

NUNAVUT WATER BOARD

Licence No.1AR-POL0311 Type A
Renewal/Amendment Application

PUBLIC HEARING

VOLUME 1

Resolute Bay, Nunavut

December 4, 2014

TABLE OF CONTENTS

1		
2		
3	Description	Page
4	December 4, 2014	
5		
6	Appearances	3
7		
8	Opening by the Chair	4
9		
10	Roll Call	17
11		
12	BRUCE DONALD, Sworn	20
13		
14	Presentation by Teck Resources Limited	21
15		
16	KAREN COSTELLO, IAN PARSONS, Affirmed	31
17		
18	Presentation by Aboriginal Affairs and	
19	Northern Development Canada	
20		
21	Nunavut Water Board Staff Questions	42
22	Aboriginal Affairs and Northern Development	
23	Canada	
24		
25	Certificate of Transcript	47
26	Exhibit Index	48

1 NUNAVUT WATER BOARD

2 T. Kabloona Chair of Hearing

3 J. Pameolik Member

4 C. Adjun Member

5

6 NUNAVUT WATER BOARD STAFF

7 T. Meadows Legal Counsel

8 D. Hohnstein Technical Advisor

9 S. Aredes Technical Advisor

10 B. Kogvik Board Secretary/Interpreter

11 M. Porter Licencing Administrator

12

13 INTERPRETERS/TRANSLATORS

14 S. Salluviniq Inuktitut Language Interpreter

15 C. Francis Sound Technician

16 K. McLeod, CSR(A), RPR Official Court Reporter

17

18

19 TECK RESOURCES LIMITED

20 B. Donald Manager, Legacy Properties

21

22 ABORIGINAL AFFAIRS AND NORTHERN DEVELOPMENT CANADA

23 K. Costello Director of Resource

24 Management

25 I. Parsons Regional Coordinator

26

1 (PROCEEDINGS COMMENCED AT 10:03 AM)

2 THE CHAIR KABLOONA: Good morning. Good morning,
3 everyone, and welcome to the public hearing of the
4 renewal and amendment application for Licence
5 1AR-POL0311. This application requests that the Board
6 renew and amend a Type A Water Licence authorizing the
7 use of water and deposit of waste associated with
8 various monitoring and reclamation activities at the
9 former Polaris Mine site. The Polaris Mine site was an
10 underground lead-zinc mine and is located approximately
11 100 kilometres northwest of Resolute Bay. My name is
12 Thomas Kabloona, and I'm the chair of the Nunavut Water
13 Board. Before we proceed with the hearing, let us
14 begin with the prayer, opening prayer, and I'd like to
15 ask Colin Adjun to do the opening prayer.

16 (OPENING PRAYER)

17 Opening by the Chair

18 THE CHAIR: Thank you. Before I move on
19 to the overview of this application and what to expect
20 at this public hearing, there are some important
21 housekeeping items for everyone here: Firstly, there
22 will be interpretation available throughout the
23 hearing, and earpieces are available from the table
24 located at the right. Channel 1 is English; Channel 2
25 is Inuktitut.

26 Secondly, the Board appreciates if everyone signs

1 in at the sign-in sheet located at the table as you
2 come in. This is an important record of the hearing,
3 and we appreciate your help in making sure it's
4 complete. The washrooms are located just through the
5 doors, and the exits are located front and back of the
6 hall. There will be coffee, tea, and snacks located at
7 the tables at the back of the hall during breaks. I
8 would like to remind everyone to please turn off your
9 cell phones before we begin.

10 As a final housekeeping matter, I would like to
11 acknowledge that our plans for the location of this
12 hearing have changed since the notice of public hearing
13 was posted. While we would like to thank the Hamlet of
14 Resolute Bay for agreeing to make the recreation hall
15 available for us for this hearing, as you can see, in
16 order for the Board to ensure we have a full record of
17 these proceedings, we have a lot of sound,
18 interpretation, and transcription equipment.
19 Unfortunately, at the recreation hall, we would not
20 have been able to fit in everything we need. So while
21 we apologize for the last-minute change to the
22 location, we appreciate being able to host the public
23 hearing in the hotel where we can set up our gear and
24 make sure we're all heard, understood, and a proper
25 record is maintained. Thank you to all in attendance
26 here and finding your way to our new location, for

1 bearing with us while we set up last night, and for
2 helping to accommodate the Board's technical meetings
3 for this hearing. We look forward to meeting with you
4 here over the next two days.

5 On behalf of the Nunavut Water Board, I welcome
6 you to the community of Resolute Bay. Now, to provide
7 some background and set the stage for the hearing, the
8 Nunavut Water Board -- which I shall refer to as "the
9 Board" or "the NWB" -- is an institution of public
10 government created under Article 13 of the Nunavut Land
11 Claims Agreement. The NWB is responsible for the use,
12 management, and regulation of fresh water in the
13 Nunavut Settlement Area. The purpose of this public
14 hearing is to review an application filed by Teck
15 Resources Limited -- I will refer to them as "Teck",
16 "the licensee", or "the applicant" -- for the renewal
17 and amendment of Type A Water Licence in accordance
18 with the requirements Nunavut Waters and Nunavut
19 Surface Rights Tribunal Act.

20 Under Section 13.3.6 of the Nunavut Land Claims
21 Agreement and Section 29 of the Nunavut Waters and
22 Nunavut Surface Rights Tribunal Act, the Board has
23 delegated its powers to dispose of all matters relating
24 to the renewal and amendment application for this
25 Type A Licence Number 1AR-POL0311, including conducting
26 this public hearing to a Panel of the Board, which is

1 referred to as "the Panel" or "Panel P12".

2 I will be chairing this Panel, and with me today,
3 as members of the Panel, are Board members Colin Adjun
4 to my right, and to my left is Joseph Pameolik.

5 Several staff members, who have contributed to the
6 NWB's administration and technical review of the
7 application, are present, along with legal counsel to
8 the NWB, and I will introduce the individuals attending
9 today. When I say their name, I ask you to wave so
10 people know who you are: David Hohnstein, director of
11 technical services; Sonia Aredes, technical advisor;
12 Megan Porter, licencing administrator; Teresa Meadows
13 with Shores Jardine LLP, legal counsel to the Board.

14 In addition, we have two interpreters available
15 for simultaneous interpretation, Ben Kogvik, and I
16 understand the other one will probably come later. For
17 our audio, we have Corey Francis from Pido Productions
18 with us. If you have any difficulties with your
19 headsets, please see Corey, and he will assist you. To
20 ensure an accurate record of the proceedings is kept,
21 we have with us a court reporter, Katie McLeod from
22 Dicta Court Reporting Incorporated. To assist our
23 interpreters and court reporter, I ask that all parties
24 please state their name prior to speaking, speak slowly
25 and clearly, and avoid the use of acronyms and
26 abbreviations wherever possible.

1 We also have the assistance of local advisors.
2 Please do not hesitate to ask them for assistance if
3 you need assistance.

4 In the past, parties in other proceedings have
5 approached the media prior to the Board's decision,
6 suggesting comments about what the Board is going to
7 do, either procedurally or in terms of the final
8 result. Since the Board cannot comment on any matters,
9 either confirming or denying the accuracy of statements
10 by others to the media, the Board would appreciate if
11 all parties refrain from making any comments that may
12 imply a certain action or decision by the Board.

13 Board members will not discuss the hearing or the
14 matters before the Board with any parties or the media.
15 If you have questions about the Board and its practices
16 or procedures, please speak of the director of
17 technical services, David Hohnstein, who will assist
18 you.

19 Prior to identifying and introducing all the
20 parties in attendance today, I will provide a brief
21 history of the various licences that have been issued
22 to the former Polaris Mine, well as the current renewal
23 and amendment and renewal application that is before
24 the Board.

25 Before the Nunavut Water Board had jurisdiction of
26 the water management in Nunavut, Northwest Territories

1 Water Board was responsible for issuing water licences
2 in the area. The NWT Water Board issued the original
3 water licence to the Polaris Mine, namely, water
4 licence N4L2-0262 issued in 1981. This was the first
5 in a long line of licences that authorized the use of
6 water and deposit of waste associated with the Polaris
7 Mine. The licence was renewed by the NWT Water Board
8 in 1994 and eventually expired December 31, 2002. The
9 licensee under the NWT licence was Cominco.

10 In 1996, under the mandate of the Nunavut Land
11 Claims Agreement Act, the Nunavut Water Board -- or
12 "NWB" or "Board" -- assumed responsibility for issuing
13 and administering water licences in Nunavut, including
14 the Polaris Mine licence. As a result, when the
15 Polaris Mine water licence was renewed in March 2003,
16 it was the Nunavut Water Board that issued Type A Water
17 Licence NWB1AR-POL0311 to Teck Cominco Limited to
18 authorize water use and waste deposits associated with
19 the closure reclamation activities at the former
20 Polaris Mine. This licence was then amended in 2009
21 upon the request of the licensee to reduce their
22 security under the licence from 33,700,000 to
23 3,539,000, to reflect the completion a number of site
24 reclamation activities. The licence, as amended in
25 2009, expired on December 31st, 2011.

26 I'm going to move on to the application that is

1 subject of this hearing. As mentioned earlier, the
2 application that is currently before the Board is for
3 the renewal and amendment of Type A Water Licence
4 1AR-POL0311 issued to Teck Cominco Limited, now called
5 Teck Resources Limited, for an industrial undertaking
6 at the former Polaris Mine. The scope of the
7 application for this renewal/amendment of the licence
8 is generally as follows: 15-year renewal term from
9 2015 to 2030 allows for post-closure monitoring
10 activities at the former Polaris Mine site; a change in
11 the name of the project to "Former Polaris Mine,
12 Long-Term Monitoring, Little Cornwallis Island;
13 proposed amendment Part B, Item 2 of the licence to
14 include a reduction of reclamation security from the
15 current security amount of 3,539,000 to 1,324,000;
16 proposed amendment to the conditions applying to the
17 monitoring program under Part H, Item 6 of the licence,
18 geotechnical monitoring requirements to take into
19 account a reduction in monitoring and reporting
20 frequencies; proposed amendment to the conditions
21 applying to the monitoring program, Part H, to include
22 reduction in monitoring stations, sampling frequency,
23 and analytical parameters of water quality and effluent
24 monitoring; proposed amendment for Part B, Items 3 and
25 6 of the licence to amend conditions requiring the
26 presentation of quarterly expenditure reports and

1 annual reports; and a proposed amendment to remove
2 conditions applying to water use, waste management, and
3 conditions applying to decommissioning and reclamation.

4 The application to amend and renew the water
5 licence which was received August 31, 2013, includes
6 the following documents: Application cover letter;
7 Number 1, Water Licence Amendment/Renewal Application
8 Form; Number 2, Certificate of Name Change; Number 3,
9 map to address Block 5; Number 4, e-mail, NPC;
10 Number 5, 2002 NPC Conformity Determination; Number 6,
11 e-mail from NIRB (Conformity from NIRB is already
12 filed); Number 7, 2002 NIRB Screening Decision;
13 Number 8(a), Proposed Long-Term Geotechnical
14 Monitoring; Number 8(b), CV, D. Johnson, Golder;
15 Number 8(c), CV, Ross Hammett, Golder; Attachment Number
16 8(d), Proposed Long-Term Garrow Lake Monitoring
17 Program; Number 8(e), CV, B. Baker, Azimuth; Number 9,
18 Community Engagement Report; Number 10, Re: Polaris
19 Mine projected site monitoring costs, 2014 to 2031, on
20 August 29th, 2013; Number 11, Teck Metals list of
21 directors; Number 12, Compliance Assessment and
22 Detailed Amendment Request; Number 12(a), e-mail:
23 Missed 2009; Number 12(b), implications of Sublethal
24 Toxicity Testing Results at Polaris Mine dated April 3,
25 2013; Number 12(c), Former Polaris Mine Decommissioning
26 and Reclamation Summary of Reporting, 2003 to 2011;

1 Number 12(d)(1), Reconciliation of Administrative
2 Requirements of Type A WL on September 2009; Number
3 12(d)(2), response to reconciliation of administrative
4 requirements of Type A on October 18th, 2009; Number
5 13, Executive Summary of Water Licence Amendment
6 Application (English); Number 14, Executive Summary of
7 Water Licence Amendment Application (Inuktitut);
8 Number 17, Evaluation of Limnological and Chemical
9 Conditions of Garrow Lake and Chemistry of Garrow Creek
10 2002 to 2011 dated October 17th, 2011; Number 18,
11 Assessment of Total Dissolved and Metals Concentrations
12 in the Water Column of Garrow Lake dated December 2011;
13 Number 19(a), Polaris 2005 Annual MMER and EEM report;
14 Number 19(b), Polaris Mine Environmental Effects
15 Monitoring (EEM) Interpretive Report Review on
16 Sept. 15, 2006; 19(c), Polaris Environmental Effects
17 Monitoring (EEM) Interpretive Report Review on
18 September 29th, 2006; Number 20(a) Expiry of Licence
19 Letter on October 17th, 2011; Number 20(b), Request for
20 Comments From Parties Regarding Licencee's Proposed
21 Approach to Expiry of Licence 1AR-POL0311; Number
22 20(c), 1AR-POL0311 Teck Resources Limited letter of
23 Proposal for the Cancellation of Existing Water Licence
24 1AR-POL0311 and the application of a new Type B Water
25 Licence for the Polaris Mine Site - Polaris Mine - Teck
26 Resources Limited; Attachment Number 20(d), Comments

1 related to cancellation of Polaris Type A Water Licence
2 on December 22, 2011; Number 21, proposed conditions
3 for water licence.

4 The following documents were received subsequent
5 to the submission of the application and in response to
6 interveners' comments: Former Polaris long-term
7 monitoring program application to renew and amend Water
8 Licence 1AR-POL0311 in response to completeness check
9 on June 19th, 2014; Former Polaris Mine - Supplemental
10 Long-Term Water Monitoring Program Licencing - Teck
11 Resources Limited technical meeting presentation and
12 response to technical comments August 14, 2014;
13 Technical Meeting Commitment Number 1 - Submission of
14 2014 Post-Closure Monitoring Report and Response to the
15 Nunavut Water Board Pre-Hearing Conference Decision on
16 October 17th, 2014; Clarification on the Polaris Mine
17 Reclamation Geotechnical Inspection Schedule, on
18 November 3, 2014; Post-Reclamation Geotechnical
19 Inspection, Former Polaris Mine, Nunavut by Golder
20 Associates dated October 9, 2014, on November 3, 2014;
21 Licence Number 1AR-POL0311- Teck Response to Annual
22 Quarterly Reports Technical and Administrative Review
23 letter, November 14th, 2014; Reclaimed Polaris Mine
24 Site Water Licence Renewal 1AR-POL0311 - Teck Response
25 to Final Comments, November 14th, 2014.

