NUNAVUT WATER BOARD

Public Hearing for Licence No. 3AM-ARV1016

Renewal - Amendment Application

HEARING

VOLUME 1

Arviat, Nunavut
May 31, 2022

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6	NUNAVUT WATER BOARD		
7	L. Toomasie	Chair of Hearing	
8	S. Silou	Panel Member	
9	E. Uniuqsaraq	Panel Member	
10			
11	NUNAVUT WATER BOARD STAFF		
12	K. Kharatyan	Director of Technical Services	
13	B. Kogvik	Director of Board Administration	
14		and Communications	
15	R. Dwyer	Manager of Licensing	
16	A. Kubeisinova	Technical Advisor	
17	T. Meadows	Legal Counsel	
18			
19	APPLICANT		
20			
21	HAMLET OF ARVIAT		
22	E. Chalmers	Municipal Planning Officer	
23	M. Lusty	Manager Municipal Works	
24	A. Kadjuk	Director of Community Development	
25			
26			

1	INTERVENORS		
2			
3	CROWN-INDIGENOUS RELATIONS AND NORTHERN AFFAIRS CANADA		
4	A. Keim	Regional Program Director	
5	V. Okonkwo	Senior Environmental	
б		Assessment Specialist	
7			
8	ENVIRONMENT AND CLIMATE CHANGE CANADA		
9	V. Shore	Senior Environmental	
10		Assessment Officer	
11	A. Wilson	Technical Expert, Water Quality	
12	S. Mallon	Environmental Assessment Officer	
13			
14	INTERPRETERS/TRANSLATORS		
15	A. Irkok-Suluk	Language Translator	
16	B. Suluk	Language Translator	
17			
18	A. Vidal, CSR(A), RMR	Official Court Reporter	
19			
20	C. Coomber	Sound Technician	
21			
22			
23			
24			
25			
26			

- 1 (PROCEEDINGS COMMENCED AT 11:19 AM)
- 2 Opening Remarks
- 3 THE CHAIR: Good morning. It's still part
- 4 of the morning but almost at noon. Thank you. Thank
- 5 you for giving us hospitality here in Arviat.
- 6 Good morning and welcome to the public hearing
- 7 associated with an application filed by the Hamlet of
- 8 Arviat via representative, Government of Nunavut,
- 9 Community Government Services, to renew and amend
- 10 its expired Type "A" Water Licence to authorize changes
- 11 to the use of water and deposit of waste associated
- 12 with the Hamlet of Arviat's municipal undertaking.
- 13 My name is Lootie Toomasie, and I am the Chair of
- 14 the Nunavut Water Board and the NWB hearing Chair for
- 15 this public hearing.
- Before we proceed with the hearing, please let us
- 17 begin with prayer. Let us stand and pray.
- 18 Opening Prayer
- 19 THE CHAIR: And on behalf of the Nunavut
- 20 Water Board, I welcome you to the Hamlet of Arviat.
- 21 Now to provide some background and set the stage
- 22 for the hearing, the Nunavut Water Board, which I shall
- 23 refer to as the "Board" or the "NWB", is an institution
- 24 of public government created under Article 13 of
- 25 Nunavut Agreement and Nunavut Waters and Nunavut
- 26 Surface Rights Tribunal Act. The NWB is responsible

- 1 for the use, management, and regulations of freshwater
- 2 in Nunavut settlement area.
- 3 The purpose of this public hearing is to review
- 4 application filed by Government of Nunavut, Community
- 5 and Government Services, on behalf of the Hamlet of
- 6 Arviat -- I may refer to it as "GN-CGS" and "hamlet"
- 7 respectively or the "Applicant" -- to renew and make
- 8 changes to expired Type "A" water licence for the use
- 9 of water and deposit waste associated with municipal
- 10 undertaking at the Hamlet of Arviat.
- 11 The Hamlet of Arviat obtains its water from Wolf
- 12 Creek, located 8 kilometres southwest of the hamlet.
- 13 Sewage is trucked to a sewage lagoon approximately
- 14 2.8 kilometres southwest of the hamlet. Effluent seeps
- 15 at a slow continuous rate through the exfiltration
- 16 lagoon berm and into the wetland treatment area. The
- 17 effluent travels through the wetland treatment area
- 18 towards Hudson Bay, approximately 100 metres from the
- 19 discharge point. The Hamlet of Arviat solid waste
- 20 management facilities consist of a landfill solid --
- 21 waste disposal area -- bulky metals area, and hazardous
- 22 waste storage area.
- 23 As set out in Section 13.3.6 of Nunavut Agreement
- 24 and Section 29 of Nunavut Waters and Nunavut Surface
- 25 Rights Tribunal Act, the Board has delegated its power
- 26 to dispose of all matters related to the processing of

- 1 the application to renew and amend Type "A" Licence
- 2 Number 3AM-ARV1016, including the conduct of this
- 3 public hearing, to a panel of the Board, which is
- 4 referred to as the "Arviat Panel" or "P16 Panel".
- I will be chairing this Panel, and with me today
- 6 as members of the Panel are Board Members Sarah Silou
- 7 on my right, and to my left is Eelai Uniuqsaraq.
- 8 Several staff members who have contributed to
- 9 the NWB's administration and technical review of the
- 10 application are present with legal counsel to the
- 11 Board, and I will introduce individuals in attendance:
- 12 Karen Kharatyan. Sorry, Karen. I never pronounce it
- 13 properly. Your last name, I never ever pronounce that
- 14 properly.
- 15 He's a technical -- director of technical
- 16 services. Ben Kogvik, director of Board administration
- 17 and communications. Richard Dwyer, manager of
- 18 licencing at the back -- down by the front. Also,
- 19 Kubeisinova, technical advisor. And Teresa Meadows
- 20 from Meadows Law, legal counsel to the Board.
- 21 In addition, we have three interpreters available
- 22 for simultaneous interpretation: Ben Kogvik, in-house
- 23 interpreter to the Board; and Bobby Suluk and Angeline
- 24 Irkok-Suluk who are from Arviat.
- 25 For audio support, we have Chris Coomber from PIDO
- 26 Productions. If you experience any difficulties with

- 1 your headset, Chris is able to provide assistance.
- 2 To ensure we have accurate recording -- accurate
- 3 record of the proceedings, we have with us a court
- 4 reporter, Andres Vidal from Dicta Court Reporting
- 5 Incorporated.
- 6 Before I move on to an overview of this
- 7 application and what to expect today during this public
- 8 hearing, we -- there's some important housekeeping
- 9 items for everyone here. First, as indicated earlier,
- 10 there's interpretation available throughout the hearing
- in English and Inuktitut. So the Channel 1 is floor;
- 12 Channel 2 is English; and Channel 3, Inuktitut.
- Secondly, the Board appreciates everyone,
- 14 including Applicant, intervenors, and members of the
- 15 public, sign in on the sheets located at the table as
- 16 you come in. This is an important record of the
- 17 hearing, and we appreciate your help in making sure it
- 18 is complete.
- 19 Thirdly, the agendas for the public hearing and
- 20 community session are available at the desk at the --
- 21 by entrance. Please pick one up and follow along with
- 22 us as we proceed.
- 23 The washrooms are located in the entrance to the
- 24 hall, and the exits are in the front and the back of
- 25 the building and in the entrance to the hall. There
- 26 will be coffee available here in the room in this hall,

- 1 tea and snacks during the break throughout the hearing,
- 2 and you are welcome to help yourself throughout the
- 3 day.
- 4 I will also like to remind everyone to please turn
- 5 off your cell or put it on to silent before we begin.
- 6 Finally, to assist both our court reporter and
- 7 interpreters, please wait to have microphones before
- 8 you speak. Then state your name, speak clearly and
- 9 slowly, and avoid the use of abbreviations. We
- 10 appreciate your assistance in making sure your comments
- 11 are recorded and the Board's record of proceedings are
- 12 accurate and complete.
- I would like to notify participants that the
- 14 media is -- is there media? No. Okay. There's no
- 15 media, so I'll skip this -- the notes here. And CBC is
- 16 not here? No. Okay. Thank you.
- 17 In the past, parties in other proceedings have
- 18 approached the media, if the media happens to get here,
- 19 prior to the release of the Board's decision suggesting
- 20 comments about what the Board is going to do either
- 21 procedurally or in terms of the final result.
- 22 Since the Board cannot comment on pending matters
- 23 either by confirming or denying accuracy of the
- 24 statements by others to the media, the Board asks all
- 25 parties to refrain from making any comments that may
- 26 imply a certain action or decision by the Board.

- 1 Following the close of the record for this public
- 2 hearing, the Board's decisions and recommendations with
- 3 respect to the renewal-amendment application will be
- 4 communicated in a publicly available decision report.
- 5 Until that time, the Board reminds everyone that the
- 6 Panel members and Board staff will not discuss the
- 7 substance of the hearing or the matters before the
- 8 Board with any of the parties or media.
- 9 If you have questions regarding the Board and its
- 10 practice procedures -- or procedures, please speak with
- 11 the director of technical services, and he will assist
- 12 you.
- Prior to identifying and introducing all of the
- 14 parties in attendance today, I will provide a brief
- 15 history of the application, which are before the Board.
- 16 As mentioned earlier, the application which is
- 17 currently before the Board is for renewal-amendment to
- 18 Type "A" Water Licence Number 3AM-ARV1016 requested by
- 19 the hamlet's representative, Government of Nunavut,
- 20 Community and Government Services.
- The scope of the proposed amendments including
- 22 the following: Renewal of expired licence with a new
- 23 term of ten years; increased water use from 86,000 to
- 24 235,393 cubic metres annually from Wolf Creek to meet
- 25 the current and future water demands of the community;
- 26 operation of three already constructed and commissioned

- 1 water storage reservoirs, a water treatment plant, and
- 2 a truck fill station; operation of a solid waste
- 3 disposal facility; operation of and upgrades to the
- 4 existing sewage lagoon; construction of a new sewage
- 5 lagoon.
- 6 And I will now provide a summary of the main
- 7 documents that GN-CGS provided to the Board in support
- 8 of the application to renew and amend the water
- 9 licence.
- 10 The water licence application and various
- 11 attachments for Licence Number 3AM-ARV1016. These
- 12 applications include main application documents,
- 13 executive summary in English and Inuktitut, letter to
- 14 NWB, NPC conformity determinations, NIRB screening
- 15 decision and report, compliance assessment.
- In addition, GN-CGS provided various new and
- 17 updated management plans for the Board and the parties
- 18 to review. GN-CGS also provided updated information
- 19 regarding expansion plans for the site, including the
- 20 engineering's drawings for the constructed
- 21 infrastructure.
- 22 GN-CGS also filed a number of documents in
- 23 response to technical comment submissions from the
- 24 intervenors and the Board. Additional information was
- 25 also submitted to the Board by GN-CGS to fulfill
- 26 commitments made by Applicant during the NWB's

- 1 technical meeting and prehearing conference held for
- 2 the file and on February 22 and 23, 2022.
- 3 Copies of all the materials filed by Applicant in
- 4 support of its renewal-amendment application, as well
- 5 as documents related to the expired licence, are
- 6 available on the NWB's public registry and the FTP
- 7 site.
- 8 In addition, our licence manager, Richard Dwyer,
- 9 can make available for public viewing at this hearing
- 10 the electronic copies of the public registry for this
- 11 application and the key documents for the application
- 12 received to date. If you are interested in reviewing
- 13 any of the documentation, please ask Richard.
- Now I'm going to provide you with a very brief
- 15 overview of key steps in the procedural history of this
- 16 application, and it outlines how we got to this public
- 17 hearing stage.
- On September 16, 2020, the Nunavut Water Board
- 19 received the application and supporting documentation
- 20 from GN-CGS to renew and amend the expired Type "A"
- 21 water licence associated with the Hamlet of Arviat's
- 22 municipal undertaking.
- On December 1, 2021, the Board determined the
- 24 application was complete and issued notice of the
- 25 renewal-amendment application. Crown-Indigenous
- 26 Relations and Northern Affairs, Environment and Climate

- 1 Change Canada, and Fisheries and Oceans Canada provided
- 2 technical review comments on the renewal-amendment
- 3 application by January 25, 2022. GN-CGS filed a
- 4 response to the technical comments of these parties and
- 5 the NWB on February 3 and 7, 2022.
- 6 On February 22 and 23, 2022, the Board conducted
- 7 its technical meeting, community session, and
- 8 prehearing conference by teleconference and
- 9 videoconference.
- 10 On March 21, 2022, the Board released a prehearing
- 11 conference decision that summarized the outcome of the
- 12 technical meeting and prehearing conference held by the
- 13 Board in February. At the same time, the Board also
- 14 released the notice of this public hearing and the list
- of commitments to be fulfilled by Applicant.
- By April 6, 2022, GN-CGS filed submissions
- 17 required to be filed prior to the public hearing to
- 18 meet commitments they made at the technical meeting.
- 19 On May 3, 2022, the Board has received final
- 20 written submissions and presentations about the
- 21 renewal-amendment application from the Crown-Indigenous
- 22 Relations and Northern Affairs and Environment Climate
- 23 Change Canada. GN-CGS also provided its final written
- 24 submissions and presentation materials to the Board as
- 25 well.
- 26 On May 26, 2022, the NWB circulated its final

