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December 18, 2019

Filed Electronically

Canada Energy Regulator
Suite 210, 517 Tenth Avenue SW
Calgary, AB T2R 0A8

Attention: Ms. L. George, Secretary of the Commission

Dear Ms. George:

**Re: NOVA Gas Transmission Ltd. (NGTL)
2017 NGTL System Expansion Project (Project)
Certificate GC-126 (Certificate)
Condition 5 – Commitment Tracking Table
File OF-Fac-Gas-N081-2014-20 02**

In accordance with Condition 5 of the Certificate, NGTL encloses the Commitment Tracking Table for the Project, which is filed quarterly until the end of the fifth year following commencement of Project operations.

The reporting period for this submission is March 31, 2015 to November 31, 2019. As required, NGTL has also posted the Project Commitment Tracking Table on TC Energy's external webpage for the Project at <https://www.tcenergy.com/operations/natural-gas/2017-ngtl-expansion/>.

If the CER requires additional information with respect to this filing, please contact me by phone at (403) 920-7942, or by email at tisha_homer@tcenergy.com.

Yours truly,
NOVA Gas Transmission Ltd.

Original signed by

Tisha Homer
Manager, Regulatory Facilities
Canadian Natural Gas Pipelines

Enclosure

cc. Heather Dodds, Canada Energy Regulator

2017 NGTL System Expansion Project – Commitment Tracking Table No. 25 (March 31, 2015 to November 31, 2019)										
Commitment Number	Commitment To	Category	Description of Commitment	Source	Document Reference (Exhibit, [NEB Filing ID])	Status/Estimated Timeline	Project Phase	Project Component	Comments	Accountability
1	GC-126 XG-N08-113-2016	Condition Compliance	Condition 1 NGTL must comply with all the Certificate conditions, unless the Boards otherwise directs.	Certificate GC-126	A80448	Complete	All Project phases	All	30-day Condition Compliance (signed by Accountable Officer) filed April 27, 2018 (A91545)	Project Managers, Regulatory Project Manager
2	GC-126	Engineering	Condition 2 NGTL must cause the Project to be designed, located, constructed, installed and operated in accordance with the specifications, standards, commitments made and other information included in or referred to in its Project Application on in its related submissions.	Certificate GC-126	A80448	Complete	All Project phases	All	30-day Condition Compliance (signed by Accountable Officer) filed April 27, 2018 (A91545)	Project Managers
3	GC-126 XG-N08-113-2016	Implementation of Environmental Protection	Condition 3 NGTL must implement or cause to be implemented all of the policies, practices, programs, mitigation measures, recommendations, procedures and its commitments for the protection of the environment included in or referred to in its Project Application or in its related submissions.	Certificate GC-126	A80448	Complete	All Project phases	All	30-day Condition Compliance (signed by Accountable Officer) filed April 27, 2018 (A91545)	Project Managers, Environmental Planners
4	GC-126	Sunset Clause	Condition 4 Unless the Board otherwise directs prior to two years from the date of the Certificate, the Certificate shall expire two years from the date of the Certificate, unless construction in respect of the Section 52 Facilities has commenced by that date.	Certificate GC-126	A80448	Complete	All Project phases	All	Construction on all Project components began January 20 and 21, 2017.	Project Managers
5	GC-126	Commitments Tracking Table	Condition 5 NGTL must: a) file with the Board and post on its Project website, and notify Aboriginal groups who have expressed to NGTL an interest in this filing, within 90 days of the Certificate date and at least 30 days prior to commencing construction of the Section 52 Facilities, a Commitments Tracking Table (CTT) listing all commitments made by NGTL in its Project Application or in its related submissions, including reference to: i) the documentation in which the commitment appears (for example, the Project Application, responses to information requests, hearing transcripts, permit requirements, condition filings, or other); ii) the accountable lead for implementing each commitment; and iii) the estimated timelines associated with the fulfillment of each commitment. b) update the status of the commitments in a) on its Project website, file these updates with the Board, and notify Aboriginal groups who have expressed to NGTL an interest in this filing on a: i) monthly basis until commencement of operation; and ii) quarterly basis thereafter until the end of the fifth (5th) year following the commencement of operation; and c) maintain at its construction office(s): i) the CTT listing all regulatory commitments and their completion status, including, but not limited to, those commitments resulting from NGTL's Project Application and subsequent filings and conditions from permits, authorizations and approvals; ii) copies of any permits, approvals or authorizations issued by federal, provincial or other permitting authorities, which include environmental conditions or site specific mitigation or monitoring measures; and iii) any subsequent variances to permits, approvals or authorizations in c) ii).	Certificate GC-126	A80448	In Progress To be filed on a quarterly basis until December 31, 2023 (end of fifth year following commencement of operations; Boundary Lake Section Phase II placed in-service March 2018)	All Project phases	All	The CTT contains both Section 58 and Section 52 activities in one version. Filed CTT for Condition 5 s.52 Facilities and Condition 6 s. 58 Facilities 1. October 17, 2016 (A80041) 2. November 15, 2016 (A80625) 3. December 15, 2016 (A81047) 4. January 16, 2017 (A511J3) 5. February 15, 2017 (A81747) 6. March 15, 2017 (A5J4Y5) 7. April 17, 2017 (A5K4T1) 8. May 15, 2017 (A83574) 9. June 15, 2017 (A84426) 10. July 17, 2017 (A84985) 11. August 15, 2017 (A85480) 12. September 15, 2017 (A86044) 13. October 16, 2017 (A5V6I9) 14. November 15, 2017 (A87842) 15. December 15, 2017 (A88678) 16. January 15, 2018 (A89220) 17. February 15, 2018 (A90008) 18. March 16, 2018 (A90622) 19. June 8, 2018 (A92394) 20. September 17, 2018 (A94051) 21. December 17, 2018 (A96721) 22. March 18, 2019 (A98368) 23. June 17, 2019 (A99991) <u>24. September 16, 2019 (C01668)</u> Interested Aboriginal groups are notified each month following the filing of the most recent CTT.	All disciplines

