

APPENDIX H

**Dempster Fibre Project: NWT Consultation and
Engagement Submission to Mackenzie Valley Land
and Water Board**



**Dempster Fibre Project:
NWT Consultation and Engagement
Submission to Mackenzie Valley Land and
Water Board**



October 2019

Table of Contents

Table of Contents	2
Acronyms	5
Submission Summary	6
Introduction	6
Project Description	6
Affected Parties.....	6
Consultation and Engagement.....	7
Approach	7
Methods.....	8
Report Contents.....	8
Pre-Submission Consultation and Engagement Record	9
Overview	9
Issue Summary	10
Pre-Submission Consultation and Engagement Summaries.....	11
Gwich'in Tribal Council	11
Tetlit Gwich'in Council	15
Gwichya Gwich'in Council.....	17
Ehdiitat Gwich'in Council	20
Nihtat Gwich'in Council	22
Remaining Affected Parties	24
Pre-Submission Consultation and Engagement Log	24
Consultation and Engagement Plan.....	26
Proposed Triggers for Consultation and Engagement.....	26

Initial Template for Consultation and Engagement Plan	27
Schedules	29
Schedule 1 – Consultation and Engagement Approach for GTC and HPW	30
Schedule 2 – Final Consultation and Engagement Plan for GTC and HPW	32
Schedule 3 – Pre-Submission Consultation and Engagement Log.....	33
Schedule 4 – Letters to Initiate Consultation and Engagement	63
Gwich'in Tribal Council	63
Tetlit Gwich'in Council	65
Gwichya Gwich'in Council	67
Ehdiitat Gwich'in Council	69
Nihtat Gwich'in Council	71
Schedule 5 – HPW Presentation: Dempster Fibre Project.....	73
Schedule 6 – Community Open House Posters	87
Poster 1 Introduction.....	87
Poster 2 Permitting Process and Benefits	88
Poster 3 Construction and Operation of the Dempster Fibre Line	89
Poster 4 How the Line Will Work	90
Poster 5 Some of the Key Issues.....	91
Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses)	92
April 9, 2019 Tsiigehtchic, NWT (1:00 PM) – GGC Meeting Sign-In Sheet	92
April 9, 2019 Tsiigehtchic, NWT (6:00 PM) – GGC Meeting Sign-In Sheet	93
April 10, 2019 Inuvik, NWT – NGC Meeting Sign-In Sheet.....	94
April 11, 2019 Aklavik, NWT – EGC Meeting Sign-In Sheet	95
April 24, 2019 Inuvik, NWT – Community Open House Sign-In Sheet	96
April 25, 2019 Aklavik, NWT – Community Open House Sign-In Sheet.....	97
April 26, 2019 Fort McPherson, NWT – Community Open House Sign-In Sheet	98

May 7, 2019 Tsiigehtchic, NWT – Community Open House Sign-In Sheet.....	99
May 8, 2019 Fort McPherson, NWT – Community Open House Sign-In Sheets	101
Schedule 8 – Summaries (Meetings and Community Open Houses)	104
February 20, 2019 Whitehorse, YT – GTC Meeting Summary	104
April 9, 2019 Tsiigehtchic, NWT (1:00 PM) – GGC Meeting Summary	107
April 9, 2019 Tsiigehtchic, NWT (6:00 PM) – GGC Meeting Summary	110
April 10, 2019 Inuvik, NWT – GTC Meeting Summary	113
April 10, 2019 Inuvik, NWT – NGC Meeting Summary	116
April 11, 2019 Aklavik, NWT – EGC Meeting Summary	119
April 24, 2019 Inuvik, NWT – Community Open House Summary	121
April 25, 2019 Aklavik, NWT – Community Open House Summary.....	124
April 26, 2019 Fort McPherson, NWT – Community Open House Summary	126
May 7, 2019 Tsiigehtchic, NWT – Community Open House Summary	127
May 8, 2019 Fort McPherson, NWT – Community Open House Summary.....	130

Acronyms

Acronym	Meaning
DGO	Designated Gwich'in Organization
DM	Deputy Minister
EGC	Ehdiitat Gwich'in Council
EMR-LMB	Department of Energy, Mines and Resources – Land Management Branch
ERRC	Ehdiitat Renewable Resource Council
GCLCA	Gwich'in Comprehensive Land Claims Agreements
GGC	Gwichya Gwich'in Council
GGRRC	Gwichya Gwich'in Renewable Resource Council
GLWB	Gwich'in Land and Water Board
GNWT	Government of Northwest Territories
GTC	Gwich'in Tribal Council
HPW	Department of Highways and Public Works
MVFL	Mackenzie Valley Fibre Line
MVLWB	Mackenzie Valley Land and Water Board
NGC	Nihtat Gwich'in Council
NGRRC	Nihtat Gwich'in Renewable Resource Council
NWT	Northwest Territories
PCMB	Porcupine Caribou Management Board
RFP	Request for Proposal
RFQ	Request for Qualification
ROW	Right-of-Way
RRCs	Renewable Resource Councils
TGC	Tetlit Gwich'in Council
TGRRC	Tetlit Gwich'in Renewable Resources Council
YT	Yukon Territory
YTA	Yukon Transboundary Agreement

Submission Summary

Introduction

In accordance with the Engagement and Consultation Policy set out by the Mackenzie Valley Land and Water Board (MVLWB), the Department of Highways and Public Works (HPW) engaged with the Indigenous organizations/governments that will be affected by the Dempster Fibre Project (the Project) in the Northwest Territories (NWT).

Engagement activities were initiated during the pre-application stage. In accordance with MVLWB policy, engagement activities will continue during the construction of the Project as well as the operation and maintenance of the fibre line.

Engagement ensures that affected parties are able to:

- Develop an understanding of the Project;
- Provide feedback during the engagement process on issues of concern; and
- Build relationships.

Project Description

The Project being proposed by HPW will see the construction of an approximately 800-km fibre optic line from Dawson City, Yukon (YT), to Inuvik, NWT. The Project will be located primarily within the right-of-way (ROW) of the Dempster Highway that extends for 735 km from the Dempster Highway junction (40 km east of Dawson City, YT) to Inuvik, NWT. The new line will connect YT to the existing Mackenzie Valley Fibre Line (MVFL) in NWT, and will ensure communities in YT, NWT, and other northern locations have access to a secondary fibre network in the event of a service disruption.

Affected Parties

Parties affected by the NWT portion of the Project are listed in Table 1. These parties include Indigenous organizations and communities in and/or near where Project activities will occur in the NWT.

Table 1 List of parties affected by NWT portion of the Project.

Organization		Degree of Engagement
Gwich'in Tribal Council (GTC)		<ul style="list-style-type: none"> • Written notification to initiate engagement • Face-to-face meetings • Community open houses
Designated Gwich'in Organizations (DGOs)	Tetlit Gwich'in Council (TGC) Gwichya Gwich'in Council (GGC) Ehdiiat Gwich'in Council (EGC) Nihtat Gwich'in Council (NGC)	<ul style="list-style-type: none"> • Written notification to initiate engagement • Face-to-face meetings • Community open houses
Aklavik Indian Band Inuvik Native Band Gwichya Gwich'in Band Teetl'it Gwich'in Band Council		<ul style="list-style-type: none"> • Written notification with request to contact HPW if there are concerns • Representatives were also able to attend scheduled meetings with GTC, DGOs and community open houses
Ehditat Renewable Resource Council Gwich'ya Gwich'in Renewable Resource Council Nihtat Gwich'in Renewable Resource Council Tetlit Gwich'in Renewable Resource Council		<ul style="list-style-type: none"> • Representatives were also able to attend scheduled meetings with GTC, DGOs and community open houses
Inuvialuit Regional Corporation		<ul style="list-style-type: none"> • Written notification with request to contact HPW if there are concerns
Town of Inuvik Charter Community of Tsiigehtchic		<ul style="list-style-type: none"> • Representatives were also able to attend scheduled meetings with GTC, DGOs and community open houses

Consultation and Engagement

Approach

HPW's consultation and engagement activities with the Gwich'in Tribal Council (GTC) and the Designated Gwich'in Organizations (DGOs) was based on advice and direction provided by GTC following HPW's letters initiating consultation (see Schedule 4 – Letters to Initiate Consultation and Engagement). GTC advised HPW on the desired timing and approach to consultation and engagement with respect to the Project, including Project components in both the Gwich'in Secondary Use Area in YT and the Gwich'in Settlement Region in the NWT.

HPW followed the advice and recommendations provided by GTC regarding acceptable consultation and engagement approaches with GTC itself and the DGOs. HPW has obtained a letter to this effect from GTC (see Schedule 1 – Consultation and Engagement Approach).

Methods

In order to effectively engage and meaningfully consult affected parties on the NWT portion of the Project, and to understand their concerns and interests, HPW implemented several methods from the Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits (the Guidelines).

Methods employed by HPW included the following:

Written Communication: Primarily used to inform parties about Project activities and/or plans. The main forms of written communication were email, faxes and/or letters.

Verbal and Face-to-Face Communication: Allowed for focused presentation of information, immediate feedback as well as interactive discussion and problem solving. This took the form of phone calls, meetings and community open houses.

Report Contents

The following report contains:

- 1) the Pre-Submission Consultation and Engagement Record (Record) (including summaries of engagement activities with affected parties and the engagement log); and
- 2) Consultation and Engagement Plan (Plan) for GTC and HPW.

Pre-Submission Consultation and Engagement Record

Overview

The following section documents the Record. It details activities from the initial dialogue between HPW and affected parties until the Project application was submitted to MVLWB.

The Record includes:

- Summaries of consultation and engagement activities which provide:
 - which parties were engaged and names of representatives;
 - a list or range of dates of engagement;
 - the reasons for engagement;
 - an overview of the issues that were resolved; and
 - an overview of issues that remain unresolved.
- A log of consultation and engagement activities which shows:
 - the dates of key engagement made by the proponent and the affected parties;
 - attendees;
 - the type of engagement activity (e.g. written notification, phone calls, face-to-face meetings etc.);
 - issues raised by the affected parties;
 - recommendations made by the affected party; and
 - HPW's response to the issues, an indication of whether the issues were resolved or unresolved and if any changes to the project were made as a result of the engagement activity, if applicable.

Separate summaries were documented for each affected party in the NWT, while only one log was created for this report. The Pre-Submission Consultation and Engagement Log (Log) documents all pre-submission activities with NWT affected parties and will continue to be maintained throughout the life of the Project.

Issue Summary

The following table (Table 2) summarizes:

- a) the main issues brought forward by affected parties during engagement activities, and
- b) the commitments HPW was able to make at the time of writing this report.

Table 2 Issue Summary.

Issue	Raised By	HPW Commitment	Land Use Permit Application: Summary of Commitments Section 13.0
Business and employment opportunities	All Affected Parties	<p>HPW plans to issue a Request for Qualification (RFQ) and contractors will be invited to visit the communities to network with local businesses and development corporations prior to a Request for Proposal (RFP). For the RFP stage, companies will be expected to show how they plan to contract with local companies, including development corporations.</p> <p>HPW is in the process of developing a Procurement Plan to reflect this approach. It will be presented and discussed with GTC and the DGOs at a later time, and HPW will continue to engage GTC and the DGOs prior to implementation of the Procurement Plan.</p> <p>HPW will use the Gwich'in Business Directory as a resource during procurement planning.</p>	N/A
Porcupine Caribou and caribou habitat	GTC, GGC, Tsiigehtchic	Feedback from the Porcupine Caribou Management Board (PCMB) was received and incorporated into the Land Use Permit Application.	Section 13.6 Wildlife and Wildlife Habitat
Fish protection	GGC, Tsiigehtchic	<p>While no instream/in-water works are proposed in fish-bearing watercourses, construction that poses a high risk to fish or fish habitat (e.g., for HDD crossings if the risk of frac-outs are considered high due to geotechnical considerations) should be scheduled to occur within the appropriate least risk work window for fish (e.g., July 16th to September 14th for watercourses/waterbodies where fish species are not known).</p> <p>Drilling under the Mackenzie River will not occur in November as this is spawning season. The ideal time to drill under the river is January and February when fish activity is minimal.</p>	Section 13.5 Fish and Fish Habitat

Issue	Raised By	HPW Commitment	Land Use Permit Application: Summary of Commitments Section 13.0
Monitoring, report sharing, and traditional knowledge	GTC, NGC, Inuvik, GGC, Tsiigehtchic	<p>A qualified Environmental Monitor will conduct monitoring (including water quality assessments), with an emphasis on those works with the greatest potential to impact fish habitat (e.g., stream crossings).</p> <p>A Construction Environmental Monitoring Plan will be developed that outlines the specific permit conditions and best management practices for works in and around water. Reporting requirements will be defined in the Construction Environmental Management Plan. Reports will be shared with GTC.</p> <p>A Wildlife Monitoring Program will be developed that will include having a Wildlife Monitor on-site during construction to ensure that mitigation measures are applied. Reporting requirements will be defined as part of the program. Reports will be shared with GTC.</p>	<p>Section 13.5 Fish and Fish Habitat</p> <p>Section 13.6 Wildlife and Wildlife Habitat</p>
Role of Northwestel	TGC, Fort McPherson, GGC, Tsiigehtchic	HPW will try to arrange meetings in the communities with Northwestel.	N/A

Pre-Submission Consultation and Engagement Summaries

Summaries for each affected party are provided below. Information collected during community open houses has been incorporated into the summaries of their respective DGO.

Gwich'in Tribal Council

Name(s) of representative(s) from affected party who participated in engagement

HPW met with several staff at the GTC to discuss concerns, opportunities and any potential impacts of the Project on GTC's values, interests and rights. HPW worked with the following GTC representatives throughout the engagement process:

David MacMartin, Director, Intergovernmental Relations

- HPW's main contact for engagement with GTC

- Conveyed to HPW representatives GTC's views and concerns on the Project and provided recommendations on the approach and timing for engaging with GTC and the DGOs

Stephen Charlie, Director, Lands and Resources

- Met with HPW representatives on numerous occasions during the engagement process
- Discussed the environmental and lands related issues regarding the Project

Eleanor Jerome, Programs Specialist, Intergovernmental Affairs

- Worked with HPW on planning/scheduling technical meetings with DGOs and community open houses
- Organized logistics and planning for meetings with all DGOs in Inuvik, Fort McPherson, Tsiigehtchic and Aklavik

These individuals were instrumental in organizing meetings with DGOs and community open houses.

Sign-in sheets for meetings with the GTC, when available, are included in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses). Additionally, GTC representatives were present at a number of meetings with DGOs and community open houses (as identified by entries in the “organization” column of Sign-in Sheets).

Dates of Engagement

On January 31, 2019, HPW initiated engagement with GTC in a letter requesting a meeting to discuss Tetlit Gwich'in treaty rights in Yukon, as well as Gwich'in interests and values in the Project Area within NWT. Whether there may be adverse effects from the Project, and how those effects could or could not be mitigated, were also raised as topics of discussion.

On February 20, 2019, HPW and GTC met in person to discuss an overall engagement approach on the Project. Following this meeting, HPW and GTC staff worked together to organize follow-up meetings for engaging the GTC Grand Chief, the GTC Board and staff in Inuvik as well as coordinating engagement with the DGOs.

On April 10, 2019, HPW presented the following to the GTC Grand Chief, Board and staff members:

- An overview of the Project and project details;
- engagement overview;
- construction methods and bridge crossings;
- project interaction with environmental and socio-economic values;
- employment and business opportunities; and
- discussion and next steps.

Maps of the Project route and copies of the draft land use permit applications were provided to staff for review.

An open house was scheduled for April 24, 2019 to provide the community and GTC members with an opportunity to learn about the Project and to raise any concerns they may have.

A draft of the MVLWB Application and the YESAB proposal was shared with GTC July 10, 2019. HPW requested that comments be provided before July 24, 2019. GTC's response to HPW's draft MVLWB Application was provided July 24, 2019, and appended to the email message was a letter outlining GTC's initial comments (see Schedule 3 – Pre-Submission Consultation and Engagement Log for a summary of the letter).

Reason(s) for Engagement

The purpose of engagement was to introduce GTC to the Project and to discuss concerns, opportunities and potential impacts of the Project on GTC's values, interests and Tetlit Gwich'in treaty rights. The information HPW received during engagement was used to adjust the Project design and to inform mitigation measures for the Project.

Activities between GTC and HPW also facilitated engagement activities with DGOs and the communities of Inuvik, Aklavik, Tsiigehtchic and Fort McPherson.

Overview of Issue(s) Resolved

Below are the GTC identified areas of concerns regarding the Project, as well as the HPW resolution:

- Monitoring and traditional knowledge – GTC requested that the results of wildlife and environmental monitoring during construction be gathered so it can contribute to, as well as be informed by, traditional knowledge. HPW recognizes and understands the importance of traditional knowledge. A Wildlife Monitoring Program will be developed that will include having a Wildlife Monitor on-site during construction to ensure that mitigation measures are applied. Also, a qualified Environmental Monitor will conduct monitoring (including water quality assessments), with an emphasis on those works with the greatest potential to impact fish habitat (e.g., stream crossings). HPW is committed to providing opportunities for local participation and training and will consider hiring wildlife and environmental monitors from the communities to ensure traditional and local knowledge can inform the work underway.
- Porcupine Caribou and caribou habitat – Construction activities may impact caribou populations along the Dempster Highway. HPW will ensure that mitigation measures for the herd will be included in the construction contract wherever needed to ensure little to no disturbance. On behalf of HPW, Hemmera worked with the PCMB to identify potential impacts on caribou. Feedback on the draft Land Use Permit Application was received from PCMB and incorporated into the application.
- Mackenzie River and bedrock - GTC asked how HPW plans to deal with bedrock issues in areas with rapids. The contours of the Mackenzie and Peel Rivers have been mapped and the ground drilled for geotechnical data to mitigate risk (See Appendix F and Appendix G of Land Use Permit Application to MVLWB). The majority of other crossings have alternative crossing methods that can be employed if bedrock or contours are problematic.

Overview of Issue(s) Unresolved

GTC's main interest on the Project is business and procurement opportunities. GTC explained that large contracts have been awarded in the Gwich'in Settlement Area in the past without consideration of local Indigenous employment and businesses. GTC wants to ensure communities benefit from procurement opportunities.

HPW responded that the construction procurement for the Project will go out to public tender. HPW plans to issue an RFQ to determine which contractor companies are capable of performing the work. Contractors will then be invited to visit the communities to network with

local businesses and development corporations. This will enable companies to meet and discuss opportunities with businesses prior to bidding on the RFP, at which stage they will be expected to explain how they will procure from local companies, including development corporations.

Construction on the Project has not begun and HPW is in the process of developing a Procurement Plan to reflect the approach described above. The procurement approach will be presented and discussed with GTC at a later time.

Routing and engineering work is currently underway, and HPW hopes to bring the engineering team to future community meetings to address the following concerns:

- Forest fires – GTC asked whether the fibre line is susceptible to forest fires. HPW responded that there is little risk to the line when it is buried 10 cm or deeper underground. HPW will assess the risk if any sections of the fibre line are laid on the surface.
- Rengleng River – GTC identified difficulties with construction in the ROW near the Rengleng River. HPW is not familiar with this area; however, HPW will assess this area closely and review installation options such as aerial installation in order to mitigate any environmental concerns, including flooding.

Tetlit Gwich'in Council

Name(s) of representative(s) from affected party who participated in engagement

HPW worked with GTC staff to coordinate meetings with Tetlit Gwich'in Council (TGC) as well as arrange two community open houses in Fort McPherson.

Sign-in sheets for meetings in Fort McPherson are included in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses). TGC representatives were present at the second community open house (i.e., as identified by entries in the “organization” column of Community Open House Sign-in Sheets in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses)).

Dates of Engagement

On January 31, 2019, HPW initiated engagement with TGC in a letter requesting a meeting to discuss Tetlit Gwich'in treaty rights, as well as Tetlit Gwich'in interests and values in the Project

Area. Whether there may be adverse effects from the Project, and how those effects could or could not be mitigated, were also identified as a discussion topic.

An open house was scheduled for April 26, 2019 to provide the community and TGC members with an opportunity to learn about the Project and to raise any potential concerns with HPW. Given the low turnout at this event, a second open house was scheduled for May 8, 2019. HPW presented the following to attendees, including representatives from TGC, at the open house:

- an overview of the Project and project details;
- an engagement overview;
- construction methods and bridge crossings;
- Project interaction with environmental and socio-economic values;
- employment and business opportunities; and
- discussion and next steps.

A draft of the MVLWB Application and the YESAB proposal was shared with TGC July 10, 2019. HPW requested that comments be provided before July 24, 2019.

Reason(s) for Engagement

The purpose of engagement was to introduce TGC and the community to the Project and to discuss concerns, opportunities and potential impacts on TGC values, interests and Tetlit Gwich'in treaty rights. The information HPW received during the engagement was used to adjust the Project design and used to inform mitigation measures for the Project.

Overview of Issue(s) Resolved

Below are TGC and the community of Fort McPherson identified areas of concerns regarding the Project, as well as the HPW resolution:

- Connectivity to homes and Northwestel's role – Inquiries about service to homes should be sent to Northwestel. Considering Northwestel's role in ongoing operation and maintenance of the fibre line, HPW indicated that it would try to arrange for a representative from Northwestel to attend meetings in the future.

Overview of Issue(s) Unresolved

Attendees to the open house inquired about the benefits of the Project for business and procurement opportunities.

HPW responded that the construction procurement for the Project will go out to public tender. HPW plans to issue an RFQ to determine which contractor companies are capable of performing the work. Contractors will then be invited to visit the communities to network with local businesses and development corporations. This will enable the companies to meet and discuss opportunities with businesses prior to bidding on the RFP, at which stage they will be expected to explain how they will procure from local companies, including development corporations.

Construction on the Project has not begun and HPW is in the process of developing a Procurement Plan to reflect the approach described above. The procurement approach will be presented and discussed with TGC at a later time.

Gwichya Gwich'in Council

Name(s) of representative(s) from affected party who participated in engagement

HPW worked with GTC staff to coordinate meetings with Gwichya Gwich'in Council (GGC) and community open houses in Tsiigehtchic.

Sign-in sheets for meetings with GGC and the open house in Tsiigehtchic are included in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses).

Dates of Engagement

On January 31, 2019, HPW initiated engagement with GGC in a letter requesting a meeting to discuss Gwichya Gwich'in rights, interests and values in the Project Area. Whether there may be adverse effects from the Project, and how those effects could or could not be mitigated, were also identified as a discussion topic.