26 Copies of these documents, as well as other

1 documents related to the application and file are
2 available on the NWB's FTP site. In addition, our
3 licencing administrator, Megan Porter, has made
4 available for public viewing at this hearing, paper
5 copies of the documents that have been received to date
6 on this file. If you are interested in reviewing any
7 of the documentation, please ask Megan.

8 Now I'm going to provide you with a summary of the
9 procedural history of the application before the Board:
10 August 31, 2013, Teck Resources Limited submitted an
11 application for the renewal and amendment of Licence
12 1AR-POL0311, and the file was submitted within an
13 application package to renew and amend water licence
14 1AR-POL0311. That's a new Type B licence. October 21,
15 2013, the Nunavut Water Board acknowledged the
16 application and indicated that they would process the
17 application received as a renewal application of the
18 expired Type A Water Licence, rather than a new Type B
19 licence; December 31st, 2013, Teck responded that it
20 agreed to the Type B Water Licence application being
21 considered by the Board as an application for a Type A
22 Water Licence; May 8, 2014, the NWB conducted its
23 preliminary review of the application and distributed
24 it for a completeness check and initial preliminary
25 public review; May 28th, 2014, NWB received comments on
26 completeness from Aboriginal Affairs and Northern

1 Development Canada; June 19th, 2014, Teck responded to
2 submissions from Aboriginal Affairs and Northern
3 Development Canada; July 4, 2014, the NWB indicated
4 that the application was complete, and the NWB
5 distributed the application for a detailed technical
6 review; July 8th, 2014, Nunavut Planning Commission
7 confirmed that the original conformity determination in
8 conducted 2002 still applied and no additional land use
9 conformity determination was required before the
10 application could be referred to the Nunavut Impact
11 Review Board for assessment; July 25, 2014, the Nunavut
12 Impact Review Board confirmed that under Section 12.4.3
13 of the Nunavut Land Claims Agreement, the Nunavut
14 Impact Review Board's original screening decision
15 report from 2002 continued to apply and that no
16 additional NIRB screening was required before the
17 application could be considered by NWB.

18 By August 1st, 2014, technical review submissions
19 were received from intervening parties, Aboriginal
20 Affairs and Northern Development Canada and Environment
21 Canada; August 14th, 2014, Teck submitted a response to
22 technical comments; August 18th, 2014, technical
23 meeting and pre-hearing conference was held by way of
24 teleconference for the application. The parties
25 attending these meetings included the Board's staff,
26 the applicant, and interveners, including Aboriginal

1 Affairs and Northern Development Canada, Environment
2 Canada, and the Grise Fiord Hunters and Trappers
3 Organization. In keeping with the Board's practice,
4 these meetings were conducted by the Board's staff and
5 no Board members were present during these sessions.

6 August 29th, 2014, NWB issued the Pre-Hearing
7 Conference Decision Report that provided further
8 direction to the parties, set the timeline for
9 pre-hearing exchange of information, and established
10 that the form of public hearing would be in person in
11 the community of Resolute Bay during the first week of
12 December; October 7th, 2014, NWB issued the notice of
13 public hearing; October 17th, 2014, Teck submitted the
14 2014 Post-Closure Monitoring Report and Response to NWB
15 Pre-Hearing Conference Decision Report; November 3,
16 2014, Teck submitted clarification on Polaris Mine
17 Post-Reclamation Geotechnical Inspection Schedule;
18 November 3, 2014, Teck submitted the Final Report:
19 Post-Reclamation Geotechnical Inspection, Former
20 Polaris Mine, Nunavut by Golder Associates;
21 November 7th, 2014, NWB submitted the Annual and
22 Quarterly Reports Technical Administrative Review
23 letter; November 7th, 2014, AANDC submitted Technical
24 Review Memorandum on Additional Information for Water
25 Licence Renewal/Amendment - Polaris Mine Property;
26 November 7th, 2014, EC submitted Final Response to Teck

1 Submissions; November 14th, 2014, Teck submitted their
2 Response to Final Comments; November 14th, 2014, Teck
3 responded to Annual and Quarterly Reports Technical and
4 Administrative Review letter; November 14th, 2014, NWB
5 submitted comments regarding licencing of an
6 undertaking nearing the end of the project lifecycle;
7 and November 14th, 2014, NWB responded to recent
8 correspondence regarding the form of public hearing.

9 Based on the applications, written submissions
10 received, and information exchanged to date, NWB's
11 staff listed the following as issues that remain to be
12 addressed at this hearing: Revisions to monitoring and
13 reporting under a renewed licence pursuant to Proposed
14 Supplemental Long-Term Monitoring Program 2014 to 2029;
15 the term of the licence; updated closure and
16 reclamation planning; and security required for the
17 project under the project's amended and renewed
18 licence.

19 If I have missed a written submission of any
20 intervener, please let me know.

21 If there are no concerns, I would now like to move
22 on to a roll call. I will begin the roll call with the
23 applicant, Teck.

24 Roll Call

25 MR. DONALD: My name is Bruce Donald, and I
26 represent --

1 MS. MEADOWS: Please use the microphone so
2 that we can get your comments on the record, please.

3 MR. DONALD: My name is Bruce Donald, and
4 I'm from Teck Resources Limited. I'm the manager of
5 Legacy Properties.

6 THE CHAIR: Could you spell your name,
7 please.

8 MR. DONALD: B-R-U-C-E, D-O-N-A-L-D.

9 THE CHAIR: Okay.

10 AANDC.

11 MS. COSTELLO: Thank you, Mr. Chair. My name
12 is Karen Costello with Aboriginal Affairs and Northern
13 Development Canada. I'm the director of resource
14 management. The spelling of my name is K-A-R-E-N
15 C-O-S-T-E-L-L-O. Thank you.

16 MR. PARSONS: Thank you, Mr. Chair. My name
17 is Ian Parsons, I-A-N, P-A-R-S-O-N-S, and I'm a
18 regional coordinator with Aboriginal Affairs and
19 Northern Development Canada.

20 THE CHAIR: Thank you. It is with regret
21 that I must inform you that Environment Canada will not
22 be in attendance at this hearing. If there are any
23 other interveners not mentioned who would like to
24 speak, please identify yourself.

25 I would also like to note that the Board is
26 expecting several community members from the community

1 of Grise Fiord to arrive this afternoon to join the
2 public hearing, offer their views, and provide their
3 comments and concerns about the application as well.
4 The Board will introduce the representatives when they
5 join us.

6 It is our tradition to give respect to our Elders;
7 therefore, at any time during the proceedings, an Elder
8 may speak to the application that is before the Board.
9 However, before offering your comments, I'd ask that
10 any Elder wishing to speak, let me know or one of the
11 staff know when you want to speak, and please wait
12 until we get a microphone in front of you so that we
13 can ensure that the Board and the court reporter have
14 an accurate record of your comments.

15 If there are any members of the general public who
16 would like to speak, please identify yourselves.

17 Are there any representatives from agencies,
18 associations who have not submitted interventions but
19 would like to speak?

20 There are English and Inuktitut copies of the
21 agenda for the hearing at the back table. I encourage
22 you to pick one up and follow along. As you can see,
23 the hearing is scheduled for 5 PM with at least one
24 break in the morning, an hour for lunch around noon,
25 and then another break in the afternoon. In addition
26 to these breaks, there may also be short breaks as the

1 Board requires, and I will advise everyone when a break
2 is coming up. Please respect the timelines that are
3 set for breaks and return promptly to the hearing. We
4 have a lot to cover, and the Board cannot wait for late
5 arrivals.

6 In addition to this session, tonight from 6:30 to
7 10 PM, the Board will be holding the community session
8 at the same venue. The community session is an
9 opportunity for members of the community to learn
10 about, ask questions, and discuss the project. The
11 meeting will include oral presentations by the major
12 parties. We look forward to meeting you.

13 I will now proceed with the identification of any
14 motions or any objections related to the application
15 that is before the Board.

16 The applicant is requested to make the
17 presentation for the application before the Board.
18 Mr. Donald, how much time will your representatives
19 require, and, Teresa, would you swear the witness?

20 MS. MEADOWS: Thank you, Mr. Chair. Teresa
21 Meadows, legal counsel for the Nunavut Water Board.

22 Mr. Donald, would you like to be sworn or affirmed
23 today?

24 MR. DONALD: Sworn, please.

25 BRUCE DONALD, Sworn

26 MS. MEADOWS: Thank you, Mr. Donald. Now,

1 it's my understanding that you have a PowerPoint
2 presentation with an Inuktitut copy and an English
3 copy.

4 Mr. Chair, with your permission, I would like to
5 enter those as the first two exhibits in this hearing.

6 MR. DONALD: That's correct.

7 EXHIBIT 1 - Hard Copy PowerPoint Presentation
8 from Teck Resources Limited - Former Polaris
9 Mine Application for Renewal of Water Licence
10 1AR-POL0311 for Supplemental Long Term
11 (Monitoring)(English)

12 EXHIBIT 2 - Hard Copy PowerPoint Presentation
13 from Teck Resources Limited - Former Polaris
14 Mine Application for Renewal of Water Licence
15 1AR-POL0311 for Supplemental Long Term
16 (Monitoring)(Inuktitut)

17 MS. MEADOWS: Thank you, Mr. Donald, you may
18 proceed.

19 THE CHAIR: Mr. Donald, where is your
20 presentation?

21 MS. MEADOWS: Oh, Megan, can you queue up
22 presentation? Thank you.

23 Presentation by Teck Resources Limited

24 MR. DONALD: Thank you, Mr. Chair. I think
25 this will take about a half hour, roughly. The
26 presentation I have today is going through, I guess, a

1 summary of our application for the renewal of our water
2 licence for the supplemental long-term monitoring of
3 the former Polaris Mine site.

4 An overview of the presentation is, I'll talk
5 briefly about the location, the history of the mine,
6 I'll go through a few pictures of some of the
7 decommissioning and reclamation work that was done,
8 then some of the monitoring that we did during the last
9 licence, and then talk about the proposed monitoring
10 for the new licence, and then just give a summary of
11 some of the key points that we would like to make in
12 regard to our application.

13 As was mentioned earlier, the mine site is about
14 100 kilometres northwest of Resolute Bay, located at
15 Little Cornwallis Island.

16 I'll see if I can get my pointer to work a little
17 bit better.

18 MR. HOHNSTEIN: You might be able to use the
19 mouse there too. I'm not sure.

20 MR. DONALD: That's probably better. There
21 it is right there.

22 There's a picture of the mine site as it existed
23 right near the end of the mine life. That is the
24 majority of the facilities that existed on the site.
25 There are a few other buildings, but that's the bulk of
26 it. As was mentioned before, it was primarily an

1 underground mine mining lead and zinc. The mine ran
2 from 1981 through until September 2002 when the ore
3 body was mined out. During the life of the mine, we
4 produced about 25 million tonnes of ore, and upon its
5 closure in 2002 in September, we immediately started
6 the reclamation activities, and we took two years to
7 complete those, finishing off in September of 2004.

8 Once reclamation was completed, then between 2004
9 to 2011 when the licence expired, we continued doing
10 the monitoring that was previously approved in our --
11 in our closure plan.

12 Here's a few pictures of the site, and these
13 pictures are in the area shown in the top right-hand
14 corner, and that's a similar area that was shown in
15 the -- in the first slide that we had of the site. And
16 what -- what we can see in these pictures are, first of
17 all, the -- the mill building, which is on the bottom
18 right there. That's where the ore was processed, and
19 they're in the -- in that picture, they're in the
20 process of demolishing the building. In the top
21 right-hand corner, you can see that same -- same
22 building, and the other buildings in the picture on the
23 left are the storage -- or the concentrate storage
24 building, the deep sea port that was used for bringing
25 supplies in, as well as shipping the concentrate out,
26 and up on the top of the hill are -- were the

1 accommodation buildings.

2 The picture on the left shows the amount of -- and
3 sort of scale of some of the excavations we did around
4 the mill building to chase hydrocarbon spills that
5 occurred during the life of the mine. We also cleaned
6 up surface soils that were contaminated with lead and
7 zinc. In total, if memory serves me correct, we moved
8 about 300,000 cubic metres of materials. Most of that
9 went underground. All of the hydrocarbon-contaminated
10 materials went deep down into the underground workings,
11 and most of the metals-contaminated soils. When we ran
12 out of room underground, some of the
13 metals-contaminated soils went over into one of the
14 surface quarries that were ultimately capped at the end
15 of the project.

16 We had a tank farm onsite, and there's a
17 photograph of us demolishing it. The tanks were
18 emptied of fuels, washed out, and then -- and then cut
19 into pieces.

20 There is the quarry that was onsite that we
21 disposed of. The metal building debris from the
22 buildings onsite. Prior to doing any demolition, we
23 removed all the hazardous materials from the buildings,
24 and those were shipped down south for proper disposal.
25 So it was essentially industrial-level debris that was
26 left in the -- in the pit. The bottom right-hand

1 picture is a photograph taken after the -- the
2 1.8-metre minimum thickness cap was -- was put on
3 that -- that area.

4 There's another shot of the mill area, and in the
5 bottom of the picture, if you look, there's a steel
6 structure, and that is the remains of the -- of the
7 mill building. We're now down to the -- kind of the
8 hull. Originally that mill was floated in as a barge,
9 so that's the hull. That -- we did complete
10 demolishing that as well, but at this stage, the hull
11 was still left. You can see the dock itself. We
12 started taking it apart. This picture would have been
13 taken in the summer of 2003, later in the summer when
14 our supply ship was coming up to bring more supplies to
15 allow us to keep working for one more year on the -- on
16 the reclamation.

17 This is a picture of the same site after all the
18 work was done and everything had been removed.

19 This photograph shows the -- one of two landfills
20 on site, and it's a little -- a little hard to see it,
21 but you can see the lighter-coloured material right
22 around in this area. The slopes of the landfill were
23 flattened so that they're stable, and there was a
24 1.8-metre-thick cap placed on top of it as well.