- 1 agenda for this public hearing. As I mentioned
- 2 earlier, the final agenda, including translated copies,
- 3 are available from the table as you enter the hall if
- 4 you wish to pick one up and follow along.
- 5 Complete details on all procedural steps and all
- 6 submissions received in relation to the
- 7 renewal-amendment application are available on the
- 8 NWB's FTP site. If you have questions or would like to
- 9 see any materials, please see Richard at the table as
- 10 you enter the hall.
- I will now move on to read the list of issues that
- 12 will be discussed at this hearing. This list was
- 13 prepared during the technical meeting and prehearing
- 14 conference: Changes to the scope of the amended
- 15 Type "A" water licence to replace expired licence.
- Operation of existing facilities approved and/or
- 17 constructed under the expired licence, two cells of the
- 18 raw water reservoir, existing sewage lagoon, water
- 19 treatment plant, existing landfill and truck fill
- 20 station.
- 21 Removal of facilities that do not exist:
- 22 Hydrocarbon impacted soil storage and treatment
- 23 facility and new solid waste disposal facility.
- 24 Addition of an additional raw water cell
- 25 commissioned in 2019 in the water reservoir.
- 26 Proposed upgrade/expansion of existing sewage

- 1 lagoon cell and construction of new sewage lagoon cell.
- 2 Term of licence: Ten-year term expired --
- 3 request. Sorry. It's request. Ten-year term
- 4 requested.
- 5 Water use: Increased water use from 86,000 cubic
- 6 metres to 235,393 cubic metres annually to meet the
- 7 current and future water demands of the community.
- 8 Waste disposal: Monthly rather than daily
- 9 estimates of the quantity of waste -- sewage and solid
- 10 waste disposed requested by GN-CGS.
- 11 Inspection program: Removal of the requirement
- 12 for a geotechnical engineer to conduct annual
- 13 inspection of a facility.
- Monitoring program: Removal of the requirement
- 15 for weekly inspection of monitoring program stations;
- 16 removal of the requirement to submit paper copies of
- 17 results and reports; change to effluent limits, CBOD to
- 18 100 milligram per liter and TSS to 120 milligram -- am
- 19 I pronouncing that correct? Okay. Thank you -- a
- 20 liter at the end of the wetland treatment area to meet
- 21 effluent quality limits determined through multiyear
- 22 Nunavut-based lagoon wetland treatment research.
- 23 Relocation of monitoring program station ARV-4
- 24 upon commissioning of new sewage lagoon.
- 25 Changes to the sampling program: Removal of
- 26 acute lethality testing, change sampling from

- 1 May-August to monthly during thawed out conditions,
- 2 removal of the monitoring program stations ARV-7 and
- 3 ARV-8, removal of the monitoring program stations
- 4 ARV-10 and ARV-11 because they do not exist.
- 5 Closer and reclamation planning: Removal of
- 6 prescriptive recommendations regarding reclamation of
- 7 abandoned facilities as facilities may still be reused.
- 8 Potential remediation and then repurposing for
- 9 future expansion of solid waste disposal facility --
- 10 landfill -- or full reclamation of two abandoned
- 11 lagoon cells carrying forward by Part G, Item 3 of the
- 12 Water Licence Number 3AM-ARV1016.
- 13 If there are no concerns, I would like to move
- 14 forward to roll call.
- I will begin with roll call with Applicant, Hamlet
- 16 of Arviat and representative Government of Nunavut,
- 17 Community Government Services. Can you please
- 18 introduce your participants.
- 19 Roll Call
- 20 MS. CHALMERS: Thank you.
- 21 My name is Elan Chalmers. I'm from GN-CGS and
- 22 with me is Megan Lusty who is also from GN-CGS. Thank
- 23 you. We also have Amber Kadjuk representing the
- 24 municipality. She will be returning after lunch.
- 25 THE CHAIR: Thank you.
- 26 I will now move -- go to intervening parties,

- 1 Crown-Indigenous and Northern Affairs, and then after
- 2 that, it will be Canada and Climate Change Canada --
- 3 sorry -- Environment Climate Change Canada.
- 4 We'll start with Crown-Indigenous and Northern
- 5 Affairs. Go ahead.
- 6 MR. KEIM: Qujannamiik, Iksivauta. It's
- 7 Andrew Keim from CIRNAC.
- 8 And I have with me Vincent Okonkwo, our senior
- 9 environmental analyst.
- 10 THE CHAIR: Okay. Thank you.
- 11 And then Environment and Climate Change Canada.
- 12 MS. SHORE: Thank you.
- 13 I am Victoria Shore, a senior environmental
- 14 assessment officer with Environment and Climate Change
- 15 Canada. Also online we have Anne Wilson, team lead for
- 16 water quality expertise, and Stephinie Mallon as the
- 17 environmental assessment officer. Thank you.
- 18 THE CHAIR: Thank you.
- 19 If there are any intervenors that I have not
- 20 mentioned who would like to speak, please identify
- 21 yourself. I didn't hear a response. I'll move on.
- 22 On Item 5, if there is -- it is our tradition to
- 23 give respect to our Elders. Therefore, at any given
- 24 time during the proceedings, an Elder may speak to the
- 25 Applicant that are before the Board. All that we ask
- 26 is that when the Elder wishes to speak, that they let

- 1 me or our staff know, and then we can get the
- 2 microphone to you before you speak so we can ensure
- 3 your comments are recorded in the transcripts.
- I would now like to know whether there are any
- 5 representatives from agencies, associations, et cetera,
- 6 who have not submitted interventions but would like to
- 7 make presentation or make -- or share their views about
- 8 the renewal-amendment application.
- 9 Are there any members of the general public who
- 10 would like to make a formal request to make a
- 11 presentation or speak to the Board during this public
- 12 hearing? I also want to mention that the Board will
- 13 also give opportunities to any members of the public
- 14 who may have questions for GN-CGS or the intervenors
- 15 throughout the hearing to ask their questions or make
- 16 comments at the end of the technical presentations of
- 17 each party and during the community session that will
- 18 be taking place tonight at 6 PM.
- 19 I will now turn to the identification of any
- 20 motions or any objection to the amendment application
- 21 that are before the Board. Okay. We are now expecting
- 22 that a motion will be put forward. We continue.
- We will now proceed with Item 8 of the agenda,
- 24 presentation by the Applicant. On the Item 8, the
- 25 Applicant is requested to make a brief presentation on
- the renewal amendment application before the Board.

- Okay. Applicant, how much time will you and your
- 2 representative require?
- 3 Teresa, can you please swear or affirm the
- 4 witnesses. Go ahead.
- 5 MS. MEADOWS: Thank you, Mr. Chair. Teresa
- 6 Meadows, legal counsel for the Nunavut Water Board.
- 7 Mr. Chair, perhaps I can suggest that we will
- 8 swear the -- or affirm the witnesses and do some
- 9 procedural matters, get their presentation materials on
- 10 the record, that sort of thing, and then perhaps it's
- 11 time for a break for lunch given that we are coming up
- 12 on noon local time, Mr. Chair.
- 13 THE CHAIR: Okay. Thank you. Thank you
- 14 for your suggestion.
- 15 Yeah. We take a lunch for now, and then the
- 16 Applicant will start after the break of lunch. Thank
- 17 you.
- 18 Teresa, go ahead.
- 19 MS. MEADOWS: Thank you, Mr. Chair.
- 20 So I'll just do the procedural matters quickly
- 21 first so that you're all sworn in and ready to go when
- 22 we come back. So if I can have the witnesses state and
- 23 spell your name for the record, please.
- 24 MR. CHALMERS: Elan Chalmers. The first name
- 25 is E-L-A-N. Last name is Chalmers, C-H-A-L-M-E-R-S.
- 26 Thank you.

- 1 MS. LUSTY: And Megan Lusty. First name
- 2 M-E-G-A-N. Last name L-U-S-T-Y. Thank you.
- 3 MS. MEADOWS: Thank you. Teresa Meadows,
- 4 legal counsel for the Nunavut Water Board.
- 5 So if I can have each of the witnesses state "I so
- 6 affirm" after I administer the oath.
- 7 ELAN CHALMERS and MEGAN LUSTY, Affirmed
- 8 MS. MEADOWS: Teresa Meadows, legal counsel
- 9 for the Nunavut Water Board.
- 10 So, Mr. Chair, I have three presentation materials
- 11 in English, Inuktitut, and French that are the
- 12 presentation materials I understand that the Government
- of Nunavut, Community and Government Services, will be
- 14 presenting.
- And if I can just confirm with the representatives
- 16 from the Government of Nunavut CGS that I can file
- 17 those exhibits as the first three exhibits in the
- 18 public hearing, Mr. Chair.
- 19 THE CHAIR: Thank you. So we'll take a
- 20 break now or -- okay. Sorry about that. Go ahead.
- 21 MS. LUSTY: Megan Lusty.
- 22 Yes. Confirmed. Please file those presentations.
- 23 EXHIBIT 1 Hard Copy, PowerPoint
- 24 Presentation, Nunavut Water Board Public
- 25 Meeting, Water Licence Renewal and Amendment
- 26 Arviat 3AM-ARV---- (English)

- 1 EXHIBIT 2 Hard Copy, PowerPoint
- 2 Presentation, Nunavut Water Board Public
- Meeting, Water Licence Renewal and Amendment
- 4 Arviat 3AM-ARV--- (Inuktitut)
- 5 EXHIBIT 3 Hard Copy, PowerPoint
- 6 Presentation, Nunavut Water Board Public
- 7 Meeting, Water Licence Renewal and Amendment
- 8 Arviat 3AM-ARV---- (French)
- 9 MS. MEADOWS: Thank you, Mr. Chair.
- 10 Those are my procedural matters. I realize I'm
- 11 standing between everyone and lunch. So I am finished.
- 12 Thank you.
- 13 THE CHAIR: Yeah. I'm moving ahead too
- 14 fast. Sorry about that. Okay.
- 15 MS. MEADOWS: Mr. Chair, if you can maybe
- 16 specify for the people on the call when we will be
- 17 reconvening, and I'm just sort of looking over my
- 18 shoulder to the sound people that the link that was
- 19 sent out can -- will continue to be the link for
- 20 everyone to sign back in this afternoon.
- 21 So perhaps -- given that we are about 15 minutes
- 22 after the hour, perhaps an hour or hour and fifteen.
- 23 THE CHAIR: Okay. Yeah. That's a good
- 24 suggestion. So we can come back at 1:15 -- well,
- 25 1:00 but all these technical is easier -- hard to put
- 26 in place. So we'll start at -- actually, starting at

1 1:15. 2 MS. MEADOWS: Thank you, Mr. Chair. 3 So that's 1:15 Central Time, and people who are on 4 the -- online can sign back in via the link that we 5 sent out with the agenda. Thank you, Mr. Chair. 6 THE CHAIR: Thank you. Okay. Take a 7 break now for lunch. 8 9 (PROCEEDINGS ADJOURNED UNTIL 1:15 PM) 10 11 (PROCEEDINGS RECOMMENCED AT 1:17 PM) 12 THE CHAIR: Okay. Good afternoon. proceed or reconvene from the lunch break. So we have 13 14 Applicant who have the presentation put in place. Go ahead, Applicant. 15 Presentation by Applicant, Hamlet of Arviat 16 17 MS. CHALMERS: Thank you. Elan Chalmers, 18 CGS. Will NWB be sharing the presentations, or how will 19 20 that be working? Thank you. 21 (DISCUSSION OFF THE RECORD) 22 THE CHAIR: Okay. Applicant, you may go 23 ahead now. Thank you. Elan Chalmers, 24 MR. CHALMERS: 25 CGS.