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6	GC-126	Environmental Protection Plan (EPP)	<p>Condition 6</p> <p>NGTL must file with the Board for approval, at least 60 days prior to commencing construction, an updated EPP specific to the Section 52 Facilities of the Project that includes, but is not limited to, the following:</p> <ul style="list-style-type: none">a) environmental protection procedures (including site-specific plans), criteria for implementing these procedures, mitigation measures and monitoring applicable to all Project phases and activities;b) a reclamation plan, which includes a description of the condition to which NGTL intends to reclaim and maintain the rights-of-way, once construction has been completed, and a description of measurable goals for reclamation;c) a list of measures to be taken during construction to minimize disturbance to caribou and caribou habitat and help accelerate habitat restoration, including:<ul style="list-style-type: none">i) any provincial and federal best practices, requirements and timing restrictions specifically related to minimizing construction disturbance; andii) the criteria for where those measures will be taken.d) all specific mitigation related to species at risk and their habitat, Key Wildlife and Biodiversity Zones, trumpeter swan waterbodies, Grizzly Bear Secondary Areas and Special Access Zones;e) updated environmental alignment sheets; andf) evidence demonstrating that consultation took place with relevant government authorities, where applicable. <p>The EPP must be a comprehensive compilation of all environmental protection procedures, mitigation measures, and monitoring commitments, as set out in NGTL's Project Application, subsequent filings, or as otherwise agreed to through the hearing process. The EPP must describe the criteria for the implementation of all procedures and measures, and must use clear and unambiguous language that confirms NGTL's intention to implement all of its commitments. Construction must not commence until NGTL has received approval of its EPP from the Board.</p>	Certificate GC-126	A80448	Complete	Project Planning Pre-construction	All	<p>Final EPPs and Environmental Alignment Sheets filed September 7, 2016 (A79329).</p> <p>Updated EPP and Environmental Alignment Sheets for the Pelican Lake Section filed October 14, 2016 (A5F9T2; A5F9T3)</p> <p>Responses to NEB IR 1 regarding the EPPs filed November 15, 2016 (A80620)</p> <p>NEB issued approval November 16, 2016 (A80666)</p> <p>Updated EPP (to include trenchless watercourse crossings) for the McLeod River Section filed March 8, 2017 (A82011)</p>	Environmental Planners
7	GC-126	Revised Caribou Habitat Restoration and Offset Measures Plan (CHR&OMP)	<p>Condition 7</p> <p>NGTL must file a revised version of the CHR&OMP with the Board for approval, and notify Aboriginal groups who have expressed to NGTL an interest in this filing, at least 60 days prior to commencing construction, for areas of the Project in critical caribou habitat in the Boundary Lake and Pelican Lake Sections. The updated version of the CHR&OMP is to include revisions based on evidence collected during the hearing process; notably, details relevant to the implementation of restoration measures and estimates provided in NGTL's responses to information requests. The filing is also to provide a listing or revision log of the updates made, the reference where they can be found in the revised CHR&OMP, as well as their reference from the hearing evidence.</p> <p>NGTL must provide a copy of the filing to Environment and Climate Change Canada and also to the appropriate provincial authorities.</p>	Certificate GC-126	A80448	Complete	Project Planning Pre-construction	Boundary Lake Section Pelican Lake Section	<p>Revised CHR&OMP filed September 1, 2016 (A79253).</p> <p>Notifications of filing to Aboriginal groups completed by September 14, 2016.</p> <p>Notification of filing submitted to ECCC and provincial authorities September 29, 2016.</p> <p>NEB issued approval December 8, 2016 (A80969)</p>	Environmental Planners