On April 9, 2019, HPW presented the following to the GGC President and Council members:

- an overview of the Project and project details;
- an engagement overview;
- construction methods and bridge crossings;

- Project interaction with environmental and socio-economic values;
- employment and business opportunities; and
- discussion and next steps.

In order to accommodate the schedules of those who could not make a meeting earlier in the day, HPW presented to GGC twice on April 9, 2019 (i.e., once in the afternoon and once in the evening). Maps of the Project route and copies of the draft land use permit applications were provided to staff for review.

An open house was originally scheduled for May 1, 2019 to provide the community and GGC members an opportunity to learn about the Project and to raise potential concerns with HPW. However, due to travel issues, the community open house had to be rescheduled for May 7, 2019.

A draft of the MVLWB Application was shared with GGC July 10, 2019. HPW requested that comments be provided before July 24, 2019.

Reason(s) for Engagement

The purpose of engagement was to introduce GGC and the community to the Project and to discuss concerns, opportunities and potential impacts on Gwichya Gwich'in rights, interests and values in the Project Area. The information HPW received during the engagement was used to adjust the Project design and to inform mitigation measures for the Project.

Overview of Issue(s) Resolved

Below are the GGC and the community of Tsiigehtchic identified areas of concerns regarding the Project, as well as the HPW resolution:

- Inquires as to who would be ultimately responsible for the line in the event of any unforeseen catastrophes and concerns as to whether HPW could hold construction contractors responsible for any issues – HPW clarified that the fibre line is an HPW asset and is ultimately the responsibility of the Government of Yukon. This includes ensuring the quality of Northwestel's work and maintenance of the fibre line.
- Northwestel's role and interest in having Northwestel visit the community – HPW indicated that it would try to arrange for a representative from Northwestel to attend meetings in the future.

- Protecting wildlife and the environment – This was identified as a key issue as was using traditional knowledge to inform planning. GGC and the community of Tsiigehtchic raised the importance of seasonal fish spawning and to avoid drilling at those times – HPW has committed to the following:
 - While no instream/in-water works are proposed in fish-bearing watercourses, construction that poses a high risk to fish or fish habitat (e.g., for HDD crossings if the risk of frac-outs are considered high due to geotechnical considerations) should be scheduled to occur within the appropriate least risk work window for fish (e.g., July 16th to September 14th for watercourses/waterbodies where fish species are not known).
 - Drilling under the Mackenzie River will not occur in November as this is spawning season. The ideal time to drill under the river is January and February when fish activity is minimal.
- Porcupine Caribou and caribou habitat – Construction activities may impact caribou populations along the Dempster Highway. HPW will ensure that mitigation measures for the herd will be included in the construction contract wherever needed to ensure little to no disturbance. On behalf of HPW, Hemmera worked with the PCMB to identify potential impacts on caribou. Feedback on the draft Land Use Permit Application was received from PCMB and incorporated into the application.

Overview of Issue(s) Unresolved

HPW wants GGC and the community to continue sharing knowledge of the landscape. GGC and the community of Tsiigehtchic recommended that HPW avoid drilling in areas the community knows are prone to flooding and raised concerns with respect to drilling and the depth of the Rengleng River. Routing and engineering work is currently underway, and HPW hopes to bring the engineering team to future community meetings to address these concerns raised.

GGC expressed interest in business and procurement opportunities and recommended that HPW reach out to the local development corporation.

HPW responded that the construction procurement for the Project will go out to public tender. HPW plans to issue an RFQ to determine which contractor companies are capable of performing the work. Contractors will then be invited to visit the communities to network with

local businesses and development corporations. This enables companies to meet and discuss opportunities with businesses prior to bidding on the RFP, at which stage they will be expected to explain how they will procure from local companies, including development corporations.

Construction on the Project has not begun and HPW is in the process of developing a Procurement Plan to reflect the approach described above. The procurement approach will be presented and discussed with GGC at a later time.

Ehdiitat Gwich'in Council

Name(s) of representative(s) from affected party who participated in engagement

HPW worked with GTC staff to coordinate meetings with Ehdiitat Gwich'in Council (EGC) and a community open house in Aklavik.

Sign-in sheets for the meeting with EGC and the Aklavik open house are included in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses).

Dates of Engagement

On January 31, 2019, HPW initiated engagement with EGC in a letter requesting a meeting to discuss Ehdiitat Gwich'in rights, interests and values in the Project Area. Whether there may be adverse effects from the Project, and how those effects could or could not be mitigated, were also identified as a discussion topic.

On April 11, 2019, HPW presented the following to the EGC President and Council members:

- an overview of the Project and project details;
- an engagement overview;
- construction methods and bridge crossings;
- Project interaction with environmental and socio-economic values;
- employment and business opportunities; and
- discussion and next steps.

Maps of the Project route and copies of the draft land use permit applications were provided to staff for review.

An open house was scheduled for April 25, 2019 to provide the community and EGC members an opportunity to learn about the Project and to raise any potential concerns with HPW.

A draft of the MVLWB Application was shared with EGC July 10, 2019. HPW requested that comments be provided before July 24, 2019.

Reason(s) for Engagement

The purpose of engagement was to introduce EGC and the community to the Project and to discuss concerns, opportunities and potential impacts on Ehdiitat Gwich'in rights, interests and values in the Project Area. The information HPW received during the engagement was used to adjust the Project design and to inform mitigation measures.

Overview of Issue(s) Resolved

Below are the EGC and the community of Aklavik identified areas of concerns regarding the Project, as well as the HPW resolution:

- EGC suggested that HPW use the Gwich'in business directory – HPW informed EGC that it was aware of the directory based on previous discussions with GTC and will use it as a resource.
- EGC recommended any reports required in the land use permit for MVLWB should be made available to EGC – HPW is committed to making permit reporting available for EGC, the other DGOs, and GTC. Reporting requirements for the Environmental Monitor will be defined in the Construction Environmental Management Plan, and reports will be shared with GTC. Additionally, reporting requirements for the Wildlife Monitoring Program will be developed and reports will be shared with GTC.

Overview of Issue(s) Unresolved

EGC and the community expressed interest in business and procurement opportunities.

HPW responded that the construction procurement for the Project will go out to public tender. HPW plans to issue an RFQ to determine which contractor companies are capable of performing the work. Contractors would then be invited to visit the communities to network with local businesses, potential workers and development corporations. This will enable companies to meet and discuss opportunities with businesses prior to bidding on the RFP, at

which stage they will be expected to explain how they will procure from local companies, including development corporations.

Construction on the Project has not begun and HPW is in the process of developing a Procurement Plan to reflect the approach described above. The procurement approach will be presented and discussed with EGC at a later date.

Nihtat Gwich'in Council

Name(s) of representative(s) from affected party who participated in engagement

HPW worked with GTC staff to coordinate meetings with Nihtat Gwich'in Council (NGC) and a community open house in Inuvik.

Sign-in sheets for the meeting with NGC and the open house in Inuvik are included in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses).

Dates of Engagement

On January 31, 2019, HPW initiated engagement with NGC in a letter requesting a meeting to discuss Nihtat Gwich'in rights, interests and values in the Project Area. Whether there may be adverse effects from the Project, and how those effects could or could not be mitigated, were also identified as a discussion topic.

On April 10, 2019, HPW presented the following to NGC:

- an overview of the Project and project details;
- engagement overview;
- construction methods and bridge crossings;
- Project interaction with environmental and socio-economic values;
- employment and business opportunities; and
- discussion and next steps.

Maps of the Project route and copies of the draft land use permit applications were provided to staff for review.

An open house was scheduled for April 24, 2019 to provide the community and NGC members with an opportunity to learn about the Project and to raise any potential concerns with HPW.

Reason(s) for Engagement

The purpose of engagement was to introduce NGC and the community to the Project and to discuss concerns, opportunities and potential impacts on Nihtat Gwich'in rights, interests and values in the Project Area. The information HPW received during the engagement was used to adjust the Project design and to inform mitigation measures.

Overview of Issue(s) Resolved

Below are the NGC and the community of Inuvik identified areas of concerns regarding the Project, as well as the HPW resolution:

- NGC asked why the land use permit application was being submitted to MVLWB instead of the Gwich'in Land and Water Board – HPW responded that the Project is being submitted to MVLWB because the Project is a transboundary project.
- NGC raised the importance of traditional knowledge and considering lessons learned from the construction and operation of the MVFL – HPW recognizes and understands the importance of traditional knowledge. A Wildlife Monitoring Program will be developed that will include having a Wildlife Monitor on-site during construction to ensure that mitigation measures are applied. Additionally, a qualified Environmental Monitor will conduct monitoring (including water quality assessments), with an emphasis on those works with the greatest potential to impact fish habitat (e.g., stream crossings). HPW is committed to providing opportunities for local participation and training and will consider hiring wildlife and environmental monitors from the communities to ensure traditional and local knowledge can inform the work underway).
- NGC recommended HPW use the Gwich'in business directory – HPW informed NGC that it was aware of the directory based on previous discussions with GTC and will use it as a resource.

Overview of Issue(s) Unresolved

HPW wants NGC and the community to continue sharing knowledge of the landscape. Routing and engineering work is currently underway, and HPW hopes to bring the engineering team to future community meetings in order to address outstanding concerns with respect to the route of the fibre cable.

Consistent with interests expressed by other DGOs, NGC is interested in business and procurement opportunities and recommended that HPW reach out to the local development corporation. NGC also communicated that each community has its own development corporation.

HPW responded that the construction procurement for the Project will go out to public tender. HPW will issue an RFQ to determine contractor companies capable of performing the work. Contractors will then be invited to visit the communities to network with local businesses and development corporations. This enables companies to meet and discuss opportunities with businesses prior to bidding on the RFP, during which they will be expected to explain how they will procure from local companies, including development corporations.

Construction on the Project has not begun and HPW is in the process of developing a Procurement Plan to reflect the approach described above. The procurement approach will be presented and discussed with NGC at a later time.

Remaining Affected Parties

First Nation bands in the communities of Inuvik, Aklavik, Tsiigehtchic, and Fort McPherson were notified of the Project in a letter sent via email and followed-up by a hard copy. In the letter, the bands were notified of the Project and asked to determine if there are any potential effects that could arise as a result of the Project. If so, recipients were provided the contact information of Jay Chou, Consultation Advisor for HPW, in order to discuss any concerns.

Additionally, affected parties such as the First Nation Bands and Renewable Resource Councils (RRCs) were provided with the opportunity to raise issues and/or provide comments at meetings scheduled with the DGOs as well as the community open houses.

Pre-Submission Consultation and Engagement Log

The following table displays the template used for the Pre-Submission Consultation and Engagement Log (Log). This same format will be carried forward in all engagement activities for the life of the Project.

Table 3 Template for Pre-Submission Consultation and Engagement Log.

Dates	Engagement Activity	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issues(s) was resolved	Additional Information

The complete Log, from January 31, 2019 up until August 9, 2019 is located in Schedule 3 – Pre-Submission Consultation and Engagement Log.

Consultation and Engagement Plan

HPW's consultation and engagement activities will continue during the construction and future operation of the line, and is outlined in the Plan.

The Plan will:

- Describe the goals and the methods of engagement.
- Outline a frequency of engagement that allows for relevant and timely information sharing (e.g. times throughout the life of the Project when each affected party will be engaged and what approaches will be used).
- Establish a process that allows the affected party to raise concerns or issues.
- Allow opportunities for, when appropriate, community meetings to take place to be inclusive of perspectives from all sectors of the community, including women, youth and Elders coordinated through the DGOs.
- Ensure the proponent has procedures in place to understand and respond to issues as they arise and to consult with the Gwich'in regarding the issues and potential solutions.
- Be developed collaboratively with affected parties.

Proposed Triggers for Consultation and Engagement

Triggers for future consultation and engagement may be regulatory or project based. The following milestones were identified as triggers for consultation and engagement with affected parties:

- completion of regulatory processes;
- initiation of procurement activities for the Project;
- initiation of construction activities;
- monitoring reports (e.g. environmental, heritage resources etc.)
- bi-annually after the winter and summer construction seasons
- completion of construction

- annual review
- permit reporting requirements

It is possible that triggers listed above may overlap with each other and may be combined. At any point in time, affected parties, namely the Gwich'in, may contact HPW and initiate additional consultation and engagement activities.

Initial Template for Consultation and Engagement Plan

GTC and HPW worked collaboratively to refine the Plan. The following form was used as an initial template Plan and discussed with GTC. GTC reviewed the template Plan, along with the content of this section, and provided revisions to HPW. For the final Plan see Schedule 2 – Final Consultation and Engagement Plan.

Name of Proponent: Yukon Government

Name of Affected Party:

When will you be engaging?	What is the purpose for engaging?	Who will be engaged at each of these stages?	How will you engage?
<i>What is the trigger for engagement?</i>	<i>In relation to the trigger, what will you be discussing (e.g. updates to design or plans etc.)?</i>	<i>The people engaged at each stage may vary depending on what is being discussed</i>	<i>Which engagement methods will be used?</i>
At any time, the affected party may initiate additional engagement activities via written communication (letter, email, fax) to YG.			
Completion of regulatory processes	<ul style="list-style-type: none"> Project updates 	<ul style="list-style-type: none"> Indigenous organizations 	<ul style="list-style-type: none"> Written communication (letter or email)
Initiation of procurement activities	<ul style="list-style-type: none"> Project updates Project related training and employment opportunities 	<ul style="list-style-type: none"> Indigenous organizations Community 	<ul style="list-style-type: none"> Meetings open houses
Initiation of construction activities	<ul style="list-style-type: none"> Project updates 	<ul style="list-style-type: none"> Indigenous organizations 	<ul style="list-style-type: none"> Written communication (letter or email)
Monitoring reports	<ul style="list-style-type: none"> Reports from environmental monitors 	<ul style="list-style-type: none"> Indigenous organizations 	<ul style="list-style-type: none"> Written communication (letter or email)
Completion of construction	<ul style="list-style-type: none"> Project updates 	<ul style="list-style-type: none"> Indigenous organizations 	<ul style="list-style-type: none"> Written communication (letter or email)
End of each construction season	<ul style="list-style-type: none"> Project updates Potential issues arising during construction 	<ul style="list-style-type: none"> Indigenous organizations 	<ul style="list-style-type: none"> Written communication (letter or email) (seeking interest in meeting) Meetings (if requested)
Annually post-construction	<ul style="list-style-type: none"> Potential issues arising during operation and maintenance 	<ul style="list-style-type: none"> Indigenous organizations 	<ul style="list-style-type: none"> Written communication (letter or email) (seeking interest in meeting) Meetings (if requested)
	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">

Signature of Proponent (Representative):

Date Signed:

Signature of Affected Party (Representative):

Date Signed:

Schedules

Schedule 1 – Consultation and Engagement Approach for GTC and HPW

Schedule 2 – Final Consultation and Engagement Plan for GTC and HPW

Schedule 3 – Pre-Submission Consultation and Engagement Log

Schedule 4 – Letters to Initiate Consultation and Engagement

Schedule 5 – HPW Presentation: Dempster Fibre Project

Schedule 6 – Community Open House Posters

Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses)

Schedule 8 – Summaries (Meetings and Community Open Houses)

Schedule 1 – Consultation and Engagement Approach for GTC and HPW

Gwich'inat Eenjit
Gádat'igwíjilcheii Gídlíi
Gwich'in nan, náklawé'yúu ts'ól gwí't
Itak náklawéwee gáshéziin eenjit



Gwich'in Tribal Council
Gwich'in land, culture & economy for a better future

August 7, 2019

Mr. Priyank Thatté
Director, Major Construction
Property Management, Highways and Public Works
Yukon Government
PO Box 2703 (W-5)
Whitehorse, Yukon. Y1A 2C6

RE: Consultation and Engagement for the Dempster Fibre Project

Dear Mr. Thatté,

I am writing to convey the views of the Gwich'in Tribal Council (GTC) to you regarding the Yukon Government (YG) Highways and Public Works Department (HPW) transboundary consultation and engagement activities with the Gwich'in Nation on the Dempster Fibre Project (Project). These consultations commenced when the GTC received a request to initiate engagement and consultation on the Project from YG in January of 2019. As the letter summarizes below, I would like to confirm for you that the GTC is pleased with HPW's consultation and engagement activities in the Gwich'in Settlement Area (GSA).

To date, the GTC has provided advice and direction to YG on the desired timing and approach to consultation and engagement about the Project, pertaining to both the Gwich'in Primary and Secondary Use Area in the Yukon and the Gwich'in Settlement Area (GSA) in the Northwest Territories (NWT). We have advised you that these consultations should proceed through the GTC as the first point of contact as the Gwich'in treaty rights holder and should also include direct discussion with each of the four Gwich'in community Designated Gwich'in Organizations (DGOs). Our initial meeting with you in Whitehorse on February 20, 2019 provided an opportunity for an exchange of views and information on the Project, including HPW's proposed schedule and timelines, discussion of Gwich'in treaty rights, interests and values throughout the Project area.

The Yukon Transboundary Agreement (YTA) is contained within the Gwich'in Comprehensive Land Claim Agreement (GCLCA) as Appendix C. As such, the YTA is part of the Gwich'in modern treaty. Gwich'in treaty rights and associated Crown duty to consult obligations extend to the Gwich'in Primary Use Area and Secondary Use Area Yukon Lands, in addition to the GSA in the Northwest Territories.

At the February meeting with the Yukon Project Team that I and the GTC Director of Lands and Resources, Stephen Charlie, participated in, we indicated a desire for the Project Team to respect

and pursue a sequential consultation strategy. I am pleased that the YG Project Team has done this. Meetings held in March, April, and May, subsequent to the initial meeting in February, have allowed us to work collaboratively and to share information and updates. The GTC has also participated in most of your proponent-led consultation activities over the last several months in Gwich'in communities. In these meetings the GTC acted in a dual capacity, as both the affected party being consulted and as a conduit to facilitate discussion with Gwich'in community leadership through the DGOs. This work has included HPW relying on GTC staff to organize face-to-face meetings with Nihtat Gwich'in Council (NGC), Gwichya Gwich'in Council (GGC), Tetlit Gwich'in Council (TGC) and with the Ehditat Gwich'in Council (EGC). The GTC and HPW have also worked together to arrange open houses in Inuvik, Aklavik, Tsilgehtchic, and Fort McPherson, at the request of the DGOs. We appreciate the Project Team covering the costs associated with these project consultation activities.

The GTC has reviewed and provided comments to the Project Team on its draft Consultation and Engagement Plan. We look forward to ongoing consultation and engagement following the model and protocol that we have developed and utilized to date throughout the life-of-the-project and that the Project Team has consistently respected and followed, as requested by the GTC.

I understand that HPW will be submitting its Land Use Permit application for the Project to the Mackenzie Valley Land and Water Board (MVLWB) later this summer. We have appreciated the opportunity to review your plans in this regard and to review the key elements of the Land Use Permit Application with the HPW Project Team, prior to it being submitted to the MVLWB. Moreover, the HPW Project Team is welcome to attach this letter to its submission to MVLWB. We would also be pleased to meet with the MVLWB regarding the Project and to provide any further information to the MVLWB that it may require in its consideration of the Land Use Permit Application.

Sincerely,



David MacMartin
Director of Intergovernmental Relations

Cc Bobbie Jo Greenland-Morgan, Grand Chief/President
Jordan Peterson, Deputy Grand Chief/Vice-President
Carolyn Lennie, Chief Operating Officer
Leslie Blaks, President, Tetlit Gwich'in Council
Jozef Carnogursky, President, Nihtat Gwich'in Council
Julie Ann Andre, President, Gwichya Gwich'in Council
Andrew Charlie, President, Ehditat Gwich'in Council
James Thorbourne, Interim Director, Lands and Resources
Jay Chou - Consultation Advisor, Highways and Public Works, Yukon Government
Darryl Froese - Project Manager, Highways and Public Works, Yukon Government
Jodi-Lyn Newnham, Director, Implementation and Reconciliation, Yukon Government

Schedule 2 – Final Consultation and Engagement Plan for GTC and HPW

Name of Proponent: Department of Highways and Public Works

Name of Affected Party: Gwich'in Tribal Council

When will you be engaging?	What is the purpose for engaging?	Who will be engaged at each of these stages?	How will you engage?
<i>What is the trigger for engagement?</i>	<i>In relation to the trigger, what will you be discussing (e.g. updates to design or plans etc.)?</i>	<i>The people engaged at each stage may vary depending on what is being discussed</i>	<i>Which engagement methods will be used?</i>
At any time, GTC may initiate additional engagement activities via written communication (letter, email, fax) to HPW.			
Completion of regulatory processes	<ul style="list-style-type: none"> Project updates 	<ul style="list-style-type: none"> Indigenous organizations 	<ul style="list-style-type: none"> Written communication (letter or email)
Initiation of procurement activities	<ul style="list-style-type: none"> Project updates Project related training and employment opportunities 	<ul style="list-style-type: none"> Indigenous organizations Community 	<ul style="list-style-type: none"> Meetings Open houses
Initiation of construction activities	<ul style="list-style-type: none"> Project updates 	<ul style="list-style-type: none"> Indigenous organizations 	<ul style="list-style-type: none"> Written communication (letter or email)
Monitoring reports	<ul style="list-style-type: none"> Reports from environmental monitors 	<ul style="list-style-type: none"> Indigenous organizations 	<ul style="list-style-type: none"> Written communication (letter or email)
Bi-annually after the winter and summer construction seasons	<ul style="list-style-type: none"> Project updates Potential issues arising during construction 	<ul style="list-style-type: none"> Indigenous organizations 	<ul style="list-style-type: none"> Written communication (letter or email signalling an interest in meeting) Meetings (if requested)
Completion of construction	<ul style="list-style-type: none"> Project updates 	<ul style="list-style-type: none"> Indigenous organizations 	<ul style="list-style-type: none"> Written communication (letter or email)
Annually post-construction	<ul style="list-style-type: none"> Potential issues arising during operation and maintenance 	<ul style="list-style-type: none"> Indigenous organizations 	<ul style="list-style-type: none"> Written communication (letter or email signalling an interest in meeting) Meetings (if requested)
Permit Reporting Requirements	<ul style="list-style-type: none"> Project updates Potential issues 	<ul style="list-style-type: none"> Indigenous organizations 	<ul style="list-style-type: none"> Written communication (letter or email signalling an interest in meeting) Meetings (if requested)

Schedule 3 – Pre-Submission Consultation and Engagement Log

 Indicates a record (e.g., email) can be provided for that log entry.