This presentation is on behalf of the municipality

26

- 1 of Arviat for the renewal and amendment of their
- 2 municipal water licence. I will begin with a summary
- 3 of the existing licence.
- 4 Since the licence expired in 2016, the
- 5 municipality continued to work towards compliance with
- 6 the terms and conditions within the licence. This
- 7 includes submitting annual reports; making major
- 8 improvements to the solid waste site, including the use
- 9 of a metal shredder; and carrying out monitoring
- 10 program sampling as well as participating in CIRNAC
- 11 inspections.
- 12 Several projects that impact this licence have
- 13 also been undertaken by CGS on behalf of the
- 14 municipality, including an additional raw water
- 15 reservoir cell, a preliminary design to upgrade and
- 16 expand the sewage lagoon, and preliminary work to
- 17 improve the compliance and extend the useful life of
- 18 the current landfill.
- 19 This Google Earth image shows the current water
- 20 and waste infrastructure in Arviat. Each summer, water
- 21 is pumped from Wolf Creek through an 8-kilometre pipe
- 22 to a three-cell reservoir which has a combined capacity
- 23 of 235,000 cubic metres to supply the community over
- 24 the winter. The cells have been constructed in phases
- 25 as the community grows since 1988.
- 26 A hydrology study of Wolf Creek was undertaken in

- 1 2019 which confirmed that there was sufficient water to
- 2 supply the community while only diverting .2 percent of
- 3 flow, which is below the 10 percent maximum allowable
- 4 by Fisheries and Oceans Canada.
- 5 The active lagoon has been in use since 2005. It
- 6 was designed to allow passive flow of effluent into the
- 7 wetland treatment area in the summer. But in recent
- 8 years, it requires emergency decant in the spring
- 9 because it is undersized. Planning and preliminary
- 10 design for a new lagoon sized for 12 months and to hold
- 11 20 years of sludge is complete with detailed design
- 12 expected to begin in -- within the next few weeks.
- 13 Under this contract, the wetland will be assessed
- 14 to determine the hydrological behaviour and to
- 15 determine the appropriate location for the compliance
- 16 point. There are also two abandoned lagoon cells that
- 17 will be assessed this summer to determine if they can
- 18 be repurposed for the solid waste site.
- 19 The landfill has been in use since 1977, and there
- 20 is a second area used for metal waste disposal. In
- 21 2014, the environmental services group Summerhill
- 22 trained local staff to properly depollute legacy
- 23 metals. With the training that the community received,
- 24 they continued to depollute metals and also purchased a
- 25 metal shredder in 2017 to shred and repurpose the metal
- 26 as cover material, which has significantly increased

- 1 the capacity at the landfill.
- 2 Additionally, the hamlet runs a summer cleanup
- 3 program each year. There is also an ongoing solid
- 4 waste improvement project being funded by and managed
- 5 by CGS. The project will improve compliance, extend
- 6 capacity, and assess the abandoned lagoon cells to
- 7 determine if they are suitable to be upgraded to accept
- 8 solid waste.
- 9 For the sampling program, the licence holder is
- 10 requesting to make several modifications, including
- 11 using the correct name for the water source, removing
- 12 acute lethality testing, and changing the frequency to
- 13 monthly during periods of flow rather than identifying
- 14 specific months.
- The licencee is also requesting that ARV-7 be
- 16 removed since the hydrology study indicated that there
- is an excess of water at Wolf Creek available for the
- 18 annual resupply.
- 19 The licencee is requesting to remove ARV-8 since
- 20 this is inconsistent with other municipal water
- 21 licences. Typically, the lagoon is inspected and
- 22 assessed for its ability to maintain 1 metre of
- 23 freeboard rather than doing a depth measurement. For
- 24 ARV-10 and ARV-11, they should be removed since this
- 25 contaminated soil facility was never constructed.
- Now I will go through the comments received during

- 1 the technical review phase. The first comment is about
- 2 the compliance point at ARV-4. The wetland treatment
- 3 area assessment will take place this summer that will
- 4 determine the recommended location for the compliance
- 5 point at the outlet in advance of constructing the new
- 6 lagoon. The licencee is, however, requesting to amend
- 7 the effluent quality limits.
- 8 The second comment is about project timelines for
- 9 the lagoon and the solid waste projects. CGS submitted
- 10 updated project timelines to NWB as committed on
- 11 April 5th with further clarification in the final
- 12 response letter on May 3rd.
- The third comment is about developing an
- 14 abandonment and restoration plan for the landfill. The
- 15 current landfill will not be closed within the term of
- 16 the new licence, and then, therefore, a plan is not
- 17 necessary at this time. The ongoing solid waste
- 18 project in Arviat intends on making the current
- 19 landfill useful for at least another 20 years. This is
- 20 expected to include expansion into the abandoned lagoon
- 21 cells if possible.
- The fourth comment is about desludging the active
- 23 lagoon. Through discussions with CIRNAC, the CIRNAC
- 24 inspector, it was determined that since the lagoon will
- 25 be desludged as part of the upgrade project beginning
- 26 in 2024, desludging at this time is not necessary. The

- 1 new lagoon will be sized to accommodate 20 years of
- 2 sludge, but the operations and maintenance plan will
- 3 still include an assessment and disposal techniques in
- 4 the event that desludging is required.
- 5 The fifth comment is about additional monitoring
- 6 stations. The licencee agrees that a monitoring
- 7 station sampling effluent discharging from the lagoon
- 8 should be included in the licence to monitor treatment
- 9 but should not be used as a compliance point.
- 10 The final comment from ECCC was about the absence
- 11 of duplicate sampling information in the QA/QC plan.
- 12 This has since been revised and resubmitted to the NWB.
- 13 For CIRNAC, the first comment was about the
- 14 capacity at the current landfill. The municipality
- 15 began shredding depolluted metal in 2017 and
- 16 repurposing it as cover material, which has drastically
- increased the capacity at the landfill and the metal
- 18 waste site. There is also an ongoing capital project
- 19 being managed by CGS to improve the compliance and
- 20 capacity at the current site.
- 21 The second comment was about the lagoon design
- 22 parameters and how the lagoon alone would achieve
- 23 treatment objectives. Only part of the treatment is
- 24 achieved through the lagoon with a significant
- 25 reduction of contaminants coming from the wetland
- 26 treatment area. The new lagoon will be impermeable to

- 1 hold effluent until vegetation in the wetland has had
- 2 time to develop, which is a significant improvement on
- 3 the existing facility. The pump-out will occur below
- 4 the 2,500-cubic-metre-per-day limit to optimize
- 5 residency time in the wetland and preserve the health
- 6 of the final receiving environment.
- 7 The third comment from CIRNAC was in regard to the
- 8 error in the sewage facility operations and maintenance
- 9 plan. This has since been revised and resubmitted to
- 10 NWB.
- 11 The fourth comment from CIRNAC was about how
- 12 potential leaks would be managed. The new lagoon will
- 13 use the same wetland and effluent treatment area --
- 14 sorry. Pardon me. So a leak would travel into the
- 15 current wetland area since this area will be reused.
- 16 The detailed designed is expected to include a
- 17 subsurface drainage system as well to capture leaks as
- 18 an additional barrier. If leaks are detected, repairs
- 19 to the liner will be initiated.
- The fifth comment is about the removal of inactive
- 21 monitoring stations. The licencee is requesting to
- 22 remove ARV-10 and 11 since the impacted soil facility
- 23 was never constructed and these stations do not exist.
- The final comment from CIRNAC is about sludge
- 25 removal. The new lagoon will be sized to hold sludge
- 26 for 20 years. However, the new operation and

- 1 maintenance plan will include a sludge management plan
- 2 if the sludge should accumulate more rapidly.
- 3 We received one comment from DFO, Department of
- 4 Fisheries and Oceans. Their comment was about the fish
- 5 screen at Wolf Creek where water is withdrawn. This
- 6 will be investigated further this summer once it's
- 7 accessible, and if the screen does not meet the
- 8 requirements, actions will be initiated to replace it.
- 9 Finally, I will summarize the amendment requests
- 10 on the next few slides. The licencee is requesting a
- 11 ten-year licence term with a maximum annual withdrawal
- 12 that matches the capacity of the raw water reservoirs.
- 13 The consumption by the community is not expected to
- 14 exceed this in the next ten years.
- 15 As mentioned earlier, several changes are being
- 16 requested for the sampling monitoring program. The
- 17 licencee is requesting to change the effluent quality
- 18 limits to CBOD/TSS 100/120 milligrams per liter, which
- 19 is in line with the Nunavut-based lagoon wetland
- 20 research.
- 21 The licencee is also requesting to remove the
- 22 language around the soil treatment facilities since
- 23 this was never constructed. The licencee is requesting
- 24 to remove the requirement for an annual dam safety
- 25 inspection by a geotechnical engineer. Since this does
- 26 not match the relevant quidelines, the licencee is also

- 1 requesting to remove prescriptive language on how to
- 2 carry over remediation activities since this would be
- 3 decided by a professional engineer.
- 4 As assessed earlier, the licencee is requesting to
- 5 remove ARV-8 and ARV-9 since there are more practical
- 6 means to monitor these factors. The licencee is
- 7 requesting to remove the requirement for a weekly
- 8 inspection report and to change the language of
- 9 sampling frequency to reflect when flow is actually
- 10 observed.
- 11 Finally, the licencee is requesting to remove
- 12 acute lethality testing as well as the requirement to
- 13 submit paper documents. That is the end of our
- 14 presentation. Thank you very much.
- 15 THE CHAIR: Thank you, Applicant, for your
- 16 presentation.
- 17 I now open up for questions. I'd like to start
- 18 with Crown-Indigenous and Northern Affairs. If you
- 19 have any questions to the Applicant's presentation, you
- 20 may go ahead.
- 21 Questioning of Applicant, Hamlet of Arviat
- 22 MR. OKONKWO: My name is Vincent Okonkwo,
- 23 senior environmental specialist, Crown-Indigenous
- 24 Relations and Northern Affairs Canada.
- 25 CIRNAC has no questions at this time.
- 26 THE CHAIR: Okay. Thank you.

- 1 Sometimes it's kind of difficult to understand
- 2 what's going on without face -- in -- person not in
- 3 person. So it's okay, but okay. Move on.
- 4 Next intervenor, Environment and Climate Change
- 5 Canada. If you have any questions to the Applicant,
- 6 their presentation, you may go ahead.
- 7 MS. WILSON: Thanks very much. It's Anne
- 8 Wilson with ECCC. And I certainly wish I was in the
- 9 room with everyone. It's nice to see you all on-screen
- 10 nonetheless.
- I have a question about the closure planning.
- 12 When we were at the technical meeting, CGS agreed to a
- 13 path forward of outlining the timing to develop a
- 14 closure plan for the facilities. And in the old
- 15 licence, the trigger is the actual date of closure.
- 16 Six months before that is when the plans would have to
- 17 be submitted.
- 18 And I'm thinking of the case of the old lagoon
- 19 cells, that they're proposing to decide whether or not
- 20 they can be repurposed, and then there would be a
- 21 one-year time frame before -- that acts as a trigger
- 22 for having to submit their closure plan.
- 23 So our concern raised in our comments was just
- 24 whether there would be sufficient time in closure
- 25 planning to do any needed studies or advanced work
- 26 prior to the actual closure itself.

- 1 So my question is -- and sorry for the
- 2 wordiness -- what is CGS thinking about timing for
- 3 triggering submission of a final closure plan, or are
- 4 they open to, as somewhat discussed previously,
- 5 submitting an interim closure plan that would then just
- 6 outline the path forward? Thanks.
- 7 MR. CHALMERS: Elan Chalmers, GN-CGS. Thank
- 8 you for your question, Anne.
- 9 So we're proceeding with an assessment of the
- 10 lagoons imminently within the next two months or so.
- 11 So we should have an answer on whether those lagoon
- 12 cells can be repurposed by the fall.
- But acknowledging that that wouldn't include a
- 14 closure plan, with the lagoon contract that we've also
- 15 put out and have awarded this week, that includes a
- 16 provisional item of developing an abandonment and
- 17 restoration plan for those lagoons should they not be
- 18 suitable for reuse.
- 19 So we could provide that, if necessary, by the end
- 20 of the fiscal year, so March 2023. Thank you.
- 21 THE CHAIR: Thank you.
- 22 Any more questions from Environment and Climate
- 23 Change Canada?
- 24 MS. WILSON: Anne Wilson, ECCC. I think
- 25 that covers things. Thanks very much.
- 26 THE CHAIR: Thank you. Thank you for your

- 1 questions.
- Number 1 in our agenda, do any members of the
- 3 public have any questions for the Applicant about the
- 4 renewal-amendment application? Okay. There's none.
- 5 Item 10. Now we turn to Item 10 in our agenda.
- 6 Do the Board staff have any questions to the Applicant?
- 7 Karen, go ahead.
- 8 MR. KHARATYAN: Karen Kharatyan, Water Board.
- 9 Thank you, Mr. Chair. I will start with a few
- 10 clarifications requested. Then I also may continue
- 11 with questions.
- 12 The first is with respect to ARV Number 4
- monitoring station, just to clarify that GN-CGS doesn't
- 14 request to change the description but just the
- 15 geographical location once these wetland treatment --
- 16 or wetland assessment is done.
- 17 MR. CHALMERS: Elan Chalmers, GN-CGS.
- 18 Yes. That's correct. Thank you.
- 19 MR. KHARATYAN: Karen Kharatyan, Water Board.
- 20 Thank you.
- 21 The next clarification, yes, I would like to hear
- 22 is with respect to upgrade of -- upgrade to sewage
- 23 lagoon and the future construction of a new cell,
- 24 whether GN-CGS or Applicant expect to have enhanced
- 25 treatment of sewage after upgrades or after even
- 26 construction of new cell.