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8	GC-126	Outstanding Traditional Land Use Investigations	Condition 8 NGTL must, at least 60 days prior to commencing construction, file with the Board for approval, and send copies to the Aboriginal groups included in its consultation activities, a report on any outstanding traditional land use (TLU) investigations for the Project. The report must include, but is not limited to: a) a summary of the status of TLU investigations undertaken for the Project, including Aboriginal group-specific TLU studies or planned supplemental surveys; b) a description of how NGTL has considered and addressed information from any TLU investigations on which it did not report during the GH-002-2015 proceeding; c) a description of any outstanding concerns raised by potentially-affected Aboriginal groups regarding potential effects of the Project on the current use of lands and resources for traditional purposes, including a description of how these concerns have been or will be addressed by NGTL; d) a summary of any outstanding TLU investigations or follow-up activities that will not be completed prior to commencing construction, including an estimated completion date, if applicable, and a description of how NGTL has already identified, or will identify, any potentially-affected TLU sites or resources if the outstanding investigations will not be completed prior to construction; and e) a description of how NGTL has incorporated any revisions into the TLU Site Discovery Contingency Plan.	Certificate GC-126	A80448	Complete	Project Planning Pre-construction	All	Report on Outstanding TLU Investigations filed September 1, 2016 (A5E8W9). Notifications of filing to Aboriginal groups completed by September 9, 2016 NEB approval issued December 1, 2016 (A80887)	Indigenous Relations Engagement Leads
9	GC-126	Emergency Response Plan for Construction	Condition 9 NGTL must file with the Board, at least 45 days prior to commencing construction, the Project-specific Emergency Response Plan that would be implemented during the construction phase of the Project. The plan must include spill contingency measures that NGTL will employ in response to accidental spills attributable to construction activities, 24-hour medical evacuation, fire response, and security.	Certificate GC-126	A80448	Complete	Project Planning Pre-construction	All	Emergency Response Plans filed September 28, 2016 (via courier) for the following components: <ul style="list-style-type: none">• Boundary Lake Section• Bear Canyon Section• McLeod River Section• Pelican Lake Section Emergency Response Plan filed November 1, 2016 (via courier) for the Christina River Section. Emergency Response Plan filed November 7, 2016 (via courier) for the Otter Lake Unit Addition. Emergency Response Plans for the Alces River Unit and Updated ERP for Otter Lake filed (via courier) on November 23, 2016.	Project Managers
10	GC-126	Heritage Resources	Condition 10 NGTL must file with the Board, at least 30 days prior to commencing construction: a) for each of the Project pipeline sections, confirmation, signed by an officer of the company, that it has obtained all of the required archeological and heritage resource permits and clearances from the relevant provincial authorities; b) a description of how NGTL will meet any conditions and respond to any comments and recommendations contained in the permits and clearances referred to in a) above; and c) a description of how NGTL has incorporated any additional mitigation measures into its Environmental Protection Plans as a result of any conditions or recommendations referred to in b).	Certificate GC-126	A80448	Complete	Project Planning Pre-construction	All	Information on Heritage Resources clearances filed October 14, 2016 (A79986)	Environmental Planners

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11	GC-126	Reclamation Plan for Temporary Workspace in the K'ih tsaa'dze Tribal Park (KTP)	Condition 11 NGTL must file with the Board, 30 days prior to commencing construction of the Section 52 Facilities, a Reclamation Plan to enhance the regeneration of vegetation in the temporary workspace in the KTP that includes: a) a description of the goals for reclamation, including the condition to which NGTL intends to return all or part of the temporary workspace; and b) confirmation that the status of reclamation will be reported in Post-Construction Monitoring Reports.	Certificate GC-126	A80448	Complete	Project Planning Pre-construction	Boundary Lake Section	Filed November 21, 2016 (A80697)	Environmental Planners
12	GC-126	Plan for Aboriginal Participation in Monitoring Construction Activities	Condition 12 NGTL must file with the Board, and serve a copy on those Aboriginal groups identified in b), at least 30 days prior to commencing construction, a plan describing participation by Aboriginal groups in monitoring Project construction activities. The plan must include: a) a list of the Aboriginal groups engaged concerning participation in monitoring during construction; b) a list of those Aboriginal groups, if any, who have reached agreement with NGTL to participate as monitors during construction; c) a description of the scope, methodology, and measures for monitoring activities to be undertaken by each participating Aboriginal group identified in b), including: i) a summary of engagement activities undertaken with participating Aboriginal groups to determine the proposed scope, methodology, and measures for monitoring; ii) those elements of construction and geographic locations that will involve Aboriginal monitoring; iii) a description of how information gathered through the participation of Aboriginal monitors will be used by NGTL; and iv) a description of how information gathered through the participation of Aboriginal monitors will be provided to participating Aboriginal groups.	Certificate GC-126	A80448	Complete	Project Planning Pre-construction	All	Filed November 23, 2016 (A80759). NGTL notified Aboriginal Groups of the filing on November 25, 2016.	Project Managers, Indigenous Relations Contracts Advisors, Construction Managers
13	GC-126	Aboriginal Engagement Reports	Condition 13 NGTL must file with the Board, at least 30 days prior to commencing construction of the Section 52 Facilities, and every six months thereafter until completing construction, a report summarizing NGTL's engagement with all potentially affected Aboriginal groups identified. These reports must include: a) a summary of the concerns raised by Aboriginal groups; b) a description of how NGTL has addressed or will address the concerns raised; c) a description of any outstanding concerns; and d) a description of how NGTL intends to address any outstanding concerns, or an explanation as to why no further steps will be taken.	Certificate GC-126	A80448	Complete	Project Planning Pre-construction	All	Filed November 23, 2016 (A80760). Updated Engagement Report filed May 24, 2017 (A83734). Updated Engagement Report filed November 23, 2017 (A88115)	Indigenous Relations Engagement Leads
14	GC-126	Update on Consultation Regarding Construction Noise Mitigation	Condition 14 NGTL must file with the Board, at least 30 days prior to commencing construction, an update regarding construction noise mitigation, including: a) a summary of consultation activities with the residents living within 200 metres of the Bear Canyon Section, the residents living within 350 metres of the direct pipe installation under Highway 16 on the McLeod River Section, and the owners of the two potentially affected seasonal cabins on the Pelican Lake Section; and b) a summary of the need for, and selection of, appropriate mitigation to address any concerns regarding construction noise.	Certificate GC-126	A80448	Complete	Project Planning Pre-construction	Bear Canyon Section Pelican Lake Section McLeod River Section	Update on consultations regarding construction noise mitigation filed November 15, 2016 (A5G9X0).	Land Representative, Project Managers