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issues(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
Gwich'in Tribal Council						
January 31, 2019	Written Communication Email (hard copy letter followed – dated January 28, 2019)	From HPW (DM Jaime Pitfield) To GTC (Grand Chief Bobbie Jo Greenland-Morgan) CC'ed: Meeka Blake – Administrative Services Officer, GTC Stephen Charlie – Director of Lands and Resources, GTC David L. MacMartin – Director of Intergovernmental Relations, GTC Leslie Blake – President, TGC Jozef Carnogursky – President, NGC Andrew Charlie – President, EGC Grace Blake – President, GGC YG (Jennifer Macgillivray, Priyank Thatté, Darryl Froese, Jay Chou, Erin Light) GNWT (Peter Clarkson, Binay Yadav)	HPW informs GTC of proposed project, initiates engagement, and requests to schedule an in-person meeting.			Schedule 4 – Letters to Initiate Consultation
February 20, 2019	Face-to-face Meeting (Whitehorse, YT)	HPW (Darryl Froese, Priyank Thatté, Anthony DeLorenzo, Jay Chou, Abbie Rotondi) GTC (David MacMartin, Stephen Charlie)	Initiate consultation with GTC. GTC identified specific topics for discussion: Procurement Activities, Project History and Project Consultation.	GTC pleased to receive January letter and views the in-person meeting as increased interaction with HPW than in the past. GTC is encouraged and looks forward to future discussions. GTC is interested in exploring business opportunities from this project. GTC has a development corporation and sees this project	HPW responded that this is the first meeting with GTC on this project and views consultation as a process, rather than a one-time event. HPW is consulting to determine if there are impacts to GTC's treaty rights under YTA, and to discuss how best to address impacts of the Project. HPW's goal is to provide opportunities wherever possible. Contract opportunities	Meeting summary available in Schedule 8 – Summaries (Meetings and Community Open Houses).

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
				<p>as an opportunity to further develop and grow its business interests.</p> <p>GTC raised the importance of listening and gathering feedback from communities about the Project, in particular, Tsiigehtchic, who want to be connected and often feel they are overlooked. GTC would like to learn about the proposed project and the route in greater detail.</p> <p>As part of the land use application to MVLWB, GTC would like to review the engagement record before it is submitted.</p> <p>GTC raised the question of whether HPW can provide funding for the DGOs to attend and participate in engagement activities. Increased demand on Presidents' and council members' time to engage on projects.</p> <p>GTC indicated it would provide direction to HPW on timing and availability for meeting with DGOs. David MacMartin will be GTC's main contact for HPW on this project.</p>	<p>available on this project are, for example, brushing, survey work, geotechnical work, wildlife monitoring, horizontal directional drilling, construction, and support services. HPW is looking at a number of options to provide these opportunities to First Nations but needs to do so in the context of the limitations of funding agreements and capacity and availability of services.</p> <p>HPW recognizes that current criteria are designed for Yukon First Nations, but can confirm that Procurement Services can provide flexibility to include other non-Yukon First Nations given that this is a transboundary project. HPW will work on designing criteria to ensure GTC and all affected First Nations are involved.</p> <p>HPW agrees and would like to have GTC's signature on the engagement record to MVLWB.</p> <p>HPW responded that it would review the funding request if GTC prepares an outline of the costs and scope of funding request for engaging on this project.</p> <p>HPW Dempster Fibre team will continue engagement and rely on GTC to organize engagement meetings with DGOs. The purpose being to introduce the Project in greater detail to the DGOs and identify concerns and interests.</p>	
March 11, 2019	Phone Call	HPW (Jay Chou) GTC (David MacMartin)	Follow-up on action items discussed on Feb 20, 2019.	Follow-up with GTC on timing for travel to Inuvik to meet with GTC and DGOs.		

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
March 13, 2019	Phone Call	HPW (Jay Chou) GTC (David MacMartin)	Follow-up on action items discussed on Feb 20, 2019. Follow-up with GTC on the timing for travel to Inuvik to meet with GTC and DGOs.			
March 20, 2019	Phone Call	HPW (Jay Chou) GTC (David MacMartin)	Discussion on scheduling meetings with DGOs.	GTC will attempt to schedule meetings with all DGOs in Inuvik, Tsiigehtchic, Fort MacPherson and Aklavik for April 4, 5, 8, and 9, 2019. GTC to confirm with HPW on March 22, 2019. HPW reminded GTC the submission date to MVLWB end of April.		
March 21, 2019	Written Communication Email	From HPW (Jay Chou) To GTC (David MacMartin) CC'ed: HPW (Priyank Thatte)	Discussion on scheduling meetings with DGOs.	Confirmation with GTC that David MacMartin will confirm meeting dates with DGOs for April 4-9, 2019.		
April 10, 2019	Face-to-Face Meeting (Inuvik, NWT)	GTC (Joy O'Neill, Dwayne Semple, Diane Baxter, Jordan Peterson, Erika Tizya-Tramm, James Thorbourne) HPW (Darryl Froese, Jay Chou, Priyank Thatte, Abbie Rotond)	Meeting with GTC staff to introduce the Project. HPW shared draft YESAB and MVLWB applications for discussion.	GTC asked what existing studies and reports are available to HPW on the Project. GTC explained there were concerns about accuracy of the ROW measurements using GPS coordinates and field surveying on the MVL. Regarding construction and schedule, GTC asked how long it would take to lay down one kilometre stretch of fibre line? GTC expressed its appreciation of HPW's early consultation and engagement on this project and is interested in learning more about plans for ongoing engagement.	HPW replied that it has full access and rights to the drilling reports previously completed on the Dempster Highway and Mackenzie River. Generally, if the information is accurate and complete, available reports from previous work will be utilized. HPW's engagement, however, is new and will not be relying on past engagement by Northwestel. For the Project, HPW will be using accurate mapping and survey work to ensure the Project is staying within the exact measurements of the ROW. HPW explained that it is consulting early with GTC, and in the NWT portion of the Project,	Copies of the presentation, maps, and draft Land Use Permit application were provided to inform discussions and next steps. Schedule 5 – HPW Presentation: Dempster Fibre Project. No Sign-in Sheet available for this meeting. Meeting summary available in Schedule 8 – Summaries

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
				<p>GTC noted it would be beneficial to have free Wi-Fi for the public at Eagle Plains for tourists and locals driving between these points.</p> <p>GTC raised impacts on caribou and caribou habitat as an important concern.</p> <p>Susceptibility of the fibre line to forest fires.</p> <p>Difficulties with construction in the ROW near Rengleg River.</p> <p>Mackenzie River and bedrock issues – GTC asked how HPW plans to deal with bedrock issues in areas with rapids</p> <p>GTC is sensitive to the issue of exploitation of traditional knowledge. It would be valuable for the wildlife and environmental monitoring work to be informed and contributing to traditional knowledge.</p> <p>One of GTC's main interests in this project is procurement opportunities.</p> <p>GTC explained on previous projects in the Gwich'in Settlement Area, large contractors have been hired without consideration of First Nations' employment and businesses. GTC wants to make sure the goals of ensuring the communities benefiting from procurement opportunities are actually delivered.</p>	<p>it is engaging with GTC to meet engagement requirements for the MVLWB. HPW is interested in receiving feedback on any best practices for future engagement on this Project.</p> <p>HPW responded that under ideal conditions, one to three kilometres of conduit could be laid per day, depending on what conditions are encountered.</p> <p>HPW and Hemmera will work with the PCMB to identify potential impacts on caribou populations and identify appropriate mitigations. Accommodations for the herd will be included in the construction contract wherever needed to ensure little to no disturbance.</p> <p>Susceptibility to forest fires – There is little risk to the line when it is buried 10 inches underground. HPW will assess the risk if any sections of the fibre line are laid on the surface.</p> <p>Rengleg River – HPW is not familiar with this area, but will assess this area closely and review installation options such as aerial installation in order to mitigate any environmental concerns such as flooding.</p> <p>Mackenzie River and bedrock issues – HPW will review available geotechnical drilling information and can examine rapid areas more closely to find an appropriate solution.</p>	(Meetings and Community Open Houses).

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issues(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
					<p>HPW understands the importance of traditional knowledge and is looking at hiring wildlife/environmental monitors from the communities with a consultant overseeing the overall work.</p> <p>HPW explained that construction procurement for this project will go out to public tender. Contract will not be awarded based solely on lowest price.</p> <p>The RFQ for construction work is meant to shortlist a number of contractor companies. Companies will be invited to visit the communities to network with local businesses and development corporations. This will enable contracting companies to meet and discuss opportunities with businesses prior to bidding on the RFP, where companies will be expected to show how they plan to procure local companies, including development corporations.</p> <p>HPW explained it is also working on First Nation criteria that will be included in the public tendering process. One of the criteria would require commitments from contractors during the tendering stage to demonstrate, and be evaluated on, how it plans to hire and procure locally.</p>	
April 16 – 17, 2019	Written Communication Email (chain of eight emails)	GTC (Carolyn Lemie, Eleanor Jerome) HPW (Jay Chou)	Confirming details and finalizing Honorarium contract with GTC. HPW providing contract for GTC signature.			

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
April 18, 2019	Written Communication Email	From HPW (Jay Chou) To GTC (Stephen Charlie, Jordan Peterson, Erika Tizya-Tramm, Dwayne Sample) CC'ed: GTC (Eleanor Jerome, David MacMartin) HPW (Priyank Thatte, Abbie Rotondi, Darryl Froese) See details in the Communities section.	HPW provided GTC draft YESAB and draft MVLWB applications for GTC review and comment.			
April 24, 2019	Open House (Inuvik, NWT)					
April 30, 2019	Phone Call	HPW (Jay Chou; Darryl Froese) GTC (Eleanor Jerome) TGC (Leslie Blake) GGC (Julie-Anne Andre)	Call to schedule open houses in Tsiigehtchic and Fort McPherson. Tentative schedule - Open House in Tsiigehtchic Tuesday, May 7, and meeting with TGC Wednesday, May 8, at 4pm, followed by Community Open House in Fort McPherson at 6pm. Note: Due to travel complications meeting with TGC at 4:00pm was cancelled. TGC attended Community Open House at 6:00pm.			Confirmation sent via text message to GTC (Eleanor Jerome). Screenshot available upon request.
May 3, 2019	Phone Call And Written Communication Email	From HPW (Jay Chou) To GTC (Stephen Charlie, Erika Tizya- Tramm) CC'ed: GTC (Eleanor Jerome, Carolyn Lennie) HPW (Darryl Froese)	Phone call with GTC to discuss engagement activities to date and seek direction on next steps with GTC and DGOs. This included direction on review of Engagement Report and Engagement	GTC informed HPW that it is appreciative of the engagement.		

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issues(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
			Plan for the Land Use Permit application to MVLWB. HPW followed-up with an email to GTC to confirm next steps regarding Engagement Record and Engagement Plan. Left voicemail to touch base if David is back from medical leave. Request to follow-up on the project and next steps with GTC.			
May 15, 2019	Phone Call (Voice mail)	HPW (Jay Chou) GTC (David MacMartin)	Jay provided David an overview of the engagement activities with GTC and DGOs during David's absence from medical leave in April and May.	HPW (David MacMartin) confirmed that GTC is willing to issue a letter to YG-HPW that can be used in its MVLWB Land Use Application. The letter stating YG-HPW's engagement with GTC and DGO reflects the advice and approach GTC provided to HPW.	HPW (Jay Chou) to draft a letter for GTC (David MacMartin) to review and GTC will sign.	
May 22, 2019	Phone Call	HPW (Jay Chou) GTC (David MacMartin)	HPW provided draft letter for GTC's review. The draft is for a letter intended to be from GTC to HPW providing GTC's views of HPW's engagement. The goal is to show HPW's activities reflects the advice and recommendations received from GTC		HPW inquired if GTC is able to speak on behalf of DGOs. If yes, the letter is worded accordingly. If that is not the case, the letter would require changes. Engagement Plan outlining future engagement on the project. Formatted as a table which identifies 1) when to engage, 2) purpose/content of engagement, 3) who will be engaged, and 4) how and method of engagement. Based on template from MVLWB. HPW would appreciate any feedback, suggestions before finalizing the Plan.	
May 24, 2019	Written Communication Email	From HPW (Jay Chou) To GTC (David MacMartin)	HPW also provided a draft Engagement Plan (outlining future			

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issues(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
			engagement on the project) for GTC review.		HPW asked GTC if the Engagement Plan can be included in the letter. HPW also asked GTC if the DGOs should be cc'd on the letter.	
May 29 – 31, 2019	Written Communication Email (chain of seven emails)	GTC (David MacMartin) HPW (Jay Chou)	GTC confirmed receipt of HPW's email and materials sent May 24, 2019. Email chain pertained to HPW and GTC attempting to connect with each other and discusses materials (draft letter and engagement plan).			
May 31, 2019	Phone Call	GTC (David MacMartin) HPW (Jay Chou)	GTC confirmed it has reviewed the Engagement Plan and proposed letter. Will provide comments on both drafts that include 'community triggers' for the Engagement Plan.			
June 7, 2019	Written Communication Email (chain of three emails)	From HPW (Jay Chou) To GTC (David MacMartin, Erika Tizya-Tramm)	HPW emailed GTC to see if draft letter and Engagement Plan has been reviewed.	GTC (David MacMartin) discussed next steps with Carolyn Lennie and Erika Tizya-Tramm - GTC will send revisions shortly.		
June 19, 2019	Phone Call (Voicemail)	GTC (David MacMartin) HPW (Jay Chou)	GTC (David MacMartin) left voicemail. Hopes to provide comments on letter of support and Engagement Plan on Thursday, June 20, 2019.			
June 24, 2019	Phone Call (Voicemail)	GTC (David MacMartin) HPW (Jay Chou)	GTC (David MacMartin) left voicemail to have comments on letter and			

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
June 25, 2019	Written Communication Email (chain of four emails)	GTC (David MacMartin) HPW (Jay Chou)	Engagement Plan by mid-day June 25, 2019. Email to GTC (David MacMartin) to confirm receipt of voicemail on June 24, 2019. HPW looking forward to reviewing GTC comments.	GTC input on the letter of support regarding HPW's consultation and engagement with GTC and DGOs.		Draft "letter of support" attached to email.
July 10, 2019	Written Communication Email	From HPW (Darryl Froese) To GTC (David MacMartin; Erika Tizya-Tramm; Dwayne Semple) CC'ed: GTC (Carolyn Lennie) HPW (Jay Chou)	Email with link for draft MVLWB Application for review. HPW requested comments be provided before July 24, 2019.			
July 10, 2019	Written Communication Email	From HPW (Darryl Froese) To GTC (David MacMartin; Erika Tizya-Tramm; Dwayne Semple) CC'ed: HPW (Jay Chou)	Email with link for draft YESAB proposal for review. HPW requested comments be provided before July 24, 2019.			
July 24, 2019	Written Communication Email	From GTC (David MacMartin) To HPW (Jay Chou) CC'ed: Bobbie Jo Greenland-Morgan – Grand Chief GTC Carolyn Lennie – Chief Operating Officer, GTC Jozef Carnogursky – President, NGC Leslie Blake – President, TGC Andrew Charlie – President, EGC Julie-Ann Andre – President, GGC	GTC's response to HPW's draft Permit Application for the Dempster Fibre Project to MVLWB.	Appended to the email message was a letter outlining GTC's initial comments regarding the Yukon Government draft Permit Application for the Dempster Fibre Project. Letter included: GTC stated that they believe the project had been thoroughly planned and if the plan is strictly followed, it appears that there will be minimal long-term damage as a result of the project. GTC stated that it is valuable to consult with Gwich'in hunters and trappers in addition to		

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issues(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
		GTC (Dwayne Semple, James Thorbourne, Amber Keegan, Erika Tizya-Tramm)		<p>GTC and the DGOs, and GTC was relieved to see that the project plans to consult with these groups.</p> <p>GTC stated a priority issue is economic opportunity for Gwich'in participants and businesses, and GTC wants to ensure that both are given preference for positions, where possible.</p> <p>GTC stated that it is important to include references to plans for addressing this matter in both the Project Application and in the GTC-Yukon Government Consultation and Engagement Plan.</p> <p>GTC requested clarification regarding the timeline of the project, and asked several questions with respect to what happens at the end of the life span of the fibre optic cable.</p>		
August 2, 2019	Phone Call	GTC (David MacMartin; Amber Keegan) HPW (Jay Chou; Darrel Froese)	<p>Conversation to discuss Consultation and Engagement Plan between HPW and GTC.</p> <p>Parties also discussed GTC July 24, 2019 letter.</p>		<p>Discussed and agreed with GTC that HPW (Darryl) would provide draft outlining consultation process for GTC to review, this would build on the Consultation and Engagement Plan for the MVLWB submission.</p> <p>This would be used in lieu of a formal agreement on Consultation and Engagement Plan. E.g., similar to Gwich'in Tribal Council and Chance Oil and Gas Communications and Consultation Plan.</p> <p>Regarding questions raised in the July 24, 2019 letter from GTC, HPW explained that the Land Use Permit that HPW is applying for is for 5 years, with</p>	

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
August 7, 2019	Written Communication Email	From GTC (David MacMartin) To HPW (Priyank Thatte) CC'ed: Bobbie Jo Greenland-Morgan – Grand Chief/President, GTC Jordan Peterson – Deputy Grand Chief/Vice- President, GTC Carolyn Lennie – Chief Operating Officer, GTC Leslie Blake – President, TGC Jozef Carnogursky – President, NGC Julie-Ann Andre – President, GGC Andrew Charlie – President, EGC James Thorbourne, Interim Director, Lands and Resources, GTC YG (Jay Chou, Darryl Froese, Jodi-Lyn Newnham)	Letter from GTC confirming the consultation and engagement approach taken by HPW.		possible 2-year extension. HPW is also looking into whether maintenance activities, after that time, would trigger a Land Use Permit. In other words, is a Land Use Permit required for life of the project.	See Schedule 1 – Consultation and Engagement Approach for GTC and HPW
Tetlit Gwich'in Council (Fort McPherson) – Designated Gwich'in Organization						
January 31, 2019	Written Communication Email (hard copy letter followed - dated January 28, 2019)	From HPW (Jaime Pitfield) To TGC (Leslie Blake, President) CC'ed: Bobbie Jo Greenland-Morgan – Grand Chief GTC David L. MacMartin – Director of Intergovernmental Relations, GTC Carolyn Lennie – Chief Operating Officer, GTC	HPW informs TGC of proposed project, initiates engagement and requests to schedule an in-person meeting.			Schedule 4 – Letters to Initiate Consultation

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issues(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
		Stephen Charlie – Director of Lands and Resources, GTC Jozef Carnogursky – President, NGC Andrew Charlie – President, EGC Grace Blake – President GGC YG (Jennifer Macgillivray, Priyank Thatté, Darryl Froese, Jay Chou, Erin Light) GNWT (Peter Clarkson, Binay Yadav) See details in the Communities section.				
April 26, 2019	Open House (Fort McPherson, NWT)					
April 30, 2019	Phone Call	HPW (Jay Chou; Darryl Froese) GTC (Eleanor Jerome) TGC (Leslie Blake) GGC (Julie-Anne Andre)	Call to schedule open houses in Tsiigehtchic and Fort McPherson NWT. Tentative schedule (subject to confirmation) is Community Open House in Tsiigehtchic Tuesday May 7, meeting with TGC Wednesday May 8 at 4pm followed by Community Open House in Fort McPherson at 6pm. Note: Due to travel complications meeting with TGC at 4:00pm was cancelled. TGC attended Community Open House at 6:00pm.			
May 8, 2019	Open House (Fort McPherson, NWT)	See details in the Communities section.				
July 10, 2019	Written Communication Email	From HPW (Darryl Froese) To TGC (Leslie Blake, President)	Email with link for draft MVLWB Application for review. HPW requested review.			Note: Two emails were sent as Leslie Blake has two email addresses: <lgcchief@gmail.com>

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
July 10, 2019	Written Communication Email	CC'ed: GTC (David MacMartin; Erika Tizya-Tramm; Dwayne Semple) HPW (Jay Chou) From HPW (Darryl Froese) To TGC (Leslie Blake, President) CC'ed: GTC (David MacMartin; Erika Tizya-Tramm; Dwayne Semple) HPW (Jay Chou)	comments be provided before July 24, 2019. Email with link for draft YESAB proposal for review. HPW requested comments be provided before July 24, 2019.			<leslie.blake@gwichin.nt.ca> Note: Two emails were sent as Leslie Blake has two email addresses: <tgcchief@gmail.com> <leslie.blake@gwichin.nt.ca>
Gwichya Gwich'in Council (Tsiigehtchic) – Designated Gwich'in Organization						
January 31, 2019	Written Communication Email (hard copy letter followed - dated January 28, 2019)	From HPW (DM Jaime Pitfield) To GGC (Grace Blake, President) CC'ed: Bobbie Jo Greenland-Morgan, Grand Chief GTC David L. MacMartin – Director of Intergovernmental Relations, GTC Carolyn Lennie – Chief Operating Officer, GTC Stephen Charlie – Director of Lands and Resources, GTC Leslie Blake – President, TGC Jozef Carnogursky – President, NGC Andrew Charlie – President, EGC YG (Jennifer Macgillivray, Priyank Thatté, Darryl Froese, Jay Chou, Erin Light) GNWT (Peter Clarkson, Binay Yadav)	HPW informs GGC of proposed project, initiates engagement and requests to schedule an in-person meeting.			Schedule 4 – Letters to Initiate Consultation
April 9, 2019 (1:00 pm)	Face-to-Face Meeting (Tsiigehtchic, NWT)	HPW (Darryl Froese; Priyank Thatté; Abbie Rotondi; Jay Chou) GGC	Purpose of this meeting was to introduce the Project to GGC and to discuss concerns and	Questions were raised about who will ultimately be responsible for the fibre line in the case of any unforeseen catastrophes.	HPW clarified that this line is an HPW asset and is ultimately HPW's responsibility, which includes ensuring the quality of	Copies of the presentation, maps, and draft Land Use Permit application were