- 1 MR. CHALMERS: Elan Chalmers, GN-CGS.
- 2 Yes. There will be enhanced treatment. So with
- 3 the current lagoon, the effluent is either pumped out
- 4 in the spring before it's had a chance to biodegrade
- 5 within the lagoon, and then it's subject to a large
- 6 amount of dilution.
- 7 So there is not a lot of treatment that's actually
- 8 happening currently. It's just being diluted and moved
- 9 quickly through the wetland treatment area. So with
- 10 the new design, it will be held until the end of
- 11 summer when the wetland treatment area has had a chance
- 12 to develop its vegetation and that it will be slowly
- 13 released there and have an opportunity to biodegrade
- 14 properly. Thank you.
- 15 MR. KHARATYAN: Thank you. Karen Kharatyan,
- 16 Water Board.
- 17 In that case, yes, thank you for clarification or
- 18 for your feedback. I'm just wondering if GN-CGS
- 19 expects some improvement of sewage quality. Why do you
- 20 think you will not be able to meet the existing
- 21 criteria at the final discharge point? Why GN-CGS is
- 22 requesting to change the criteria?
- 23 MR. CHALMERS: Elan Chalmers, GN-CGS.
- 24 Currently, the effluent is being diluted, which is
- 25 why the levels are so low. So if -- so dilution is not
- 26 treatment. And moving forward, the effluent that will

- 1 be pumped out will be more concentrated, but it will
- 2 have an opportunity to have treatment within the
- 3 wetland treatment area.
- 4 Plus, we have also commissioned extensive waste
- 5 water research within Nunavut, and the level of 100/120
- 6 for CBOD/TSS can be consistently met by this type of
- 7 treatment while preserving the health of the receiving
- 8 environment. So we would also like to standardize this
- 9 type of facility to have the same treatment parameters
- 10 across the territory. Thank you.
- 11 MR. KHARATYAN: Thank you, Karen Kharatyan,
- 12 Water Board.
- Just for your information -- or you may know that
- 14 this criteria is from site to -- on the basis of site.
- 15 So I am not sure how we can standardize the criteria
- 16 from one community to another community. Yes. Yeah.
- 17 You know which guideline Water Board is using, so these
- 18 limits are a factor of receiving environment and waste
- 19 water quantity generated, yes, or discharge per day.
- 20 And, again, let me -- maybe, to state that, as you
- 21 mentioned, wetland assessment will be conducted this
- 22 summer. So I am just assuming you are not a hundred
- 23 percent sure whether your wetland feel -- or may
- 24 potentially allow to treat the sewage at the level that
- 25 is in compliance with the current limits.
- 26 MR. CHALMERS: Elan Chalmers, GN-CGS.

- 1 So as part of the wetland assessment, they will be
- 2 assessing to see if the wetland can meet that 100/120,
- 3 and should it not be able to, they will recommend
- 4 modifications to the wetland to be able to meet those
- 5 levels. Thank you.
- 6 MR. KHARATYAN: Thank you. Karen Kharatyan,
- 7 Water Board.
- 8 I'm just wondering about the timing of this study
- 9 like you mentioned in summary -- in summer to 2022,
- 10 whether NWB may expect a result of report after this
- 11 study and when we may expect this.
- 12 MS. CHALMERS: Elan Chalmers, GN-CGS.
- So internally we expect the results by the fall,
- 14 but I wouldn't expect to submit the report until the
- 15 end of the fiscal year, so March 2023. Thank you.
- 16 MR. KHARATYAN: Thank you. Karen Kharatyan,
- 17 Water Board.
- 18 Last clarification requested with respect to Slide
- 19 Number 29, when you mentioned about one amendment
- 20 requested eliminating requirement for geotechnical
- 21 inspection -- annual geotechnical inspection. I'm just
- 22 wondering about the alternative that GN-CGS may propose
- 23 instead of annual geotechnical inspection.
- 24 MR. CHALMERS: Elan Chalmers, GN-CGS.
- So, unfortunately, the municipality, nor CGS, has
- 26 any staff members that are trained to do a dam safety

- 1 inspection. This is not part of a traditional
- 2 engineering education. This is something that you
- 3 would have to seek out on your own to supplement the
- 4 education you receive as an engineer. So none of us
- 5 are qualified.
- I have a civil engineering degree. I am not
- 7 qualified to do that type of thing, and I don't think
- 8 it's a fair burden to expect the municipality to hire a
- 9 geotechnical engineer to do a dam safety inspection.
- 10 Furthermore, the licence was issued in 2010, and
- 11 at the time, the guidelines for dam safety had been
- 12 published in 2007. And since then, there has been a
- 13 revision in 2013, and the types of structures, the
- 14 municipalities generally do not require an annual
- 15 inspection. So I would recommend removing this clause
- 16 completely. Thank you.
- 17 MR. KHARATYAN: Karen Kharatyan, Water Board.
- Just to clarify, removing geotechnical inspection
- 19 completely or inspection completely?
- 20 MR. CHALMERS: Elan Chalmers, GN-CGS.
- I would change the language to have a geotechnical
- 22 inspection, a dam safety inspection, to be required in
- 23 the incident that an issue was observed.
- So, for example, we've had to commission two of
- 25 these type of reports in the last five years when a
- 26 leak was identified by hamlet staff. And in that case,

- 1 we would bring in a third party to do this type of
- 2 inspection to identify our next steps.
- 3 So this -- other than having the hamlet staff
- 4 routinely inspecting and the CGS staff just routinely
- 5 participating in inspections, a geotechnical
- 6 investigation should really just be commissioned on an
- 7 as-needed basis because they are quite expensive, and
- 8 they do require quite a large level of expertise
- 9 that -- many of the consultant firms that we work with
- 10 don't even have those type of staff members on board
- 11 already. So it's not a common thing that's available
- 12 to us at this time. So thank you.
- 13 MR. KHARATYAN: Karen Kharatyan, Water Board.
- Just to clarify, so the GN-CGS expect that hamlet
- 15 staff identifying any issues may be more valuable than
- 16 engineer identifying any issues?
- 17 MR. KHARATYAN: Elan Chalmers, GN-CGS.
- 18 Yes. The hamlet staff is more intimately
- 19 knowledgeable about their own infrastructure than a CGS
- 20 engineer that comes once or twice a year. I think you
- 21 need to believe in the fact that they understand their
- 22 infrastructure, and they would absolutely be able to
- 23 identify something that was happening out of the norm
- 24 such as a leak. Thank you.
- 25 MR. KHARATYAN: Karen Kharatyan, Water Board.
- 26 Thank you.

- I am not very convinced about this. Just to
- 2 clarify, do you have any professional engineer in
- 3 the -- working for the hamlet, or no?
- 4 MR. CHALMERS: Elan Chalmers, GN-CGS.
- 5 There is no municipality currently other than the
- 6 City of Iqaluit, which we do not work with, that has a
- 7 professional engineer on staff. Thank you.
- 8 MR. KHARATYAN: Thank you.
- 9 I am okay for now, Mr. Chair, but I also may have
- 10 additional questions. Thank you.
- 11 MS. KUBEISINOVA: Thank you, Mr. Chair. Assol
- 12 Kubeisinova, Nunavut Water Board.
- I have no questions.
- 14 THE CHAIR: Okay. Thank you.
- 15 Thank you for your presentation and the
- 16 questioning here.
- 17 Okay. I think we are ready to move on with the
- 18 agenda. Item 11 in agenda, presentations by
- 19 Crown-Indigenous and Northern Affairs.
- 20 So, Teresa, you may proceed with the -- proceed to
- 21 matters with CIRNAC presentation. Go ahead.
- 22 MS. MEADOWS: Thank you, Mr. Chair. Teresa
- 23 Meadows, legal counsel for the Nunavut Water Board.
- I just wonder whether or not the Panel had any
- 25 questions for Government of Nunavut, Community and
- 26 Government Services, and then I'll move on to

- 1 procedural matters, Mr. Chair.
- 2 THE CHAIR: Okay. Thank you.
- 3 Panel members, do you have any questions,
- 4 comments?
- 5 MS. SILOU: Sara Silou, Nunavut Water
- 6 Board Panel.
- 7 I do not have any questions at the moment. Thank
- 8 you, Mr. Chair.
- 9 THE CHAIR: Eelai?
- 10 MS. UNIUQSARAQ: Eelai Uniuqsaraq.
- 11 I do not have any questions at this time. Thank
- 12 you.
- 13 THE CHAIR: Yeah. Thank you.
- 14 Yeah. The staff are currently mentioning that the
- inspectors are not in place. So, yeah, that will
- 16 probably be a question for quite a while, I guess. So
- 17 unless you could -- CGS get proper professional
- 18 inspector put in place. So thank you.
- 19 MS. MEADOWS: Thank you, Mr. Chair. Teresa
- 20 Meadows, legal counsel for the Nunavut Water Board.
- 21 So, Mr. Chair, the next item in the agenda is the
- 22 presentation by Crown-Indigenous Relations and Northern
- 23 Affairs Canada, and they are not present in the room.
- 24 So when I go to -- when we go to their Zoom link, what
- 25 I'll ask them to do is state and spell their name for
- 26 the record.

- 1 And I will administer the oath now, and when you
- 2 come on to the line, if you can confirm that you affirm
- 3 in the same language as the "I so affirm". Give your
- 4 name and say "I so affirm".
- 5 And I also have one copy, a hard copy, of the
- 6 presentation materials from Crown-Indigenous Relations
- 7 and Northern Affairs Canada, and I will mark that as
- 8 the next exhibit in the public hearing.
- 9 EXHIBIT 4 Hard Copy, PowerPoint
- 10 Presentation, Hamlet of Arviat Renewal
- 11 Application for Type "A" Water Licence
- 12 3AM-ARV---, Nunavut Water Board Public
- Hearing May 31-June 2, 2022 (English)
- 14 ANDREW KEIM and VINCENT OKONKWO, Affirmed
- 15 MS. MEADOWS: Thank you.
- 16 If I could have the witnesses spell their names
- 17 for the record, please. Thank you.
- 18 MR. OKONKWO: Thank you.
- 19 My name is V-I-N-C-E-N-T O-K-O-N-K-W-O.
- 20 MR. KEIM: I apologize, Teresa. I missed
- 21 that part. Once again, it's Andrew Keim with CIRNAC.
- 22 And that's A-N-D-R-E-W and K-E-I-M. Thank you.
- 23 MS. MEADOWS: So, Mr. Keim, I believe that
- 24 we have your presentation here in the slide deck, and
- 25 so we can share it if you want to proceed, and then
- 26 just advise the technician here, and they will be able

- 1 to advance the slides for you.
- 2 MR. KEIM: Okay. I believe Vincent -- I
- 3 believe Vincent's doing the presentation. I'm just
- 4 here with him, but either one is fine.
- 5 MS. MEADOWS: So you can begin whenever you
- 6 see the presentation on your shared screen. We're just
- 7 bringing it up now.
- 8 Thank you, Mr. Chair. Those are my procedural
- 9 matters.
- 10 THE CHAIR: Thank you.
- 11 So, Crown-Indigenous, go ahead with your
- 12 presentation.
- 13 Presentation by Crown-Indigenous Relations and Northern
- 14 Affairs Canada
- 15 MR. OKONKWO: Okay. Thank you, everyone.
- 16 Crown-Indigenous Relations and Northern Affairs
- 17 Canada, herein referred to as the "department", would
- 18 like to thank the Nunavut Water Board for organizing
- 19 this public hearing and giving us the opportunity to
- 20 present the -- CIRNAC's position on the application to
- 21 renew and amend Type "A" water licence 3AM-ARV
- 22 submitted by the Government of Nunavut department of
- 23 community services for the Hamlet of Arviat.
- 24 My name is Vincent Okonkwo, senior environmental
- 25 assessment specialist. Joining me is Andrew Keim,
- 26 manager of water resources.

