sort of trying to wrap this piece up, I don't know if 24 you have any responses or follow-up comments on the 25

one (1) item that we've got to. I know that there's 1 2 additional items that you would like to put out. 3 I don't -- and I'm not sure if we're going to be able to totally wrap and make a decision 4 on whether or not we can go ahead with the rare plant 5 surveys with the conditions that Sachi read earlier, 6 7 so do you have any closing comments? 8 MS. ALLISON STODDART: So are we going back to vegetation tomorrow morning? 9 10 CO-FACILITATOR BARB SWEAZEY: Yes. 11 MS. ALLISON STODDART: Oh, okay. 12 CO-FACILITATOR BARB SWEAZEY: We are going to go back. So I don't know if you just want to 13 pause it where we are right now, and we'll open --14 15 open it up again tomorrow morning? Okay. Is -- are you fine with that, CanZinc? Yes? 16 17 Okay. All right. How are we all doing? 18 Okay. All right. So we have on the schedule for -- starting tomorrow morning at 8:30, so we will 19 20 put vegetation on the list first thing, and hopefully 21 we can get through that somewhat quickly so that we 22 can continue on with the other agenda items that are 23 identified on our schedule for tomorrow. 24 Are there any closing comments, 25 remarks, questions that you have?

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Okay. Well with that, thank you very 2 much for your hard work and your participation, and we 3 will see you tomorrow. --- Upon adjourning at 5:12 p.m. Certified by, Bob Keelaghan, Mr.

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