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15	GC-126	Programs and Manuals	<p>Condition 15</p> <p>NGTL must file the following programs and manuals with the Board, and notify Aboriginal Groups who have expressed to NGTL an interest in these filings, within the time specified:</p> <p>a) updated Construction Safety Manual(s), pursuant to section 20 of the National Energy Board Onshore Pipeline Regulations (OPR): at least 14 days prior to construction;</p> <p>b) Field Joining Program: at least 14 days prior to the commencement of joining activity;</p> <p>c) Field Pressure Testing Program: at least 14 days prior to the commencement of pressure testing;</p> <p>d) Operation and Maintenance Manual: at least 14 days prior to the commencement of operation; and</p> <p>e) confirmation that the existing Emergency Procedures Manual(s) are inclusive of the Project or confirmation the existing Emergency Procedures Manual(s) do not require updating: at least 14 days prior to the commencement of operation.</p>	Certificate GC-126	A80448	Complete	Project Planning Pre-construction	All	<p>Construction Safety Manuals (filed by courier):</p> <ul style="list-style-type: none">Alces River Unit Addition – December 14, 2016McLeod River Section – December 21, 2016Otter Lake Unit Addition – December 28, 2016 <p>NGTL filed a letter on December 21, 2016 (by courier) indicating that no revised/updated Construction Safety Manuals would be filed for the following pipeline Sections as the previously filed Construction Safety Manuals were applicable to both Section 58 and Section 52 activities:</p> <ul style="list-style-type: none">Boundary Lake SectionBear Canyon SectionPelican Lake SectionChristina Lake Section <p>Interested Aboriginal groups were notified of the filings beginning November 7, 2016 (see Commitment No. 39 below), and ending January 10, 2017 (notification of all items filed in December 2016).</p> <p>Field Joining Programs:</p> <p>Filed December 30, 2016 (A81175):</p> <ul style="list-style-type: none">Boundary Lake Section -Bear Canyon SectionPelican Lake SectionChristina River Section <p>McLeod River Section – January 6, 2017 (A81216)</p> <p>Otter Lake Unit Addition – January 23, 2017 (filed by courier)</p> <p>Alces River Unit Addition – February 28, 2017 (filed by courier)</p> <p>Updated WPDS for Boundary Lake & Bear Canyon Section filed February 17, 2017 (A81786)</p> <p>Field Pressure Testing Programs:</p> <p>On January 17, 2017, NGTL filed a letter (NEB Filing ID: A81326) indicating that it would not be filing stand-alone Field Pressure Testing Programs for the Project components, but relies on the filed Hydrostatic Testing Plan for each component, as well as TransCanada PipeLines Limited's specification for pressure testing, which is on file with the Board.¹</p> <p>Letter filed regarding O&M Manuals and Confirmation of Emergency Procedures Manual on October 4, 2017 (A86564).</p>	Project Managers, Indigenous Relations Engagement Leads, Construction Managers

¹ Hydrostatic Testing Plans: NEB Filing IDs: A81162, 81163, 81165, 81195 and 81176). TransCanada specification referenced is TES-HYDRO-CDN.