- 1 Slide Number 2, please. This presentation will go
- 2 in this order: We will begin with the department's
- 3 roles and responsibilities and the department's
- 4 contributions to the water licence review. We will
- 5 then go through each of the technical review comments
- 6 that the department submitted to the Nunavut Water
- 7 Board during the technical review stage. CIRNAC
- 8 submitted six technical review comments with a total of
- 9 six recommendations on January 20, 2020.
- 10 Then we will then wrap up the presentation with a
- 11 summary of the status of all recommendations and the
- 12 proposed next steps to fully resolve the department
- 13 concerns. We will then open the floor for questions.
- 14 Side Number 3. Crown-Indigenous Relations and
- 15 Northern Affairs Canada is a regulatory intervenor.
- 16 The water resources division works to conserve,
- 17 protect, and increase understanding of Nunavut water
- 18 resources; provides advice to the Nunavut Water
- 19 Board on matters of water licence under Article 13 of
- 20 the Nunavut Land Claim Agreement; supports water
- 21 planning and policy development; and develops water
- 22 monitoring programs in Nunavut.
- The department's responsibilities, mandate, and
- 24 obligations are in alignment with the following:
- 25 Crown-Indigenous Relations of Northern Affairs Act, the
- 26 Nunavut Agreement, the Nunavut Land Claim Agreement

- 1 Act, the Nunavut Waters and the Nunavut Surface Rights
- 2 Tribunal Act and the associated regulations, Nunavut
- 3 Planning and Project Assessment Act, Arctic Waters
- 4 Pollution Preventions Act, and the Territorial Lands
- 5 Act and the associated regulations.
- 6 Slide Number 4. As the Nunavut Water Board has
- 7 explained in the introduction and the application
- 8 history, the GN-CGS on behalf of the Hamlet of Arviat
- 9 provided the Nunavut Water Board with a
- 10 renewal-amendment application and supporting document
- 11 for Type "A" Water Licence Number 3AM-ARV1016 on
- 12 September 17, 2020. The renewal-amendment application
- 13 sought the authorization to increase the annual
- 14 withdrawal limits allowable in the current licence from
- 15 86,000 cubic metres to 235,393 cubic metres of water
- 16 from Wolf Creek.
- 17 Following the recommendation by the -- Environment
- 18 and Climate Change Canada during the completeness check
- 19 that the process be suspended until feasibility studies
- 20 for the solid waste and the sewage lagoon facilities
- 21 are provided, the Nunavut Water Board deferred further
- 22 review -- review process on November 20th, 2020.
- The water licence renewal amendment process was
- 24 paused in April 2021 following the licencee's request
- 25 in order to undergo screening by Nunavut Impact Review
- 26 Board for additional activities in the scope of

- 1 application. This screening was completed on
- 2 August 17, 2021, and determined that further impact
- 3 assessment review is not required.
- 4 On November 19, 2021, supplemental information
- 5 from -- was received, and GN-CGS requested on behalf of
- 6 the Hamlet of Arviat an update to the water licence
- 7 renewal-amendment application to include, Number 1, an
- 8 upgrade and expansion of the existing water treatment
- 9 facility and amendment of the effluent limits at the
- 10 final effluent discharge point, ARV Number 4 of the
- 11 wetland treatment area.
- 12 The completeness check of the renewal-amendment
- 13 application resumed on November 22nd, 2021. The
- 14 application has undergone a completeness check, and the
- 15 technical review comment was submitted on January 20th,
- 16 2022. All information requests has been resolved. We
- 17 will -- we will go next through the details and
- 18 resolution status of each technical review comments and
- 19 recommendations. All of the department concerns are
- 20 currently classified as either "resolved" or "resolved
- 21 by a commitment".
- We have -- we have used the term "resolved" to
- 23 indicate that a resolution was found and that GN-CGS
- 24 was -- was -- has alleviated the department's concern.
- 25 We have used the term "resolved by commitment" to
- 26 indicate that GN-CGS and the department have agreed on

- 1 a path to a resolution, but the resolution is still in
- 2 progress. In these cases, we will point out which
- 3 further steps are required for the department to
- 4 consider the comment fully resolved.
- 5 Slide Number 5. On November 22nd, 2021, the
- 6 licencee sent a letter to Nunavut Water Board that a
- 7 feasibility study conducted on the solid waste
- 8 facility. It determined that the project cannot
- 9 proceed as originally intended due to lack of adequate
- 10 funding.
- 11 CIRNAC notes that overcapacity and the leachate at
- 12 the site have been a concern for several years and will
- 13 continue to impact the environment if left unchecked.
- 14 GN-CGS has confirmed steps in taking -- it is taking to
- 15 ensure that overcapacity does not impact negatively on
- 16 the surrounding environment. So this -- this resolves
- 17 recommendation completely.
- 18 Slide Number 6. Can I get Slide Number 6? The
- 19 licencee states that controlled manual seasonal
- 20 effluent pump-out will be adopted in order to discharge
- 21 effluent into the wetland treatment area rather than
- 22 the exfiltration berm currently in place.
- 23 CIRNAC notes that the rate of discharge and the
- 24 frequency of the effluent discharge will likely
- 25 negatively affect the concentration of the effluent
- 26 parameters within the receiving environment. GN-CGS

- 1 has confirmed the retention time and pumping rate of
- 2 the effluent in the lagoon. This resolves this
- 3 concern.
- 4 Slide Number 7. CIRNAC notes that two parameters,
- 5 BOD and TSS, were interchanged in the two documents.
- 6 This creates confusion for the reviewers and requires
- 7 clarification by the licencee. GN-CGS has confirmed
- 8 that BOD requests -- change request will be 100 milligram
- 9 per liter while TSS change is 120 milligram per liter
- 10 and committed to fixing the error in the operation
- 11 maintenance plan in the newer version. This resolved
- 12 our concerns with the commitment, that they will fix
- 13 the error.
- 14 Slide Number 8. CIRNAC notes that the localized
- 15 thawing of the permafrost shallow region as a result
- of warming climate would lead to the stretching of the
- 17 impermeable liner, thereby compromising its integrity
- 18 and ability to control the seepage as intended. It
- 19 will be helpful if the licencee were to provide
- 20 detailed plans as to how it intends to preventing
- 21 effluent from seeping past the liner in the event of
- 22 localized thawing of the permafrost shallow region,
- 23 which could lead to ground contamination if not -- if
- 24 not checked.
- 25 GN-CGS confirmed commitment to monitoring leaks
- 26 via water levels in the wetland area and immediate

- 1 repair of liners when damaged. So this concern has
- 2 been resolved with commitment.
- 3 Slide Number 9. In Section 2.0, Table 1 of the
- 4 Arviat monitoring and the QA/QC plan 2021, ARV
- 5 monitoring station -- ARV Number 3 monitoring station
- 6 is currently identified as "not active" while station
- 7 ARV Number 10 monitoring and 11 monitoring stations are
- 8 identified as "Not active. Please delete from licence".
- 9 Monitoring Station ARV Number 3 was designed to
- 10 monitor raw effluent -- sewage effluent concentration
- 11 at the truck offload point, and Monitoring Station ARV
- 12 Number 10 and 11 were intended to monitor effluent from
- the final discharge point of the hydrocarbon
- 14 impacted soil storage and treatment facility and
- 15 effluent discharge from dewatering contaminated solid
- 16 area.
- 17 CIRNAC notes that no rationale was provided by the
- 18 licencee as to why the stations are identified as
- 19 inactive and required to be deleted from the water
- 20 licence. GN-CGS confirmed that the hydrocarbon
- 21 impacted storage facility was never constructed and
- 22 does not exist. Therefore, ARV Number 10 and ARV
- 23 Number 11 do not exist and hence the request to be
- 24 deleted. So this resolves the concerns that we have.
- 25 Slide Number 10. Part D, Item 5(e) of the
- 26 Type "A" water licence states that: (as read)

1 A sludge management plan that addresses 2 sludge assessment and disposal methods. 3 plan shall be incorporated into the sewage 4 disposal facility operations and maintenance manual referred to in Part F, 5 6 Item 1(b). 7 Section 6 of the Arviat sewage treatment facility operation and maintenance plan contained the sludge 8 9 management plan as stipulated by the water licence, but 10 the licencee did not provide details as to how and 11 where the sludge will be disposed. GN-CGS is committed to including the sludge 12 13 management plan that will contain assessment and 14 disposal techniques as well as a disposal location into 15 the new operation management plan that will be prepared by the design consultant and contractor for the new 16 17 two-cell lagoons. This resolves our concern with the recommendation -- with the commitments. 18 And Slide Number 11. As can be seen from the 19 20 chart, there are three resolved recommendations by --21 you know, three resolved by commitment recommendations. 22 Slide Number 12. Concerns that are currently 23 being addressed but require follow-up actions are 24 indicated on the -- on the screen. For the -- for the 25 purpose of today's public hearing, the concerns are 26 resolved.

- 1 Number 13. Crown-Indigenous Relations and
- 2 Northern Affairs Canada will continue to work with
- 3 GN-CGS through the water licence application review
- 4 process with the aim of protecting Nunavut's inland
- 5 water resources while promoting sustainable
- 6 development.
- 7 I'd like to close by saying thank you to the
- 8 Nunavut Water Board for holding this public hearing, to
- 9 the other intervenors for their reviews, and to the
- 10 proponent for their effort in addressing intervenors'
- 11 concerns.
- 12 Slide Number 14. And this concludes -- this
- 13 concludes the department's presentation. We will now
- 14 take questions. Qujannamiik.
- 15 THE CHAIR: Thank you Crown-Indigenous
- 16 Northern Relationship -- yeah, yeah -- Northern
- 17 Affairs. Sorry.
- 18 Okay. Open up for questions. We'll start with
- 19 Applicant, if they can go ahead.
- 20 Questioning of Crown-Indigenous Relations and Northern
- 21 Affairs Canada
- 22 MR. CHALMERS: Thank you, Chair. Elan
- 23 Chalmers, GN-CGS.
- I just wanted to clarify the third comment from
- 25 CIRNAC regarding the error in the sewage facility O&M
- 26 plan. This has already been revised and was submitted

- 1 to NWB for a distribution on April 5th. Thank you.
- 2 THE CHAIR: Thank you.
- 3 CIRNAC, go ahead.
- 4 MR. OKONKWO: Okay. You said that it's been
- 5 submitted, the newer version of the plan, operation
- 6 maintenance plan, to the Board?
- 7 MR. CHALMERS: Elan Chalmers, GN-CGS.
- 8 Yes. As with several of the commitments, it was
- 9 submitted by the GN-CGS on April 5th with that
- 10 correction that you had identified the error there.
- 11 Thank you.
- 12 MR. OKONKWO: Okay. Okay. Yeah. We will
- 13 put it up and -- and do a further review to make sure
- 14 everything is resolved completely.
- 15 THE CHAIR: Thank you.
- 16 I'd like to ask the Environment Climate Change
- 17 Canada: Do you have any questions to the INAC
- 18 presentation -- CIRNAC presentation?
- 19 MS. SHORE: Victoria Shore, Environment
- 20 and Climate Change Canada.
- 21 We have no questions for CIRNAC. Thank you.
- 22 THE CHAIR: Thank you.
- 23 Water Board Staff, do you have any questions or
- 24 comments?
- 25 MR. KHARATYAN: Thank you, Mr. Chair. Karen
- 26 Kharatyan, Water Board.