25 In August of 2004, once the reclamation works were
26 completed, all of the remaining materials and equipment

1 that needed to be removed from site were moved down
2 close to the ocean to get ready for shipping down
3 south. At that time, what was left onsite was a few --
4 an exploration camp with a few trailers that we used as
5 our base during monitoring between 2004 and 2011. But
6 apart from that, everything else was shipped off site.

7 There's a picture of the ship coming in at the
8 beginning of September. The date on the slide shows
9 the 6th, 6th of September 2004, and it was the supply
10 ship, I think, that comes up to Resolute came by. And
11 they had barges and tugs, and they removed all the
12 materials that the contractors had brought up to site.
13 And any of the materials that we had -- had sold for
14 recycling, they all left on that one ship. So once
15 the -- once all that had occurred, there's a little
16 picture of Little Corn -- of the mine site once
17 everything was removed, and that's essentially the way
18 it looks today.

19 So Teck feels that it's successfully completed all
20 of the works that were included under our approved
21 decommissioning and closure plan that were part of the
22 last water licence. During that period, Environment
23 Canada -- under the Metal Mining Effluent Act, we
24 satisfied all the environmental monitoring
25 requirements, and as a result of that, was recognized
26 as a closed mine under that regulation. There are no

1 more facilities, people, or equipment remaining at the
2 site. There is one small cabin that we gave to a local
3 resident in town here.

4 And the post-reclamation geotechnical monitoring,
5 the water quality monitoring, they continue to
6 demonstrate the success of the work that was done then.
7 They confirm that the site is stable, both from a
8 physical standpoint, as well as from the chemistry.

9 And we feel that it's a positive example of what mine
10 reclamation should look like, both in Nunavut as well
11 as I think it's an example for southern mines as well.

12 In the proposed water licence that covers
13 supplemental long-term monitoring, because the site has
14 been monitored since 2004, we're now proposing
15 decreasing frequency of monitoring with a monitoring
16 event this year, again in 2019, and then lastly in
17 2029, and that will give continuing confidence that the
18 monitoring will show that the site is -- is stable.

19 We agreed that if any concerns -- significant
20 concerns are identified during the monitoring, that
21 we'll review and increase the monitoring program if
22 it's required, and if there's other steps that we need
23 to take, that we're committed to also follow up on --
24 on those as well.

25 The scope of the long-term monitoring plan that's
26 proposed, as I said, includes site inspections, both by

1 a geotechnical engineer, as well as water quality
2 monitoring of Garrow Creek this year, again in 2019,
3 and lastly in 2029. And also Garrow Lake, to study the
4 water quality through the -- through the water column
5 from the top of the lake down to the bottom to look at
6 the physical structure of the lake, as well as the
7 chemistry, and we've proposed to do that in 2019 and
8 again in 2029.

9 We did do the 2014 monitoring program already, and
10 we've submitted that report to the Water Board. The
11 geotechnical engineer that we used has been looking at
12 the site for -- I forget how many years now, but for
13 half-a-dozen years at least. And so he's quite
14 familiar with the site, and he's satisfied that there's
15 no subsidence issues. And the water sampling that we
16 did continues to show that the water quality is
17 consistent and compliant and as expected, and so we
18 think that the results confirm that the site continues
19 to be stable, and as I've said, we've submitted that
20 report.

21 We would also like to suggest that reports are
22 required, just in the -- in the years where we do the
23 monitoring. The monitoring program has been modified
24 from the original one that we proposed in our
25 monitoring program, and that was as a result of some of
26 the pre-hearing discussions and submissions by both

1 Environment Canada and AANDC. So we're in full
2 agreement between the three parties on both the
3 monitoring schedule, as well as the scope of what is in
4 the monitoring. So from our view, there really aren't
5 any outstanding items in that regard.

6 In our original application, we proposed the
7 reclamation security be established at \$1.324 million,
8 and through our discussions with Aboriginal Affairs,
9 we've agreed to accept their submission that the
10 security is set at \$1.565 million. So we're in
11 agreement with that number.

12 And in the licence, again, I wanted to point out
13 that the next monitoring event we're proposing is in
14 2019 and that the water quality monitoring program is
15 quite a bit different than it was in the last licence
16 and is -- and is focussed to be simple but targeted at
17 the key things that we need to be monitoring.

18 An important point is the licence term that we're
19 proposing is to expire in January 2031, and the last
20 monitoring event is proposed for 2029. So that -- the
21 monitoring would happen likely in the -- in August of
22 2029, and that would give essentially a year-and-a-half
23 for us to get the results back and then have further
24 discussions with the parties, the Water Board, and --
25 and the -- Environment Canada, and Aboriginal Affairs
26 to see if we can come to an agreement and justification

1 that -- after that, that the water licence be -- be
2 cancelled. So we would anticipate that, provided
3 conditions are as we expect they'll be, that, at that
4 point in time, we'll be putting together our case for
5 cancelling the water licence after it expires this
6 time.

7 That comes to the end of my presence, and I -- or
8 presentation, and I, you know, thank you for your
9 attention.

10 THE CHAIR: Thank you. Questions to the
11 applicant by AANDC?

12 MS. COSTELLO: Thank you, Mr. Chair. Karen
13 Costello for Aboriginal Affairs and Northern
14 Development Canada. No questions at this time. We
15 will, however, in our presentation, speak to the
16 various things that the applicant has mentioned in due
17 course. So, as I said, no questions at this time,
18 thank you.

19 THE CHAIR: Thank you. Questions for the
20 applicant by the staff?

21 MR. HOHNSTEIN: Thank you, Mr. Chair. David
22 Hohnstein. No questions from the staff at this point.

23 THE CHAIR: Thank you. Any questions to
24 the applicant by Board members?

25 Thank you. And next we have AANDC doing their
26 presentation.

1 Teresa.

2 MS. MEADOWS: Thank you, Mr. Chair. Teresa
3 Meadows, legal counsel for the Nunavut Water Board.

4 Would you like to be sworn or affirmed?

5 Oh, Mr. Chair, I believe it's been requested that
6 there be a five-minute break while we set up the
7 presentation. Thank you.

8 THE CHAIR: Five-minute break.

9 (ADJOURNMENT)

10 MS. MEADOWS: Mr. Chair, Teresa Meadows,
11 legal counsel for the Nunavut Water Board. I would
12 like to affirm the witnesses now, if they're ready to
13 proceed.

14 KAREN COSTELLO, IAN PARSONS, Affirmed

15 MS. MEADOWS: Mr. Chair, Teresa Meadows,
16 legal counsel for the Nunavut Water Board. I also have
17 before me three written submissions -- or three
18 presentations, hard copy presentations, that you will
19 be providing, being the Executive Summary, the
20 Inuktitut PowerPoint presentation, and the English
21 version of the PowerPoint presentation that you're
22 about to present, and I would like to mark those as
23 Exhibits 3, 4, and 5 in this hearing.

24 MR. PARSONS: Ian Parsons, Aboriginal
25 Affairs. Yeah, I would just like to clarify that.
26 There should be an English Executive Summary as well,

1 and the PowerPoint presentation that we presented has
2 both the English and the Inuktitut versions on the same
3 presentation. They're not separate.

4 MS. MEADOWS: Thank you, Mr. Chair. Subject
5 to those corrections, I will enter the exhibits. My
6 apologies. I mischaracterized the Executive Summary.
7 I believe the Inuktitut version that I have is
8 Inuktitut Executive Summary, the joint PowerPoint
9 presentation, and the English Executive Summary. Thank
10 you, Mr. Chair.

11 EXHIBIT 3 - Hard Copy PowerPoint Presentation
12 from Aboriginal Affairs and Northern
13 Development Canada- Review of Teck Resources
14 Ltd. #1AR-POL0311 Renewal and Amendment
15 Application Nunavut Water Board Public
16 Hearing, December 4, 2014 (English and
17 Inuktitut)

18 EXHIBIT 4 - Hard Copy Executive Summary from
19 Aboriginal Affairs and Northern Development
20 Canada - Water Licence #1AR-POL0311 Polaris
21 Mine Site Teck Resources Ltd. Qikiqtani
22 Region, Nunavut (English)

23 EXHIBIT 5 - Hard Copy Executive Summary from
24 Aboriginal Affairs and Northern Development
25 Canada - Water Licence #1AR-POL0311 Polaris
26 Mine Site Teck Resources Ltd. Qikiqtani

1 Region, Nunavut (Inuktitut)

2 MS. MEADOWS: If you're ready, please
3 proceed.

4 THE CHAIR: Go ahead.

5 Presentation by Aboriginal Affairs and Northern
6 Development Canada

7 MS. COSTELLO: Thank you, Mr. Chair.

8 Good morning, everybody. My name is Karen
9 Costello. I'm the director of resource management for
10 Aboriginal Affairs and Northern Development Canada from
11 the Nunavut regional office. I would like to express
12 my thanks to the Nunavut Water Board for this
13 opportunity to make a presentation and intervention
14 regarding Teck's application to renew its Type A Water
15 Licence for the Polaris Mine property. I'm joined by
16 Ian Parsons with our water resources unit. He is a
17 regional coordinator also with the department's Nunavut
18 regional office. I would like to thank the Water Board
19 for facilitating this licence application review
20 process and our thanks to Teck for responding to our
21 questions and concerns during the same process.

22 Throughout this presentation, I will refer to
23 Aboriginal Affairs and Northern Development Canada as
24 "the department". I will provide a brief overview of
25 the department's responsibilities with respect to the
26 licence renewal application; the contributions that

1 have been made by the department with respect to this
2 process so far. I will provide an update on the
3 technical comments that the department previously
4 provided and how resolution and agreements with respect
5 to these comments has been reached with the applicant.
6 I will also provide a more general summary of where the
7 department is in respect to the end-of-mine-life
8 scenario, which is covered here under "Other Water
9 Licencing Considerations".

10 Aboriginal Affairs and Northern Development Canada
11 has a broad mandate to ensure protection of Nunavut's
12 freshwater resources and to manage Crown land in
13 Nunavut under a series of applicable laws and acts.
14 And on the slide in front of you, I have listed the
15 Department of Indian and Northern Development Act, the
16 Nunavut Land Claims Agreement Act, the Nunavut Waters
17 and Nunavut Surface Rights Tribunal Act and the
18 associated regulations, and the Territorial Lands Act
19 and its associated regulations. The department
20 administers and enforces regulatory authorizations that
21 pertain to Nunavut's Crown land and freshwater
22 resources. We participate in the water licence process
23 administered by the Nunavut Water Board, along with
24 other interested parties, and we provide technical
25 advice and expertise for the Board's consideration.

26 As part of the Polaris water licence renewal and

1 amendment process, the department has submitted three
2 reviews to the Board. The department reviewed the
3 scope of the information included in the renewal
4 amendment application and recommended further
5 information requests. This was documented in a written
6 memorandum provided June 2nd, 2014. The department
7 conducted a technical review of the renewal and
8 amendment application. A submission was provided for
9 the Board's consideration as a written memo on
10 July 31st, 2014. The department conducted a further
11 technical review on additional documentation pertaining
12 to the application, and these comments and
13 recommendations were provided for the Board's
14 consideration in a written memo on November 7th, 2014.

15 In response to our submissions, the applicant,
16 Teck, has provided clarification and additional
17 information on all issues. As well, Aboriginal Affairs
18 and Teck have engaged in several discussions, and as
19 mentioned earlier by the applicant, agreement has been
20 reached on all outstanding issues prior to today's
21 public hearing.

22 Our first recommendation had to do with
23 geotechnical monitoring. The department is satisfied
24 with the proposed geotechnical monitoring frequency as
25 described in the licence application with inspections
26 occurring in years 2019 and 2024. The 2014

1 inspection -- geotechnical inspection -- monitoring
2 inspection has already occurred. If geotechnical
3 monitoring should indicate that the site is becoming
4 unstable in any way as a result of one of these
5 inspections or as a result of Aboriginal Affairs
6 identifying the risk to people and wildlife, the
7 frequency of inspection should be increased in
8 accordance with the risk posed. That being said, the
9 department is satisfied with the commitment by the
10 applicant and recommends that it be included in the
11 water licence.

12 I recognize that not a lot of people have been to
13 site, so we have included some photos that show some of
14 the -- the issues that we've commented on. This is an
15 area where there's -- on Slide 6. It's labeled as an
16 example of where there's been some subsidence. We have
17 confirmed with Teck that this is superficial settling
18 and the result of ice lenses thawing in the active
19 layer.

20 This is another example. You can see it's just
21 along a small slope, and for scale, there is a person
22 in the -- in the background. So it's just some -- some
23 gentle -- gentle slumping.

24 Within some of the areas of the mine site, there
25 are some of the bore-hole raises that were filled, and
26 there has been a little bit of settling around them.

1 And this image probably was taken in this field season
2 as part of our on-the-ground inspection, and this was
3 probably the most extreme case we found. For scale,
4 the diameter of that -- that raise, I think we're
5 looking at about 6 feet. I believe that's, yeah, 5 or
6 6 feet.

7 Our second recommendation had to do with water
8 quality monitoring, and Aboriginal Affairs supports the
9 adoption of the long-term water quality monitoring
10 program as proposed in the application, and we are
11 recommending that the water licence should provide a
12 mechanism to increase monitoring frequency if there is
13 an upward trend or exceedance of water licence
14 parameter limits documented during a monitoring event.

15 This is an aerial view of Garrow Creek at the
16 Polaris Mine site. Garrow Creek drains from Garrow
17 Lake. The central part of the photo that's this
18 buff-coloured area, represents where there was a dam
19 that was put across Garrow Creek during the time that
20 tailings were deposited into Garrow Lake. This allowed
21 the water level in Garrow Lake to be increased. Garrow
22 Creek was allowed to return to following its natural
23 drainage following Environment Canada's determination
24 under the Metal Mining Regulations. And this photo,
25 again, was taken this past July.

26 The third area that we had a recommendation on was

1 with regard to the amount of security. The security
2 estimate of 1,564,994 was agreed upon by Teck in its
3 November 14th, 2014, submission to the Water Board.
4 This represents a reduction in the security that is
5 currently held, a reduction in the amount of
6 approximately \$2 million. If you want the math, it's
7 \$1,974,006 reduction. The security estimate has taken
8 into account the geotechnical and water quality
9 monitoring events for both 2019 and 2029, as well as
10 taking in any adaptive management measures that may be
11 required. The security amount also takes into account
12 the need for contingency fencing around areas, should
13 subsidence issues require it.