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
		Also in attendance were representatives of Tsiigehtchic, Red River Development Corporation and GTC.	Interests to be considered in HPW's Land Use Permit application to MVLWB.	<p>A concern was raised as to whether HPW could hold the construction contractor responsible for any issues.</p> <p>Tsiigehtchic would like to see Northwestel meet with the communities in the future, to discuss their work and hear comments and concerns.</p> <p>Protecting wildlife and the environment was raised as a key focus of concern. Attendees provided valuable information on specific areas of concern, weather patterns, wildlife movement and other local knowledge.</p> <p>Fisheries: November is fish spawning season and vibrations caused from drilling under the Mackenzie River will impact spawning. Participants requested no drilling in November. January and February are best for drilling due to minimal fish activity at that time.</p> <p>Attendees advised that when connecting the fibre line after drilling under the Mackenzie River, it may be best to stay on top of the main hill above the community and connect to the Northwestel tower behind Tsiigehtchic. HPW should be aware of several extreme overflow areas when doing construction around the community. The Beaufort Delta is experiencing severe permafrost effects and recommend cable go on the surface in some areas to avoid permafrost issues. Heavy moss areas along the route may require an above-ground line solution as well.</p>	<p>Northwestel's work and maintenance on the line.</p> <p>HPW will be able to claim deficiencies even after the warranty period for the Project.</p> <p>HPW will try to bring Northwestel representatives to the communities before construction.</p> <p>HPW clarified that the fibre line will not affect Gwich'in harvesting rights by minimizing impacts on caribou. HPW's consultant – Hemmera – will work with the PCMB to discuss impacts of the Project on caribou population and their habitat.</p> <p>HPW recognizes the significant role traditional knowledge provides and is gathering any local knowledge and input from GGC, such as timing of drilling outside of fish spawning season in November. HPW also looks forward to receiving comments and inputs from the Renewable Resource Councils during the review of the permit.</p> <p>Once HPW's procurement plan is approved, HPW will then meet with all the Indigenous groups again to discuss the plan and gather feedback and input on what to include in the tender criteria.</p>	<p>provided to inform discussions and next steps.</p> <p>Schedule 5 – HPW Presentation: Dempster Fibre Project.</p> <p>Sign-in Sheet available in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses).</p> <p>Meeting summary available in Schedule 8 – Summaries (Meetings and Community Open Houses).</p>

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
				<p>Permafrost: To avoid permafrost issues when trenching, HPW should avoid covering the fibre line with the same fill from digging the trench – there were major issues with this method on the MVFL.</p> <p>Flooding: Approximately every ten years Tsiigehtchic experiences extensive flooding which covers the entire valley below the community. HPW should avoid drilling below the flooding areas.</p> <p>Harvesting: Attendees identified the role of traditional knowledge in informing potential impacts of the Project.</p> <p>The GGC noted that once HPW has met with all the DGOs, the DGOs will then meet with GTC to discuss next steps on the Project.</p> <p>The community members of Tsiigehtchic are extremely interested in potential opportunities that may be available as a result of this Project. The Gwich'in have often felt left out with respect to business/employment opportunities and not being included by HPW. Attendees were very pleased about HPW's plans to bring the contractors back to the community in order to meet the local workforce and local businesses after the RFP stage.</p> <p>The local Development Corporation has equipment and businesses in Tsiigehtchic that can carry out brushing related work and want to make sure local construction equipment can be rented by the construction company</p>		

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issues(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
				<p>procured for the Project. Attendees were happy to hear about HPW's plans to include First Nations in procurement and subcontracting opportunities.</p> <p>It was noted that HPW should include environmental monitoring as a specific job, not just wildlife monitoring, since they are very separate components.</p> <p>Tsilghehtchic has often been left out of receiving services because they are on the other side of the Mackenzie River. The community is very excited to be included and connected to this fibre line.</p> <p>Attendees were pleased with the information provided in the Project presentation and appreciated that HPW had come to the community to discuss this Project early on. Attendees are looking forward to the team coming back for an open house with the community.</p>		
April 9, 2019 (6:00 pm)	Face-to-Face Meeting (Tsilghehtchic, NWT)	HPW (Darryl Froese; Priyank Thatte; Abbie Rotondi; Jay Chou) GGC Also in attendance were representatives of the GGRRC and Gwichya Gwich'in Band.	<p>Purpose of this meeting was to introduce the Project to GGC and to discuss concerns and interests to be considered in HPW's Land Use Permit application to MVLWB.</p> <p>Note: This second meeting was scheduled to accommodate participants unable to attend the 1:00</p>	<p>Participants discussed importance of incorporating traditional knowledge from the Gwich'in people to avoid past mistakes.</p> <p>River Crossings: The Rengmeng River was mentioned as a specific concern because of its depth. Ogilvie River is also a concern because of landslides and climate changes issues. It was suggested that aerial installation might be a better method than underground.</p> <p>HPW may want to look into whether the Arctic Red River is a heritage river.</p>	<p>HPW is looking to assess water levels in the area based on historic flood levels over 10-50 years but would like to talk to communities when they come back with the engineering team.</p> <p>HPW identified there will be cleanup and reclamation work completed wherever needed throughout the life of the Project.</p> <p>HPW would adjust construction to avoid disruptions to caribou and HPW will work with PCMB to gather information on caribou.</p>	<p>Copies of the presentation, maps, and draft Land Use Permit application were provided to inform discussions and next steps.</p> <p>Schedule 5 – HPW Presentation: Dempster Fibre Project.</p> <p>Sign-in Sheet available in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses).</p>

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
			pm meeting on April 9, 2019.	<p>HPW was advised that construction crews need to be aware of how extremely high the water can get around Tsiigehtchic during certain seasons as well as overflow areas during the colder months.</p> <p>Land Use Plan: James Creek Special Management Area is something to speak with GTC about as well.</p> <p>Construction: A base should be put down to lay the cable into – could use something like sawdust to keep the cable from floating up to the surface. Swamps have also proven difficult in past fibre projects in the area. It should be shared with the community where the drill waste will be hauled after the major drills (e.g., the Mackenzie River).</p> <p>It was suggested that the best place route the line would be near the gravel pits on both sides of the Mackenzie River. Ice breakup is brutal near Tsiigehtchic and would rip the boxes right out.</p> <p>Wildlife: Construction during the spring and fall should be avoided while the porcupine caribou are on route. Attendees mentioned it is getting harder to identify herd movement because of changes to the climate. For example, last year caribou migrated in July which is new.</p> <p>Participants identified the need for an environmental monitor that is separate from wildlife monitor so that it is not one monitor carrying out two jobs.</p>	<p>The main construction contract will be going out to public tender starting with an RFQ and then an RFP. Additionally, HPW is working to build in language that will facilitate the employment or sub-contracting of local First Nations.</p>	<p>Meeting summary available in Schedule 8 – Summaries (Meetings and Community Open Houses).</p>

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issues(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
				<p>It was suggested that Arctic Borderlands is also very focused on climate change, and HPW may want to consider involving that organization to help with climate change discussions, not just Yukon College.</p> <p>Participants explained that on past projects located in Gwich'in lands, Tsiigehtchic had little to no employment or involvement in projects. While the four Gwich'in communities work together, projects on lands around the individual communities needs to be involved by those individual communities, not people from the other places.</p> <p>Training opportunities in contracts often turn out to be base level positions such as driving trucks, labourers, etc. and not actually providing any real education or opportunities to build up people in the communities. It would be useful for Tsiigehtchic to know well in advance what types of support, services and capacity might be needed when construction is near the community, so they can prepare. If given the heads up, the community may be able to provide fuel for construction in the area, help with camp support or labourers.</p> <p>Tsiigehtchic has often been left out of receiving services because they are on the other side of the Mackenzie River. The community is very excited to be included and connected to this fibre line.</p> <p>Attendees noted they were pleased with the information provided in the Project presentation and appreciated that HPW had</p>		

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issues(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
April 29, 2019	Written Communication Email	From GTC (Eleanor Jerome) To GGC (Julia Ann Andre, Brenda Jerome) and Gwichya Gwich'in Band (Phillip Blake) CC'ed: GTC (Diane Baxter) HPW (Jay Chou)	GTC assisting HPW in having flyers posted in Tsiigehtchic for upcoming Open House (Scheduled for May 1, 2019). Note: May 1, 2019 Open House was postponed until May 7, 2019 due to logistic issues.	come to the community to discuss the Project early on and involving the Gwich'in people. Attendees are looking forward to the team coming back for an open house with the community.		Open House flyer available upon request.
April 30, 2019	Phone Call	HPW (Jay Chou; Darryl Froese) GTC (Eleanor Jerome) TGC (Leslie Blake) GGC (Julie-Anne Andre)	Call to schedule open houses in Tsiigehtchic and Fort McPherson NWT. Tentative schedule (subject to confirmation) is Community Open House in Tsiigehtchic Tuesday May 7, meeting with TGC Wednesday May 8 at 4pm followed by Community Open House in Fort McPherson at 6pm. Note: Due to travel complications meeting with TGC at 4:00pm was cancelled. TGC attended Community Open House at 6:00pm.			
May 7, 2019	Open House (Tsiigehtchic, NWT)	See details in the Communities section.				

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
July 10, 2019	Written Communication Email	From HPW (Darryl Froese) To GGC (Julie-Anne Andre, President) CC'ed: GTC (David MacMartin, Erika Tizya-Tramm, Dwayne Semple) HPW (Jay Chou)	Email with link for draft MVLWB Application for review. HPW requested comments be provided before July 24, 2019.			Note: During consultation and engagement activities, GGC President changed from Grace Blake to Julie-Anne Andre.
July 10, 2019	Written Communication Email (chain of three emails – including the email/record immediately above)	HPW (Darryl Froese) GGC (Julie-Anne Andre, President) CC'ed: GTC (David MacMartin, Erika Tizya-Tramm, Dwayne Semple) HPW (Jay Chou)		GGC having issues opening the file.	HPW sent additional instructions.	
Ehliitat Gwich'in Council (Aklavik) – Designated Gwich'in Organization						
January 31, 2019	Written Communication Email (hard copy letter followed - dated January 28, 2019)	HPW (DM Jaime Pitfield) EGC (Andrew Charlie, President) CC'ed: Bobbie Jo Greenland-Morgan, Grand Chief GTC David L. MacMartin – Director of Intergovernmental Relations, GTC Carolyn Lennie – Chief Operating Officer, GTC Stephen Charlie – Director of Lands and Resources, GTC Leslie Blake – President, TGC Jozef Carnogursky – President, NGC Grace Blake – President, GGC YG (Jennifer Macgillivray, Priyank Thatté, Darryl Froese, Jay Chou, Erin Light) GNWT (Peter Clarkson, Binay Yadav)	HPW informs EGC of proposed project, initiates engagement and requests to schedule an in-person meeting.			Schedule 4 – Letters to Initiate Consultation

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
April 11, 2019	Face-to-Face Meeting (Aklavik, NWT)	HPW (Darryl Froese, Abbie Rotondi; Jay Chou) EGC Also in attendance were representatives of ERRC and Aklavik Indian Band.	The purpose was to introduce the Project to EGC and to discuss concerns and interests to be considered in HPW's Land Use Permit application to MVLWB.	Participants requested clarification on whether this a P3 partnership between Northwestel, HPW and the Government of Canada. It was suggested that it would be useful for HPW to use the Gwich'in business directory. Participants were pleased with the information provided in the Project presentation and appreciated that HPW had come to the community to discuss the Project early on. Although the fibre line will not be connecting to Aklavik, many of the attendees expressed interest in having an open house for other community members to attend and learn about the Project.	HPW responded that this is an HPW-led project only, and that the Project is receiving funding from these three sources through funding agreements. HPW is aware of this directory based on discussions with GTC and is engaged in ongoing discussions to determine and plan procurement and contract opportunities for both the NWT and the Yukon.	Copies of the presentation, maps, and draft Land Use Permit application were provided to inform discussions and next steps. Schedule 5 – HPW Presentation: Dempster Fibre Project. Sign-in Sheet available in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses). Meeting summary available in Schedule 8 – Summaries (Meetings and Community Open Houses).
April 25, 2019	Open House (Aklavik, NWT)	See details in the Communities section.				
July 10, 2019	Written Communication Email	From HPW (Darryl Froese) EGC (Andrew Charlie, President) CC'ed: GTC (David MacMartin, Erika Tizya-Tramm, Dwayne Semple) HPW (Jay Chou)	Email with link for draft MVLWB Application for review. HPW requested comments be provided before July 24, 2019.			
Niitat Gwich'in Council (Inuvik) – Designated Gwich'in Organization						
January 31, 2019	Written Communication Email (hard copy letter followed - dated January 28, 2019)	From HPW (DM Jaime Pitfield) To NGC (Jozef Carnogursky, President) CC'ed:	HPW informs NGC of proposed project, initiates consultation and requests to schedule an in-person meeting.			Schedule 4 – Letters to Initiate Consultation

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
April 10, 2019	Face-to-Face Meeting (Inuvik, NWT)	Bobbie Jo Greenland-Morgan, Grand Chief GTC David L. MacMartin – Director of Intergovernmental Relations, GTC Carolyn Lennie – Chief Operating Officer, GTC Stephen Charlie – Director of Lands and Resources, GTC Leslie Blake – President, TGC Andrew Charlie – President EGC Grace Blake – President, GGC YG (Jennifer Macgillivray, Priyank Thatté, Darryl Froese, Jay Chou, Erin Light) GNWT (Peter Clarkson, Binay Yadav) HPW (Darryl Froese; Priyank Thatté; Abbie Rotondi; Jay Chou) NGC Also in attendance were representatives of NGRRC and GTC.	Purpose was to introduce the Project to NGC and to discuss concerns and interests to be considered in HPW's Land Use Permit application to MVLWB.	NGC inquired why the Land Use Permit application for this project will be submitted to the MVLWB and not the GLWB. For NGC, the Gwich'in are represented through appointments on the GLWB, as per the intent of co-management boards, and not MVLWB. It is important to consider issues raised previously with shallow burial on the MVFL. Attendees also noted that it may be useful to include traditional knowledge in the application. Ogilvie River was brought up as an area where trenching may be difficult. Participants also raised that it might be more useful and easier to bring in different fill to cover the line vs. re-using the same organic matter that was originally dug up. Attendees brought up the importance of working with all the Development Corporations	HPW responded that that transboundary projects under the <i>Mackenzie Valley Resource Management Act</i> requires that applications be reviewed by MVLWB. HPW responded that it has been reviewing available information to determine lessons that can be learned from the MVFL to avoid similar issues on this Project. HPW will gather traditional knowledge while engaging with all the Indigenous groups along the route. For example, information about the spawning seasons on the Mackenzie River was provided in Tsigehtchic and HPW will avoid drilling during those times. HPW will provide this information to the engineers responsible for the design and will review other options for installation if burying the line is not best suited for this area. HPW is hoping to address concerns about community employment by putting out an	Copies of the presentation, maps, and draft Land Use Permit application were provided to inform discussions and next steps. Schedule 5 – HPW Presentation: Dempster Fibre Project. Sign-in Sheet available in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses). Meeting summary available in Schedule 8 – Summaries (Meetings and Community Open Houses).

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
				<p>(i.e., one in each community) and contacting them individually on procurement matters vs. just going through Gwich'in Development Corporation. In the past, the Gwich'in people have heard similar promises and conversations about involving First Nations but with little follow-up or not enough time to prepare and gather their resources. NGC would like to see stronger language than simply "promote First Nation engagement and employment". There is an up to date Gwich'in business list that would be useful for HPW to use in procurement planning. The sooner the Gwich'in people can know how the procurement will be laid out and more details, the better. There needs to be economic opportunities flowing to the Gwich'in people when there is work on or around their lands.</p> <p>The Gwich'in are starting to ask for equity stakes in projects such as this vs. involvement later on. This would mean a type of bi-lateral agreement where some of the money that Canada is lending to these projects would be given to the Gwich'in and then they could contribute/lend back to the Project.</p> <p>NGC suggested that all eight First Nations and Indigenous groups along the route agree on one company they would like to support on the Project and then divide the work from there.</p> <p>NGC is very happy that HPW is in Inuvik to engage with them and to meet with all communities. The plan for open houses next week is welcomed by NGC. The Gwich'in are</p>	<p>RFQ and then an RFP. The latter would be assessed based on a First Nation participation value component. Once contractors submit their plans to HPW to address this value component, and HPW accepts them, it will then be a contractual obligation.</p>	

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
				pleased to see Hemmera working on this project as well.		
April 24, 2019	Open House (Inuvik, NWT)	See details in the Communities section.				
Communities						
April 24, 2019	Open House (Inuvik, NWT)	HPW (Darryl Froese, Jay Chou, Abbie Rotondi) Members of the community. Also in attendance were representatives of GTC. Hemmera (Calista Morrison)	Provide attendees with Project information, answer questions and collect feedback.	How can GTC staff be involved in "Training and Job Opportunities". Need to align training with anticipated jobs, so that training can be completed prior to the job becoming available – e.g., putting on a camp cook or kitchen assistant program/course if those are likely to be jobs. Attendees expressed interest in understanding technical aspects of the Project (e.g., how it works, how to detect breaks in the cable, etc.).	HPW will work with GTC to coordinate training programs/courses with anticipated job opportunities.	Schedule 5 – HPW Presentation: Dempster Fibre Project. Schedule 6 – Community Open House Posters Sign-in Sheet available in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses). Meeting summary available in Schedule 8 – Summaries (Meetings and Community Open Houses).
April 25, 2019	Open House (Aklavik, NWT)	HPW (Darryl Froese, Jay Chou, Abbie Rotondi) Members of the community. Hemmera (Calista Morrison)	Provide attendees with Project information, answer questions and collect feedback.	Recommend that future engagement include sharing with the community environmental monitoring reports that are provided to GTC. Recommended BEAHR Indigenous training programs. Recommended that HPW connect with community Elders with respect to Project activities and animal migration patterns.	HPW will incorporate conditions into contracts to facilitate First Nation employment (i.e., contractors organizing training programs/courses and providing subsequent employment). HPW appreciated information of BEAHR program. HPW will endeavor to meet with community Elders in future engagement activities.	Schedule 5 – HPW Presentation: Dempster Fibre Project. Schedule 6 – Community Open House Posters Sign-in Sheet available in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses). Meeting summary available in Schedule 8 – Summaries

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
April 26, 2019	Open House (Fort McPherson, NWT)	HPW (Darryl Froese, Jay Chou, Abbie Rotondi) Members of the community. Also in attendance were representatives of GTC. Hemmera (Callista Morrison)	Provide attendees with Project Information, answer questions and collect feedback.	HPW was asked if they've reached out to DGOs and RRCs, and if HPW has spoken with or seen a list of people that worked on the MVFL – who had what jobs? How does the Project benefit people in the communities, what is the importance of redundancy to residential users and not businesses?	HPW stated a letter was sent to each of the DGO Presidents and GTC (and GTC was carbon copied). HPW does not have specifics about MVFL employment. But have been reaching out to GNWT for lessons learned. HPW would like to make hiring locally (and after putting on courses/training) a requirement of contracts. Challenging to apply to community life, are people using cards/cash for groceries or other purchases. Debit and credit cards would be affected by fibre service. How poor internet service and cell service impacts the community.	(Meetings and Community Open Houses). Schedule 5 – HPW Presentation: Dempster Fibre Project. Schedule 6 – Community Open House Posters Sign-in Sheet available in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses). Meeting summary available in Schedule 8 – Summaries (Meetings and Community Open Houses).
May 7, 2019	Open House (Tsilgitchic, NWT)	HPW (Darryl Froese, Priyank Thattai) Members of the community. Also in attendance were representatives of GTC and GGRRC.	Purpose was to introduce the Project to the members of the Gwich'ya Gwich'in community in Tsilgitchic NWT and to discuss concerns and interests to be considered HPW's Land Use Permit application to MVLWB.	A member inquired whether this fibre will improve safety conditions on the Dempster Highway since at the moment there is no cell signal in large sections of the highway. Also inquired why Northwestel doesn't upgrade its infrastructure to provide better connectivity. A member inquired if the route and location for the fibre line had been selected. The member also asked if there would be any camps located between Tsilgitchic and Inuvik. A member remarked that their land claim agreement states that, even in Yukon, First Nations get trained for jobs that are passing through their land.	HPW expressed inability to answer these questions on behalf of Northwestel since it is not the telecom operator. HPW stated that the routing and engineering work is underway and is expected to take a few months to complete. HPW responded that it was too early in the process to know where camps would specifically be located, and this level of logistical planning would be done by the construction contractor. HPW provided an overview of training opportunities, including some programs organized by the GTC.	Copies of the presentation, maps, and draft Land Use Permit application were provided to inform discussions and next steps. Schedule 5 – HPW Presentation: Dempster Fibre Project. Schedule 6 – Community Open House Posters Sign-in Sheet available in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses). Meeting summary available in Schedule 8 – Summaries

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
				<p>Attendees inquired about the construction schedule and expressed curiosity in knowing the construction distance per day to estimate the duration of job opportunities around Tsiigehtchic.</p> <p>A member asked about construction across the river and whether construction would occur in January.</p> <p>A member asked whether cables would float in swamp areas.</p> <p>Participants asked HPW to communicate in advance (sufficiently) on the types of services that the community can provide, such as labourers, environmental monitors, water, and sewage management. A member commented that the land between Tsiigehtchic and Inuvik belonged to the Gwichya Gwich'in and they do not like to see outsiders coming in when community members do not have jobs.</p> <p>A member commented that 95% of the community was trained in First Aid and that the DGO organizes courses for wildlife and environmental monitors. A member commented that it would be a good idea to have a safety officer on standby during construction.</p>	<p>HPW responded using presentation materials that laid out the schedule for the Project. HPW responded that the rate of construction per day was highly variable and would be determined once the contractor prepares a schedule.</p> <p>HPW provided information on horizontal directional drilling using presentation materials. HPW also explained that environmental data was being collected to account for fish spawning cycles and construction would be scheduled accordingly.</p> <p>HPW described the environmental data collection and engineering process to determine construction methods, and floating might be one of the viable options.</p> <p>HPW responded that there are detailed regulations and requirements when it comes to safety that contractors are required to follow.</p>	(Meetings and Community Open Houses).
May 8, 2019	Open House (Fort McPherson, NWT)	HPW (Darryl Froese, Priyank Thatte) Members of the community. Also in attendance were representatives of TGC and TGRRC.	Purpose was to introduce the Project to the members of the Tsiigehtchic community in Fort McPherson and to discuss concerns/interests to be considered in HPW's	<p>HPW was asked about connectivity to homes and Northwestel's role.</p> <p>A member asked whether the line was crossing private lands and, if so, what benefits will be provided.</p>	<p>HPW responded that the scope of this Project is to build a backup line and for services to home the inquiry should likely be sent to the telecom operator, Northwestel.</p> <p>HPW clarified that the line is not crossing private lands.</p>	Copies of the presentation, maps, and draft Land Use Permit application were provided to inform discussions and next steps.