- Just one follow-up with Crown-Indigenous Relations
- 2 and Northern Affairs. As you know, GN-CGS requested to
- 3 eliminate the requirement of -- as an amendment to
- 4 potential renewal licence to eliminate the requirement
- 5 for annual geotechnical inspection, and we did have
- 6 some discussions just at the GN-CGS position about
- 7 alternative they are -- or they make proposal. They
- 8 are proposing just looking for any comments or position
- 9 that CIRNAC may have about these questions. Thank you.
- 10 THE CHAIR: Thank you.
- 11 MR. KEIM: Thank you.
- 12 Oh, sorry.
- 13 THE CHAIR: Go ahead.
- 14 MR. KEIM: Qujannamiik. Yeah. Andrew
- 15 Keim for CIRNAC.
- 16 Upon review of the water licence and in
- 17 consultation with our -- with our partners, at this
- 18 time, if the -- if the GN is suggesting that their
- 19 local people are capable of taking on this
- 20 responsibility, which I have no doubt they probably
- 21 are, then we would defer to the -- defer to the GN and
- 22 the Board's consideration on this matter, and we would
- 23 withdraw our -- our request to have a regional engineer
- 24 inspect these facilities on an annual basis.
- We'll see how it goes, and if -- if this works out
- 26 better, then -- then this will work out better, and if

- 1 it doesn't, well, we might have to go back to it. But
- 2 if at this time the GN is confident that they can
- 3 maintain their responsibilities and obligations to
- 4 Arviat, then I see no reason not to -- to stand in
- 5 their way. Thank you.
- 6 THE CHAIR: Thank you.
- 7 Go ahead, Assol.
- 8 MS. KUBEISINOVA: Thank you, Mr. Chair. Assol
- 9 Kubeisinova, Nunavut Water Board.
- 10 I just note that the updated operations and
- 11 maintenance plan for the sewage treatment facility was
- 12 distributed by the Water Board on March 10th. Thank
- 13 you.
- 14 THE CHAIR: Thank you.
- 15 CIRNAC, go ahead.
- 16 MR. OKONKWO: Okay. We've --
- 17 MR. KEIM: Go ahead.
- 18 MR. OKONKWO: Okay. Since the Board has
- 19 clarified that it has been posted on the registry, the
- 20 new operation and maintenance plan, we'll dig it out
- 21 from the public registry to -- and look into it to make
- 22 sure that everything has been resolved and they have,
- 23 you know, fulfilled their commitment. Thank you.
- 24 MR. KEIM: I do have one further
- 25 clarification. I believe that if Board submitted
- 26 the -- if the Board sent that out for comment on

- 1 March 10 but the GN submitted their update on April,
- 2 was that included?
- 3 MS. KUBEISINOVA: Thank you, Mr. Chair.
- 4 MR. KEIM: I'm just looking for a
- 5 clarification of dates.
- 6 MR. KUBEISINOVA: Thank you, Mr. Chair. This is
- 7 Assol Kubeisinova, Nunavut Water Board.
- 8 In April, a timeline of the work that GN was
- 9 planning to undertake was distributed, and the updated
- 10 plans, including the quality assurance and quality
- 11 control plan, was distributed -- were distributed on
- 12 March 10th. Thank you, Mr. Chair.
- 13 THE CHAIR: Thank you.
- Okay. Thank you, Crown-Indigenous and Northern
- 15 Relations.
- 16 Panel members, do you have any questions,
- 17 comments? Sarah?
- 18 MS. SILOU: Sorry. No, this is Sarah
- 19 Silou and Nunavut Water Board Panel.
- No. I don't have any questions. Thank you.
- 21 THE CHAIR: Okay. Eelai, go ahead.
- 22 MS. UNIUOSARAO: Eelai Uniugsarag.
- I have no questions at this time.
- 24 THE CHAIR: Thank you.
- 25 CIRNAC, thank you for your presentation and some
- 26 clarification came in as well.

- 1 So we'll move on in the agenda. Now I'd like to
- 2 call the Environment Climate Change Canada. We'll go
- 3 to that.
- 4 So, Teresa, you -- please proceed with the
- 5 procedural matters.
- 6 MS. MEADOWS: Thank you, Mr. Chair. So
- 7 Teresa Meadows, legal counsel for the Nunavut Water
- 8 Board.
- 9 So if I can have the -- when we switch over the
- 10 Zoom feed -- again, Environment and Climate Change
- 11 Canada unfortunately is not able to be with us in the
- 12 room today. So we will be going to the Zoom feed.
- 13 When we go to the Zoom feed, if I can ask the witnesses
- 14 to state and spell their name for the record and then
- 15 state their name again if they affirm, and I will
- 16 administer the oath.
- 17 And before we switch over to you, I'll just note
- 18 that we have two copies of the presentation that
- 19 Environment and Climate Change Canada is about to
- 20 present. We have a copy in French, and then we have
- 21 one copy that's in English and Inuktitut, which is the
- 22 one that will be displayed, and those will be the next
- 23 two exhibits in the public hearing.
- 24 EXHIBIT 5 Electronic Copy, PowerPoint
- 25 Presentation, Environment and Climate Change
- 26 Canada's Presentation to the Nunavut Water

1	Board Respecting the Hamlet of Arviat Type A
2	Water Licence Renewal Amendment Application,
3	3AM-ARV1016 - Nunavut Water Board Public
4	Hearing (English/Inuktitut)
5	EXHIBIT 6 - Hard Copy, PowerPoint
6	Presentation, Environment and Climate Change
7	Canada's Presentation to the Nunavut Water
8	Board Respecting the Hamlet of Arviat Type A
9	Water Licence Renewal Amendment Application,
10	3AM-ARV1016 - Nunavut Water Board Public
11	Hearing (French)
12	MS. MEADOWS: So if I can I will just
13	state the affirmation and then have the witnesses state
14	and spell their names and confirm the affirmation.
15	VICTORIA SHORE and ANNE WILSON, Affirmed
16	MS. MEADOWS: Thank you, Mr. Chair. Teresa
17	Meadows, legal counsel for the Nunavut Water Board.
18	So, Mr. Chair, it's my understanding that we have
19	the presentation materials, and we can project them
20	here. So once Environment and Climate Change Canada
21	sees the presentation materials shared on the screen,
22	if you want to just advise the technician when you want
23	the screen to advance, we will be able to run the
24	presentation from here.
25	Thank you, Mr. Chair. Those are my procedural
26	matters.

- 1 THE CHAIR: Thank you, Teresa.
- 2 So Environment and Climate Change Canada, you may
- 3 proceed with your presentation.
- 4 Presentation by Environment and Climate Change Canada
- 5 MS. SHORE: Thank you, Mr. Chair.
- 6 Good afternoon, everyone. My name is Victoria
- 7 Shore, and I am a senior environmental assessment
- 8 officer with Environment and Climate Change Canada.
- 9 Before I start, I would like to thank the Nunavut
- 10 Water Board for the opportunity to participate in this
- 11 water licence process, as well as the Applicant and the
- 12 other intervenors.
- Next slide. I will start by presenting the
- 14 department's mandate, briefly touch on the acts and
- 15 legislation relevant to Environment and Climate Change
- 16 Canada, provide a status summary of our technical
- 17 comments, and then I'll pass it over to my colleague,
- 18 Anne Wilson, to provide a more detailed overview of our
- 19 technical review.
- 20 Next slide. Environment and Climate Change
- 21 Canada's mandate is to preserve and enhance the quality
- 22 of the natural environment, including water, air, and
- 23 soil quality; to conserve Canada's renewable resources,
- 24 including migratory birds; to conserve and protect
- 25 Canada's water resources; to forecast daily weather
- 26 conditions; to enforce regulations; and to coordinate

- 1 environmental policies and programs for the federal
- 2 government.
- 3 Next slide, please. Environment and Climate
- 4 Change Canada's mandate is governed by the Department
- 5 of the Environment Act, the Canadian Environmental
- 6 Protection Act, the Pollution Prevention Provisions of
- 7 the Fisheries Act, the Migratory Birds Convention Act,
- 8 and the Species at Risk Act.
- 9 Next slide, please. With regard to this process,
- 10 Environment and Climate Change Canada submitted six
- 11 technical review comments, all of which we now consider
- 12 resolved. I'll now pass it over to Anne to provide
- 13 some more details about our technical review.
- 14 MS. WILSON: We are on to the next slide,
- 15 please.
- I'm Anne Wilson, and I'll start with Technical
- 17 Comment Number 1. This comment dealt with the
- 18 monitoring point at the end of the wetland, ARV-4.
- 19 With the new lagoon, flows in the wetland may change,
- 20 and this should be evaluated before finalizing the
- 21 monitoring location ARV-4. GN-CGS has advised the
- 22 wetland flow study will be done this summer with the
- 23 report expected by December 2022.
- 24 And our expectation is that the flow study
- 25 will identify where the main outflow from the wetland
- 26 is and that this can then be monitored as a point of

- 1 discharge from the system, that is, ARV-4. So this
- 2 comment is resolved.
- Next slide, please. For Technical Comment Number 2,
- 4 ECCC had requested information on when studies, plans,
- 5 and construction would be scheduled. GN-CGS provided a
- 6 memo dated April 5th, which outlines the work plans and
- 7 the timelines. This comment is resolved.
- 8 So on to the next slide, please. For Technical
- 9 Comment 3, this dealt with the need for closure
- 10 planning conditions in the licence to be developed for
- 11 both the solid waste site and the unused sewage
- 12 lagoons. The intent is to have any needed work or
- 13 studies done before it is time to develop plans in
- 14 advance of when the facilities reach the end of their
- 15 service life. GN-CGS has agreed to licence conditions
- 16 that set out the timelines for plans to be submitted,
- 17 and they have noted the path forward for the unused
- 18 lagoon cells and the timeline for the solid waste site.
- 19 And this is just a sidenote. It's a bit of a
- 20 personal note, that I think the terminology has evolved
- 21 for closure plans, and I would just like to throw out
- the suggestion for the Board that we identify these now
- 23 as "closure and reclamation plans" rather than
- 24 "abandonment and restoration plans". It's just more
- 25 consistent with current practices and what we would
- 26 hope to do. So this comment is considered resolved,

- 1 and we'll go on to the next slide, please.
- 2 Technical Comment 4 deals with the management of
- 3 sludge in the sewage lagoon. So there -- there was no
- 4 desludging done for the existing lagoons. There was no
- 5 point in that. GN-CGS did clarify the plans would be
- 6 prepared for the new two-cell lagoon system in case
- 7 sludge removal is needed at some point in its service
- 8 life. This comment is also considered resolved.
- 9 And next slide, please. For Technical Comment 5,
- 10 the new lagoons will discharge effluent into the
- 11 wetland where it will receive the polishing or further
- 12 treatment. ECCC had recommended that monitoring of the
- 13 effluent quality at the lagoon discharge point be done
- 14 so that we can understand the level of treatment
- 15 provided by the lagoons separate from that provided by
- 16 the wetland. GN-CGS has agreed with this, and we
- 17 concur that it is a monitoring point, not a compliance
- 18 point. This comment is also considered resolved.
- 19 Next slide, please. So for Technical Comment
- 20 Number 6, I'm actually going to correct the slide to
- 21 almost resolved. ECCC noted that the QA/QC plan,
- 22 quality assurance/quality control plan, needed to
- 23 include the frequency for replicate/duplicate samples
- 24 to be collected as part of their sampling program.
- 25 ECCC had noted this as being resolved based on
- 26 GN-CGS's commitment to update the plan which was then

- 1 submitted in March this year. However, in the response
- 2 letter dated May 3rd, GN-CGS had stated that the
- 3 information was submitted and requested that ECCC
- 4 identify any additional information to include.
- We do note that the section reference,
- 6 Section 4.2.2, does identify the duplicate/replicate
- 7 samples are to be collected but does not identify how
- 8 many or how often. Adding the frequency for collection
- 9 of these samples would address this comment.
- 10 And I had also noted that the preceding section,
- 11 4.2.1, on field and trip blanks omits the frequency for
- 12 field blanks although it does have trip blanks. It
- will be up to GN-CGS to identify the total numbers of
- 14 each type of quality control/quality assurance samples
- 15 to be collected, and this will be based on the total
- 16 number of samples done for each monitoring event, which
- 17 we don't know.
- 18 There should be a random and even mix of sample
- 19 types, so trip blanks, field blanks, and replicates or
- 20 duplicates totalling about 10 percent of the total
- 21 number of samples collected at a minimum. So I'm
- 22 thinking this should be a straightforward addition to
- 23 the next version of the QA/QC plan. Hence, this is
- 24 substantially resolved, just not quite.
- 25 So on to the next slide, please. And here's our
- 26 happy little bird, and this concludes our presentation,

- 1 and we would be happy to take any questions at this
- 2 point. Thank you very much.
- 3 THE CHAIR: Thank you, ECCC, for your
- 4 presentation.
- 5 I'll open up for questions. I'd like to start
- 6 with Applicant. If you have a question to Environment
- 7 and Climate Change Canada, you may go ahead.
- 8 Questioning of Environment and Climate Change Canada
- 9 MR. CHALMERS: Thank you, Mr. Chair. Elan
- 10 Chalmers, GN-CGS.
- 11 Thank you very much for that clarification, Anne,
- 12 about the missing information from the QA/QC plan. We
- 13 will revise it to reflect your suggestion and resubmit
- 14 it within, I'd say, about a month from now. Thank you
- 15 very much. No further comments.
- 16 THE CHAIR: Thank you.
- 17 Next intervenors. CIRNAC, if you have questions,
- 18 you may go ahead.
- 19 MR. OKONKWO: My name is Vincent, CIRNAC.
- 20 CIRNAC does not have any questions. Thank you.
- 21 THE CHAIR: Thank you.
- Water Board Staff, if you have questions,
- 23 comments -- no. Okay. Thank you. Thank you, Staff.
- And Panel members, do you have questions?
- 25 MS. SILOU: No, no comment.
- 26 THE CHAIR: Okay. Thank you.