14 And further to that, Recommendation 4 of our
15 submission had to do with the need for signage. After
16 further discussions with the applicant on what would be
17 a reasonable mitigation measure to mitigate potential
18 safety issues from subsidence, it was agreed that the
19 erecting of some form of warning signs with a durable
20 base would be the most reasonable measure, based on a
21 number of factors such as location, durability, and
22 ongoing maintenance, and availability of resources and
23 costs. We could encourage Teck to engage the community
24 on what that signage should say and what might be
25 appropriate.

26 Slide 13 gives a perspective of some of the

1 general area, and it's within this area, just along the
2 sides here on this side slope, where there had been
3 some -- some slumping, and as you can see, all the
4 infrastructure is gone. And while it is obvious that
5 there has been activity on the land, the site has been
6 returned to its natural use, as per the reclamation
7 plan.

8 During the pre-hearing conference report -- or
9 pre-hearing conference in August, the department made a
10 commitment to speak to end-of-mine-life and the
11 potential to cancel a Type A Water Licence. I would
12 like to offer the following comments for the Board's
13 consideration at this time: The department believes
14 that the ultimate closure of the Polaris Mine site
15 should be considered through the Type A Water Licence
16 review process, as triggered by an application from the
17 licensee to cancel the licence. This would allow for a
18 full and public review of the situation and would
19 better make available to the minister all of the
20 relevant facts needed for a well-informed decision.
21 And if we look back to what the Nunavut Water Board
22 wrote in its November 17th, 2011, letter, the Board
23 stated that it must establish that Teck has made -- has
24 met all of the terms and conditions of the water
25 licence and that the licenced undertaking is in a
26 stable state and that the reclamation has been in a

1 manner that ensures the objectives of the licence and
2 the Nunavut Waters and Nunavut Surface Rights Tribunal
3 Act are met. That is something we -- we share with the
4 Board.

5 So with respect to the Board's Type A Licence
6 process, the department would expect that the
7 application for cancellation would in -- would include
8 evidence that the objectives of reclamation plan have
9 been successfully met, that the site is physically and
10 chemically stable and in such a condition that it
11 requires no long-term active care. We would expect
12 that the application would contain an overview of all
13 the historical reclamation work undertaken to date, and
14 the reclamation of site would be verified through an
15 inspection by the department.

16 The decision to cancel the licence would lie with
17 the minister, and should the licence be cancelled, any
18 security held by the minister would be returned. That
19 being said, the department is still trying to
20 investigate the scope of Section 46 of the Nunavut
21 Waters and Nunavut Surface Rights Tribunal Act that has
22 the following statement that: (as read)

23 The expiry or cancellation of the licence
24 does not resolve the holder from any
25 obligations imposed by the licence.

26 As I said, that is something we're working on, but with

1 regard to the Polaris Mine site, we have benefitted
2 from a very good working relationship with the
3 applicant. They have been very responsive to any of
4 our questions and issues that we have raised, either
5 through review of their submissions as part of the
6 licence process, or through the findings from our
7 inspections.

8 So in conclusion, I just wanted to just touch on
9 those to summarize our five points. We have agreed on
10 the proposed geotechnical monitoring program, and the
11 proposed water quality monitoring program should be
12 adopted with the condition that if water quality
13 parameters exceed limits defined in the licence or if
14 there is an upward trend, more frequent water quality
15 monitoring will be conducted. Financial security
16 currently held by the licence may be reduced. The use
17 of signage to advise people of any areas of subsidence
18 is a recommended approach, and we -- the department
19 will continue to be active on this licence through the
20 review of annual reports filed with the Board by the
21 applicant, and also the department will continue to
22 work internally on formalizing its policy for
23 end-of-mine-life and engage interested parties
24 appropriately. This document will be released to the
25 NIRB once the department has completed the internal
26 review process.

1 That concludes -- that concludes the submission
2 from Aboriginal Affairs at this time. I'm happy to
3 take any questions. Thank you.

4 THE CHAIR: Thank you.

5 Questions to AANDC from the applicant?

6 MR. DONALD: Bruce Donald. There are none.

7 THE CHAIR: Questions to AANDC from staff?
8 Nunavut Water Board Staff Questions Aboriginal Affairs
9 and Northern Development Canada

10 MR. HOHNSTEIN: Thank you, Mr. Chair. David
11 Hohnstein, Nunavut Water Board. My technical advisor,
12 Sonia Aredes, doesn't have any questions at this point.
13 I've got a couple questions for AANDC, and it may -- it
14 may extend to Teck as well, based on some of the
15 information that was provided here in the presentation.

16 Looking at the first two, I guess, concluding
17 statements regarding the geotechnical and the water
18 quality monitoring, there was reference to increased
19 monitoring, should -- should trends be identified, and
20 given -- given the fact that we're only looking at, you
21 know, minimal monitoring over the next 15 years, I was
22 curious as to AANDC's recommendations, should the next
23 monitoring program identify or come up with some
24 anomalies or erroneous results, especially with the
25 water quality, what would be the recommendations moving
26 towards, you know, any additional monitoring required?

1 Thank you.

2 MS. COSTELLO: Thank you, Mr. Chair, for the
3 question. Karen Costello for Aboriginal Affairs and
4 Northern Development Canada. The applicant has
5 proposed a -- as you said, a monitoring schedule that
6 started with 2014, would go to 2019, and then next go
7 to 2029. The results to date have shown stability.
8 We -- there is the possibility and the likelihood that
9 the department will or may conduct its own inspections
10 and monitoring off cycle to the -- to the applicant's,
11 and, of course, those informations -- as we do with all
12 of our inspection reports -- would be filed with the
13 Board. And as I understood, you were kind of looking
14 for us if -- if there is an upward trend, if we -- say
15 we take samples in 2017, as just an example, we would
16 pass that on -- that information on as part of the
17 submission to the Board. The applicant would be there
18 in 2019, based on this proposal, and that would be --
19 that would be a way of determining if there was -- if
20 there was any upward trend, and/or if one year was
21 anomalous. I think the monitoring frequency would have
22 to be in accordance with the level of risk. If we're
23 seeing an order of magnitude increase, then we might
24 want to consider increasing the monitoring to -- to
25 what it was in the past. Right now our monitoring
26 schedule that is being proposed is consistent with what

1 has been done as part of our contaminated sites program
2 long-term monitoring and also for the DEW line basis.
3 So I'm not too sure if you're looking for specifics,
4 that we want to -- wanted the monitoring to go back to
5 being every 'X' number of years?

6 MR. HOHNSTEIN: Thank you, Mr. Chair. Thanks,
7 Karen. David Hohnstein, Nunavut Water Board. Yeah, I
8 was -- I think, you know, part of my question was
9 answered with some confirmation that AANDC's
10 inspections would be looking at being carried out off
11 cycle with the -- with the Teck required or planned
12 monitoring at site, which would provide some additional
13 information, I guess to -- to the information provided
14 through the proposed monitoring schedule from Teck.
15 So -- and, I guess, you know, the geotechnical
16 inspection portion of the monitoring is fairly, I
17 guess, concrete. You know, the evidence is physical;
18 whereas, you know, the water quality monitoring end,
19 you don't really know what results you've got until the
20 samples are submitted to the labs and the results come
21 back. So I guess I was looking to, you know, what --
22 what followup there might be should, you know, a
23 season's of sampling come back with some erroneous lab
24 results, you know, whether AANDC might look to having
25 their inspection follow up the following year, or, you
26 know, direction to Teck as far as confirmatory sampling

1 in the following season. Thank you.

2 MS. COSTELLO: Karen Costello for Aboriginal
3 Affairs. Like I said, it is probably -- in all
4 likelihood, we would -- it would prudent from the
5 department's standpoint to conduct its own sampling,
6 either off cycle, or even at the same time as -- as
7 the -- as the company. And that way, there's two sets
8 of results. But we would also -- any submission
9 from -- from the company on its reports after its
10 monitoring programs would be evaluated and comments on
11 it. We would definitely, if we saw a concern, that
12 would be articulated with a submission to the Water
13 Board. And I would hope that, since the site has been
14 stable, that, should a negative trend occur, that the
15 company would -- it would be in the best interest of
16 the company to do what was necessary to verify if those
17 results were valid or if there was somehow an "oopsie"
18 in the sampling or something. Thanks.

19 MR. HOHNSTEIN: Thank you very much. David
20 Hohnstein, Nunavut Water Board. Thanks again, Karen.
21 Yeah, just looking for some clarification as to what
22 direction might be taken should there be some -- some
23 erroneous results through the monitoring. Thanks,
24 Mr. Chair. No further questions.

25 THE CHAIR: Thank you. Any questions from
26 Board members?

1 It looks like we're very close to lunchtime now,
2 so we'll adjourn for lunch and be back for
3 approximately 1:00.

4 (LUNCHEON ADJOURNMENT AT 11:42 AM)

5 (PROCEEDINGS RECOMMENCED AT 1:08 PM)

6 THE CHAIR: Welcome back, everyone. I
7 said earlier that we'll reconvene at 1:00, but I've
8 been advised that, due to the weather issues in Grise
9 Fiord, we will be waiting for a weather update for
10 1:30, and then once we have an update, we'll endeavour
11 to let everyone know what the next steps will be.
12 Thank you.

13 (ADJOURNMENT)

14 THE CHAIR: Our update so far is that the
15 plane is going to Grise Fiord and is bringing people in
16 this afternoon. They will be here around 5. So we
17 will adjourn until 6:30 tonight, as per the schedule;
18 6:30 for community session as well. So we'll see you
19 back here at 6:30.

20 MR. DONALD: Sounds good.

21 THE CHAIR: Any objections? Okay.

22 _____

23 PROCEEDINGS ADJOURNED UNTIL 6:30 PM

24 _____

25

26

1 CERTIFICATE OF TRANSCRIPT:

2

3 I, Katie McLeod, certify that the foregoing pages
4 are a complete and accurate transcript of the
5 proceedings, taken down by me in shorthand and
6 transcribed from my shorthand notes to the best of my
7 skill and ability.

8 Dated at the City of Calgary, Province of Alberta,
9 this 10th day of December 2014.

10

11

12

13

Katie McLeod



14 Katie McLeod, CSR(A), RPR

15 Official Court Reporter

16

17

18

19

20

21

22

23

24

25

26

EXHIBITS ENTERED

DECEMBER 4, 2014

PAGE NUMBER:

EXHIBIT 1 - Hard Copy PowerPoint 21

Presentation from Teck Resources Limited -
Former Polaris Mine Application for
Renewal of Water Licence 1AR-POL0311 for
Supplemental Long Term (Monitoring)
(English)

EXHIBIT 2 - Hard Copy PowerPoint 21

Presentation from Teck Resources Limited -
Former Polaris Mine Application for
Renewal of Water Licence 1AR-POL0311 for
Supplemental Long Term (Monitoring)
(Inuktitut)

EXHIBIT 3 - Hard Copy PowerPoint 32

Presentation from Aboriginal Affairs and
Northern Development Canada- Review of
Teck Resources Ltd. #1AR-POL0311 Renewal
and Amendment Application Nunavut Water
Board Public Hearing, December 4, 2014
(English and Inuktitut)

1	EXHIBIT 4 - Hard Copy Executive Summary	32
2	from Aboriginal Affairs and Northern	
3	Development Canada - Water Licence	
4	#1AR-POL0311 Polaris Mine Site Teck	
5	Resources Ltd. Qikiqtani Region, Nunavut	
6	(English)	
7		
8	EXHIBIT 5 - Hard Copy Executive Summary	32
9	from Aboriginal Affairs and Northern	
10	Development Canada - Water Licence	
11	#1AR-POL0311 Polaris Mine Site Teck	
12	Resources Ltd. Qikiqtani Region, Nunavut	
13	(Inuktitut)	
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		

A	9:19,24 10:10 23:6	2:22 3:22 14:26 15:2,20 16:1 18:12,18 29:8 29:25 30:13 31:25 32:12,19 32:24 33:5,10 33:23 34:10 35:17 36:5 37:8 42:2,8 43:3 45:3 48:21 49:2,9	Amendment/Re... 11:7 amount (5) 10:15 24:2 38:1,5,11 analytical (1) 10:23 and/or (1) 43:20 annual (6) 11:1 12:13 13:21 16:21 17:3 41:20 anomalies (1) 42:24 anomalous (1) 43:21 answered (1) 44:9 anticipate (1) 30:2 apart (2) 25:12 26:6 apologies (1) 32:6 apologize (1) 5:21 Appearances (1) 2:6 applicable (1) 34:13 applicant (18) 6:16 15:26 17:23 20:16 30:11,16,20,24 34:5 35:15,19 36:10 38:16 41:3,21 42:5 43:4,17 applicant's (1) 43:10 application (58) 1:9 4:4,5,19 6:14,24 7:7 8:23 9:26 10:2,7 11:4 11:6,7 12:6,7,24 13:5,7 14:1,9,11 14:13,16,17,17 14:20,21,23 15:4,5,10,17,24 19:3,8 20:14,17 21:9,14 22:1,12	29:6 32:15 33:14,19,26 35:4,8,12,25 37:10 39:16 40:7,12 48:8,15 48:24 applications (1) 17:9 applied (1) 15:8 apply (1) 15:15 applying (4) 10:16,21 11:2,3 appreciate (3) 5:3 5:22 8:10 appreciates (1) 4:26 approach (2) 12:21 41:18 approached (1) 8:5 appropriate (1) 38:25 appropriately (1) 41:24 approved (2) 23:10 26:20 approximately ... 4:10 38:6 46:3 April (1) 11:24 area (12) 6:13 9:2 23:13,14 25:3,4 25:22 36:15 37:18,26 39:1,1 areas (3) 36:24 38:12 41:17 Aredes (3) 3:9 7:11 42:12 arrivals (1) 20:5 arrive (1) 19:1 Article (1) 6:10 articulated (1) 45:12 assessment (3) 11:21 12:11 15:11 assist (3) 7:19,22 8:17
AANDC (9) 16:23 18:10 29:1 30:11,25 42:5,7 42:13 44:24 AANDC's (2) 42:22 44:9 abbreviations (1) 7:26 ability (1) 47:7 able (3) 5:20,22 22:18 Aboriginal (30) 2:18,22 3:22 14:26 15:2,19 15:26 18:12,18 29:8,25 30:13 31:24 32:12,19 32:24 33:5,10 33:23 34:10 35:17 36:5 37:8 42:2,8 43:3 45:2 48:21 49:2,9 accept (1) 29:9 accommodate (1) 6:2 accommodatio... 24:1 account (3) 10:19 38:8,11 accuracy (1) 8:9 accurate (3) 7:20 19:14 47:4 acknowledge (1) 5:11 acknowledged (1) 14:15 acronyms (1) 7:25 Act (10) 6:19,22 9:11 26:23 34:15,16,17,18 40:3,21 action (1) 8:12 active (3) 36:18 40:11 41:19 activities (5) 4:8	activity (1) 39:5 acts (1) 34:13 adaptive (1) 38:10 addition (4) 7:14 14:2 19:25 20:6 additional (7) 15:8,16 16:24 35:11,16 42:26 44:12 address (1) 11:9 addressed (1) 17:12 adjourn (2) 46:2 46:17 ADJOURNED ... 46:23 ADJOURNME... 31:9 46:4,13 Adjun (3) 3:4 4:15 7:3 administered (1) 34:23 administering (1) 9:13 administers (1) 34:20 administration ... 7:6 administrative ... 12:1,3 13:22 16:22 17:4 administrator (3) 3:11 7:12 14:3 adopted (1) 41:12 adoption (1) 37:9 advice (1) 34:25 advise (2) 20:1 41:17 advised (1) 46:8 advisor (4) 3:8,9 7:11 42:11 advisors (1) 8:1 aerial (1) 37:15 Affairs (30) 2:18	affirm (1) 31:12 affirmed (4) 2:16 20:22 31:4,14 afternoon (3) 19:1,25 46:16 agencies (1) 19:17 agenda (1) 19:21 agreed (6) 14:20 27:19 29:9 38:2 38:18 41:9 agreeing (1) 5:14 agreement (9) 6:11,21 9:11 15:13 29:2,11 29:26 34:16 35:19 agreements (1) 34:4 ahead (1) 33:4 Alberta (1) 47:8 allow (2) 25:15 39:17 allowed (2) 37:20 37:22 allows (1) 10:9 amend (5) 4:6 10:25 11:4 13:7 14:13 amended (3) 9:20 9:24 17:17 amendment (19) 4:4 6:17,24 8:23 10:3,13,16,20 10:24 11:1,22 12:5,7 14:11 32:14 35:1,4,8 48:24		