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16	GC-126	Construction Schedule	Condition 16 NGTL must file with the Board, at least 14 days prior to commencing construction of the Project, a detailed construction schedule(s) identifying major construction activities, and must notify the Board of any modifications to the schedule(s) as they occur.	Certificate GC-126	A80448	Complete	Project Planning Pre-construction	All	Construction Schedules filed December 28, 2016 for all Project components (A81165) NGTL filed the response to the NEB’s IR No. 1 regarding the Boundary Lake Section construction schedule on January 16, 2017 (A81309) NGTL filed an updated construction schedule for the Boundary Lake Section on March 31, 2017 (A5V0V2)	Project Managers, Construction Managers
17	GC-126	Final Pipe Specifications	Condition 17 NGTL must file with the Board, at least 14 days prior to commencing construction, NGTL’s final Pipeline Construction Specifications.	Certificate GC-126	A80448	Complete	Project Planning Pre-construction	All pipeline components	Final Pipeline Specifications filed December 30, 2016 (A81172) Information Request responses filed by NGTL January 24, 2017 (A81438) and February 3, 2017 (A81633)	Project Engineers
18	GC-126	Construction Progress Reports	Condition 18 NGTL must file with the Board, and notify Aboriginal groups who have expressed to NGTL an interest in this filing, by the middle and end of each month during construction of the Section 52 Facilities, construction progress reports. The reports must include information on the activities carried out during the reporting period; any environmental, socio-economic, safety and security issues and issues of non-compliance; and the measures undertaken for the resolution of each issue and non-compliance. Each construction progress report filed for the Boundary Lake and Pelican Lake Sections of the Project must also include: a) an update as to which construction activities are on schedule or delayed with respect to the construction schedule filed with the Board during the hearing process; and b) a description of what additional measures will be implemented to remain on schedule to complete construction outside of the caribou critical timing window.	Certificate GC-126	A80448	Complete	Project Construction	All	Construction Progress Reports filed: <ul style="list-style-type: none">January 31, 2017 (A81568)February 15, 2017 (A81747)February 28, 2017 (A81897)March 15, 2017 (A82092)March 31, 2017 (A82406)April 17, 2017 (A82647)April 28, 2017 (A83007)May 15, 2017 (A83576)May 31, 2017 (A84081)June 15, 2017 (A84427)June 30, 2017 (A84732)July 17, 2017 (A84986)July 31, 2017 (A85231)August 15, 2017 (A85478)August 31, 2017 (A85748)September 15, 2017 (A86042)September 29, 2017 (A86375)October 16, 2017 (A86917)October 31, 2017 (A87418)November 15, 2017 (A87841)November 30, 2017 (A88296)December 15, 2017 (A88675)December 29, 2017 (A88919)January 15, 2018 (A89221)January 31, 2018 (A89720)February 15, 2018 (A90009)February 28, 2018 (A90285)March 15, 2018 (A90583)March 29, 2018 (A90934) Interested Aboriginal groups are notified each month following the filing of the bi-weekly construction progress reports.	Project Managers, Construction Managers, Indigenous Relations Engagement Leads

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19	GC-126	Horizontal Directional Drilling and Microtunneling	Condition 19 NGTL must file with the Board, at least 60 days before commencement of horizontal directional drilling and microtunneling, NGTL's horizontal directional drilling and microtunneling execution programs.	Certificate GC-126	A80448	Complete	Project Construction	Boundary Lake Section McLeod River Section Pelican Lake Section Christina River Section	HDD Execution Plans filed: <ul style="list-style-type: none">Pelican Lake Section (November 1, 2016; A5G6C5)Christina River Section (November 7, 2016; A80460) Direct Pipe Installation execution plan filed for the McLeod River Section on November 22, 2016 (A80731) HDD Execution Plan for the Boundary Lake Section filed October 19, 2017 (A87013)	Project Managers, Project Engineers, Construction Managers
20	GC-126	Cathodic Protection	Condition 20 NGTL must file with the Board, at least 14 days prior to installing cathodic protection in wetland areas, a detailed description of the specific measures NGTL will implement to ensure cathodic protection is adequately maintained under the concrete coating or weights in wetland areas.	Certificate GC-126	A80448	Complete	Project Construction	All pipeline components	Filed December 14, 2016 (A5H6A8)	Project Engineers, Construction Managers
21	GC-126	Slope and Bank Failures	Condition 21 NGTL must file with the Board, at least 14 days prior to commencing geotechnical work, a detailed description and the scope of the mitigation necessary to protect the Project facilities and the rights-of-way; and to prevent future bank or slope failures.	Certificate GC-126	A80448	Complete	Project Construction	All pipeline components	Filed December 8, 2016 (A5H5H2)	Project Managers, Environmental Planners, Construction Managers
22	GC-126	Watercourse Crossing Inventory	Condition 22 NGTL must file with the Board, at least 60 days prior to commencing any watercourse crossing construction activities, the following: a) an updated inventory of all watercourses to be crossed, including, for each crossing: i) the name of the watercourse being crossed and an identifier for the crossing; ii) the location of the crossing; iii) the primary and contingency crossing methods; iv) planned construction timing; v) information on the presence of fish and fish habitat; vi) the restricted activity period; vii) an indication of whether any of Fisheries and Oceans Canada's applicable "Measures to Avoid Causing Harm to Fish and Fish Habitat" cannot be implemented; b) detailed generic design drawings of trenchless, dry open-cut, frozen open-cut, and isolation crossings of various watercourse types; c) site-specific information for each watercourse crossing where any of Fisheries and Oceans Canada's applicable "Measures to Avoid Causing Harm to Fish and Fish Habitat" cannot be implemented for the primary watercourse construction method: i) detailed crossing-specific engineered design drawings; ii) photographs up-stream, down-stream, and at the crossing location; iii) a description of the fish species and habitat that is present at the crossing location, and if fish spawning is likely to occur within the immediate area; iv) a description of the composition of the riparian habitat at the crossing location and an indication if the riparian habitat has a limiting effect on the productive capacity of the watercourse, and if its removal or disturbance represents a potential influence on fish communities;	Certificate GC-126	A80448	Complete	Project Construction	All pipeline components	Watercourse Crossing Inventory filed September 1, 2016 (A5E8U9) Information Request responses to NEB IR No. 1 filed December 5, 2016 (A80911) Updated Watercourse Crossing Inventory (Christina River Section) filed December 21, 2016 (A81114) Updated Watercourse Crossing Inventories (McLeod River and Christina River Sections) filed March 8, 2017 (A82011) Updated Watercourse Crossing Inventory (Boundary Lake Section) filed April 17, 2017 (A82642) Updated Watercourse Crossing Inventory (Boundary Lake Section) filed December 15, 2017 (A88680)	Project Managers, Project Engineers, Environmental Planners