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
			Land Use Permit application to MVLWB.	<p>Attendees inquired about feedback from other communities.</p> <p>A member suggested conducting a brief broadcast on the local radio and suggested language translation for the benefit of elderly members in the community.</p> <p>Attendees requested additional information/clarification on technical details of the cable/Project.</p> <p>Attendees inquired about the potential impact of the line to the watershed, both in terms of installation and future businesses that may open up.</p> <p>Attendees expressed that their preference would be to install the line on the right (east) side of the highway when travelling north. The rationale for this wasn't clarified.</p> <p>Attendees inquired about the benefits of the Project and asked questions about a variety of elements of the procurement process, such as the tendering system in Yukon, timeline, and assistance to contractors for responding to the RFQ. About 38% of the line would be in NWT, and therefore expect the opportunities to be shared with both territories. A member inquired whether splitting the contract into two parts was considered. Attendees expressed interest in seeing the procurement plan.</p>	<p>HPW responded that the feedback was very positive. HPW also shared few questions and answers from previous community events.</p> <p>All technical questions were answered by HPW presenters.</p> <p>HPW clarified that the line is expected to primarily reside in the highway ROW which is already disturbed. The highway is already considered in the Peel watershed land use plan. Regarding businesses, HPW stated that any new business will have to go through the usual application process.</p> <p>HPW responded using presentation materials and described the procurement and tendering process. HPW responded that splitting the contract was indeed considered, but the risks of interface issues, and potential legal complications that may arise in a failure situation where more than one party was responsible for the line.</p>	<p>Schedule 5 – HPW Presentation: Dempster Fibre Project.</p> <p>Schedule 6 – Community Open House Posters</p> <p>Sign-in Sheet available in Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses).</p> <p>Meeting summary available in Schedule 8 – Summaries (Meetings and Community Open Houses).</p>
July 4, 2019	Written Communication Email	From HPW (Jay Chou) To Larry Dalley – Senior Administrative Officer, Charter Community of Tsiigehtchic	Email to Tsiigehtchic to discuss municipal requirements and applications in order to			

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issues(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
			connect fibre line to Tsiigehtchic.			
July 15, 2019	Written Communication Email	From Larry Dalley – Senior Administrative Officer, Charter Community of Tsiigehtchic To HPW (Jay Chou)	Larry asked Jay to call to discuss next steps.			
July 31, 2019	Phone Call	HPW (Jay Chou) Larry Dalley – Senior Administrative Officer, Charter Community of Tsiigehtchic	Phone call to follow-up on email to discuss municipal requirements for connecting fibre line to Tsiigehtchic.			Note during engagement activities Senior Administrative Officer changed from Larry Dalley to Grant Scott.
Notification to Bands						
March 26, 2019	Written Communication Email (hard copy letter followed – dated March 26, 2019)	From HPW (DM Jaime Pitfield) To Aklavik Indian Band (Chief Eddie Greenland) CC'ed: Andrew Charlie – President, EGC David L. MacMartin – Director, Intergovernmental Relations, GTC Carolyn Lennie – Chief Operation Officer, GTC Stephen Charlie – Director of Lands and Resources, GTC YG (Jennifer Macgillivray, Priyank Thatté, Darryl Froese, Jay Chou, Erin Light) GNWT (Peter Clarkson, Binay Yadav)	Inform Aklavik Indian Band of the Project and request that they contact HPW if there are any concerns.			
March 26, 2019	Written Communication Email (hard copy letter followed – dated March 26, 2019)	From HPW (DM Jaime Pitfield) To Inuvik Native Band (Edward Wright, Manager) CC'ed: Jozef Carnogursky – President, NGC	Inform Inuvik Native Band of the Project and request that they contact HPW if there are any concerns.			

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issues(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
		David L. MacMartin – Director, Intergovernmental Relations, GTC Carolyn Lennie – Chief Operation Officer, GTC Stephen Charlie – Director of Lands and Resources, GTC YG (Jennifer Macgillivray, Priyank Thatté, Darryl Froese, Jay Chou, Erin Light) GNWT (Peter Clarkson, Binay Yadav)				
March 26, 2019	Written Communication Email (hard copy letter followed – dated March 26, 2019)	From HPW (DM Jaime Pitfield) To Gwichya Gwich'in Band (Chief Philip Blake) CC'ed: Grace Blake– President, GGC David L. MacMartin – Director, Intergovernmental Relations, GTC Carolyn Lennie – Chief Operation Officer, GTC Stephen Charlie – Director of Lands and Resources, GTC YG (Jennifer Macgillivray, Priyank Thatté, Darryl Froese, Jay Chou, Erin Light) GNWT (Peter Clarkson, Binay Yadav)	Inform Gwichya Gwich'in Band of the Project and request that they contact HPW if there are any concerns.			
March 26, 2019	Written Communication Email (hard copy letter followed – dated March 26, 2019)	From HPW (DM Jaime Pitfield) To Teet'it Gwich'in Band Council (Chief Wanda Pascal) CC'ed: Leslie Blake – President, TGC David L. MacMartin – Director, Intergovernmental Relations, GTC Carolyn Lennie – Chief Operation Officer, GTC	Inform Teet'it Gwich'in Band Council of the Project and request that they contact HPW if there are any concerns.			

Dates	Engagement Activity (e.g. written communication, face-to-face, open house, etc.)	Attendees OR Addressees (From/To/CC'ed)	Purpose of Activity	Issue(s) Raised and Recommendation(s) by Affected Party	Proponent Response to Issue: Indicate if issue(s) was resolved	Additional Information (e.g., materials provided to affected party, meeting notes, etc.)
		Stephen Charlie – Director of Lands and Resources, GTC YG (Jennifer Macgillivray, Priyank Thatté, Darryl Froese, Jay Chou, Erin Light) GNWT (Peter Clarkson, Binay Yadav)				
Notification to Additional Stakeholders						
March 26, 2019	Written Communication Email (hard copy letter followed – dated March 26, 2019)	From HPW (DM Jaime Pitfield) To Inuvialuit Regional Corporation (Charles Klengenber, Director of Lands) CC'ed: Glenna Noksana – Land Use Application Coordinator, IRC David L. MacMartin – Director, Intergovernmental Relations, GTC Carolyn Lennie – Chief Operation Officer, GTC Stephen Charlie – Director of Lands and Resources, GTC YG (Jennifer Macgillivray, Priyank Thatté, Darryl Froese, Jay Chou, Erin Light) GNWT (Peter Clarkson, Binay Yadav)	Inform Inuvialuit Regional Corporation of the Project and request that they contact HPW if there are any concerns.	The Inuvialuit Regional Corporation advised HPW that if the Project ends in Inuvik and does not continue further north, engagement with Inuvialuit Regional Corporation is not required. A permit from Inuvialuit Regional Corporation is also not required.		
April 10, 2019	Face-to-Face Meeting (Inuvik, NWT)	HPW (Priyank Thatté) Town of Inuvik (Mayor Natasha Kulikowski, Grant Hood)	Provided attendees with Project information, answered questions and collected feedback.	Mayor provided information on two organizations that operate satellite stations in Inuvik. There are plans to significantly increase satellite station capacity in the next five years and fibre redundancy is a key factor for success for Inuvik. Mayor also welcomed the opportunity for future briefings when there is more progress on the Project.		Summary of this meeting provided by Priyank Thatté to Jay Chou in an email sent May 28, 2019.

Schedule 4 – Letters to Initiate Consultation and Engagement

Gwich'in Tribal Council



Highways and Public Works
Property Management Division
PO Box 2703, Whitehorse, Yukon Y1A 2C6



January 28, 2019

Attn: Grand Chief Bobbie Jo Greenland-Morgan

Gwich'in Tribal Council
1-3 Council Crescent
Box 1509
Inuvik, NWT X0E 0T0

Dear Grand Chief Greenland-Morgan,

Re: Initiation of Consultation on Dempster Fibre Optic Line Project

On behalf of the Department of Highways and Public Works, I am writing to initiate consultation with Gwich'in Tribal Council on the Dempster Fibre Optic Line Project (the Project). The Project is a 777 km fibre optic line that starts in Dawson City and ends in Inuvik, Northwest Territories following the right-of-way along the Dempster Highway. Once in Inuvik, the Project will connect with the existing Mackenzie Valley Fibre Link. Together, the fibre optic lines will complete the Canada North Fibre Loop with the goal of providing stable Internet to Northerners, and helping to ensure northern businesses' participation in the digital economy without interruption.

The proposed project would be located on Crown Land within the Secondary Use Area in the Yukon and the Gwich'in Settlement Region in the NWT. This letter is to inform you about the proposed project and to initiate consultation with the Gwich'in Tribal Council about any potential effects on the Gwich'in that could arise as a result of this project.

In particular, we would like to discuss Tettit Gwich'in treaty rights, as well as Gwich'in interests, and values in the project area, if there may be adverse effects from the proposed project, and if you believe those impacts could or could not be mitigated or otherwise addressed. Specific information on measures you believe could be taken to address any potential adverse effects would assist in our understanding and consideration of this matter.

We are currently in the planning phase of the Project. This Project will require environmental assessment and review by the Mackenzie Valley Land and Water Board for the Northwest Territories portion of the route and by the Yukon Environmental and Socio-economic Assessment Board for the Yukon portion.

At your earliest convenience, Jay Chou, Highways and Public Works' Consultation Advisor, would like to schedule a meeting to discuss the project in more detail. The Dempster Fibre team are available to travel to Inuvik and I have asked Jay Chou to follow-up with you to arrange a time to further discuss this project.

Thank you for your attention to this matter. If you have any questions about this letter or the proposed project, please contact us at (867) 667-8721 or jay.chou@gov.yk.ca. We look forward to receiving any comments you may have.

Sincerely,



Jaime W. Pitfield
Deputy Minister, Highways and Public Works

Cc: Meeka Blake, Administrative Services Officer, Gwich'in Tribal Council
Stephen Charlie – Director of Lands and Resources, Gwich'in Tribal Council
David L. MacMartin – Director of Intergovernmental Relations, Gwich'in Tribal Council
Leslie Blake – President, Tetlit Gwich'in Council
Jozef Carnogursky – President, Nihtat Gwich'in Council
Andrew Charlie – President, Ehditit Gwich'in Council
Grace Blake – Gwich'ya Gwich'in Council
Priyank Thatté – Director, Highways and Public Works
Darryl Froese – Project Manager, Highways and Public Works
Jay Chou – Consultation Advisor, Highways and Public Works
Erin Light – Senior Consultation Advisor, Aboriginal Relations
Peter Clarkson, Director of Executive and Indigenous Affairs, Government of Northwest Territories
Binay Yadav, Director of Infrastructure, Government of Northwest Territories
Jennifer Macgillivray – Assistant Deputy Minister, Highways and Public Works



Highways and Public Works
Property Management Division
PO Box 2703, Whitehorse, Yukon Y1A 2C6



January 28, 2019

Attn: Leslie Blake, President

Tetlit Gwich'in Council
PO Box 30
Fort McPherson, NWT X0E 0J0

Dear President Leslie Blake,

Re: Initiation of Consultation on Dempster Fibre Optic Line Project

On behalf of the Department of Highways and Public Works, I am writing to initiate consultation with Tetlit Gwich'in Council on the Dempster Fibre Optic Line Project (the Project). The Project is a 777 km fibre optic line that starts in Dawson City and ends in Inuvik, Northwest Territories following the right-of-way along the Dempster Highway. Once in Inuvik, the Project will connect with the existing Mackenzie Valley Fibre Link. Together, the fibre optic lines will complete the Canada North Fibre Loop with the goal of providing stable Internet to Northerners, and helping to ensure northern businesses' participation in the digital economy without interruption.

The proposed project would be located on Crown Land within the Secondary Use Area in the Yukon and the Gwich'in Settlement Region in the NWT. This letter is to inform you about the proposed project and to initiate consultation with the Tetlit Gwich'in Council about any potential effects on the Tetlit Gwich'in that could arise as a result of this project.

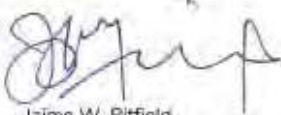
In particular, we would like to discuss Tetlit Gwich'in treaty rights, as well as Tetlit Gwich'in interests, and values in the project area, if there may be adverse effects from the proposed project, and if you believe those impacts could or could not be mitigated or otherwise addressed. Specific information on measures you believe could be taken to address any potential adverse effects would assist in our understanding and consideration of this matter.

We are currently in the planning phase of the Project. This Project will require environmental assessment and review by the Mackenzie Valley Land and Water Board for the Northwest Territories portion of the route, and by the Yukon Environmental and Socio-economic Assessment Board for the Yukon portion.

At your earliest convenience, Jay Chou, Highways and Public Works' Consultation Advisor, would like to schedule a meeting to discuss the project in more detail. The Dempster Fibre team are available to travel to Fort McPherson and I have asked Jay Chou to follow-up with you to arrange a time to further discuss this project.

Thank you for your attention to this matter. If you have any questions about this letter or the proposed project, please contact us at (867) 667-8721 or jay.chou@gov.yk.ca. We look forward to receiving any comments you may have.

Sincerely,



Jaime W. Pitfield
Deputy Minister, Highways and Public Works

Cc: Bobbie Jo Greenland-Morgan – Grand Chief Gwich'in Tribal Council
David L. MacMartin – Director, Intergovernmental Relations, Gwich'in Tribal Council
Carolyn Lennie – Chief Operating Officer, Gwich'in Tribal Council
Stephen Charlie – Director of Lands and Resources, Gwich'in Tribal Council
Jozef Camogursky – President, Nihitat Gwich'in Council
Andrew Charlie – President Ehdilitat Gwich'in Council
Grace Blake – President, Gwichya Gwich'in Council
Priyank Thatté – Director, Highways and Public Works
Darryl Froese – Project Manager, Highways and Public Works
Jay Chou – Consultation Advisor, Highways and Public Works
Erin Light – Senior Consultation Advisor, Aboriginal Relations
Peter Clarkson, Director of Executive and Indigenous Affairs, Government of Northwest Territories
Binay Yadav, Director of Infrastructure, Government of Northwest Territories
Jennifer Macgillivray – Assistant Deputy Minister, Highways and Public Works



January 28, 2019

Attn: President Grace Blake

Gwichya Gwich'in Council
PO Box 28
Tsiigehtchic, NWT X0E 0B0

Dear President Grace Blake,

Re: Initiation of Engagement on Dempster Fibre Optic Line Project

On behalf of the Department of Highways and Public Works, I am writing to initiate engagement with Gwichya Gwich'in Council on the Dempster Fibre Optic Line Project (the Project). The Project is a 777 km fibre optic line that starts in Dawson City and ends in Inuvik, Northwest Territories following the right-of-way along the Dempster Highway. Once in Inuvik, the Project will connect with the existing Mackenzie Valley Fibre Link. Together, the fibre optic lines will complete the Canada North Fibre Loop with the goal of providing stable internet to Northerners, and helping to ensure northern businesses' participation in the digital economy without interruption.

The proposed project would be located on Crown Land within the Gwichya Gwich'in Settlement Region in the NWT. This letter is to inform you about the proposed project and to initiate consultation with the Gwichya Gwich'in Council about any potential effects on the Gwichya Gwich'in that could arise as a result of this project.

In particular, we would like to discuss the Gwichya Gwich'in rights, interests, and values in the project area, if there may be adverse effects from the proposed project, and if you believe those impacts could or could not be mitigated or otherwise addressed. Specific information on measures you believe could be taken to address any potential adverse effects would assist in our understanding and consideration of this matter.

We are currently in the planning phase of the Project. This Project will require environmental assessment and review by the Mackenzie Valley Land and Water Board for the Northwest Territories portion of the route, and by the Yukon Environmental and Socio-economic Assessment Board for the Yukon portion.

At your earliest convenience, Jay Chou, Highways and Public Works' Consultation Advisor, would like to schedule a meeting to discuss the project in more detail. The Dempster Fibre team are available to travel to Tsiigehtchic and I have asked Jay Chou to follow-up with you to arrange a time to further discuss this project.

Thank you for your attention to this matter. If you have any questions about this letter or the proposed project, please contact us at (867) 667-8721 or jay.chou@gov.yk.ca. We look forward to receiving any comments you may have.

Sincerely,



Jaime W. Pitfield
Deputy Minister, Highways and Public Works

Cc Bobbie Jo Greenland-Morgan – Grand Chief Gwich'in Tribal Council
 David L. MacMartin – Director, Intergovernmental Relations, Gwich'in Tribal Council
 Carolyn Lennie – Chief Operating Officer, Gwich'in Tribal Council
 Stephen Charlie – Director of Lands and Resources, Gwich'in Tribal Council
 Leslie Blake – President, Tetlit Gwich'in Council
 Jozef Carnogursky – President, Nihtat Gwich'in Council
 Andrew Charlie – President, Ehditit Gwich'in Council
 Priyank Thatté – Director, Highways and Public Works
 Darryl Froese – Project Manager, Highways and Public Works
 Jay Chou – Consultation Advisor, Highways and Public Works
 Erin Light – Senior Consultation Advisor, Aboriginal Relations
 Peter Clarkson, Director of Executive and Indigenous Affairs, Government of Northwest Territories
 Binay Yadav, Director of Infrastructure, Government of Northwest Territories
 Jennifer Macgillivray – Assistant Deputy Minister, Highways and Public Works



January 28, 2019

Attn: President Andrew Charlie

Ehdiitat Gwich'in Council
PO Box 118
Aklavik, NWT X0E 0A0

Dear President Andrew Charlie,

Re: Initiation of Engagement on Dempster Fibre Optic Line Project

On behalf of the Department of Highways and Public Works, I am writing to initiate engagement with Ehdiitat Gwich'in Council on the Dempster Fibre Optic Line Project (the Project). The Project is a 777 km fibre optic line that starts in Dawson City and ends in Inuvik, Northwest Territories following the right-of-way along the Dempster Highway. Once in Inuvik, the Project will connect with the existing Mackenzie Valley Fibre Link. Together, the fibre optic lines will complete the Canada North Fibre Loop with the goal of providing stable internet to Northerners, and helping to ensure northern businesses' participation in the digital economy without interruption.

The proposed project would be located on Crown Land within the Gwich'in Settlement Region in the NWT. This letter is to inform you about the proposed project and to initiate consultation with the Ehdiitat Gwich'in Council about any potential effects on the Ehdiitat Gwich'in that could arise as a result of this project.

In particular, we would like to discuss the Ehdiitat Gwich'in rights, interests, and values in the project area, if there may be adverse effects from the proposed project, and if you believe those impacts could or could not be mitigated or otherwise addressed. Specific information on measures you believe could be taken to address any potential adverse effects would assist in our understanding and consideration of this matter.

We are currently in the planning phase of the Project. This Project will require environmental assessment and review by the Mackenzie Valley Land and Water Board for the Northwest Territories portion of the route, and by the Yukon Environmental and Socio-economic Assessment Board for the Yukon portion.

At your earliest convenience, Jay Chou, Highways and Public Works' Consultation Advisor, would like to schedule a meeting to discuss the project in more detail. The Dempster Fibre team are available to travel to Aklavik and I have asked Jay Chou to follow-up with you to arrange a time to further discuss this project.

Thank you for your attention to this matter. If you have any questions about this letter or the proposed project, please contact us at (867) 667-8721 or jay.chou@gov.yk.ca. We look forward to receiving any comments you may have.

Sincerely,



Jaime W. Pitfield
Deputy Minister, Highways and Public Works

Cc Bobbie Jo Greenland-Morgan – Grand Chief Gwich'in Tribal Council
 David L. MacMartin – Director, Intergovernmental Relations, Gwich'in Tribal Council
 Carolyn Lennie – Chief Operating Officer, Gwich'in Tribal Council
 Stephen Charlie – Director of Lands and Resources, Gwich'in Tribal Council
 Leslie Blake – President, Tetlit Gwich'in Council
 Jozef Carnogursky – President, Nihtat Gwich'in Council
 Grace Blake – President, Gwichya Gwich'in Council
 Priyank Thatté – Director, Highways and Public Works
 Darryl Froese – Project Manager, Highways and Public Works
 Jay Chou – Consultation Advisor, Highways and Public Works
 Erin Light – Senior Consultation Advisor, Aboriginal Relations
 Peter Clarkson, Director of Executive and Indigenous Affairs, Government of Northwest Territories
 Binay Yadav, Director of Infrastructure, Government of Northwest Territories
 Jennifer Macgillivray – Assistant Deputy Minister, Highways and Public Works



January 28, 2019

Attn: President Jozef Carnogursky

Nihtat Gwich'in Council
PO Box 2570
Inuvik, NWT X0E 0T0

Dear President Jozef Carnogursky,

Re: Initiation of Engagement on Dempster Fibre Optic Line Project

On behalf of the Department of Highways and Public Works, I am writing to initiate engagement with Nihtat Gwich'in Council on the Dempster Fibre Optic Line Project (the Project). The Project is a 777 km fibre optic line that starts in Dawson City and ends in Inuvik, Northwest Territories following the right-of-way along the Dempster Highway. Once in Inuvik, the Project will connect with the existing Mackenzie Valley Fibre Link. Together, the fibre optic lines will complete the Canada North Fibre Loop with the goal of providing stable internet to Northerners, and helping to ensure northern businesses' participation in the digital economy without interruption.

The proposed project would be located on Crown Land within the Gwich'in Settlement Region in the NWT. This letter is to inform you about the proposed project and to initiate consultation with the Nihtat Gwich'in Council about any potential effects on the Nihtat Gwich'in could arise as a result of this project.

In particular, we would like to discuss the Nihtat Gwich'in rights, interests, and values in the project area, if there may be adverse effects from the proposed project, and if you believe those impacts could or could not be mitigated or otherwise addressed. Specific information on measures you believe could be taken to address any potential adverse effects would assist in our understanding and consideration of this matter.

We are currently in the planning phase of the Project. This Project will require environmental assessment and review by the Mackenzie Valley Land and Water Board for the Northwest Territories portion of the route, and by the Yukon Environmental and Socio-economic Assessment Board for the Yukon portion.