B (9) 3:10,20
10:13,24 11:17
12:24 14:14,18
14:20
B-R-U-C-E (1)
18:8
back (11) 5:5,7
19:21 29:23

39:21 44:4,21
44:23 46:2,6,19
background (2)
6:7 36:22
Baker (1) 11:17
barge (1) 25:8
barges (1) 26:11
base (2) 26:5
38:20
based (4) 17:9
38:20 42:14
43:18
basis (1) 44:2
Bay (6) 1:18 4:11
5:14 6:6 16:11
22:14
bearing (1) 6:1
becoming (1) 36:3
beginning (1)
26:8
behalf (1) 6:5
believe (3) 31:5
32:7 37:5
believes (1) 39:13
Ben (1) 7:15
benefitted (1)
41:1
best (2) 45:15
47:6
better (3) 22:17
22:20 39:19
bit (3) 22:17
29:15 36:26
Block (1) 11:9
Board (74) 1:3
2:21 3:1,6,10
4:5,13,26 5:16
6:5,8,9,22,26
7:3,13 8:6,8,10
8:12,13,14,15
8:24,25 9:1,2,7
9:11,12,16 10:2
13:15 14:9,15
14:21 15:11,12
16:5 18:25 19:4
19:8,13 20:1,4,7
20:15,17,21

28:10 29:24
30:24 31:3,11
31:16 32:15
33:12,18 34:23
35:2 38:3 39:21
39:22 40:4
41:20 42:8,11
43:13,17 44:7
45:13,20,26
48:25
Board's (11) 6:2
8:5 15:14,25
16:3,4 34:25
35:9,13 39:12
40:5
body (1) 23:3
bore-hole (1)
36:25
bottom (4) 23:17
24:26 25:5 28:5
break (5) 19:24
19:25 20:1 31:6
31:8
breaks (4) 5:7
19:26,26 20:3
brief (2) 8:20
33:24
briefly (1) 22:5
bring (1) 25:14
bringing (2)
23:24 46:15
broad (1) 34:11
brought (1) 26:12
Bruce (5) 2:12
17:25 18:3
20:25 42:6
buff-coloured (1)
37:18
building (7) 23:17
23:20,22,24
24:4,21 25:7
buildings (5)
22:25 23:22
24:1,22,23
bulk (1) 22:25

C (2) 3:4,15
C-O-S-T-E-L-L...
 18:15
cabin (1) 27:2
Calgary (1) 47:8
call (4) 2:10 17:22
 17:22,24
called (1) 10:4
camp (1) 26:4
Canada (26) 2:19
 2:23 3:22 15:1,3
 15:20,21 16:1,2
 18:13,19,21
 26:23 29:1,25
 30:14 32:20,25
 33:6,10,23
 34:10 42:9 43:4
 49:3,10
Canada's (1)
 37:23
Canada- (2)
 32:13 48:22
cancel (3) 39:11
 39:17 40:16
cancellation (4)
 12:23 13:1 40:7
 40:23
cancelled (2) 30:2
 40:17
cancelling (1)
 30:5
cap (2) 25:2,24
capped (1) 24:14
care (1) 40:11
carried (1) 44:10
case (2) 30:4 37:3
cell (1) 5:9
central (1) 37:17
certain (1) 8:12
Certificate (3)
 2:25 11:8 47:1
certify (1) 47:3
chair (39) 2:8 3:2
 4:2,12,17,18
 18:6,9,11,16,20
 20:20 21:4,19
 21:24 30:10,12

30:19,21,23
31:2,5,8,10,15
32:4,10 33:4,7
42:4,7,10 43:2
44:6 45:24,25
46:6,14,21
chairing (1) 7:2
change (3) 5:21
10:10 11:8
changed (1) 5:12
Channel (2) 4:24
4:24
chase (1) 24:4
check (2) 13:8
14:24
Chemical (1) 12:8
chemically (1)
40:10
chemistry (3)
12:9 27:8 28:7
City (1) 47:8
Claims (5) 6:11
6:20 9:11 15:13
34:16
clarification (4)
13:16 16:16
35:16 45:21
clarify (1) 31:25
cleaned (1) 24:5
clearly (1) 7:25
close (2) 26:2 46:1
closed (1) 26:26
closure (6) 9:19
17:15 23:5,11
26:21 39:14
coffee (1) 5:6
Colin (2) 4:15 7:3
column (2) 12:12
28:4
come (6) 5:2 7:16
29:26 42:23
44:20,23
comes (2) 26:10
30:7
Cominco (3) 9:9
9:17 10:4
coming (3) 20:2

25:14 26:7 COMMENCE... 4:1 comment (1) 8:8 commented (1) 36:14 comments (20) 8:6,11 12:20,26 13:6,12,25 14:25 15:22 17:2,5 18:2 19:3 19:9,14 34:3,5 35:12 39:12 45:10 Commission (1) 15:6 commitment (3) 13:13 36:9 39:10 committed (1) 27:23 community (10) 6:6 11:18 16:11 18:26,26 20:7,8 20:9 38:23 46:18 company (4) 45:7 45:9,15,16 complete (5) 5:4 15:4 23:7 25:9 47:4 completed (4) 23:8 25:26 26:19 41:25 completeness (3) 13:8 14:24,26 completion (1) 9:23 Compliance (1) 11:21 compliant (1) 28:17 concentrate (2) 23:23,25 Concentrations... 12:11 concern (1) 45:11	concerns (5) 17:21 19:3 27:19,20 33:21 concludes (2) 42:1,1 concluding (1) 42:16 conclusion (1) 41:8 concrete (1) 44:17 condition (2) 40:10 41:12 conditions (9) 10:16,20,25 11:2,3 12:9 13:2 30:3 39:24 conduct (2) 43:9 45:5 conducted (6) 14:22 15:8 16:4 35:7,10 41:15 conducting (1) 6:25 conference (6) 13:15 15:23 16:7,15 39:8,9 confidence (1) 27:17 confirm (2) 27:7 28:18 confirmation (1) 44:9 confirmatory (1) 44:26 confirmed (3) 15:7,12 36:17 confirming (1) 8:9 conformity (4) 11:10,11 15:7,9 consider (1) 43:24 consideration (4) 34:25 35:9,14 39:13 Considerations ... 34:9 considered (3)	14:21 15:17 39:15 consistent (2) 28:17 43:26 contain (1) 40:12 contaminated (2) 24:6 44:1 CONTENTS (1) 2:1 contingency (1) 38:12 continue (3) 27:5 41:19,21 continued (2) 15:15 23:9 continues (2) 28:16,18 continuing (1) 27:17 contractors (1) 26:12 contributed (1) 7:5 contributions (1) 33:26 coordinator (3) 3:25 18:18 33:17 copies (3) 13:26 14:5 19:20 copy (13) 21:2,3,7 21:12 31:18 32:11,18,23 48:6,13,20 49:1 49:8 Corey (2) 7:17,19 Corn (1) 26:16 corner (2) 23:14 23:21 Cornwallis (2) 10:12 22:15 correct (2) 21:6 24:7 corrections (1) 32:5 correspondence... 17:8	Costello (13) 2:16 3:23 18:11,12 30:12,13 31:14 33:7,9 43:2,3 45:2,2 costs (2) 11:19 38:23 counsel (7) 3:7 7:7,13 20:21 31:3,11,16 couple (1) 42:13 course (2) 30:17 43:11 court (6) 3:16 7:21,22,23 19:13 47:15 cover (2) 11:6 20:4 covered (1) 34:8 covers (1) 27:12 created (1) 6:10 Creek (6) 12:9 28:2 37:15,16 37:19,22 Crown (2) 34:12 34:21 CSR(A) (2) 3:16 47:14 cubic (1) 24:8 curious (1) 42:22 current (2) 8:22 10:15 currently (3) 10:2 38:5 41:16 cut (1) 24:18 CV (3) 11:14,15 11:17 cycle (3) 43:10 44:11 45:6 <hr/> D <hr/> D (2) 3:8 11:14 D-O-N-A-L-D (1) 18:8 dam (1) 37:18 date (5) 14:5 17:10 26:8	40:13 43:7 dated (5) 11:24 12:10,12 13:20 47:8 David (6) 7:10 8:17 30:21 42:10 44:7 45:19 day (1) 47:9 days (1) 6:4 debris (2) 24:21 24:25 December (12) 1:19 2:4 9:8,25 12:12 13:2 14:19 16:12 32:16 47:9 48:2 48:25 decision (9) 8:5 8:12 11:12 13:15 15:14 16:7,15 39:20 40:16 decommissioni... 11:3,25 22:7 26:21 decreasing (1) 27:15 deep (2) 23:24 24:10 defined (1) 41:13 definitely (1) 45:11 delegated (1) 6:23 demolishing (3) 23:20 24:17 25:10 demolition (1) 24:22 demonstrate (1) 27:6 denying (1) 8:9 department (21) 33:24 34:1,3,7 34:15,19 35:1,2 35:6,10,23 36:9 39:9,13 40:6,15
--	---	--	---	--

40:19 41:18,21 41:25 43:9 department's (3) 33:17,25 45:5 deposit (2) 4:7 9:6 deposited (1) 37:20 deposits (1) 9:18 described (1) 35:25 Description (1) 2:3 detailed (2) 11:22 15:5 determination (4) 11:10 15:7,9 37:23 determining (1) 43:19 Development (23) 2:19,22 3:22 15:1,3,20 16:1 18:13,19 30:14 32:13,19,24 33:6,10,23 34:10,15 42:9 43:4 48:22 49:3 49:10 DEW (1) 44:2 diameter (1) 37:4 Dicta (1) 7:22 different (1) 29:15 difficulties (1) 7:18 direction (3) 16:8 44:26 45:22 director (5) 3:23 7:10 8:16 18:13 33:9 directors (1) 11:21 discuss (2) 8:13 20:10 discussions (5) 28:26 29:8,24 35:18 38:16	disposal (1) 24:24 dispose (1) 6:23 disposed (1) 24:21 Dissolved (1) 12:11 distributed (2) 14:23 15:5 dock (1) 25:11 document (1) 41:24 documentation ... 14:7 35:11 documented (2) 35:5 37:14 documents (5) 11:6 13:4,26 14:1,5 doing (3) 23:9 24:22 30:25 Donald (20) 2:12 3:20 17:25,25 18:3,3,8 20:18 20:22,24,25,26 21:6,17,19,24 22:20 42:6,6 46:20 doors (1) 5:5 drainage (1) 37:23 drains (1) 37:16 due (2) 30:16 46:8 durability (1) 38:21 durable (1) 38:19	12:16 effluent (2) 10:23 26:23 either (4) 8:7,9 41:4 45:6 Elder (2) 19:7,10 Elders (1) 19:6 emptied (1) 24:18 encourage (2) 19:21 38:23 end-of-mine-lif... 34:7 39:10 41:23 endeavour (1) 46:10 enforces (1) 34:20 engage (2) 38:23 41:23 engaged (1) 35:18 Engagement (1) 11:18 engineer (2) 28:1 28:11 English (14) 4:24 12:6 19:20 21:2 21:11 31:20,26 32:2,9,16,22 48:11,26 49:6 ensure (4) 5:16 7:20 19:13 34:11 ensures (1) 40:1 enter (2) 21:5 32:5 ENTERED (1) 48:1 Environment (7) 15:20 16:1 18:21 26:22 29:1,25 37:23 environmental ... 12:14,16 26:24 equipment (3) 5:18 25:26 27:1 erecting (1) 38:19 erroneous (3) 42:24 44:23	45:23 especially (1) 42:24 essentially (3) 24:25 26:17 29:22 establish (1) 39:23 established (2) 16:9 29:7 estimate (2) 38:2 38:7 evaluated (1) 45:10 Evaluation (1) 12:8 event (4) 27:16 29:13,20 37:14 events (1) 38:9 eventually (1) 9:8 everybody (1) 33:8 evidence (2) 40:8 44:17 example (5) 27:9 27:11 36:16,20 43:15 excavations (1) 24:3 exceed (1) 41:13 exceedance (1) 37:13 exchange (1) 16:9 exchanged (1) 17:10 Executive (11) 12:5,6 31:19,26 32:6,8,9,18,23 49:1,8 Exhibit (11) 2:26 21:7,12 32:11 32:18,23 48:6 48:13,20 49:1,8 exhibits (4) 21:5 31:23 32:5 48:1 existed (2) 22:22 22:24	Existing (1) 12:23 exits (1) 5:5 expect (4) 4:19 30:3 40:6,11 expected (1) 28:17 expecting (1) 18:26 expenditure (1) 10:26 expertise (1) 34:25 expire (1) 29:19 expired (4) 9:8,25 14:18 23:9 expires (1) 30:5 expiry (3) 12:18 12:21 40:23 exploration (1) 26:4 express (1) 33:11 extend (1) 42:14 extreme (1) 37:3
F				
				facilitating (1) 33:19 facilities (2) 22:24 27:1 fact (1) 42:20 factors (1) 38:21 facts (1) 39:20 fairly (1) 44:16 familiar (1) 28:14 far (3) 34:2 44:26 46:14 farm (1) 24:16 feel (1) 27:9 feels (1) 26:19 feet (2) 37:5,6 fencing (1) 38:12 field (1) 37:1 file (3) 14:1,6,12 filed (4) 6:14 11:12 41:20 43:12 filled (1) 36:25