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22 (cont'd)			v) the site-specific mitigation and habitat enhancement measures to be used to minimize impacts; vi) any potential residual effects; vii) proposed reclamation measures; and viii) a discussion of the potential impacts to local fisheries resources within the immediate area as a result of the crossing's construction.							
23	GC-126	Authorizations Under Paragraph 35(2)(b) of the Fisheries Act	Condition 23 a) For any watercourse crossings that will require Authorization under paragraph 35(2)(b) of the Fisheries Act, NGTL must file with the Board, at least 10 days prior to commencing the respective instream activities, a copy of the Authorization under paragraph 35(2)(b) of the Fisheries Act; and b) NGTL must confirm, within 30 days after commencing operations, that any required Fisheries Act Authorizations were obtained from Fisheries and Oceans Canada and filed with the Board pursuant to a), or notify the Board if no Authorizations were required.	Certificate GC-126	A80448	Complete – not required	Project Construction	All pipeline components	NGTL did not require any Fisheries Act approvals for the Project.	Environmental Planners
23	GC-126	Contingency Watercourse Crossings	Condition 24 a) For any watercourse crossing where NGTL will employ a contingency crossing method instead of its proposed primary method, and where any of Fisheries and Oceans Canada's applicable "Measures to Avoid Causing Harm to Fish and Fish Habitat" cannot be implemented, NGTL must file with the Board at least 30 days prior to commencing construction of the contingency watercourse crossing: i) confirmation of the contingency watercourse crossing method that will be employed, the rationale for employing that method, and a summary of the differences between the primary and contingency watercourse crossing methods; and ii) the following site-specific information: i. detailed crossing-specific engineered design drawings; ii. photographs upstream, downstream, and at the crossing location; iii. a description of the fish species and habitat that is present at the crossing location, and if fish spawning is likely to occur within the immediate area; iv. the site-specific mitigation and habitat enhancement measures to be used to minimize impacts; v. any potential residual effects; vi. proposed reclamation measures; and vii. a discussion of the potential impacts to local fisheries resources within the immediate area as a result of the crossing's construction. b) For all other instances where a contingency crossing method will be employed and all of Fisheries and Oceans Canada's applicable "Measures to Avoid Causing Harm to Fish and Fish Habitat" will be implemented, NGTL must file with the Board a notification, at least 15 days prior to commencing the contingency crossing, that the contingency method will be employed. With this notification, NGTL must explain why the contingency method is being employed and provide a summary of the differences between the primary and contingency watercourse crossing methods. c) NGTL must confirm, within 30 days after commencing operations, that any contingency watercourse crossing(s) identified to the Board pursuant to a) and b) were the only contingency watercourse crossing(s) implemented for the construction of the pipeline.	Certificate GC-126	A80448	Complete – not required	Project Construction	All pipeline components	NGTL does not anticipate any contingency watercourse installations	Project Managers, Project Engineers, Environmental Planners, Construction Managers