At your earliest convenience, Jay Chou, Highways and Public Works' Consultation Advisor, would like to schedule a meeting to discuss the project in more detail. The Dempster Fibre team are available to travel to Inuvik and I have asked Jay Chou to follow-up with you to arrange a time to further discuss this project.

Thank you for your attention to this matter. If you have any questions about this letter or the proposed project, please contact us at (867) 667-8721 or jay.chou@gov.yk.ca. We look forward to receiving any comments you may have.

Sincerely,



Jaime W. Pitfield
Deputy Minister, Highways and Public Works

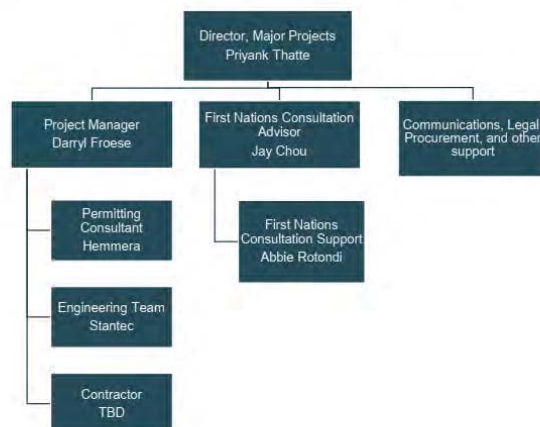
Cc Bobbie Jo Greenland-Morgan – Grand Chief Gwich'in Tribal Council
David L. MacMartin – Director, Intergovernmental Relations, Gwich'in Tribal Council
Carolyn Lennie – Chief Operating Officer, Gwich'in Tribal Council
Stephen Charlie – Director of Lands and Resources, Gwich'in Tribal Council
Leslie Blake – President, Tetlit Gwich'in Council
Andrew Charlie – President, Ehdliit Gwich'in Council
Grace Blake – President Gwichya Gwich'in Council
Priyank Thatté – Director, Highways and Public Works
Darryl Froese – Project Manager, Highways and Public Works
Jay Chou – Consultation Advisor, Highways and Public Works
Erin Light – Senior Consultation Advisor, Aboriginal Relations
Peter Clarkson, Director of Executive and Indigenous Affairs, Government of Northwest Territories
Binay Yadav, Director of Infrastructure, Government of Northwest Territories
Jennifer Macgillivray – Assistant Deputy Minister, Highways and Public Works

Dempster Fibre Project



Yukon

Dempster Fibre Project Team



Outline

1. Introduction
2. Project Overview
3. Consultation Overview
4. Project Details
5. Gwich'in Settlement Region
6. Employment and Business Opportunities
7. Next Steps
8. Discussion

Project Overview



Richardson Mountains – Photo by Pierre Racine

- ~800km Fibre Optic line between Dawson City, YT and Inuvik, NWT
 - ~500km in Yukon
 - ~300km in Northwest Territories (NWT)
- Fibre line will be owned by Government of Yukon
- Strategic Project being funded by three parties – Canada, NorthwesTel and Government of Yukon
- NorthwesTel will lease the line from Government of Yukon
- Government of Northwest Territories is providing their experience from the MVFL and support for the Strategic Project



Indigenous Groups and First Nations



- Gwich'in Tribal Council – Secondary Use Area
- Tetlit Gwich'in Council – Secondary Use Area
- Nihtat Gwich'in Council – Gwich'in Settlement Area
- Gwich'ya Gwich'in Council – Gwich'in Settlement Area
- Ehdit'at Gwich'in Council – Gwich'in Settlement Area
- First Nation of Na-Cho Nyäk Dun
- Tr'ondëk Hwëch'in
- Vuntut Gwitchin First Nation



Project History

- Previous work by NorthwesTel
- Economic Development dealt with the feasibility and project scoping. Highways and Public Works is dealing with the implementation.
- Project was turned over to Highways and Public Works in the fall of 2018 to begin work on the implementation



Organization Chart

- Highways and Public Works
 - Procurement Support Centre
 - Transportation
 - Supply Services
 - Information, Communications and Technology
 - Corporate Services
 - Property Management

With support from Justice, Economic Development and other YG Departments



Project Timeline

Milestone	Target Date
Project Updates and Notifications	Ongoing
Permitting Consultant hired	December 2018
Consultation	Ongoing
Design and Engineering Team Hired	March 2019
Designated Office Evaluation (YESAB) Land Use Application (MVLWB)	Spring 2019
Permitting Complete	Late 2019
<i>The dates below are dependent on the regulatory process and will be confirmed once permits have been approved.</i>	
Construction Tender	Late 2019
Construction Complete	Late 2021

Canada North Fibre Loop

Fibre cuts hurt our local economy, impair government services and inconvenience customers that increasingly rely on cellular and Internet services. The Canada North Fibre Loop will ensure 2 possible routes for data traffic, and protect telecommunications in over 65 northern communities. Even remote communities, served through Northwestel's Whitehorse satellite facilities, will see their services strengthened.



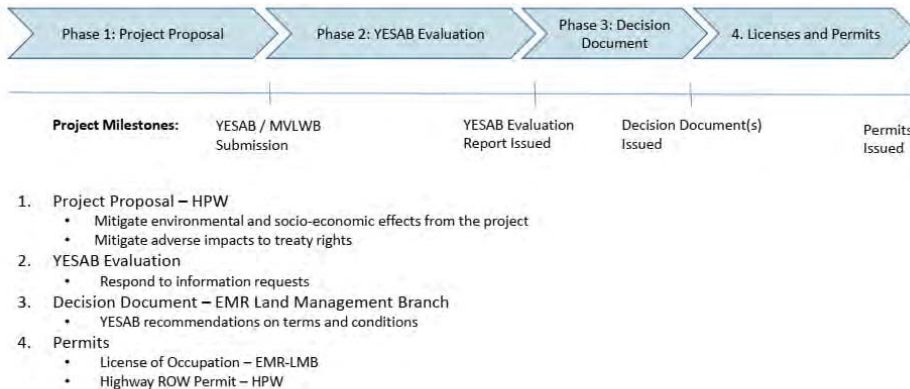
8

- Professional Services
- Communications Dependability
- Global Market Access
- Sales
- Reliability
- Business Opportunity
- Economic Sustainability

Government of Yukon

2

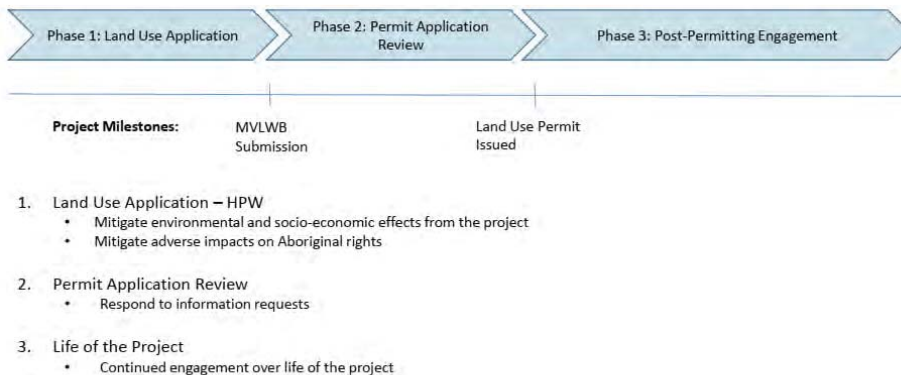
Project Consultation in Yukon



Government of Yukon

10

Project Engagement in NWT



Government of Yukon

11

Proposed Project Route



Government of Yukon

12

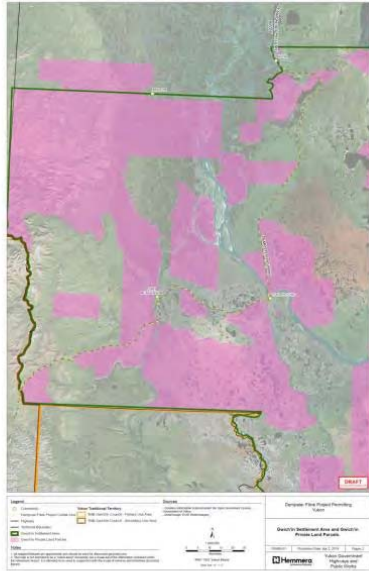
Proposed Project in Yukon

- Secondary Use Area
- Starts at Dempster Highway KM 266
- Ends at Dempster Highway KM 464



Government of Yukon

13



Proposed Project in Northwest Territories

- Gwich'in Settlement Area
- Starts at Dempster Highway KM 466
- Ends at Dempster Highway KM 734 (Inuvik)

Government of Yukon

14

Potential Construction Methods

- Standard Trenching
- Shallow Burial
- Surface Laid Conduit
- Other

Government of Yukon

15



Bridge Crossings

Bridge	Location	Indigenous Groups
Klondike River (Klondike Highway)	Klondike (YT)	-Tr'ondëk Hwëch'in
Klondike River (Dempster Highway)	0.2km (YT)	-Tr'ondëk Hwëch'in
Blackstone River	114.5km (YT)	-Tr'ondëk Hwëch'in -Nacho Nyäk Dun
Engineer Creek	194.3km (YT)	-Tr'ondëk Hwëch'in -Nacho Nyäk Dun
Ogilvie River	194.6km (YT)	-Tr'ondëk Hwëch'in -Nacho Nyäk Dun
Eagle River	377.9km (YT)	-Secondary Use Area -Vuntut Gwitchin -Nacho Nyak Dun
Caribou Creek	686km (NWT)	-Gwich'in Settlement Area
Campbell Creek	712.5km (NWT)	-Gwich'in Settlement Area

Government of Yukon

10



Potential Construction for Bridge Crossings

- Fastening to the Bridge
- Aerial Installation
- Other

Government of Yukon

17

Ferry Crossings



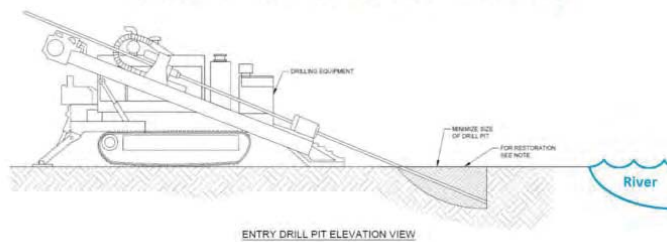
Government of Yukon

- Mackenzie River is 1km across at the Ferry Crossing
- Yukon River in Riverdale is 85m

18

Potential Construction for Ferry Crossings

Horizontal Directional Drilling



Government of Yukon

19



Anticipated Permit List

Permit	Regulatory Body
Tr'ondëk Hwëch'in Land Use Permit	Tr'ondëk Hwëch'in
Land Use Permit	Energy Mines and Resources – Government of Yukon
Land Use Permit	Mackenzie Valley Land and Water Board (MVLWB)
Water License	Yukon Water Board
Water License	MVLWB
Dempster Highway Development Permit	Environment Yukon
Development Permits	Various Communities
Work in highway rights-of-way permit	Government of Yukon
Highway Access permit	Government of Northwest Territories

Government of Yukon

20



Hemmera's Role – Permitting Consultant

- Assist YG with acquiring assessment and approvals for Dempster Fibre Project
- Permits include: municipal, territorial (YT and NWT), First Nation(s), and federal
- Two main applications: YESAB and MVLWB
- YESAB Project Proposal and MVLWB Applications will contain:
 - Project Description
 - Valued Components (VCs)
 - Existing Conditions
 - Potential Effects
 - Mitigation Measures

Government of Yukon

21



Potential Interactions

Environmental

- a) Permafrost
- b) Fish and Fish Habitat
- c) Wildlife and Wildlife Habitat
- d) Vegetation and Wetlands
- e) Hydrology

Socio-economic

- a) Heritage Resources
- b) Land Use and Recreation
- c) Aesthetics
- d) Tourism
- e) Transportation



Business and Employment Opportunities

- Brushing work
- Survey work
- Geotechnical work
- Wildlife monitoring
- Horizontal Directional Drilling
- Construction
- Support services



Procurement Goals

- Promote employment and business opportunities for the private sectors and First Nations
- Utilize public funds in a prudent and efficient manner



Proposed Procurement Plan

- On-going engagement with First Nations
- Request for Qualifications (RFQ)
- Request for Proposals (RFP)



Next Steps

- Project views: concerns, issues and questions.
 - Value components for YESAB Evaluation and MVLWB Application
 - Information gaps and sharing
- Project Updates
- Tour of Dempster Highway



Questions and Comments

Jay Chou:
867-334-6324
Jay.Chou@gov.yk.ca


Darryl Froese:
867-667-3089
Darryl.Froese@gov.yk.ca

Schedule 6 – Community Open House Posters

Poster 1 Introduction

Dempster Fibre Project



Introduction



About The Project

The Dempster Fibre Project is an 800-km fibre optic line that follows the Dempster Highway from Dawson City, Yukon to Inuvik, Northwest Territories.

Once in Inuvik, the fibre line will connect to the existing Mackenzie Valley Fibre Link. Together, the new line will complete a 4,000-km network. That network will provide communities along the loop with a backup line in the event of a service disruption and provide more reliable internet and cell phone service.



Distance = 800 kilometres
More than 70 communities will benefit across the North

Existing Northwest Fibre
Mackenzie Valley Fibre
Proposed Dempster Fibre
Whitehorse Transfer Station
Earth Stations
Satellite

Quick Facts

- Funded by the Government of Canada, Government of Yukon, and NorthwesTel.
- The project is located in the Northwest Territories and the Yukon.
- In the Northwest Territories, the project is located within the Gwich'in Settlement Area. The Gwich'in Settlement Area is used by Nihit Gwich'in Council, Gwichya Gwich'in Council, Tetlit Gwich'in Council, and Ehdit Gwich'in Council.
- In the Yukon, the project is located in the Secondary Use Area of the Gwich'in Tribal Council and Tetlit Gwich'in Council. The project is also located in the Traditional Territories of First Nation Na'cho Nyäk Dun, Tr'ondëk Hwëch'in, and Vuntut Gwitchin First Nation.
- The fibre line will largely be in the Dempster Highway Right-of-Way.
- The fibre line will be owned by Government of the Yukon. It will then be leased by NorthwesTel.
- Planning work is underway. Construction will begin once consultation and regulatory processes are completed.

Dempster Fibre Project Permitting Process and Benefits



Where are we?

We are currently in the planning phase of the project. The project will require environmental assessment and review by the Mackenzie Valley Land and Water (MVLWB) Board in the Northwest Territories and the Yukon Environmental and Socio-economic Assessment Board (YESAB) in the Yukon portion. The Dawson City Designated Office will evaluate the YESAB application.



Project Timeline

Milestone	Target Date
Permitting Consultant Hired	✓
Consultation	Ongoing
Design and Engineering Team Hired	✓
Designated Office Evaluation to YESAB Land Use Application to MVLWB	Spring / Summer 2019
Permitting Complete	Late 2019
Construction Tender	Late 2019
Construction Complete	Late 2021



East Blackstone River Crossing: Looking downstream



East Blackstone River Crossing: looking upstream over the culvert inlet

Why Build the Dempster Fibre Line?

- Northern communities currently depend on a single fibre optic line. When that line goes down, the region is largely cut off from the digital world. The Dempster Fibre Project will build service redundancy by providing two fibre paths that connect the North to the rest of Canada.
- There will be local employment and local business opportunities in communities located along the route. The Yukon Government is interested in working with First Nations, Indigenous groups, and communities to make the most of these opportunities.
- The Dempster Fibre Project will improve internet and cell phone service to Eagle Plains, Fort McPherson, and Tsiigehtchic.
- Communities like Old Crow that are served by satellite facilities are still routed through the fibre network and are also affected when the current line goes down. They will see improved internet reliability and cell phone service as a result of a continuous network.



East Blackstone River Crossing: Looking upstream to a small pond located in a former borrow area

Dempster Fibre Project

Construction and Operation of the Dempster Fibre Project



Construction

Includes several activities:

- Selecting areas where equipment and materials will be received, stored, and/or assembled
- Setting up temporary camps for work crews
- Clearing vegetation
- Installing conduits and fibre optic cable

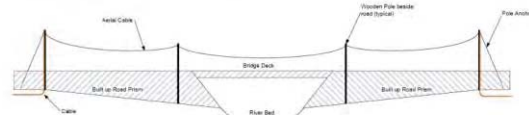
Infrastructure projects in Northern Canada commonly face construction and installation challenges. Construction for the Dempster Fibre Project will consist of mobilization and staging, route and vegetation clearing, and placement of conduit (protective tube) and cable (fibre optic cable). The conduit placement and cable installation will use various construction techniques, depending on which method is best suited for the landscape:

- Conventional plow
- Shallow burial plow
- Trenching (by hand and/or with light machinery)
- Horizontal directional drilling
 - Construction method for large river crossings (Mackenzie, Peel, Arctic Red)
- Surface lay (wetlands and terrestrial)
- Bridge attachment
 - Potential method for existing bridge crossings
- Aerial (on poles)
 - Potential method for small- and medium-sized river crossings

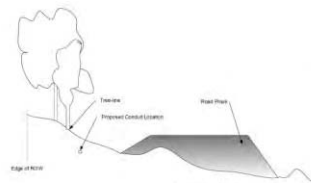
Operation

Ongoing operations and maintenance activities are both proactive and reactive.

- Proactive activities include driving along the route and conducting visual inspections or reburying exposed cable due to washouts.
- Reactive activities include responding to emergency breaks in the cable.



Possible conduit location for river crossing



Possible conduit location in Right-of-Way

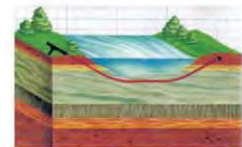


Diagram of horizontal directional drilling



Dempster Fibre Project: How The Line Will Work



Fibre Optic Cable

- The cable will largely be installed in the Right-of-Way of the Klondike and Dempster Highways. The cable will be able to withstand varying weather conditions and landscapes.
- Construction methods will vary along the route in order to accommodate changes in terrain. For example, most of the cable will be buried under ground, but some aerial sections may be attached to existing Yukon Energy electrical poles or attached to bridges for water crossings.

Terminals

Government of Yukon will use existing NorthwesTel facilities (NorthwesTel Central Offices) located in Dawson City and Inuvik to house terminal equipment.

Points of Presence (POP)

POPs are where the cable connects to users and communities along the route. POPs will be connected to the community electrical grid, and backup generators will supply power in the event of a power outage.



Visible handhole in the water

Handholes

- Handholes are shallow box-type structures made of fiberglass. They are approximately 80 cm wide x 120 cm long x 80 cm high. Handholes are needed to provide access to the cable for maintenance.
- Handholes will be installed every 5 to 10 km along the route.
- They can be built either above or below ground. Most will be built above ground to avoid permafrost and to minimize impacts on the land. Handholes will also have signs to ensure the public can see them.



Handhole

Network Operations and Control Centre (NOCC)

The existing centre in Yellowknife will be used. The NOCC is capable of monitoring and maintaining the cable and the signal. The NOCC can also change the direction of the signal if something goes wrong.



NorthwesTel office in Dawson, YT.



Cable plough

Dempster Fibre Project

Some of the Key Issues



Permafrost

Permafrost plays a vital role in northern ecosystems. Given the lack of resiliency for permafrost to adapt to change, maintaining the integrity of permafrost must be paramount during project activities. As examples, the project will take the following actions:

- The cable will not be installed within the active layer of the permafrost (to avoid erosion).
- The preferred construction method will be shallow burial or surface lay for lands with continuous permafrost.

Heritage Resources

Both the Yukon and Northwest Territories have legislation in place for the protection of heritage resources, and Heritage Resource Assessment work is being completed to address areas of specific concerns.

Business and Employment Opportunities

Potential future employment opportunities include clearing brush, wildlife monitoring, construction, support services, and geotechnical and drilling work.

Vegetation and Wetlands

Care will be taken to reduce the project's impact on vegetation and wetlands that play a key role in supporting biodiversity. For example:

- Heavy equipment will not leave the highway Right-of-Way
- Vegetation cleared around sensitive areas and/or wetlands will be cleared by hand.



Fish and Fish Habitat

Care will be taken to mitigate the project's effects on fish habitats, which provide nutritional value, cultural value, recreational value, and, in some cases, commercial value. For example:

- Project activities will follow *Best Management Practices for Works Affecting Water in Yukon* and Federal guidelines.

Wildlife and Wildlife Habitat

Sensitive species and/or habitats will be given special consideration, as will barren-ground caribou, waterfowl, and peregrine falcon and other raptors. In addition to their ecological, cultural, and commercial value, many big game and small game animals are essential for food. Ensuring project activities do not interfere with traditional harvesting activities is important. As examples, the project will take the following actions:

- Avoid project activities within 5 km of known sheep lambing sites.
- Temporary camps will not be placed near river corridors known for moose calving.
- Work with Porcupine Caribou Management Board.
- Breeding birds are not to be disturbed.