final (6) 5:10 8:7 13:25 16:18,26 17:2 Financial (1) 41:15 finding (1) 5:26 findings (1) 41:6 finishing (1) 23:7 Fiord (4) 16:2 19:1 46:9,15 first (7) 9:4 16:11 21:5 23:15,16 35:22 42:16 Firstly (1) 4:21 fit (1) 5:20 five (1) 41:9 five-minute (2) 31:6,8 flattened (1) 25:23 floated (1) 25:8 focussed (1) 29:16 follow (3) 19:22 27:23 44:25 following (9) 11:6 13:4 17:11 37:22,23 39:12 40:22 44:25 45:1 follows (1) 10:8 followup (1) 44:22 foregoing (1) 47:3 forget (1) 28:12 form (4) 11:8 16:10 17:8 38:19 formalizing (1) 41:22 former (16) 4:9 8:22 9:19 10:6 10:10,11 11:25 13:6,9,19 16:19 21:8,13 22:3 48:8,15 forward (2) 6:3 20:12	found (1) 37:3 Francis (2) 3:15 7:17 frequencies (1) 10:20 frequency (6) 10:22 27:15 35:24 36:7 37:12 43:21 frequent (1) 41:14 fresh (1) 6:12 freshwater (2) 34:12,21 front (3) 5:5 19:12 34:14 FTP (1) 14:2 fuels (1) 24:18 full (3) 5:16 29:1 39:18 further (7) 16:7 29:23 35:4,10 38:14,16 45:24	given (2) 42:20,20 gives (1) 38:26 go (5) 22:6 33:4 43:6,6 44:4 going (5) 8:6 9:26 14:8 21:26 46:15 Golder (4) 11:14 11:15 13:19 16:20 good (5) 4:2,2 33:8 41:2 46:20 government (1) 6:10 Grise (4) 16:2 19:1 46:8,15 guess (6) 21:26 42:16 44:13,15 44:17,21	18:22 19:2,21 19:23 20:3 21:5 31:23 32:16 35:21 48:25 held (4) 15:23 38:5 40:18 41:16 help (1) 5:3 helping (1) 6:2 hesitate (1) 8:2 hill (1) 23:26 historical (1) 40:13 history (3) 8:21 14:9 22:5 Hohnstein (12) 3:8 7:10 8:17 22:18 30:21,22 42:10,11 44:6,7 45:19,20 holder (1) 40:24 holding (1) 20:7 hope (1) 45:13 host (1) 5:22 hotel (1) 5:23 hour (2) 19:24 21:25 housekeeping (2) 4:21 5:10 hull (3) 25:8,9,10 Hunters (1) 16:2 hydrocarbon (1) 24:4 hydrocarbon-c... 24:9	identifying (2) 8:19 36:6 image (1) 37:1 immediately (1) 23:5 Impact (3) 15:10 15:12,14 implications (1) 11:23 imply (1) 8:12 important (3) 4:20 5:2 29:18 imposed (1) 40:25 include (4) 10:14 10:21 20:11 40:7 included (5) 15:25 26:20 35:3 36:10,13 includes (2) 11:5 27:26 including (3) 6:25 9:13 15:26 Incorporated (1) 7:22 increase (3) 27:21 37:12 43:23 increased (3) 36:7 37:21 42:18 increasing (1) 43:24 Index (1) 2:26 Indian (1) 34:15 indicate (1) 36:3 indicated (2) 14:16 15:3 individuals (1) 7:8 industrial (1) 10:5 industrial-level ... 24:25 inform (1) 18:21 information (10) 16:9,24 17:10 35:3,5,17 42:15 43:16 44:13,13
--	---	--	---	---

informations (1) 43:11	8:19	Karen (9) 2:16 18:12 30:12 31:14 33:8 43:3 44:7 45:2,20	lead (2) 23:1 24:6 lead-zinc (1) 4:10 learn (1) 20:9 left (7) 7:4 23:23 24:2,26 25:11 26:3,14	licences (4) 8:21 9:1,5,13
infrastructure (1) 39:4	Inuktitut (15) 3:14 4:25 12:7 19:20 21:2,16 31:20 32:2,7,8 32:17 33:1 48:18,26 49:13	Katie (3) 7:21 47:3,14	Legacy (2) 3:20 18:5	licencing (6) 3:11 7:12 13:10 14:3 17:5 34:9
initial (1) 14:24	inspect (1) 13:17,19 16:17 16:19 36:1,1,2,7 37:2 40:15 43:12 44:16,25	keep (1) 25:15 keeping (1) 16:3 kept (1) 7:20 key (2) 22:11 29:17	legal (7) 3:7 7:7 7:13 20:21 31:3 31:11,16	lie (1) 40:16 life (3) 22:23 23:3 24:5
inspection (13) 27:26 35:25 36:5 41:7 43:9 44:10	Island (2) 10:12 22:15	kilometres (2) 4:11 22:14	lenses (1) 36:18 letter (7) 11:6 12:19,22 13:23 16:23 17:4 39:22	lifecycle (1) 17:6 lighter-coloure... 25:21
inspections (6) 27:26 35:25 36:5 41:7 43:9 44:10	issued (7) 8:21 9:2,4,16 10:4 16:6,12	kind (2) 25:7 43:13	level (2) 37:21 43:22	likelihood (2) 43:8 45:4
institution (1) 6:9	issues (9) 17:11 28:15 35:17,20 36:14 38:13,18 41:4 46:8	know (17) 7:10 17:20 19:10,11 30:8 42:21,26 44:8,15,17,18 44:19,21,22,24 44:26 46:11	licence (86) 1:8 4:4,6 6:17,25 9:3,4,7,9,14,15 9:17,20,22,24 10:3,7,13,17,25 11:5,7 12:5,7,18 12:21,23,25 13:1,3,8,21,24 14:11,13,14,18 14:19,20,22 16:25 17:13,15 17:18 21:9,14 22:2,9,10 23:9 26:22 27:12 29:12,15,18 30:1,5 32:20,25 33:15,19,26 34:22,26 35:25 36:11 37:11,13 39:11,15,17,25 40:1,5,16,17,23 40:25 41:6,13 41:16,19 48:9 48:16 49:3,10	Limited (16) 2:14 3:19 6:15 9:17 10:4,5 12:22,26 13:11 14:10 18:4 21:8,13,23 48:7,14
interest (1) 45:15	issuing (2) 9:1,12	Kogvik (2) 3:10 7:15		limits (2) 37:14 41:13
interested (3) 14:6 34:24 41:23	Item (2) 10:13,17			Limnological (1) 12:8
internal (1) 41:25	items (3) 4:21 10:24 29:5			line (2) 9:5 44:2
internally (1) 41:22				list (1) 11:20
interpretation (3) 4:22 5:18 7:15	J	L		listed (2) 17:11 34:14
Interpreter (1) 3:14	J (1) 3:3	lab (1) 44:23		little (8) 10:12 22:15,16 25:20 25:20 26:15,16 36:26
interpreters (2) 7:14,23	January (1) 29:19	labeled (1) 36:15		LLP (1) 7:13
INTERPRETE... 3:13	Jardine (1) 7:13	labs (1) 44:20		local (2) 8:1 27:2
Interpretive (2) 12:15,17	Johnson (1) 11:14	lake (9) 11:16 12:9,12 28:3,5,6 37:17,20,21		located (7) 4:10 4:24 5:1,4,5,6 22:14
intervener (1) 17:20	join (2) 19:1,5	land (9) 6:10,20 9:10 15:8,13 34:12,16,21 39:5		location (5) 5:11 5:22,26 22:5 38:21
interveners (2) 15:26 18:23	joined (1) 33:15	landfill (1) 25:22		long (5) 9:5 21:10 21:15 48:10,17
interveners' (1) 13:6	joint (1) 32:8	landfills (1) 25:19		long-term (12) 10:12 11:13,16 13:6,10 17:14 22:2 27:13,25 37:9 40:11 44:2
intervening (1) 15:19	Joseph (1) 7:4	Lands (1) 34:18		look (7) 6:3 20:12
intervention (1) 33:13	July (5) 15:3,6,11 35:10 37:25	Language (1) 3:14		
interventions (1) 19:18	June (3) 13:9 15:1 35:6	last-minute (1) 5:21		
introduce (2) 7:8 19:4	jurisdiction (1) 8:25	lastly (2) 27:16 28:3		
introducing (1)	justification (1) 29:26	late (1) 20:4		
	K	laws (1) 34:13		
	K (2) 3:16,23	layer (1) 36:19		
	K-A-R-E-N (1) 18:14			
	Kabloona (3) 3:2 4:2,12			

25:5 27:10 28:5 39:21 44:24 looking (9) 28:11 37:5 42:16,20 43:13 44:3,10 44:21 45:21 looks (2) 26:18 46:1 lot (3) 5:17 20:4 36:12 lunch (2) 19:24 46:2 LUNCHEON (1) 46:4 lunchtime (1) 46:1	math (1) 38:6 matter (1) 5:10 matters (3) 6:23 8:8,14 McLeod (4) 3:16 7:21 47:3,14 Meadows (16) 3:7 7:12 18:1 20:20 20:21,26 21:17 21:21 31:2,3,10 31:10,15,15 32:4 33:2 measure (2) 38:17 38:20 measures (1) 38:10 mechanism (1) 37:12 media (3) 8:5,10 8:14 meeting (6) 6:3 13:11,13 15:23 20:11,12 meetings (3) 6:2 15:25 16:4 Megan (4) 7:12 14:3,7 21:21 Member (2) 3:3,4 members (10) 7:3 7:3,5 8:13 16:5 18:26 19:15 20:9 30:24 45:26 memo (2) 35:9,14 memorandum (2) 16:24 35:6 memory (1) 24:7 mentioned (6) 10:1 18:23 22:13,26 30:16 35:19 met (3) 39:24 40:3,9 metal (3) 24:21 26:23 37:24 Metals (2) 11:20 12:11	metals-contami... 24:11,13 metres (1) 24:8 microphone (2) 18:1 19:12 mill (5) 23:17 24:4 25:4,7,8 million (4) 23:4 29:7,10 38:6 mine (50) 4:9,9,10 8:22 9:3,7,14,15 9:20 10:6,10,11 11:19,24,25 12:14,25,25 13:9,16,19,23 16:16,20,25 21:9,14 22:3,5 22:13,22,23 23:1,1,3 24:5 26:16,26 27:9 32:21,26 33:15 36:24 37:16 39:14 41:1 48:8 48:15 49:4,11 mined (1) 23:3 mines (1) 27:11 minimal (1) 42:21 minimum (1) 25:2 mining (3) 23:1 26:23 37:24 minister (3) 39:19 40:17,18 mischaracterize... 32:6 missed (2) 11:23 17:19 mitigate (1) 38:17 mitigation (1) 38:17 MMER (1) 12:13 modified (1) 28:23 monitored (1) 27:14 monitoring (81) 4:8 10:9,12,17	10:18,19,21,22 10:24 11:14,16 11:19 12:15,17 13:7,10,14 16:14 17:12,14 21:11,16 22:2,8 22:9 23:10 26:5 26:24 27:4,5,13 27:15,15,18,20 27:21,25 28:2,9 28:23,23,25 29:3,4,13,14,17 29:20,21 35:23 35:24 36:1,3 37:8,9,12,14 38:9 41:10,11 41:15 42:18,19 42:21,23,26 43:5,10,21,24 43:25 44:2,4,12 44:14,16,18 45:10,23 48:10 48:17 morning (4) 4:2,2 19:24 33:8 motions (1) 20:14 mouse (1) 22:19 move (3) 4:18 9:26 17:21 moved (2) 24:7 26:1 moving (1) 42:25	need (6) 5:20 8:3 27:22 29:17 38:12,15 needed (2) 26:1 39:20 negative (1) 45:14 new (5) 5:26 12:24 14:14,18 22:10 night (1) 6:1 NIRB (5) 11:11 11:11,12 15:16 41:25 No.1AR-POL0... 1:8 noon (1) 19:24 Northern (23) 2:19,22 3:22 14:26 15:2,20 16:1 18:12,19 30:13 32:12,19 32:24 33:5,10 33:23 34:10,15 42:9 43:4 48:22 49:2,9 northwest (3) 4:11 8:26 22:14 note (1) 18:25 notes (1) 47:6 notice (2) 5:12 16:12 November (16) 13:18,20,23,25 16:15,18,21,23 16:26 17:1,2,4,7 35:14 38:3 39:22 NPC (2) 11:9,10 number (39) 6:25 9:23 11:7,8,8,9 11:10,10,12,13 11:14,15,17,17 11:18,20,21,22 11:23,25 12:1,2 12:4,6,8,10,13 12:14,18,19,21 12:26 13:2,13
<hr/> M <hr/> M (1) 3:11 magnitude (1) 43:23 maintained (1) 5:25 maintenance (1) 38:22 major (1) 20:11 majority (1) 22:24 making (2) 5:3 8:11 manage (1) 34:12 management (7) 3:24 6:12 8:26 11:2 18:14 33:9 38:10 manager (2) 3:20 18:4 mandate (2) 9:10 34:11 manner (1) 40:1 map (1) 11:9 March (1) 9:15 mark (1) 31:22 material (1) 25:21 materials (6) 24:8 24:10,23 25:26 26:12,13				
				<hr/> N <hr/> N4L2-0262 (1) 9:4 name (12) 4:11 7:9,24 10:11 11:8 17:25 18:3 18:6,11,14,16 33:8 natural (2) 37:22 39:6 near (1) 22:23 nearing (1) 17:6 necessary (1) 45:16