2017 NGTL System Expansion Project – Commitment Tracking Table No. 25 (March 31, 2015 to November 31, 2019)										
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24	GC-126	Hydrostatic Testing Plan	Condition 25 NGTL must file with the Board, at least 30 days prior to pressure testing, a Hydrostatic Testing Plan for the Project that includes: a) details of the location(s) of water withdrawal and discharge, and how these were selected; b) clearing activities or any other associated works, if required, to allow for access to or transport of the hydrostatic test water to and from the Project facilities; c) the rate(s) and volume(s) of water withdrawal; d) the flow rate/volume of water at withdrawal location(s); e) the volume(s) and rate(s) of water discharge; f) site-specific mitigation measures to be used for the water withdrawal and discharge locations, or at any other locations required for hydrostatic test water; and g) any applicable provincial authorizations and mitigation requirements.	Certificate GC-126	A80448	Complete	Construction	All	Hydrostatic Testing Plans filed: <ul style="list-style-type: none">Boundary Lake Section – December 23, 2016 (A81162)Bear Canyon Section – December 27, 2016 (A81163)McLeod River Section – December 28, 2016 (A81166) - pretesting planChristina River Section – January 3, 2017 (A81176)Pelican Lake Section – January 5, 2017 (A81195)McLeod River Section – March 17, 2017 (A82136) – mainline testing planAlces River Unit Addition – May 30, 2017 (A83932)Otter Lake Unit Addition – May 30, 2017 (A83932) Revised Hydrostatic Test Plans filed: <ul style="list-style-type: none">McLeod River Section – January 19, 2017 (A81363)Pelican Lake Section – March 14, 2017 (A82062)Pelican Lake Section – April 6, 2017 (A82472)McLeod River Section – April 28, 2017 (A82990)Boundary Lake Section (second season of construction) – January 12, 2018 (A89162)	Project Engineers, Construction Managers
25	GC-126	Welding and Non-Destructive Examination Procedures	Condition 26 NGTL must, during construction, maintain at each construction site: a) a copy of the welding procedures; b) a copy of the applicable non-destructive examination and testing procedures used on the Project; and c) all supporting documentation related to non-destructive testing.	Certificate GC-126	A80448	Complete	Project Construction	All	Copies of applicable welding procedures are located at all construction site offices.	Construction Managers
26	GC-126	Geotechnical Report Regarding Slope Stability	Condition 27 NGTL must file with the Board, within 90 days of the completion of construction, a geotechnical report which includes: a) geotechnical observations; b) field recommendations; c) how NGTL implemented the field recommendations during construction of the Project; d) location of trench breakers, drainage and erosion control measures; e) all of the slope stabilization techniques implemented; f) recommendations with respect to follow-up monitoring, notably at locations where inactive slide areas have been noted; g) a plan to follow up on the recommendations made in f); and h) a rationale for circumstances where field or other recommendations have not been implemented.	Certificate GC-126	A80448	Complete	Post Construction	All pipeline components	Geotechnical Reports filed September 25, 2017 for the following components (A86270): <ul style="list-style-type: none">Bear Canyon SectionMcLeod River SectionPelican Lake SectionChristina River Section Geotechnical Reports filed June 28, 2018 for Boundary Lake Section (A92752).	Project Engineers, Construction Managers

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Commitment Number	Commitment To	Category	Description of Commitment	Source	Document Reference (Exhibit, [NEB Filing ID])	Status/Estimated Timeline	Project Phase	Project Component	Comments	Accountability
27	GC-126	Geotechnical Report Regarding Muskeg	Condition 28 NGTL must file with the Board, within 90 days of the completion of construction, a geotechnical report which includes, but is not limited to: a) muskeg observations; b) field recommendations; c) how NGTL implemented the field recommendations during construction of the Project; d) recommendations with respect to follow-up monitoring; e) a plan to follow up on the recommendations made; and f) a rationale for any instance where recommendations have not been implemented.	Certificate GC-126	A80448	Complete	Post Construction	All pipeline components	Geotechnical Reports filed September 25, 2017 for the following components (A86270): <ul style="list-style-type: none">Bear Canyon SectionMcLeod River SectionPelican Lake SectionChristina River Section Geotechnical Reports filed June 28, 2018 for the Boundary Lake Section (A92752).	Project Engineers, Construction Managers
28	GC-126	Geotechnical Report Regarding Permafrost	Condition 29 NGTL must file with the Board, within 90 days of the completion of construction, a geotechnical report which includes, but is not limited to: a) permafrost observations; b) field recommendations; c) how NGTL implemented the field recommendations during construction of the Project; d) recommendations with respect to follow-up monitoring; e) a plan to follow up on the recommendations made; and f) a rationale for any instance where recommendations have not been implemented.	Certificate GC-126	A80448	Complete	Post Construction	All pipeline components	Geotechnical Reports filed September 25, 2017 for the following components (A86270): <ul style="list-style-type: none">Bear Canyon SectionMcLeod River SectionPelican Lake SectionChristina River Section Geotechnical Reports filed June 28, 2018 for the Boundary Lake Section (A92752).	Project Engineers, Construction Managers
29	GC-126	Pipeline Geographic Information System (GIS) Data	Condition 30 NGTL must provide to the Board, within 1 year after commencing operations, GIS data in the form of an Esri shapefile that contains pipeline segment centre lines, where each segment has a unique outside diameter, wall thickness, maximum operating pressure, external coating, field applied girth weld coating, and pipe manufacturing specification. If the above values of the pipeline change at any point along the length of the pipeline, the pipeline should be segmented at that point. NGTL must also provide GIS locations and names of facilities such as compressor stations, meter stations, launcher and receiver facilities, and block valves, as applicable. The datum must be NAD83 and projection must be geographic (latitude and longitude).	Certificate GC-126	A80448	Complete	Operations	All pipeline components	Pipeline GIS information submitted by courier on March 29, 2019.	Project Engineers