- 1 Thank you, Environment Climate Change Canada, for
- 2 your presentation.
- Okay. Moving on. Okay. I forgot to put the
- 4 microphone on. We'll take a ten-minute break. I need
- 5 to adjust myself with the agenda for a minute before we
- 6 continue on.
- 7 (ADJOURNMENT)
- 8 THE CHAIR: We may continue with the
- 9 proceeding, get back from our break.
- In the agenda, we're turning to Item 14 to 16, if
- 11 there's a presentation or questioning of the
- 12 associations, agencies, or members of the public who
- 13 wish to make a presentation or speak to the Board. Is
- 14 there anyone available? Anyone want to? Sorry. I
- 15 didn't see hands, so we'll move on.
- 16 Item 17 in the agenda. Now, we still have GN-CGS.
- 17 Do you have any comments in reply to submission of the
- 18 intervenors?
- 19 MR. CHALMERS: Thank you, Chair. Elan
- 20 Chalmers, GN-CGS.
- 21 Would be this be an appropriate time for closing
- 22 statements on our behalf, or ...
- 23 THE CHAIR: Yeah.
- 24 Closing Remarks by the Hamlet of Arviat
- 25 MR. CHALMERS: Okay. Thank you.
- Thank you, Chair. We are happy to have resolved

- 1 the commitments either completely or -- or sorry --
- 2 resolved the comments either through commitment or
- 3 completely.
- 4 With regards to the clause for the geotechnical
- 5 inspection annually, we just wanted to add that
- 6 historically, leaks have been identified by municipal
- 7 staff because they are on-site every day. Leaks or
- 8 failures are unlikely to occur the day that the CIRNAC
- 9 or CGS is on-site.
- 10 In previous occurrences of leaks, the hamlets
- 11 reported it to the municipal engineer because we're in
- 12 contact with them daily, and the GN-CGS has brought in
- 13 the correct professionals with the appropriate skill
- 14 set and the training to conduct the thorough
- 15 inspections that are required.
- 16 CGS has committed to continuing to support the
- 17 hamlet in these instances and hopes that the Board will
- 18 give the hamlet staff an opportunity to demonstrate
- 19 their ability to operate their own infrastructure.
- 20 On the point of more stringent effluent
- 21 parameters, CGS recognizes that the NWB relies on a
- 22 quidance document from the Northwest Territories. At
- 23 the time this licence was issued, that document was
- 24 from 1992.
- 25 We would petition the Board to consider that the
- 26 six-year research conducted directly in Nunavut on

- 1 lagoon wetland treatment facilities and the subsequent
- 2 guidance document that we prepared and submitted to
- 3 NWB, CIRNAC, and ECCC, in particular, in regards to the
- 4 wastewater system effluent regulations that do not
- 5 concurrently apply in Nunavut.
- 6 As discussed, the assessments that will take place
- 7 this summer at the wetland treatment area, the solid
- 8 waste site, and the abandoned lagoon cells will provide
- 9 relevant information to address several of the
- 10 commitments by the end of this year, and we look
- 11 forward to sharing those results with ECCC, CIRNAC, and
- 12 other interested parties.
- 13 The municipality of Arviat with support from the
- 14 Government of Nunavut, Department of Community and
- 15 Government Services, will continue to work towards
- 16 achieving compliance under the terms of the new
- 17 licence. Thank you.
- 18 THE CHAIR: Thank you, Applicant, for your
- 19 closing remarks.
- Now I'd like to ask CIRNAC to do your closing
- 21 remarks.
- 22 Closing Remarks by Crown-Indigenous Relations and
- 23 Northern Affairs Canada
- 24 MR. KEIM: Qujannamiik, Iksivauta.
- 25 Andrew Keim for CIRNAC.
- At this time, we are very glad that we've been

- 1 able to participate in the process and provide our
- 2 considered input to the Board and that the GN and the
- 3 municipality have been able to contribute so readily to
- 4 the process.
- 5 We recognize that at times, going forward, the
- 6 hamlet has to be given the opportunity to prove that
- 7 they can work through these problems and to maintain
- 8 their own infrastructure. We support that, and we
- 9 support the GN moving forward in these matters.
- 10 We have no further comments for the Board's
- 11 consideration today, and we thank you very much for
- 12 allowing us to participate in the process.
- 13 Qujannamiik.
- 14 THE CHAIR: Thank you, CIRNAC.
- 15 Next to have a -- sorry -- closing remarks is the
- 16 climate -- Environment and Climate Change Canada.
- 17 Closing Remarks by Environment and Climate Change
- 18 Canada
- 19 MS. SHORE: Thank you. Victoria Shore
- 20 with Environment and Climate Change Canada.
- 21 I'd just like to thank the Board for the
- 22 opportunity to participate in this process as well as
- 23 the Applicant and other parties present for a
- 24 respectful and productive public hearing.
- 25 We have no further comments to add for the Board's
- 26 consideration at this time, but we do look forward to

- 1 continuing our participation in the water licence
- 2 process. Thank you.
- 3 THE CHAIR: Thank you.
- 4 So for our next step, I'd like to ask Teresa,
- 5 legal counsel, to take the floor. Go ahead.
- 6 MS. MEADOWS: Thank you, Mr. Chair. Teresa
- 7 Meadows, legal counsel for the Nunavut Water Board.
- 8 So, Mr. Chair, before we proceed onward to the
- 9 very final steps for the Board's consideration in the
- 10 public hearing, first of all, gold stars to everyone
- 11 for being so efficient and being so far ahead of
- 12 schedule as we -- sometimes is the case. The Board's
- oftentimes rushing to try and get everything in, so we
- 14 really do appreciate a lot of the advanced preparations
- 15 of the proponent and the intervenors to make sure that
- 16 they are prepared and have resolved a number of the
- 17 issues before going to public hearing.
- 18 As you all know from the agenda, tonight we are
- 19 scheduled to have a community session where the Board
- 20 will be here to -- for the Applicant to have an
- 21 opportunity to present the application to the
- 22 community, and then the community will have an
- 23 opportunity to ask questions.
- 24 Unfortunately, the Board's plans as are the way --
- 25 are being modified a bit to fit the weather and the
- 26 logistics of the -- that we find ourselves in in

- 1 Arviat, and that is the Board is currently staying in
- 2 Rankin and commuting to Arviat every day for the
- 3 hearing.
- 4 We've been advised by the pilots in Rankin that
- 5 there is a heavy rainfall warning out, and so there is
- 6 supposed to be freezing rain as the temperature drops
- 7 tonight. We've been advised that we should be leaving
- 8 Arviat by 7 PM tonight. The public meeting starts at
- 9 6. And so what the Board is suggesting is that we
- 10 eliminate the Board's presentation, the normal
- 11 presentation that we would do for the community, to
- 12 kind of set the tone for the community session and that
- 13 we go right to the Applicant's presentation.
- 14 Intervenors, I'm very sorry, but it may mean that
- 15 you end up not being able to present your intervention
- 16 to the community but be available to just ask
- 17 questions, and we will immediately go from the
- 18 presentation by the Applicant to questions to the
- 19 Applicant or the intervenors that are present from any
- of the members of the community that are here.
- 21 If community members do not -- are not here in
- 22 sufficient numbers by about ten after 6 or quarter
- 23 after 6, we may end up then saying that the session
- 24 will end at 7 and that the Board will leave at 7. If
- 25 community members are here and it looks like they have
- 26 more questions and we are not able to conclude the

- 1 community session and close the public hearing record
- 2 by the end of -- by 7:00 tonight when we have to leave,
- 3 we may then check with the community members and also
- 4 with the people that are here in terms of options for
- 5 tomorrow.
- 6 It's my understanding that the weather will
- 7 continue to be heavy rainfall in the first part of the
- 8 day tomorrow but that there should be some clearing in
- 9 the latter part of the afternoon and then into the
- 10 evening. And so the Board is looking into options to
- 11 come back perhaps for -- to conclude the community
- 12 session tomorrow evening.
- So we appreciate everybody's flexibility as we
- 14 sort of try and figure out exactly what is going to be
- 15 the best option to be able to get the information for
- 16 community members, allow them to ask the questions that
- 17 they want to, and also have their views inform the
- 18 Board's decision. But at this point, the weather and
- 19 safety actually dictate what the Board must do today.
- 20 So our schedule has been curtailed a bit because of the
- 21 heavy rainfall warning.
- 22 So with that, Mr. Chair, we will adjourn now, I
- 23 would recommend, and then we will reconvene at 6:00.
- 24 If we can ask -- 6:00 central time. If we can ask that
- 25 the intervenors who are on the phone and Zoom, if you
- 26 can call in 15 minutes before that so that we can make

- 1 sure that we don't have any logistical delays as we get
- 2 set up, that would be much appreciated, and hopefully
- 3 we'll be able to get the community session in tonight.
- 4 When we come back, we will start back with the --
- 5 with the intervenors' presentation, Mr. Chair, and if
- 6 all that is remaining is the concluding remarks of the
- 7 Chair and we are not able to get those in tonight, we
- 8 may end up doing that just by a Zoom meeting tomorrow.
- 9 We may not come back into the community if the -- if
- 10 the morning is as predicted and we're not able to
- 11 reconvene tomorrow morning.
- 12 So I know that there's a lot of logistics going
- on, and that's kind of what we're scrambling around
- 14 doing in the background. But that is what I would
- 15 recommend, Mr. Chair. Thank you, Mr. Chair. Those are
- 16 my many procedural matters. Thank you.
- 17 THE CHAIR: Okay. Thank you, Teresa.
- 18 Okay. We take those -- the words from the legal
- 19 counsel for now. We take adjourn now and then come
- 20 back here 6:00. As legal mentioned, that, yeah, we'll
- 21 come back here before -- at least before 15 minutes
- 22 to -- or 5:30, whatever, to be as ready here and wait
- 23 around. But we want to start it by 6:00 sharp. Thank
- 24 you.
- 25
- 26 (PROCEEDINGS ADJOURNED UNTIL 6:00 PM)

1 2 (PROCEEDINGS RECOMMENCED AT 6:24 PM) 3 Community Session Opening Remarks by the Chair 4 THE CHAIR: Good evening, everyone, and welcome to the community session for the Nunavut Water 5 6 Board public hearing in relation to the 7 renewal-amendment application submitted by Hamlet of Arviat via its representative Government of Nunavut, 8 9 Community and Government Services, that I will refer to 10 as the "hamlet", "GN-CGS", or "Applicant", with the 11 Nunavut Water Board for Water Licence Number 3AM-ARV1016. My name is Lootie Toomasie, and I am the Chair of 12 13 Nunavut Water Board. I will be chairing tonight's 14 session. Tonight's session is part of the Nunavut Water 15 Board's public hearing to consider the replacement of 16 the expired water licence which authorizes the use of 17 18 water and deposit of wastes associated with the water and waste management infrastructure at Hamlet of 19 20 Arviat's municipal undertaking. 21 The changes to this water licence has been 22 requested by GN-CGS to reflect new infrastructure and 23 activities as well as the expiry of the licence that 24 was reviewed by the Nunavut Planning Commission and screened by Nunavut Impact Review Board in 2020 and 25 26 2021.

- 1 This public hearing marks the final opportunity
- 2 for the Applicant, the intervenors, and the members of
- 3 the community to represent their comments, issues, and
- 4 questions about the renewal-amendment application to
- 5 the Nunavut Water Board before the Board makes its
- 6 decision about the renewal-amendment application.
- 7 The Nunavut Water Board appreciates you all
- 8 turning out to participate in this important meeting.
- 9 Before we proceed with tonight's session, let us begin
- 10 with prayer. Let us stand.
- 11 Opening Prayer
- 12 THE CHAIR: So we are kind of speeding up
- 13 this community session tonight, so I'm willing to have
- 14 our legal counsel take the floor for now. Go ahead.
- 15 MS. MEADOWS: Thank you, Mr. Chair. Teresa
- 16 Meadows, legal counsel for the Nunavut Water Board.
- 17 So, Mr. Chair, because we don't have too many
- 18 members of the public that have ventured out in the
- 19 rain today, what we're going to do is modify the agenda
- 20 a little bit.
- 21 So we're going to have the Applicant, Government
- 22 of Nunavut, Community and Government Services, explain
- 23 their application to the members of the public who are
- 24 here, and then we're going to throw the floor open for
- 25 questions. So you can ask any questions of the
- 26 Government of Nunavut, of -- on the line -- we now have

- 1 restored our internet connection, so my apologies to
- 2 the participants that are on the Zoom link. We were
- 3 having difficulty establishing a stable link.
- 4 So we now have Environment and Climate Change
- 5 Canada and Crown-Indigenous Relations and Northern
- 6 Affairs Canada. They are on the Zoom link, so you can
- 7 ask questions of -- anyone who is here in the room can
- 8 ask questions of the Government of Nunavut, the
- 9 Applicant, or any of the intervenors that are on the
- 10 Zoom link.
- 11 So without further ado, I will turn it over --
- 12 turn over the microphone and control of the
- 13 presentation to Government of Nunavut to explain the
- 14 application that the Board is considering. Thank you,
- 15 Mr. Chair.
- 16 THE CHAIR: Thank you.
- 17 Community Session Presentation by the Hamlet of Arviat
- 18 MR. CHALMERS: Elan Chalmers, CGS.
- 19 Will NWB be broadcasting the presentation for us
- 20 again? I'll just begin describing it while we're
- 21 waiting here.
- 22 So the GN-CGS submitted an application on behalf
- 23 of the municipality of Arviat for the renewal and
- 24 amendment of their water licence. The licence
- 25 authorizes the water withdrawal and disposal of waste
- 26 by the municipality.