13:21 29:11 38:21 44:5 48:4 Number8(c) (1) 11:15 Nunavut (58) 1:3 1:18 2:21 3:1,6 4:12 6:5,8,10,13 6:18,18,20,21 6:22 8:25,26 9:10,11,13,16 13:15,19 14:15 15:6,10,11,13 15:13 16:20 20:21 27:10 31:3,11,16 32:15,22 33:1 33:11,12,17 34:13,16,16,17 34:23 39:21 40:2,2,20,21 42:8,11 44:7 45:20 48:24 49:5,12 Nunavut's (2) 34:11,21 NWB (15) 6:9,11 7:8 9:12 14:22 14:25 15:3,4,17 16:6,12,14,21 17:4,7 NWB's (3) 7:6 14:2 17:10 NWB1AR-POL... 9:17 NWT (3) 9:2,7,9	occurring (1) 35:26 ocean (1) 26:2 October (8) 12:4 12:10,19 13:16 13:20 14:14 16:12,13 offer (2) 19:2 39:12 offering (1) 19:9 office (2) 33:11,18 Official (2) 3:16 47:15 Oh (2) 21:21 31:5 Okay (2) 18:9 46:21 on-the-ground ... 37:2 once (7) 23:8 25:25 26:14,15 26:16 41:25 46:10 ongoing (1) 38:22 onsite (4) 24:16 24:20,22 26:3 oopsie (1) 45:17 opening (5) 2:8 4:14,15,16,17 opportunity (2) 20:9 33:13 oral (1) 20:11 order (2) 5:16 43:23 ore (3) 23:2,4,18 Organization (1) 16:3 original (5) 9:2 15:7,14 28:24 29:6 Originally (1) 25:8 outstanding (2) 29:5 35:20 overview (4) 4:19 22:4 33:24 40:12	P P-A-R-S-O-N-S... 18:17 P12 (1) 7:1 package (1) 14:13 Page (2) 2:3 48:4 pages (1) 47:3 Pameolik (2) 3:3 7:4 Panel (5) 6:26 7:1 7:1,2,3 paper (1) 14:4 parameter (1) 37:14 parameters (2) 10:23 41:13 Parsons (8) 2:16 3:25 18:16,17 31:14,24,24 33:16 part (12) 10:13,17 10:21,24 26:21 34:26 37:2,17 41:5 43:16 44:1 44:8 participate (1) 34:22 parties (14) 7:23 8:4,11,14,20 12:20 15:19,24 16:8 20:12 29:2 29:24 34:24 41:23 pass (1) 43:16 people (6) 7:10 27:1 36:6,12 41:17 46:15 period (1) 26:22 permission (1) 21:4 person (2) 16:10 36:21 perspective (1) 38:26 pertain (1) 34:21 pertaining (1)	35:11 phones (1) 5:9 photo (2) 37:17 37:24 photograph (3) 24:17 25:1,19 photos (1) 36:13 physical (3) 27:8 28:6 44:17 physically (1) 40:9 pick (1) 19:22 picture (10) 22:22 23:19,22 24:2 25:1,5,12,17 26:7,16 pictures (4) 22:6 23:12,13,16 Pido (1) 7:17 pieces (1) 24:19 pit (1) 24:26 placed (1) 25:24 plan (5) 23:11 26:21 27:25 39:7 40:8 plane (1) 46:15 planned (1) 44:11 planning (2) 15:6 17:16 plans (1) 5:11 please (16) 5:8 7:19,24 8:2,16 14:7 17:20 18:1 18:2,7,24 19:11 19:16 20:2,24 33:2 PM (4) 19:23 20:7 46:5,23 point (5) 29:12,18 30:4,22 42:12 pointer (1) 22:16 points (2) 22:11 41:9 Polaris (42) 4:9,9 8:22 9:3,6,14,15 9:20 10:6,10,11 11:18,24,25	12:13,14,16,25 12:25 13:1,6,9 13:16,19,23 16:16,20,25 21:8,13 22:3 32:20,25 33:15 34:26 37:16 39:14 41:1 48:8 48:15 49:4,11 policy (1) 41:22 port (1) 23:24 Porter (3) 3:11 7:12 14:3 portion (1) 44:16 posed (1) 36:8 positive (1) 27:9 possibility (1) 43:8 possible (1) 7:26 post-closure (3) 10:9 13:14 16:14 post-reclamatio... 13:18 16:17,19 27:4 posted (1) 5:13 potential (2) 38:17 39:11 PowerPoint (11) 21:1,7,12 31:20 31:21 32:1,8,11 48:6,13,20 powers (1) 6:23 practice (1) 16:3 practices (1) 8:15 prayer (4) 4:14,14 4:15,16 pre-hearing (8) 13:15 15:23 16:6,9,15 28:26 39:8,9 preliminary (2) 14:23,24 presence (1) 30:7 present (3) 7:7 16:5 31:22 presentation (30)
--	--	--	---	--

2:14,18 10:26 13:11 20:17 21:2,7,12,20,22 21:23,26 22:4 30:8,15,26 31:7 31:20,21 32:1,3 32:9,11 33:5,13 33:22 42:15 48:7,14,21 presentations (3) 20:11 31:18,18 presented (1) 32:1 previously (2) 23:10 34:3 primarily (1) 22:26 prior (5) 7:24 8:5 8:19 24:22 35:20 probably (5) 7:16 22:20 37:1,3 45:3 procedural (1) 14:9 procedurally (1) 8:7 procedures (1) 8:16 proceed (5) 4:13 20:13 21:18 31:13 33:3 proceedings (8) 4:1 5:17 7:20 8:4 19:7 46:5,23 47:5 process (11) 14:16 23:20 33:20,21 34:2,22 35:1 39:16 40:6 41:6 41:26 processed (1) 23:18 produced (1) 23:4 Productions (1) 7:17 program (16)	10:17,21 11:17 13:7,10 17:14 27:21 28:9,23 28:25 29:14 37:10 41:10,11 42:23 44:1 programs (1) 45:10 project (5) 10:11 17:6,17 20:10 24:15 project's (1) 17:17 projected (1) 11:19 promptly (1) 20:3 proper (2) 5:24 24:24 Properties (2) 3:20 18:5 property (2) 16:25 33:15 proposal (2) 12:23 43:18 proposed (24) 10:13,16,20,24 11:1,13,16 12:20 13:2 17:13 22:9 27:12,26 28:7 28:24 29:6,20 35:24 37:10 41:10,11 43:5 43:26 44:14 proposing (3) 27:14 29:13,19 protection (1) 34:11 provide (10) 6:6 8:20 14:8 19:2 33:24 34:2,6,24 37:11 44:12 provided (9) 16:7 30:2 34:4 35:6,8 35:13,16 42:15 44:13 providing (1)	31:19 Province (1) 47:8 prudent (1) 45:4 public (19) 1:12 4:3,20 5:12,22 6:9,13,26 14:4 14:25 16:10,13 17:8 19:2,15 32:15 35:21 39:18 48:25 purpose (1) 6:13 pursuant (1) 17:13 put (2) 25:2 37:19 putting (1) 30:4 <hr/> Q <hr/> Qikiqtani (4) 32:21,26 49:5 49:12 quality (15) 10:23 27:5 28:1,4,16 29:14 37:8,9 38:8 41:11,12 41:14 42:18,25 44:18 quarries (1) 24:14 quarry (1) 24:20 quarterly (4) 10:26 13:22 16:22 17:3 question (2) 43:3 44:8 questions (19) 2:21 8:15 20:10 30:10,14,17,19 30:22,23 33:21 41:4 42:3,5,7,8 42:12,13 45:24 45:25 queue (1) 21:21 quite (2) 28:13 29:15 <hr/> R <hr/> raise (1) 37:4 raised (1) 41:4	raises (1) 36:25 ran (2) 23:1 24:11 reached (2) 34:5 35:20 read (1) 40:22 ready (3) 26:2 31:12 33:2 really (2) 29:4 44:19 reasonable (2) 38:17,20 received (7) 11:5 13:4 14:5,17,25 15:19 17:10 Reclaimed (1) 13:23 reclamation (20) 4:8 9:19,24 10:14 11:3,26 13:17 17:16 22:7 23:6,8 25:16,25 27:10 29:7 39:6,26 40:8,13,14 recognize (1) 36:12 recognized (1) 26:25 RECOMMEN... 46:5 recommendatio... 35:22 37:7,26 38:14 recommendatio... 35:13 42:22,25 recommended (2) 35:4 41:18 recommending ... 37:11 recommends (1) 36:10 reconciliation (2) 12:1,3 reconvene (1) 46:7 record (6) 5:2,16 5:25 7:20 18:2	19:14 recreation (2) 5:14,19 recycling (1) 26:14 reduce (1) 9:21 reduced (1) 41:16 reduction (6) 10:14,19,22 38:4,5,7 refer (3) 6:8,15 33:22 reference (1) 42:18 referred (2) 7:1 15:10 reflect (1) 9:23 refrain (1) 8:11 regard (4) 22:12 29:5 38:1 41:1 regarding (5) 12:20 17:5,8 33:14 42:17 Region (4) 32:22 33:1 49:5,12 regional (5) 3:25 18:18 33:11,17 33:18 regret (1) 18:20 regulation (2) 6:12 26:26 regulations (3) 34:18,19 37:24 regulatory (1) 34:20 related (3) 13:1 14:1 20:14 relating (1) 6:23 relationship (1) 41:2 released (1) 41:24 relevant (1) 39:20 remain (1) 17:11 remaining (2) 25:26 27:1 remains (1) 25:6 remind (1) 5:8
--	---	--	--	---

removed (5) 24:23 25:18 26:1,11,17	38:13	responsibility (1) 9:12	roughly (1) 21:25	38:7,11 40:18
renew (5) 4:6 11:4 13:7 14:13 33:14	required (8) 15:9 15:16 17:16 27:22 28:22 38:11 42:26 44:11	responsible (2) 6:11 9:1	RPR (2) 3:16 47:14	41:15
renewal (21) 4:4 6:16,24 8:22,23 10:3,8 13:24 14:11,17 21:9 21:14 22:1 32:14 33:26 34:26 35:3,7 48:9,16,23	requirements (5) 6:18 10:18 12:2 12:4 26:25	responsive (1) 41:3	<hr/> S <hr/>	see (13) 5:15 7:19 19:22 22:16 23:16,21 25:11 25:20,21 29:26 36:20 39:3 46:18
renewal/amend... 1:9 10:7 16:25	requires (2) 20:1 40:11	result (7) 8:8 9:14 26:25 28:25 36:4,5,18	safety (1) 38:18	seeing (1) 43:23
renewed (4) 9:7 9:15 17:13,17	requiring (1) 10:25	results (11) 11:24 28:18 29:23 42:24 43:7 44:19,20,24 45:8,17,23	Salluviniq (1) 3:14	separate (1) 32:3
report (13) 11:18 12:13,15,17 13:14 15:15 16:7,14,15,18 28:10,20 39:8	resident (1) 27:3	return (2) 20:3 37:22	samples (2) 43:15 44:20	Sept (1) 12:16
reporter (5) 3:16 7:21,23 19:13 47:15	Resolute (7) 1:18 4:11 5:14 6:6 16:11 22:14 26:10	returned (2) 39:6 40:18	sampling (6) 10:22 28:15 44:23,26 45:5 45:18	September (7) 12:2,18 23:2,5,7 26:8,9
reporting (4) 7:22 10:19 11:26 17:13	resolution (1) 34:4	review (26) 6:14 7:6 12:15,17 13:22 14:23,25 15:6,11,12,14 15:18 16:22,24 17:4 27:21 32:13 33:19 35:7,11 39:16 39:18 41:5,20 41:26 48:22	satisfied (4) 26:24 28:14 35:23 36:9	series (1) 34:13
reports (9) 10:26 11:1 13:22 16:22 17:3 28:21 41:20 43:12 45:9	resolve (1) 40:24	reviewed (1) 35:2	saw (1) 45:11	serves (1) 24:7
represent (1) 17:26	resource (3) 3:23 18:13 33:9	reviewing (1) 14:6	scale (3) 24:3 36:21 37:3	services (2) 7:11 8:17
representatives ... 19:4,17 20:18	resources (24) 2:14 3:19 6:15 10:5 12:22,26 13:11 14:10 18:4 21:8,13,23 32:13,21,26 33:16 34:12,22 38:22 48:7,14 48:23 49:5,12	reviews (1) 35:2	scenario (1) 34:8	session (4) 20:6,7 20:8 46:18
represents (2) 37:18 38:4	respect (7) 19:6 20:2 33:25 34:1 34:4,7 40:5	Revisions (1) 17:12	schedule (7) 13:17 16:17 29:3 43:5,26 44:14 46:17	sessions (1) 16:5
request (3) 9:21 11:22 12:19	responded (4) 14:19 15:1 17:3 17:7	right (7) 4:24 7:4 22:21,23 23:18 25:21 43:25	scheduled (1) 19:23	set (7) 5:23 6:1,7 16:8 20:3 29:10 31:6
requested (2) 20:16 31:5	responding (1) 33:20	right-hand (3) 23:13,21 24:26	scope (5) 10:6 27:25 29:3 35:3 40:20	sets (1) 45:7
requests (2) 4:5 35:5	response (12) 12:3 13:5,8,12 13:14,21,24 15:21 16:14,26 17:2 35:15	Rights (5) 6:19,22 34:17 40:2,21	screening (3) 11:12 15:14,16	Settlement (1) 6:13
require (2) 20:19	responsibilities ... 33:25	risk (3) 36:6,8 43:22	sea (1) 23:24	settling (2) 36:17 36:26
		roll (4) 2:10 17:22 17:22,24	season (2) 37:1 45:1	share (1) 40:3
		room (1) 24:12	season's (1) 44:23	sheet (1) 5:1
		Ross (1) 11:15	second (1) 37:7	ship (4) 25:14 26:7,10,14
			Secondly (1) 4:26	shipped (2) 24:24 26:6
			Secretary/Inter... 3:10	shipping (2) 23:25 26:2
			Section (4) 6:20 6:21 15:12 40:20	Shores (1) 7:13
			security (13) 9:22 10:14,15 17:16 29:7,10 38:1,1,4	short (1) 19:26
				shorthand (2) 47:5,6
				shot (1) 25:4
				show (3) 27:18 28:16 36:13
				shown (3) 23:13 23:14 43:7
				shows (3) 24:2