Schedule 7 – Sign-In Sheets (Meetings and Community Open Houses)

April 9, 2019 Tsiigehtchic, NWT (1:00 PM) – GGC Meeting Sign-In Sheet

Meeting Sign In		
Project: <u>Dempster Fibre line</u>		Date: <u>April 9, 2019</u>
Location: <u>Tsiigehtchic, NT</u>		Time: <u>1pm</u>
Print Name	Organization	Email / Phone
Priyank Thatte	Y G	priyank.thatte@ykgov.com
STEVEN CHARLIE	BTC	Stephan Charlie Egwinitwatsit.ca
MAVIS CLARK	^{DBO} Gwichya Gwichin Comm.	mvsclark@yahoo.ca
Julie-Ann Andre	Gwichya Gwichin Comm.	(867) 620-0097 andiejulie649@yahoo.com
PHILLIP BLAKE	MUNICIPAL	chiet@tsiigehtchic.ca
Wayne Nasomathy	^{GGC} Reb River Dev. Corp	CEO@GwichyaGwichin.ca E-andi@hotmail.com
Pat B...	PARTICIPANT	867 688 8290
Jackie Unbuck	Elder	867-953-3585
Eleanor James	BTC	eleanorjames@gwinitwatsit.ca

April 9, 2019 Tsiigehtchic, NWT (6:00 PM) – GGC Meeting Sign-In Sheet

Meeting Sign In		
Project: <u>Dempster Fibre line</u>		Date: <u>April 9, 2019</u>
Location: <u>Tsiigehtchic</u>		Time: <u>6pm</u>
Print Name	Organization	Email /Phone
Priyank Thalte	Yukon Govt	priyank.thalte@gov.yk.ca
James Andrew		james.henderson@hotmail.com 1-780-653-4149
Darius And	DGO	DariusAnd29@outlook.com
JOHN NORBERT	R.R.C.	953-3815
Julie Ann Andre	DGO President	
PHILLIP BLAKE	RRC	Chief of Tsiigehtchic thunder164.ar@gmail.com
Albert Ross	Tsiigehtchic Charter	
Shelly Vanloon	DGO	ssandre.09@hotmail.com
Shawn Vonloon	RRC	shawn564@hotmail.com
Jamie Barrett - Capekental	GGB / TCC	jamesonny@hotmail.com

April 10, 2019 Inuvik, NWT – NGC Meeting Sign-In Sheet

Meeting Sign In		
Project: <u>Dempster Fibre line</u>		Date: <u>April 10</u>
Location: <u>Inuvik</u>		Time: <u>7pm</u>
Print Name	Organization	Email
Richard Ross	NGC Council	richard.ross@northwestel.net
Priyank Tharte	Yukon Court	priyank.tharte@gov.yk.ca
Vernon Smith	NGC Council	vernon.smith@gov.NT.ca
Allen Firth	Nihtat RRC	RRC @ NIHTAT GWICHIN, CA
Barry Greenland	Nihtat/GTC	Barry.Greenland@htnail.com
ELIZA FIRTH	NihtatGwichinCouncil	eliza.firth@hotmail.com
Jocet Carnoguski	" " "	President@nihtatgwichin.ca
STEPHEN CHARLIE	GTC	Dsfeater, LER

April 11, 2019 Aklavik, NWT – EGC Meeting Sign-In Sheet

Meeting Sign In		
Project: <u>Dempster Fibre line</u>		Date: <u>April 11 - 2019</u>
Location: <u>Aklavik NT</u>		Time: <u>1:35pm</u>
Print Name	Organization	Email
<u>Woyd Petrie</u>	<u>AIB Bend Nege</u>	<u>Daazvairi.ceo@gmail.com</u>
<u>Randy Edwards</u>	<u>EGC Council</u>	<u>redword5ak@gmail.com</u>
<u>Robert Buhle</u>	<u>ERRC EGC Ex Dir</u>	<u>exec.director.egc@gmail.ca</u>
<u>Angela Charles</u>	<u>EGC AKLAVIK</u>	<u>Angela34 CHARLIE@HOTMAIL.COM</u>
<u>JAMES EDWARDS</u>	<u>EGC AKLAVIK</u>	<u>James Ed</u>
<u>MICHAEL GREENLAND</u>	<u>AIB COUNCIL</u>	<u>[Signature]</u>
<u>TERRY SIMPLE</u>	<u>AIB COUNCIL</u>	<u>[Signature]</u>
<u>Eugene Pasca</u>	<u>ERRC Coordinator</u>	<u>Ehg-RP</u>

April 24, 2019 Inuvik, NWT – Community Open House Sign-In Sheet

Meeting Sign In		
Project: <u>Dempster Fibre line</u>		Date: <u>April 24, 2019</u>
Location: <u>Inuvik NWT</u>		Time: <u>6:00 PM</u>
Print Name	Organization	Email
<u>STEPHEN CLARK</u>	<u>GIC</u>	
<u>Enka Tizya</u>	<u>GTC</u>	
<u>Joy O'Neill</u>	<u>"</u>	
<u>Robert Szelerz</u>	<u>GTC</u>	<u>Robert.Szelerz@gwichintribal.ca</u>
<u>Aaron Hemens</u>	<u>Inuvik Deum</u>	
<u>VERNA POPE</u>	<u>GTC</u>	<u>Verna.pope@gwichin.nt.ca</u>

April 25, 2019 Aklavik, NWT – Community Open House Sign-In Sheet

[illegible]

April 26, 2019 Fort McPherson, NWT – Community Open House Sign-In Sheet

[illegible]



Proposed Dempster Fibre Project [Community Name] Open House

[Date], 2019
[Time] PM

Tsiigehtchic
May 7 @ 6pm

Location: [Address]

Open House Sign-In Sheet	
Name	Organization
MAVIS CLARK	GWICHYA GWICH'IN COUNCIL - DGO
Jenny Andre	Gwichya Gwich'in
John Ross	Gwichya Gwich'in
Agnes Mitchell	Gwichya Gwich'in
Albert Ross	Gwichya Gwich'in
Darius Funnis	Gwich'in Elder
John Norbert	R.R.C.
Johnny Charlie	
Amanda Andre.N	
Shirley Gaudin-Blew	Community Member
Berrie Gae	DGO Council
George M. Hutchins	
Richard ANDRE	

Open House Sign-In Sheet	
Name	Organization
Randy Niditchie	community member




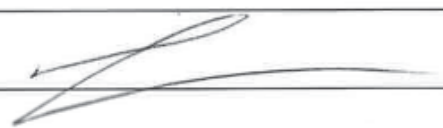
Proposed Dempster Fibre Project [Community Name] Open House

[Date], 2019 May 8 @ 5pm
[Time] PM

Location: [Address] Fort McPherson

Open House Sign-In Sheet	
Name	Organization
Georgine V Neyando	RRC-Coordinator
Rosemary Kae	
Anita Kae	^{DGO} E.D. (T.G.C.)
Mindy Kae	
Dean Neyando	
May Andre	
Martha Snowshoe	
Mary F. Firth	
SARAH SNOWSHOE	
Rosemary Francis	
LORRAINE. FRANCIS	
Alice Vittrekwa	

Open House Sign-In Sheet	
Name	Organization
Ernest Vittre Kwa	
Ruby McDonald	
Leslie P. Blau	DGO
Archie Jerome	Public
Sarah Nesysoo	Elder
Mary M. Firth	Elder
Taig Connell	RRC
Larry Firth	Public
Sonny Blake	MLA
Jane Charlie	Elder
John Francis	Public
Doris Hoi	Elder
Dempster Colin	Public
Judy Colin	Public
Ashlyn McLeod	RRC
Kenzley McLeod	Youth
John	Elder
Christopher Hill	Consultant

Open House Sign-In Sheet	
Name	Organization
Junior Koe	Youth
Randall Blake	Youth
Doris Itse	
Mary M Fawell	
Jane Charlie	
Dempster Colin	
Peter J. Vittrekus	
Adrianna Koe	Youth
Liz Vittrekus	Youth
Adrian Keervik	Youth/Child
Kiara Kay	
	

Schedule 8 – Summaries (Meetings and Community Open Houses)

February 20, 2019 Whitehorse, YT – GTC Meeting Summary

GTC Attendees:	David MacMartin, Director, Intergovernmental Relations Stephen Charlie, Director, Lands and Resources
HPW Attendees:	Darryl Froese, Priyank Thatte, Anthony DeLorenzo, Jay Chou, Abbie Rotondi

Purpose of Meeting

The purpose of the meeting was to initiate consultation with GTC on the Dempster Fibre Project following January 28, 2019 letter from the HPW. For this meeting, GTC requested an update on the project since Northwestel's previous consultation for the project from a few years ago, and to discuss overall consultation process. Specifically, GTC identified the following matters for discussion:

- Procurement Opportunities: GTC is interested in project procurement opportunities as well as protecting the integrity of the lands for the Gwich'in people.
- Project History: This is the second time GTC will be consulted on the Dempster Fibre Project. The first time was when Northwestel was the proponent.
- Project Consultation: Northwestel and Ledcor have carried out studies on this project in the past.
 - GTC has full access to this information; however, GTC's view is that consultation with HPW is in the early stages of this project.
 - GTC benefits from information previously collected, but is not relying on it.

Project Update

Since the project announcement by YG and Canada summer of 2018, Abbie Rotondi has been providing updates on project developments with each affected First Nation. Recently, Hemmera was hired by HPW to assist with preparing environmental assessment and regulatory applications for YESAB, MVLWB, as well as necessary permits from YG and GNWT.

HPW is the proponent submitting the Project Proposal and land-use application to YESAB and MVLWB, respectively. GTC indicated they are familiar with Hemmera and have worked closely with them in the past.

Currently, HPW issued an RPF for the engineering design contract, and is evaluating proposals. HPW will notify GTC once the engineering consulting firm is hired, likely in the next few weeks.

Consultation with GTC

For the Yukon portion of the project (i.e., from Dawson to NWT border), HPW explained that YG is both the proponent on the project, as well as the regulator with obligations to consult with affected First Nations. Once the project is in the NWT, YG is only the proponent and the agency responsible for consultation with the GTC is the MVLWB.

In the Yukon, the Decision Body for this project will be EMR-LMB. EMR-LMB will be responsible for consulting with GTC on the Decision Document after YESAB issues the Evaluation Report. HPW has notified EMR-LMB about this project, and EMR-LMB is aware of its role as the Decision Body on the project. HPW will be updating EMR-LMB on its consultation with GTC and other affected First Nations throughout the project.

GTC Concerns

GTC is pleased to receive the January 28, 2019 letter from HPW initiating consultation, and that the right people were contacted for this project. GTC is optimistic that both governments can develop the appropriate consultation approach for this project and to have a collaborative and interactive dialogue.

HPW responded that HPW and the Dempster Fibre Team is not consulting GTC as a Yukon First Nation, but as GTC with treaty rights under the YTA in the Yukon. This is the first meeting with GTC on this project, and views consultation as a process, rather than a one-time event. HPW is consulting to determine if there are impacts to GTC's treaty rights under YTA and to discuss how best to address impacts of the project.

Project Procurement Opportunities

GTC is interested in exploring business opportunities from this project and would like to know how Gwich'in businesses can participate in the opportunities (e.g. laying cable, etc.). GTC has a development corporation and see this project as an opportunity to further develop and grow its business interests.

HPW's goal is to provide opportunities wherever possible. Contract opportunities available on this project are, for example, brushing, survey work, geotechnical work, wildlife monitoring, horizontal directional drilling, construction, and support services. HPW is looking at a number of

options to provide these opportunities to First Nations, but needs to do so in the context of the limitations of funding agreements, and capacity and availability of services.

HPW also has a First Nations criteria in contracts that includes First Nations participation and focuses on ensuring value of the projects and contracts are distributed to communities. HPW wants to use the criteria to ensure that components of the construction jobs are linked and connected between the parties doing to specialized portions of the work to resources available within First Nations. GTC responded that, however, this can be structured with the UFA in mind and in difficult situations, decisions are made without considerations to GTC.

HPW recognizes that the current criteria is designed for Yukon First Nations, but can confirm that Procurement Services can provide flexibility to include other non-Yukon First Nations given that this is a transboundary project. HPW will work on designing criteria to allow GTC and all affected First Nations are involved.

GTC notes that this is a good start and hopes that this approach will break down some of the barriers when dealing with projects that are transboundary in nature. GTC is glad that this issue is being reviewed by HPW project team and it hopes that this will be a positive example that can be adopted in the future.

Project Route

GTC raised the importance of listening and gathering feedback from communities about the project, in particular, Tsiigehtchic, who want to be connected and often feel they are overlooked. GTC anticipates that its citizens will be interested in the trenching and laying down of the fibre work along the route. For future meetings, GTC would like to learn about the proposed project and the route in greater detail.

Conclusion

The Dempster Fibre team will continue engagement and rely on GTC to organize engagement meetings with DGOs for the week of March 18, 2019. The purpose of these meetings are to introduce the project in greater detail and to identify DGOs' concerns and interests on this project. GTC indicated it would provide direction to YG on timing and availability for meeting with DGOs. David MacMartin will be GTC's main contact for YG on this project.

April 9, 2019 Tsiigehtchic, NWT (1:00 PM) – GGC Meeting Summary

Attendees: Gwichya Gwich'in Council
Red River Development Corporation
HPW Attendees: Darryl Froese, Priyank Thatte, Jay Chou, Abbie Rotondi

Purpose of Meeting

The purpose of this meeting was to introduce the Dempster Fibre Project to the GGC, and to discuss concerns and interests to be considered in HPW's Land Use Permit application for the MVLWB review. Copies of the presentation, maps, and draft Land Use Permit application were provided to inform discussions and next steps.

Other participants attending the meeting include representatives from GTC, Red River Development Corporation and community members of Tsiigehtchic.

General Comments and Concerns

HPW clarified that the current route for Dempster Fibre Project is not passing through any private lands in the NWT. The plan is to stay within the Dempster Highway ROW. In doing so, HPW will conform with the Gwich'in Land Use Plan and is not planning to overlap any Special Management Areas.

HPW is starting fresh with their own engagement on this project. It is not relying on previous consultation and engagement records from other proponents. Attendees inquired about any past agreements or benefits that were arranged by Northwestel. HPW is not privy to any business agreements that Northwestel may have arranged, and those agreements would not be relevant for HPW's Dempster Fibre Project.

HPW emphasized that it does not want the Dempster Fibre Project to have any infringements on Gwich'in treaty rights in GCLCA. HPW is required by the MVLWB to report on its engagement with affected Indigenous groups. HPW takes this engagement requirement very seriously, and is why the Dempster Fibre team is visiting all the Gwich'in communities to consult and ensure treaty rights under the GCLCA are not adversely impacted.

Questions were raised about who will ultimately be responsible for the line in the case of any unforeseen catastrophes. HPW clarified that this line is an HPW asset and is ultimately HPW's

responsibility, which includes ensuring the quality of Northwestel's work and maintenance on the line.

A concern was raised as to whether HPW could hold the construction contractor responsible for any issues. HPW will be able to claim deficiencies even after the warranty period for the project.

Tsiigehtchic would like to see Northwestel meet with the communities in the future, to discuss their work, and hear comments and concerns. HPW can bring them back before construction to discuss.

Wildlife and Environmental Concerns

Protecting wildlife and the environment was raised as a key focus of concern for the community of Tsiigehtchic. Attendees provided valuable information on specific areas of concern, weather patterns, wildlife movement and other local knowledge.

- **Fisheries:** November is fish spawning season and not a good time to drill under the Mackenzie River. January and February are best for drilling due to minimal fish activity at that time.
- Attendees advised that when connecting the fibre line after drilling under the Mackenzie River, it may be best to stay on top of the main hill above the community and connect to the Northwestel tower behind Tsiigehtchic. HPW should be aware of several extreme overflow areas when doing construction around the community. The Beaufort Delta is noticing severe permafrost effects and recommendations would be to go above land in some areas to avoid permafrost issues. Heavy moss areas along the route may require an above-ground line solution as well.
- **Permafrost:** To avoid permafrost issues when trenching, HPW should avoid covering the fibre line with the same fill from digging the trench – there were major issues with this method on the MVFL project.
- **Flooding:** Approximately every ten years Tsiigehtchic experiences extensive flooding which covers the entire valley below the community. HPW should avoid drilling below the flooding areas.
- **Harvesting:** HPW clarified that the fibre line will not affect Gwich'in harvesting rights by minimizing impacts on caribou. HPW's consultant – Hemmera – will work with the PCMB to discuss impacts of this project on caribou population and their habitat.

Attendees identified role of traditional knowledge in informing potential impacts of the project. HPW recognizes the important role traditional knowledge provides, and is gathering any local

knowledge and input from the GGC, such as timing of drilling outside of fish spawning season in November. HPW also looks forward to receiving comments and inputs from the Renewable Resource Councils during the review of the permit.

The GGC noted that once HPW has met with all the DGOs, the DGOs will then meet with GTC to discuss next steps on the project.

Procurement Opportunities

The community members of Tsiigehtchic are extremely interested in potential opportunities that may be available through this project. The Gwich'in have often felt left out regarding opportunities and not being included by HPW. Attendees were very pleased about HPW's plans to bring the contractors back to the community to meet the local workforce and local businesses after the RFP stage.

The local Development Corporation has equipment and businesses in Tsiigehtchic that can carry out brushing related work, and want to make sure local construction equipment can be rented by the construction company procured for the project. Attendees were happy to hear about HPW's plans to include First Nations in procurement and subcontracting opportunities. Once HPW's procurement plan is approved, HPW will then meet with all the Indigenous groups again to discuss the plan and gather feedback and input on what to include in the tender criteria.

It was noted that HPW should include environmental monitoring as a specific job, not just wildlife monitoring, since they are very separate components.

Conclusion

Tsiigehtchic has often been left out of receiving services because they are on the other side of the Mackenzie River. The community is very excited to be included and connected to this fibre line.

Attendees were pleased with the information provided in the project presentation and appreciated that HPW had come to the community to discuss this project early on. Attendees are looking forward to the team coming back for an open house with the community.

April 9, 2019 Tsiigehtchic, NWT (6:00 PM) – GGC Meeting Summary

Attendees: Gwichya Gwich'in Council
Gwichya Renewable Resource Council
Gwichya Gwich'in Band
HPW Attendees: Darryl Froese, Priyank Thatte, Jay Chou, Abbie Rotondi

Purpose of Meeting

The purpose of this meeting is to introduce the Dempster Fibre Project to the GGC and to discuss concerns and interests to be considered in HPW's Land Use Permit application for the MVLWB review.

Other participants attending the meeting include representatives from Gwichya Renewable Resource Council, Gwichya Gwich'in Band and community members of Tsiigehtchic.

This is the second meeting in Tsiigehtchic on April 9, 2019 after an earlier meeting at 1pm. This meeting is scheduled to accommodate participants unable to attend the 1pm meeting. Copies of the presentation, maps, and draft Land Use Permit application were provided to inform discussions and next steps.

General Comments and Concerns

Attendees commented fibre line is a great thing for the North and great that Tsiigehtchic is being connected.

Wildlife and environmental concerns

Participants discussed importance of incorporating traditional knowledge from Gwich'in people to avoid past mistakes. The following concerns were identified by participants:

- **River Crossings:** The Rengleng River was mentioned as a specific concern because of its depth. Ogilvie River is also a concern because of landslides and climate changes issues. It was suggested that aerial installation might be a better than underground.
- HPW may want to look into whether the Red River is a heritage river.
- HPW was advised that construction crews need to be aware of how extremely high the water can get around Tsiigehtchic during certain seasons as well as overflow areas during the colder months. HPW is looking to assess water levels in the area based on historic flood levels over 10-50 years, but would like to talk to communities when they come back with the engineering team.

- **Land Use Plan:** James Creek Special Management Area is something to speak with Gwich'in Tribal Council about as well.
- **Construction:** A base should be put down to lay the cable into – could use something like sawdust to keep the cable from floating up to the surface. Swamps have also proven difficult in past fibre projects in the area. It should be shared with the community where the drill waste will be hauled after some of the major drills, i.e., the Mackenzie River. HPW identified there will be cleanup and reclamation work completed wherever needed for the length of the project.
- **Waste Deposit:** The fibre will feed into boxes where the splice occurs, roughly every 10 km. It was suggested that the best place to feed the line up on both sides of the McKenzie River would be near the gravel pits on both sides of the river - ice breakup is brutal near Tsiigehtchic and would rip the boxes right out.
- **Wildlife:** Construction during the spring and fall should be avoided while the porcupine caribou are in route. Attendees mentioned it is getting harder to identify herd movement because of changes to the climate. For example, last year caribou migrated in July which is new. HPW would adjust/move construction to avoid disruptions to caribou and will work with the PCMB to gather information on caribou.
- Participants identified the need for an environmental monitor that is separate from wildlife monitor so that it is not one monitor carrying out two jobs.

It was suggested that Arctic Borderlands is also very focused on climate change, and HPW may want to consider involving the organization to help with climate change discussions, not just Yukon College.

Project Procurement Opportunities

The main construction contract will be going out to public tender starting with an RFQ and then an RFP. Additionally, HPW is working to build in language that will facilitate the employment and/or sub-contracting of local First Nations.

Participants explained on past projects located in Gwich'in lands, Tsiigehtchic has had little to no employment or involvement in projects. While the four Gwich'in communities work together, projects on lands around the individual communities needs to be involved by those individual communities, not people from the other places.

Training opportunities in contracts often turn out to be base level positions such as driving trucks, labourers, etc. and not actually providing any real education or opportunities to build up people in the communities. It would be useful for Tsiigehtchic to know well in advance what

types of support, services, and capacity might be needed when the construction is near the community, so they can prepare. If given the heads up, the community may be able to provide fuel for construction in the area, help with camp support or labourers.

Conclusion

Tsiigehtchic has often been left out of receiving services because they are on the other side of the Mackenzie River. The community is very excited to be included and connected to this fibre line.

Attendees noted they were pleased with the information provided in the project presentation and appreciated that HPW had come to the community to discuss the project early on and involving the Gwich'in people. Attendees are looking forward to the team coming back for an open house with the community.

April 10, 2019 Inuvik, NWT – GTC Meeting Summary

Attendees:	Joy O'Neill, Ec. Dev. Officer, Gwich'in Tribal Council
	Dwayne Semple, Land and Resources Specialist
	Diane Baxter, Associate Director
	Jordan Peterson, Deputy Chief
	Erika Tizya-Tramm, Transboundary Specialist
	James Thorbourne, CEO of Gwich'in Development Corporation
HPW Attendees:	Darryl Froese, Jay Chou, Priyank Thatte, Abbie Rotondi

Purpose of Meeting

The purpose of this meeting was to introduce the Dempster Fibre Project to staff at GTC, and to discuss concerns and interests to be considered in the Land Use Permit application for MVLWB's review. Copies of the presentation, maps, and draft Land Use Permit application were provided to inform discussions and next steps.

General Feedback and Concerns

A question was asked about recent federal budget announcement on investments in rural broadband, and whether this budget announcement applies to Dempster Fibre. In response, it was explained that there are two federal programs contributing funds to this project: Investing in Canada Infrastructure Program and Connect to Innovate. Canada is providing 75% of project funding on this project through these two agreements, and so the 2019 funding announcement on connectivity will not have an impact on the design or future funding of this project.

Regarding economic impacts of disruptions to internet connection, there are no official numbers or economic studies available on how much money is lost during a fibre cut. However, the impact is extensive.

GTC asked what existing studies and reports are available to HPW on the project. HPW replied that it has full access and rights to the drilling reports previously completed on the Dempster Highway and Mackenzie River. Generally, if the information is accurate and complete, available reports from previous work will be utilized. HPW's engagement, however, is new and will not be relying on past engagement by Northwestel. HPW would also like to continue to be involved in consultation once the Decision Body for this project, EMR-LMB, is involved in the Decision Document for Yukon portion of the project.

GTC explained there were concerns about accuracy of the ROW measurements using GPS coordinates and field surveying on the MVFL project. For the Dempster Fibre Project, HPW will be using accurate mapping and survey work to ensure the project is staying within the exact measurements of the ROW.