- 1 Since the licence expired in 2016, the
- 2 municipality has continued to work towards compliance
- 3 with the terms and conditions of the expired licence,
- 4 and the CGS on behalf of the municipality has
- 5 undertaken several capital projects, including the
- 6 additional raw reservoir cell, preliminary design work
- 7 to upgrade and expand the sewage lagoon, and
- 8 preliminary work to improve the compliance and extend
- 9 the useful life of the land.
- 10 So this image shows the current infrastructure
- 11 that is under the terms of the existing licence for the
- 12 raw water reservoir and the waste sites. Each summer,
- 13 waters come from Wolf Creek to fill the three-cell
- 14 reservoir, which has the capacity of 235,000 cubic
- 15 metres, and additional cells have been added since 1998
- 16 as the community grows. Recent studies have indicated
- 17 that Wolf Creek can continue to sustain the community
- 18 while meeting regulatory requirements under the terms
- 19 of the new licence.
- 20 The current lagoon is -- has been in use since
- 21 2005. As residents, we know it is quite undersized and
- 22 requires emergency decant each year, and the new lagoon
- 23 will be sized to accommodate the municipality for the
- 24 next 20 years.
- 25 The landfill has been in use since the 1970s.
- 26 Since 2014, the municipality has undertaken several

- 1 initiatives to improve the site through depolluting
- 2 metals and using the shredder -- or purchasing a metal
- 3 shredder and using the -- the shreds to cover the
- 4 material at the current waste site, which has really
- 5 improved the capacity.
- 6 There is also an ongoing solid waste improvement
- 7 project being funded and managed by CGS. The project
- 8 will improve compliance and extend the capacity, as
- 9 well as assessing the old lagoons to determine if they
- 10 can be repurposed to accept solid waste.
- 11 The licencee requested several changes to the
- 12 monitoring program. They're identified here in yellow.
- 13 We underwent a thorough regulatory review process with
- 14 Environment and Climate Change Canada and CIRNAC, all
- of which has been resolved either completely or through
- 16 commitment.
- 17 So to summarize the requests for the amendment and
- 18 renewal, we are requesting a ten-year licence term with
- 19 a water withdrawal that matches the capacity of the raw
- 20 water reservoir cells. We requested several changes to
- 21 the monitoring program. We have requested to change
- 22 the effluent quality limits in line with Nunavut-based
- 23 lagoon wetland research.
- The licencee is requesting to remove any
- 25 conditions that are deemed unpractical and any
- 26 prescriptive language on remediation, and the licencee

- 1 is also requesting to remove two monitoring stations
- 2 since there are better ways of measuring these factors.
- The licencee is requesting to remove weekly
- 4 inspection reports to be generated as they're quite a
- 5 burden for the municipality and to change some of the
- 6 language in the monitoring programs so that it's a
- 7 little bit more in line with the actual weather.
- Finally, we are requesting to remove acute
- 9 lethality testing and the requirement to submit paper
- 10 documents. So that is the end of the presentation.
- 11 Thank you very much.
- 12 THE CHAIR: Thank you.
- Teresa, do you want the floor for a minute?
- 14 MS. MEADOWS: Thank you, Mr. Chair.
- 15 So if you have any questions -- any of the
- 16 participants who are here in the hall, if you want to
- 17 ask questions of the Government of Nunavut, Community
- 18 and Government Services, about the landfill or about
- 19 the sewage lagoons or any of the application
- 20 components, please just step up to the microphone here,
- 21 and we'll get your questions on the record. And then
- 22 we can get answers from the Applicant or from
- 23 Crown-Indigenous Relations and Northern Affairs or
- 24 Environment and Climate Change Canada.
- 25 (DISCUSSION OFF THE RECORD)
- 26 Questions/Comments from the Community

- 1 MR. SULUK: Yeah. Okay. Thank you.
- 2 Welcome to Arviat.
- I think my only question will be renewal of the
- 4 licence -- water licence for both wastewater disposal
- 5 and reservoir.
- 6 So I see that for the next ten years -- is it
- 7 being renewed every ten years, or ... I also see that
- 8 a review by engineer inspection annually. Is that the
- 9 case?
- 10 So as you know -- as you may know, that our --
- 11 especially wastewater reservoir fills up over time over
- 12 the winter, and then when it comes to springtime,
- 13 spring, it goes over -- almost over the reservoir
- 14 entrenching to the coast of the shore, shoreline. I'm
- 15 just asking to see if this existing licence will remain
- in the next ten years, or is there any plan to expand
- 17 or make another especially wastewater reservoir? Thank
- 18 you.
- 19 THE CHAIR: Thank you. Thank you, Luke.
- 20 Do you want to respond to the question? Go ahead,
- 21 Applicant.
- 22 MR. CHALMERS: Thank you, Chair.
- 23 Yes. Thank you for your question. As part of
- 24 this application, it is -- we're amending the licence
- 25 so that we can construct a larger lagoon. So the new
- 26 lagoon will be sized to accommodate the municipality

- 1 and its growing population until 2044.
- 2 So the current one will be replaced and an
- 3 additional cell will also be added, so it'll be much,
- 4 much, much bigger, and it will keep all of the waste in
- 5 there so that it won't overtop, and it won't need to be
- 6 pumped out early in the season. Thank you.
- 7 THE CHAIR: Go ahead, Applicant. Go
- 8 ahead.
- 9 MS. LUSTY: Hi there. Thank you.
- 10 And just to answer your other question regarding
- 11 the term of the licence, when it's coming up on the
- 12 ten-year term, we would be working with the
- 13 municipality to submit another licence to extend.
- So we're able to apply for water licences up to
- 15 25 years. So the ten-year term is the term that was
- 16 determined in earlier proceedings with the Nunavut
- 17 Water Board and the intervenors. So when it's coming
- 18 up on the ten-year time frame, a new licence
- 19 application and amendment renewal would be submitted.
- 20 THE CHAIR: Thank you, Applicant, for
- 21 answering the questions.
- Okay, Staff. Go ahead.
- 23 MR. KHARATYAN: Karen Kharatyan, Nunavut Water
- 24 Board.
- There was a second question regarding geotechnical
- 26 inspection. I would like, yes, to advise the community

- 1 member that Water Board did receive requests from
- 2 Applicant to eliminate the requirement of geotechnical
- 3 inspection from the current licence.
- 4 The current licence -- again, for the community
- 5 member information, the current licence is expired
- 6 since 2016, and it has this requirement for
- 7 geotechnical inspection annually -- to be conducted
- 8 annually, and on behalf of Hamlet of Arviat, GN-CGS is
- 9 requesting the Board to eliminate these requirements
- 10 within the potential renewal licence. Thank you.
- 11 This is just to state the fact that we have
- 12 received these requests, but, Mr. Chair, I will maybe
- 13 invite the Applicant to more elaborate on this. Thank
- 14 you.
- 15 THE CHAIR: Thank you.
- 16 Applicant, go ahead.
- 17 MS. CHALMERS: Thank you, Chair. Elan
- 18 Chalmers, GN-CGS.
- 19 Historically, leaks have been identified by
- 20 municipal staff because they're on-site daily. Leaks
- 21 or failures are unlikely to occur the day that the
- 22 CIRNAC or the CGS member is on-site.
- 23 In previous occurrences of leaks, the hamlet's
- 24 reported it to the municipal engineers because we're in
- 25 daily contact, and GN-CGS has brought in the correct
- 26 professionals with the appropriate skill set and

- 1 training to conduct thorough inspections.
- 2 CGS is committed to continuing to support the
- 3 hamlet in these instances and hopes that the Board will
- 4 give the hamlet staff an opportunity to demonstrate
- 5 their ability to operate their own infrastructure.
- 6 Thank you.
- 7 THE CHAIR: Thank you, Applicant.
- 8 Okay. I'll continue to move on.
- 9 Teresa, do you want take the floor for a minute?
- 10 MS. MEADOWS: Thank you, Mr. Chair. Teresa
- 11 Meadows, legal counsel for the Nunavut Water Board.
- 12 Are there any additional questions that anybody
- 13 has in the room today?
- So, Mr. Chair, recognizing that we have exhausted
- 15 all the questions in the community session and we have
- 16 completed the technical component of the public hearing
- 17 but we have not yet been able to close the record and
- 18 give advice to the -- to the hamlet in terms of the
- 19 next steps in the Water Board's processing and also
- 20 recognizing that the Board has to be back tomorrow in
- 21 this space in order to be able to take down all the
- 22 equipment and everything, what I would recommend is
- 23 that the Board adjourn for tonight. The Board will be
- 24 back tomorrow and continue to close out the remainder
- 25 of the items on the agenda.
- 26 But I just want to flag for the people that are on

- 1 the Zoom call: We're not exactly sure what the weather
- 2 is going to be like tomorrow morning. It looks like
- 3 the weather will continue to be in the condition that
- 4 it is right now, which is raining very heavily and
- 5 which is causing safety concerns for the charter to be
- 6 able to get in.
- 7 And so the Board will be checking with the pilots
- 8 tonight to confirm when we will be back, but we expect
- 9 it will be tomorrow afternoon at the earliest. So
- 10 likely we're targeting around 1:00 Central Time
- 11 tomorrow afternoon, but we will confirm with the
- 12 pilots, and we will have the Board Staff who are here
- in Arviat perhaps let the radio know what time we will
- 14 be back in this room.
- 15 And if any community members want to come out and
- 16 they have additional questions, we will start with
- 17 that, and they can ask any additional questions that
- 18 they have tomorrow morning or tomorrow afternoon when
- 19 we're back.
- 20 And if there will be a delay or a different time,
- 21 we will also send to all of the participants who are on
- 22 the Zoom link, and, of course, to the Applicant, an
- 23 update with respect to the precise time when the Board
- 24 will be back in the -- in the hearing room tomorrow.
- 25 And then we will have a very brief time period to
- 26 sort of advise what the next steps will be, the Chair

- 1 will be able to deliver his closing remarks, and any
- 2 additional questions will be asked by the community
- 3 members.
- 4 So thank you very much to the Applicant for being
- 5 so flexible tonight. We really do appreciate it. And
- 6 we'll be back tomorrow to close everything off
- 7 properly.
- 8 Thank you, Mr. Chair.
- 9 MR. SULUK: What time would that be?
- 10 MS. MEADOWS: We're targeting 1:00, but
- 11 we're not a hundred percent sure because we're not able
- 12 to stay in Arviat. There wasn't room. So we're flying
- in between Rankin Inlet and Arviat, and so it depends
- on when the charter says that it's safe for us to fly
- 15 back tomorrow.
- 16 It looks like the weather is opening up tomorrow
- 17 afternoon. It looks like it'll be better flying
- 18 weather tomorrow, but maybe I should be asking you.
- 19 What do you think? What time do you think is going to
- 20 be -- is going to be okay?
- 21 THE CHAIR: Okay. Thank you.
- 22 Okay. The community session should be ending for
- 23 now, but as legal counsel mentioned, that we'll come
- 24 back tomorrow to finish off the agenda.
- Okay. Thank you. Thank you all.
- 26 ______

1	PROCEEDINGS ADJOURNED UNTIL JUNE 1, 2022
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3	CERTIFICATE OF TRANSCRIPT:
4	
5	I, Andres Vidal, certify that the foregoing pages
6	are a complete and accurate transcript of the
7	proceedings taken down by me in shorthand and
8	transcribed from my shorthand notes to the best of my
9	skill and ability.
10	Dated at the City of St. Albert, Province of
11	Alberta, this 22nd day of June 2022.
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15	Congredy and
16	A. Vidal, CSR(A), RMR
17	Official Court Reporter
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