25:19 26:8	sold (1) 26:13	23:23	21:10,15 22:2	9:17 10:4,5
side (1) 39:2	Sonia (2) 7:11	structure (2) 25:6	27:13 48:10,17	11:20 12:22,25
sides (1) 39:2	42:12	28:6	supplies (2) 23:25	13:10,21,24
sign-in (1) 5:1	sort (1) 24:3	study (1) 28:3	25:14	14:10,19 15:1
signage (3) 38:15	sound (2) 3:15	subject (2) 10:1	supply (2) 25:14	15:21 16:13,16
38:24 41:17	5:17	32:4	26:9	16:18,26 17:1,2
significant (1)	Sounds (1) 46:20	Sublethal (1)	supports (1) 37:8	17:23 18:4 21:8
27:19	south (2) 24:24	11:23	sure (4) 5:3,24	21:13,23 26:19
signs (2) 4:26	26:3	submission (11)	22:19 44:3	32:13,21,26
38:19	southern (1)	13:5,13 17:19	surface (7) 6:19	33:20 35:16,18
similar (1) 23:14	27:11	29:9 35:8 38:3	6:22 24:6,14	36:17 38:2,23
simple (1) 29:16	speak (10) 7:24	38:15 42:1	34:17 40:2,21	39:23 42:14
simultaneous (1)	8:16 18:24 19:8	43:17 45:8,12	swear (1) 20:19	44:11,14,26
7:15	19:10,11,16,19	submissions (8)	sworn (5) 2:12	48:7,14,23 49:4
site (43) 4:9,9	30:15 39:10	15:2,18 17:1,9	20:22,24,25	49:11
9:23 10:10	speaking (1) 7:24	28:26 31:17	31:4	Teck's (1) 33:14
11:19 12:25	specifics (1) 44:3	35:15 41:5		teleconference (1)
13:24 14:2 22:3	spell (1) 18:6	submitted (16)	T	15:24
22:13,22,24	spelling (1) 18:14	14:10,12 15:21	T (2) 3:2,7	Teresa (7) 7:12
23:12,15 25:17	spills (1) 24:4	16:13,16,18,21	table (4) 2:1 4:23	20:19,20 31:1,2
25:20 26:1,6,12	stability (1) 43:7	16:23,26 17:1,5	5:1 19:21	31:10,15
26:16 27:2,7,13	stable (7) 25:23	19:18 28:10,19	tables (1) 5:7	term (7) 10:8
27:18,26 28:12	27:7,18 28:19	35:1 44:20	tailings (1) 37:20	17:15 21:10,15
28:14,18 32:21	39:26 40:10	subsequent (1)	take (5) 10:18	29:18 48:10,17
32:26 36:3,13	45:14	13:4	21:25 27:23	terms (2) 8:7
36:24 37:16	staff (11) 2:21 3:6	subsidence (5)	42:3 43:15	39:24
39:5,14 40:9,14	7:5 15:25 16:4	28:15 36:16	taken (7) 25:1,13	Territorial (1)
41:1 44:12	17:11 19:11	38:13,18 41:17	37:1,25 38:7	34:18
45:13 49:4,11	30:20,22 42:7,8	success (1) 27:6	45:22 47:5	Territories (1)
sites (1) 44:1	stage (2) 6:7	successfully (2)	takes (1) 38:11	8:26
situation (1)	25:10	26:19 40:9	talk (2) 22:4,9	Testing (1) 11:24
39:18	standpoint (2)	suggest (1) 28:21	tank (1) 24:16	thank (36) 4:18
skill (1) 47:7	27:8 45:5	suggesting (1) 8:6	tanks (1) 24:17	5:13,25 18:11
slide (5) 23:15	started (3) 23:5	summarize (1)	targeted (1) 29:16	18:15,16,20
26:8 34:14	25:12 43:6	41:9	tea (1) 5:6	20:20,26 21:17
36:15 38:26	state (2) 7:24	summary (16)	technical (23) 3:8	21:22,24 30:8
slope (2) 36:21	39:26	11:26 12:5,6	3:9 6:2 7:6,11	30:10,12,18,19
39:2	stated (1) 39:23	14:8 22:1,10	7:11 8:17 13:11	30:21,23,25
slopes (1) 25:22	statement (1)	31:19,26 32:6,8	13:12,13,22	31:2,7 32:4,9
slowly (1) 7:24	40:22	32:9,18,23 34:6	15:5,18,22,22	33:7,18 42:3,4
slumping (2)	statements (2) 8:9	49:1,8	16:22,23 17:3	42:10 43:1,2
36:23 39:3	42:17	summer (2) 25:13	34:3,24 35:7,11	44:6 45:1,19,25
small (2) 27:2	stations (1) 10:22	25:13	42:11	46:12
36:21	steel (1) 25:5	superficial (1)	Technician (1)	thanks (6) 33:12
snacks (1) 5:6	steps (2) 27:22	36:17	3:15	33:20 44:6
soils (3) 24:6,11	46:11	supplemental (8)	Teck (48) 2:14	45:18,20,23
24:13	storage (2) 23:23	13:9 17:14	3:19 6:14,15	that's5 (1) 37:17

thawing (1) 36:18	Tribunal (5) 6:19	15:8 18:1 22:18	26:22 27:5,12	witnesses (1)
thickness (1) 25:2	6:22 34:17 40:2	39:6 41:16	28:1,4,4,10,15	31:12
things (2) 29:17	40:21	<hr/>	28:16 29:14,24	WL (1) 12:2
30:16	triggered (1)	V	30:1,5 31:3,11	work (6) 22:7,16
think (7) 21:24	39:16	valid (1) 45:17	31:16 32:15,20	25:18 27:6
26:10 27:11	trying (1) 40:19	various (3) 4:8	32:25 33:12,14	40:13 41:22
28:18 37:4	tugs (1) 26:11	8:21 30:16	33:16,18 34:8	working (3) 25:15
43:21 44:8	turn (1) 5:8	venue (1) 20:8	34:22,23,26	40:26 41:2
third (1) 37:26	two (7) 6:4 7:14	verified (1) 40:14	36:11 37:7,9,11	workings (1)
Thomas (1) 4:12	21:5 23:6 25:19	verify (1) 45:16	37:13,21 38:3,8	24:10
three (4) 29:2	42:16 45:7	version (2) 31:21	39:11,15,21,24	works (2) 25:25
31:17,17 35:1	Type (19) 1:8 4:6	32:7	41:11,12,14	26:20
time (11) 19:7	6:17,25 9:16	versions (1) 32:2	42:8,11,17,25	written (6) 17:9
20:18 26:3 30:4	10:3 12:2,4,24	view (2) 29:4	44:7,18 45:12	17:19 31:17
30:6,14,17	13:1 14:14,18	37:15	45:20 48:9,16	35:5,9,14
37:19 39:13	14:18,20,21	viewing (1) 14:4	48:24 49:3,10	wrote (1) 39:22
42:2 45:6	33:14 39:11,15	views (1) 19:2	Waters (5) 6:18	<hr/>
timeline (1) 16:8	40:5	VOLUME (1)	6:21 34:16 40:2	X
timelines (1) 20:2	<hr/>	1:13	40:21	X' (1) 44:5
today (6) 7:2,9	U	<hr/>	wave (1) 7:9	<hr/>
8:20 20:23	ultimate (1) 39:14	W	way (6) 5:26	Y
21:26 26:18	ultimately (1)	wait (2) 19:11	15:23 26:17	yeah (4) 31:25
today's (1) 35:20	24:14	20:4	36:4 43:19 45:7	37:5 44:7 45:21
tonight (2) 20:6	underground (5)	waiting (1) 46:9	we'll (6) 27:21	year (5) 25:15
46:17	4:10 23:1 24:9	want (4) 19:11	30:4 46:2,7,10	27:16 28:2
tonnes (1) 23:4	24:10,12	38:6 43:24 44:4	46:18	43:20 44:25
top (5) 23:13,20	understand (1)	wanted (3) 29:12	we're (13) 5:24	year-and-a-half...
23:26 25:24	7:16	41:8 44:4	25:7 27:14,23	29:22
28:5	understanding ...	warning (1) 38:19	29:1,10,13,18	years (7) 23:6
total (2) 12:11	21:1	washed (1) 24:18	37:4 40:26	28:12,13,22
24:7	understood (2)	washrooms (1)	42:20 43:22	35:26 42:21
touch (1) 41:8	5:24 43:13	5:4	46:1	44:5
town (1) 27:3	undertaken (1)	waste (4) 4:7 9:6	we've (5) 28:7,10	<hr/>
Toxicity (1) 11:24	40:13	9:18 11:2	28:19 29:9	Z
tradition (1) 19:6	undertaking (3)	water (107) 1:3	36:14	zinc (2) 23:1 24:7
trailers (1) 26:4	10:5 17:6 39:25	2:21 3:1,6 4:6,7	weather (2) 46:8	<hr/>
transcribed (1)	Unfortunately (1)	4:12 6:5,8,12,17	46:9	0
47:6	5:19	8:25,26 9:1,1,2	week (1) 16:11	<hr/>
transcript (3)	unit (1) 33:16	9:3,3,6,7,11,13	welcome (3) 4:3	1
2:25 47:1,4	unstable (1) 36:4	9:15,16,16,18	6:5 46:6	1 (6) 1:13 4:24
transcription (1)	update (4) 34:2	10:3,23 11:2,4,7	well-informed (1)	11:7 13:13 21:7
5:18	46:9,10,14	12:5,7,12,23,24	39:20	48:6
Trappers (1) 16:2	updated (1) 17:15	13:1,3,7,10,15	went (3) 24:9,10	1,324,000 (1)
trend (5) 37:13	upward (4) 37:13	13:24 14:13,15	24:13	10:15
41:14 43:14,20	41:14 43:14,20	14:18,20,22	wildlife (1) 36:6	1,564,994 (1) 38:2
45:14	use (11) 4:7 6:11	16:24 20:21	wishing (1) 19:10	1,974,006 (1) 38:7
trends (1) 42:19	7:25 9:5,18 11:2	21:9,14 22:1	witness (1) 20:19	1.324 (1) 29:7
				1.565 (1) 29:10

1.8-metre (1) 25:2	32:14,20,25	38:3 43:6 47:9	32:16,18 38:14
1.8-metre-thick...	48:9,16,23 49:4	48:2,25	48:2,25 49:1
25:24	49:11	2015 (1) 10:9	42 (1) 2:21
1:00 (2) 46:3,7	1AR-POL0311-...	2017 (1) 43:15	46 (1) 40:20
1:08 (1) 46:5	13:21	2019 (8) 27:16	47 (1) 2:25
1:30 (1) 46:10	1st (1) 15:18	28:2,7 29:14	48 (1) 2:26
10 (2) 11:18 20:7		35:26 38:9 43:6	
10:03 (1) 4:1	2	43:18	5
100 (2) 4:11 22:14	2 (6) 4:24 10:13	2024 (1) 35:26	5 (8) 11:9,10
10th (1) 47:9	11:8 21:12 38:6	2029 (8) 17:14	19:23 31:23
11 (1) 11:20	48:13	27:17 28:3,8	32:23 37:5
11:42 (1) 46:4	20 (1) 2:12	29:20,22 38:9	46:16 49:8
12 (1) 11:21	20(a) (1) 12:18	43:7	
12(a) (1) 11:22	20(b) (1) 12:19	2030 (1) 10:9	6
12(b) (1) 11:23	20(c) (1) 12:22	2031 (2) 11:19	6 (6) 10:17,25
12(c) (1) 11:25	20(d) (1) 12:26	29:19	11:10 36:15
12(d)(1) (1) 12:1	2002 (8) 9:8 11:10	21 (5) 2:14 13:2	37:5,6
12(d)(2) (1) 12:3	11:12 12:10	14:14 48:6,13	6:30 (5) 20:6
12.4.3 (1) 15:12	15:8,15 23:2,5	22 (1) 13:2	46:17,18,19,23
13 (3) 6:10 12:5	2003 (3) 9:15	25 (2) 15:11 23:4	6th (2) 26:9,9
38:26	11:26 25:13	28th (1) 14:25	
13.3.6 (1) 6:20	2004 (6) 23:7,8	29 (1) 6:21	7
14 (2) 12:6 13:12	25:25 26:5,9	29th (3) 11:20	7 (1) 11:12
14th (8) 13:23,25	27:14	12:18 16:6	7th (5) 16:12,21
15:21 17:1,2,4,7	2005 (1) 12:13	2nd (1) 35:6	16:23,26 35:14
38:3	2006 (2) 12:16,18		8
15 (2) 12:16 42:21	2009 (5) 9:20,25	3	8 (1) 14:22
15-year (1) 10:8	11:23 12:2,4	3 (11) 2:6 10:24	8(a) (1) 11:13
17 (2) 2:10 12:8	2011 (10) 9:25	11:8,24 13:18	8(b) (1) 11:14
17th (5) 12:10,19	11:26 12:10,10	13:20 16:15,18	8(d) (1) 11:16
13:16 16:13	12:12,19 13:2	31:23 32:11	8(e) (1) 11:17
39:22	23:9 26:5 39:22	48:20	8th (1) 15:6
18 (1) 12:10	2013 (6) 11:5,20	3,539,000 (2) 9:23	
18th (2) 12:4	11:25 14:10,15	10:15	9
15:22	14:19	300,000 (1) 24:8	9 (2) 11:17 13:20
19(a) (1) 12:13	2014 (46) 1:19 2:4	31 (4) 2:16 9:8	
19(b) (1) 12:14	11:19 13:9,12	11:5 14:10	
19(c) (1) 12:16	13:14,16,18,20	31st (3) 9:25	
1981 (2) 9:4 23:2	13:20,23,25	14:19 35:10	
1994 (1) 9:8	14:22,25 15:1,3	32 (3) 48:20 49:1	
1996 (1) 9:10	15:6,11,18,21	49:8	
19th (2) 13:9 15:1	15:22 16:6,12	33,700,000 (1)	
1AR-POL0311 ...	16:13,14,16,18	9:22	
4:5 6:25 10:4	16:21,23,26		
12:21,22,24	17:1,2,4,7,14	4	
13:8,24 14:12	28:9 32:16 35:6	4 (12) 1:19 2:4,8	
14:14 21:10,15	35:10,14,26	11:9 15:3 31:23	