Regarding construction and schedule, GTC asked how long it would take to lay down one kilometre of fibre line. HPW responded that under ideal conditions, it would take anywhere from one to three kilometres per day depending on what conditions are encountered.

GTC expressed its appreciation of HPW's early consultation and engagement on this project and is interested in learning more about plans for ongoing engagement. HPW explained that it is consulting early with GTC and, for the NWT portion of the project, it is engaging with GTC to meet engagement requirements for the MVLWB. HPW is interested in receiving feedback on any best practices for future engagement on this project.

GTC noted it would be beneficial to have free Wi-Fi for the public at Eagle Plains for tourists and locals driving between these points.

Wildlife and Environmental Concerns

GTC raised impacts on caribou and caribou habitat as an important concern for GTC. In response, HPW and Hemmera will work with the PCMB to identify potential impacts on caribou populations and appropriate mitigations. Accommodations for the herd will be included in the construction contract wherever needed to ensure little to no disturbance.

Other environmental questions raised and discussed were:

- Susceptibility of the fibre line to forest fires – There is little risk to the line when it is buried 10 inches underground. HPW will assess the risk of any sections of the fibre line laid on the surface.
- Difficulties with construction in the ROW near the Rengleng River – HPW is not familiar with this area, but will assess this area closely and review installation options such as aerial installation in order to mitigate any environmental concerns such as flooding.
- Mackenzie River and bedrock issues – GTC asked how HPW plans to deal with bedrock issues in areas with rapids. HPW will review available geotechnical drilling information and examine areas with rapids more closely to find an appropriate solution.

GTC is sensitive to the issue of exploitation of traditional knowledge and stated it would be valuable for the wildlife and environmental monitoring work to be informed by and contribute to traditional knowledge. HPW understands the importance of traditional knowledge and is looking at hiring the wildlife/environmental monitors from the communities with a consultant overseeing all the work.

Project Procurement Opportunities

One of GTC's main interests in this project is procurement opportunities. HPW explained that construction procurement for this project will go out to public tender, but will not be based solely on lowest price. In regard to any difference between procurement on the Yukon side versus the NWT side, there will be one contractor for the whole length of the line. For the geotechnical portion of work, HPW is looking at using a Standing Offer Agreement that could be used as needed for geotechnical work through the entire project.

The RFQ for the construction work is meant to shortlist a number of contracting companies that are able to perform the work. Companies selected from the RFQ will be invited to visit the communities to network with local businesses and development corporations. This will enable contracting companies to meet and discuss opportunities with businesses prior to bidding on the RFP, where companies will be expected to show how they plan to procure local companies, including development corporations.

GTC explained that for previous projects in the Gwich'in Settlement Area large contractors were hired without consideration about First Nations employment and business. GTC wants to make sure that the goal of communities benefiting from procurement opportunities is actually delivered. In response, HPW explained it is also working on First Nation criteria that will be included in the public tendering process. One of the criteria would require commitments from contractors during the tendering stage to demonstrate, and be evaluated on, how it plans to hire and procure locally.

April 10, 2019 Inuvik, NWT – NGC Meeting Summary

Attendees: Nihtat Gwich'in Council
Nihtat Renewable Resources Council
Inuvik Native Band
HPW Attendees: Darryl Froese, Jay Chou, Priyank Thatte, Abbie Rotondi

Purpose of Meeting

The purpose of this meeting was to introduce the Dempster Fibre Project to NGC, and to discuss concerns and interests to be considered in HPW's Land Use Permit application for MVLWB review. Copies of the presentation, maps, and draft Land Use Permit application were provided to inform discussions and next steps.

Other participants attending the meeting included representatives from NRRC and GTC.

General Comments and Concerns

NGC inquired why the Land Use Permit application for this project will be submitted to the MVLWB and not GLWB. For NGC, the Gwich'in is represented through appointments on the GLWB, as per the intent of co-management boards, but not the MVLWB. HPW responded that that transboundary projects under the *Mackenzie Valley Resource Management Act* requires that applications be reviewed by MVLWB.

Environmental Concerns

The importance of considering issues with shallow burial on the MVFL was mentioned. Attendees also noted that it may be useful to include traditional knowledge in the application. HPW responded that it has been reviewing available information (e.g., lessons learned) from the MVFL in order to avoid similar issues on the Dempster Fibre project. Where traditional knowledge is provided, HPW will gather information while engaging with all the Indigenous groups along the route. For example, information about the spawning seasons on the Mackenzie River was provided in Tsiigehtchic and, as a result, HPW will avoid drilling during those times.

Ogilvie River area was brought up as a landscape where trenching may be difficult. HPW will provide this information to the engineers responsible for the design and, if burying the line is not suitable for this area, will review other options for installation.

Participants also suggested that it might be more useful and easier to bring in different fill to cover the line versus re-using the organic matter originally dug up.

Procurement Opportunities

Attendees brought up the importance of working with all the Development Corporations (i.e., one in each community) and contacting them individually on procurement matters as opposed to going through Gwich'in Development Corporation. In the past, the Gwich'in people have had similar conversations about involving First Nations and heard similar promises. However, they have seen little follow-up, or not enough time to prepare and gather their resources. NGC would like to see stronger language than simply "promote First Nation engagement and employment". There is an up to date Gwich'in business list that would be useful for HPW to use in procurement planning. The sooner the Gwich'in people can know how the procurement will proceed and the more details, the better.

There needs to be economic opportunities flowing to the Gwich'in people when there is work on or around their lands. HPW is hoping to address this concern by putting out an RFQ and then an RFP, the latter would be assessed based on a First Nation participation value component. Once contractors submit their plans to HPW to address this value component, and HPW accepts them, it will then be a contractual obligation.

The Gwich'in are starting to ask for equity stakes in projects such as this as opposed to involvement later on. This would mean a type of bi-lateral agreement where some of the money that Canada is lending to these projects would be given to the Gwich'in and then they could contribute/lend back to the project.

NGC suggested that all eight First Nations and Indigenous groups along the route agree on one company they would like to support on the project, and then dividing the work from there. Something like this could maybe be done under the CYFN umbrella.

Conclusion

NGC is very happy that HPW is in Inuvik to talk to them and meet with the communities. They would like to see this happen with other projects that affect the Gwich'in and their lands, not just when HPW is the proponent. The plan for open houses next week is welcomed by NGC. The

Gwich'in is pleased to see Hemmera working on this project as well. HPW will email a PDF copy of draft submissions to each of the DGOs and GTC as well as the presentation.

April 11, 2019 Aklavik, NWT – EGC Meeting Summary

Attendees: Ehdiiat Gwich'in Council
Ehdiiat Renewable Resources Board
Aklavik Indian Band
HPW Attendees: Darryl Froese, Jay Chou, Abbie Rotondi

Purpose of Meeting

The purpose of this meeting was to introduce the Dempster Fibre Project to EGC, and to discuss concerns and interests to be considered in HPW's Land Use Permit application for MVLWB review. Copies of the presentation, maps, and draft Land Use Permit application were provided to inform discussions and next steps.

Other participants attending the meeting included representatives of Aklavik Indian Band, ERRC and GTC.

General project feedback and concerns

Participants requested clarification on whether this is a P3 partnership between Northwestel, HPW and the Government of Canada. HPW responded that this is an HPW-led project only, and that the project is receiving funding from these three sources through funding agreements.

In the presentation, it was explained that the project is primarily located within the highways ROW from Dawson City, YT to Inuvik, NWT. The project will be connecting to Fort McPherson and Tsiigehtchic, but will not be connecting to Aklavik.

Procurement Opportunities

It was suggested that it would be useful for HPW to use the Gwich'in business directory. HPW is aware of this directory based on discussions with GTC and is engaged in ongoing discussions to determine and plan procurement and contract opportunities to be made available in both NWT and YT.

Conclusion

Participants were pleased with the information provided in the project presentation and appreciated that HPW had come to the community to discuss the project early on. Although the fibre line will not be connecting to Aklavik, many of the attendees expressed interests in

having an open house for other community members to attend and learn more about the project.

April 24, 2019 Inuvik, NWT – Community Open House Summary

Attendees: Members of the community (Open House)

HPW Attendees: Darryl Froese, Jay Chou, Abbie Rotondi

Purpose of Meeting

The purpose of this meeting was to introduce the Dempster Fibre Project to the members of the Nihtat community in Inuvik NWT and to discuss concerns and interests to be considered in HPW's Land Use Permit application for MVLWB review.

General Comments and Concerns

An attendee asked what issues arose pertaining to the MVFL project. HPW responded that some reclamation work was required due to the fibre line re-surfacing.

Attendees asked several questions about how the cable operates, such as, are solar flares an issue, is the cable generally underground, and/or will the cable be visible (i.e., could it be damaged by a skidoo)? HPW responded that it is unlikely that that cable will be affected by solar flares given the depth that the cable may be buried as well as the cable casing – the conduit. Fires can run/burn over the conduit without damaging the cable inside. Whether the cable is above or below ground (and to what depth) depends on the site. HPW stated that the cable would be approximately one meter deep for standard trenching, but that that method doesn't work as well with permafrost. Shallow burial, where a trench is approximately a foot deep, is a method that's better suited for areas with permafrost. Or the cable can be resting on the ground in sensitive areas. HPW confirmed that the conduit is durable, and it is/will be "high vis" and low to the ground. It should not hook the blades/skis on a skidoo.

An attendee asked what causes service disruptions and how the problem is located. HPW responded that it could be a number of issues: could be a back log of traffic; or, sometimes the line is cut – this would be a significant disruption. In 2016, this (i.e., the line was cut) happened 3-4 times. HPW described that problems/disruptions are found by looking at the strength of the signal. Amplifiers are used to boost the signal (i.e., they read the degraded signal/data and send it out again at full strength) and are installed every 100-200 km. How the signal diminishes along the route narrows down where the location of the disruption is.

An attendee asked how HPW would like the Gwich'in people to engage with HPW and when. HPW responded that engagement will occur during construction and operation (i.e., the lifespan of the Project). HPW is currently focusing on the method/extent of engagement during the pre-construction phase and during construction, and that there is time to figure out/determine how engagement will occur during the operation.

Construction

Attendees were curious as to when HPW was hoping to start construction, once the regulatory process was complete, and how long it would take. HPW responded that they would like to break ground this winter [winter 2019/2020] with the possibility of survey/geotechnical/light work occurring this summer [summer 2019]. Construction would likely two years, some portions of the fibre line have to be built in the winter while others have to be built in the summer. The Project will want to allow for two building seasons for both winter and summer construction.

An attendee inquired as to whether the work camps would have cooks and what size the camps were anticipated to be. HPW responded that the work crews will be fairly small and likely just a handful of men.

An attendee inquired as to why/how the path was chosen. HPW responded stating that the Dempster was key. The goal/intention was to minimize impacts to the landscape and to diminish costs, by installing the cable close to the highway but not in the highway prism (the ROW for the highway is 60 meters wide).

Procurement Opportunities

An attendee of the GTC (Manager of Education and Training) asked how they could be involved in employment and training. HPW responded with a brief overview of their procurement plans/intentions. HPW agreed with the GTC attendee that they need to align training with anticipated jobs. That way training can be completed prior to the job becoming available (e.g., putting on a camp cook or kitchen assistant program/course if those are likely to be jobs). Both parties agreed that they should connect after the presentation to coordinate.

Attendees expressed concern that in the past contractors have promised to hire X number of First Nations but did not follow through. HPW intends to make reports mandatory, to ensure follow through, and use financial holdbacks. Using these tools/strategies, HPW can enforce conditions (e.g., hiring First Nations from the communities) in contracts. For example, for wildlife monitoring, a contractor might oversee that component of the project, but HPW can ensure they deliver training programs so that the monitoring is done by First Nations from the communities.

April 25, 2019 Aklavik, NWT – Community Open House Summary

Attendees: Members of the community (Open House)

HPW Attendees: Darryl Froese, Jay Chou, Abbie Rotondi

Purpose of Meeting

The purpose of this meeting was to introduce the Dempster Fibre Project to the members of the Ehdiitat community in Aklavik NWT, and to discuss concerns and interests to be considered in HPW's Land Use Permit application to MVLWB.

General Comments and Concerns

Attendees expressed their appreciation of HPW being in the community and engaging with them. They recommended that other parties (e.g., proponents, governments) should/could follow HPW's example. HPW expressed the importance of their engagement activities to the development of their applications to MVLWB and YESAB. HPW followed by inquiring if the community had any recommendations for engagement in the future (e.g., during latter stages of the project, if applications are successful). Attendees expressed that sharing reports filed by environmental monitors during construction would be appreciated. During the construction of the MVFL, reports were filed to the Gwich'in Board to provide updates (e.g., animals viewed daily, which crews were out, where, and doing what) and that there were tours of camps and/or work sites to show people where the work is happening.

An attendee asked if HPW would be returning to speak with elders. They mentioned that elders may have concerns about animals migrating through areas where construction may be taking place and how best construction could be timed to reduce/eliminate disturbance to animals. HPW wasn't able to specify when they would be back, but that they would appreciate any information at this time or in the future.

An attendee who worked on MVFL recommended BEAHR Indigenous training programs (<https://www.eco.ca/beahr/>). In the past, BEAHR ran a wildlife monitoring program/course where they came to the community and provided certificates to people who completed the course.

Construction

An attendee inquired as to how HPW was going to show people where the line is, and HPW responded that there would be markers where the line is underground or on the ground. Any lines on the surface would be “high vis”.

When asked who issues the Dempster Highway Development Permit, HPW responded that it was the Department of Environment of Yukon Government.

April 26, 2019 Fort McPherson, NWT – Community Open House Summary

Attendees: Members of the community (Open House)

HPW Attendees: Darryl Froese, Jay Chou, Abbie Rotondi

Purpose of Meeting

The purpose of this meeting was to introduce the Dempster Fibre Project to the members of the Tetlit community in Aklavik NWT, and to discuss concerns and interests to be considered in HPW's Land Use Permit application to MVLWB.

General Comments and Concerns

An attendee inquired if HPW sent letters to each of the DGOs and RRCs. HPW responded that it did send a letter to the Presidents of each of the DGOs and that the GTC was carbon copied.

The presentation spoke to the importance of service redundancy for businesses. An attendee inquired as to what HPW believed the benefit of the cable would be to residential users. HPW described that the benefits are harder to describe for residential uses compared to business. However, poor internet service and poor cell service impacts on the community (e.g., electronic banking - purchases with credit cards).

Procurement Opportunities

An attendee asked if HPW had spoken with or seen a list of people that worked on the MVFL (e.g., who had what jobs). HPW responded that it had not seen such a list, but that they have been reaching out to GNWT to gather lessons learned. HPW would like to make hiring locally a requirement of contracts.

May 7, 2019 Tsiigehtchic, NWT – Community Open House Summary

Attendees: Members of the community (Open House)
HPW Attendees: Darryl Froese, Priyank Thatte

Purpose of Meeting

The purpose of this meeting was to introduce the Dempster Fibre Project to the members of the Gwichya Gwich'in community in Tsiigehtchic, NWT, and to discuss concerns and interests to be considered in HPW's Land Use Permit application for MVLWB review. Copies of the presentation, maps, and draft Land Use Permit application were provided to inform discussions and next steps.

Per advice of GTC and the DGO, an open house community event was held in the school gymnasium. Approximately 25 members attended the 2-hour meeting from 5 pm to 7 pm.

General Comments and Concerns

Attendees welcomed HPW's second visit to the community, noting that the first visit had already attracted a large number of members.

An attendee asked whether the fibre line would improve safety conditions along the Dempster Highway since, at the moment, there is no cell signal for large sections of the highway. They also inquired why Northwestel doesn't upgrade its infrastructure to provide better connectivity. HPW expressed inability to answer these questions since it is not the telecom operator.

An attendee inquired whether there will be revenue from foreign satellite companies. HPW responded that the Dempster Fibre Line is a backup line in case of interruption to the existing fibre line in Inuvik, NWT.

Construction

An attendee inquired if the route and location for the fibre line had been selected. HPW stated that the routing and engineering work is underway and will expect few months to complete. They also asked if there would be any camps located between Tsiigehtchic and Inuvik. HPW responded that it was too early in the process to identify where camps would be. That level of logistical planning would be done by the construction contractor.

An attendee remarked that their land claim agreement states that, even in Yukon, First Nations get training for jobs that are passing through their land. HPW provided an overview of training opportunities, including some programs organized by the GTC.

An attendee asked about the construction schedule. HPW responded using presentation materials that laid out the project schedule. An attendee asked how much construction would take place in a day and to estimate the duration of job opportunities around Tsiigehtchic. HPW responded that the rate of construction per day was highly variable and would be determined once the contractor prepares a schedule. Another attendee also asked if all the main bridges were cement.

Environmental Considerations

An attendee asked about construction across the river and whether construction would occur in January. HPW provided information on horizontal directional drilling using presentation materials. HPW also explained that environmental data was being collected to account for fish spawning cycles and construction would be scheduled accordingly.

An attendee asked whether cables would float in swamp areas. HPW described the environmental data collection and engineering process to determine construction methods and floating might be one of the viable options.

Procurement Opportunities

Participants asked HPW to communicate sufficiently in advance on the types of services that the community can provide, such as cooks, labourers, environmental monitors, water, and sewage management. An attendee commented that the land between Tsiigehtchic and Inuvik belonged to the Gwichya Gwich'in and they do not like to see outsiders coming in when community members do not have jobs.

An attendee commented that 95% of the community was trained in First Aid and that the DGO organizes courses for wildlife and environmental monitors.

An attendee commented that it would be a good idea to have a safety officer on standby during construction. HPW responded that there are detailed regulations and requirements that contractors are required to follow.

Conclusion

The community is very happy that HPW is in Tsiigehtchic for the second time to discuss the Dempster Fibre Project and looks forward to discussing further about connecting to the community.

May 8, 2019 Fort McPherson, NWT – Community Open House Summary

Attendees:	Members of the community (Open House) Tetlit Gwich'in Council Tetlit Renewable Resources Council
HPW Attendees:	Darryl Froese, Priyank Thatte

Purpose of Meeting

The purpose of this meeting was to introduce the Dempster Fibre Project to the members of the Tetlit Gwich'in community at Fort McPherson, and to discuss concerns and interests to be considered in HPW's Land Use Permit application for MVLWB review. Copies of the presentation, maps, and draft Land Use Permit application were provided to inform discussions and next steps.

Other participants attending the Open House included representatives from TGC and TGRRC.

Per advice of the DGO, the meeting was held as an open house community event. Over 45 members attended the 3-hour meeting from 5 pm to 8 pm.

General Comments and Concerns

Attendees commented that connecting the community with fibre optic is a good for the North.

A member asked about connectivity to homes and Northwestel's role. HPW responded that the scope of this project is to build a backup line and, for services to homes, those inquiries should be sent to the telecom operator, Northwestel. A member asked whether the line was crossing private lands and, if so, what benefits will be provided. HPW clarified that the line is not crossing private lands.

Attendees asked what feedback was provided by other communities. HPW responded that the feedback was positive. HPW also shared some of the questions and answers from previous community events.

An attendee suggested conducting a brief broadcast on the local radio and suggested language translation for the benefit of elderly members in the community.

An attendee asked the HPW team what consultation meant to them.

Technical concepts

An attendee requested clarity on some technical terms, such as “redundancy”. HPW was able to convey the concept using examples. An attendee inquired whether satellite communication will still be used. HPW responded that typically satellite communication is used as a backup for critical services such as 911. An attendee inquired how the continuity of the signal is checked in the fibre line. HPW used a fibre optic prop to demonstrate various elements inside the fibre core, including the signal check conductor. An attendee also inquired about the size of the booster stations. HPW responded with explaining the concept of boosting first, followed by demonstrating the approximate size of the equipment, which is small. An attendee asked what technology is being used in Alaska and elsewhere, for compatibility. HPW responded that the fibre line itself is quite standard, however companies may use different electronics and programming for transmission. HPW stated that it is common to connect multiple/different systems together. The Dempster Fibre Line would be connecting to the existing fibre lines in Dawson and Inuvik.

An attendee inquired how far off the road the line will go and whether the line will be built inside the highway. HPW team stated that the fibre will primarily be in the highway ROW, but not in the prism of the road. HPW and attendees discussed the challenges in building the line inside the highway due to washouts and other environmental circumstances on the northern portion of the Dempster highway. An attendee inquired on burial techniques for the line. HPW used presentation materials to provide a response.

Funding

An attendee asked about the funding breakdown for this project. What share of funding is from Federal versus Yukon Government, and the total cost/budget of the project? HPW used presentation material to provide this information. An attendee asked the rationale behind federal funding. HPW articulated the project history and the rationale for proposing a line along the Dempster highway due to it’s national strategic significance as well as the benefit of connecting two territories in a northern telecommunications network. An attendee asked whether Vuntut Gwich’in First Nation was an equity partner in this project. HPW responded that there are no equity partners since the project is not expected to generate revenues.

Environmental and Economic Considerations

Attendees inquired about the potential impact of the line to the watershed, both in terms of installation and future businesses that may open up. HPW clarified that the line is expected to primarily reside in the highway ROW which is already disturbed. The highway is already considered in the Peel Watershed Land Use Plan. Regarding businesses, HPW stated that any new business will have to go through the usual application process.

Attendees expressed that their preference would be to install the line on the right (east) side of the highway when travelling north. The rationale for this wasn't clarified.

Procurement Opportunities

Attendees asked about the benefits of the project. At that time, HPW moved conversation to the opportunities section of the presentation material. Attendees asked questions about a variety of elements of the procurement process, such as the tendering system in Yukon, timeline, and assistance to contractors for responding to the RFQ. HPW responded using presentation materials and articulated the procurement and tendering process including various way of assistance.

Participants drew attention to the fact that about 38% of the line would be in the NWT, and therefore, expect the opportunities to be shared with both territories. An attendee inquired whether splitting the contract into two parts was considered. HPW responded that this was indeed considered. However, the risks of interface issues and potential legal complications that may arise in a failure situation where more than one party was responsible for the line, were deterrents. Attendees expressed interest in seeing the procurement plan.

Conclusion

The community is very happy that HPW is in Fort McPherson to talk to them and previous meetings with other NWT communities. They would like to see this happen with other projects that affect the Gwich'in and their lands, not just when HPW is the proponent. The Gwich'in are pleased to see Hemmera working on this project as well. HPW will email a PDF copy of draft submissions to each of the DGOs and GTC as well as the presentation.