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Commitment Number	Commitment To	Category	Description of Commitment	Source	Document Reference (Exhibit, [NEB Filing ID])	Status/Estimated Timeline	Project Phase	Project Component	Comments	Accountability
30	GC-126	Caribou Habitat Restoration Implementation Report and Status Update	<p>Condition 31</p> <p>NGTL must file with the Board for approval, and notify Aboriginal groups who have expressed to NGTL an interest in this filing, an implementation report and status update for the habitat restoration measures implemented on the Project rights-of-way on or before 1 July after the implementation of rights-of-way habitat restoration measures, for areas of the Project in critical caribou habitat in the Boundary Lake and Pelican Lake Sections. The implementation and status update must include, but is not limited to:</p> <ul style="list-style-type: none">a) a table of caribou habitat restoration measures implemented including, their location on the rights-of-way, their distance or spatial extent, the site specific method applied at each location, a description of the adjacent off-rights-of-way habitat, as well as any site specific challenges;b) updated Environmental Alignment Sheets showing the types of measures implemented and at what locations;c) a quantitative assessment and populated tables of the total remaining disturbance (direct and indirect) that was carried into the initial offset value (IOV) calculation, including the disturbance before restoration, the restored footprint and the total remaining disturbance;d) updates to consultation logs;e) offset measures planning status; andf) updates or considerations, if any, from relevant Provincial range or action plans. <p>NGTL must provide a copy of the filing to Environment and Climate Change Canada and also the appropriate provincial authorities.</p>	Certificate GC-126	A80448	<p>In Progress</p> <p>NGTL will file the implementation reports and status update once all implementation measures are complete.</p>	Operations	Boundary Lake Section Pelican Lake Section	<p>Boundary Lake Section: clean-up activities completed Q1 2019. Access management measures have been installed. RoW planting was completed in summer 2019 (except for black spruce). Off-set planning is complete – off-set restoration execution planned for 2020. Black spruce planting will be done in the summer of 2020.</p> <p>Pelican Lake Section: Tree-planting and off-set planning activities completed in 2018. Offsets: NGTL will execute access management the winter of 2019/20 and complete tree planting in the summer of 2020.</p>	Environmental Planners, Indigenous Relations Engagement Leads, Project Managers
31	GC-126	Caribou Habitat Restoration and Offset Measures Monitoring Program (CHROMMP)	<p>Condition 32</p> <p>NGTL must file with the Board for approval, and notify Aboriginal groups who have expressed to NGTL an interest in this filing, on or before 1 November after the first complete growing season, a final Program for monitoring and verifying the effectiveness of the caribou habitat restoration and offset measures implemented as part of the CHRP and OMP. This CHROMMP must include, but not be limited to:</p> <ul style="list-style-type: none">a) the scientific methodology and protocols for short-term and long-term monitoring of the restoration and offset measures, including the appropriate duration of monitoring for each type of measure implemented;b) sufficient sampling and control locations to provide statistical validity for each measure, accounting for ecological conditions;c) frequency, timing, locations and the rationale for each monitoring;d) protocols for how restoration and offset measures will be adapted, as required, based on the monitoring results from either this Program or other NGTL Caribou Habitat Restoration and Offset Measures Monitoring Plans or Programs;e) a quantitative assessment that demonstrates how the previously calculated residual effects have been offset by the measures implemented, to be updated in each report based on monitoring results; andf) a schedule for filing reports of monitoring results and the adaptive management responses, to the Board, Environment and Climate Change Canada and provincial authorities to be contained in the CHROMMP as well as at the beginning of each report filed.	Certificate GC-126	A80448	<p>In Progress</p> <p>As per schedule communicated in CHR&OMP, NGTL anticipates filing for approval by November 2020.</p>	Operations	Boundary Lake Section Pelican Lake Section		Environmental Planners, Indigenous Relations Engagement Leads, Project Managers

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Commitment Number	Commitment To	Category	Description of Commitment	Source	Document Reference (Exhibit, [NEB Filing ID])	Status/Estimated Timeline	Project Phase	Project Component	Comments	Accountability
32	GC-126	Caribou Monitoring Reports	Condition 33 NGTL must file with the Board for approval, based on the schedule referred to in the Caribou Habitat Restoration and Offset Measures Monitoring Program (CHROMMP), a report(s) outlining the results of the CHROMMP. NGTL must also notify Aboriginal groups who have expressed to NGTL an interest in this filing when the filings are available.	Certificate GC-126	A80448	In Progress See comments box for updated schedules	Operations	Boundary Lake Section Pelican Lake Section	<ul style="list-style-type: none">Submission of Caribou Habitat Restoration Implementation Report and Status Update (Condition 31): upon completion of all implementation measures.Submission of CHROMMP (Condition 32): November 1, 2021Implementation of Direct Offset Measures: 2019 – 2020 (Pelican Lake Section) and 2020 - 2021 (Boundary Lake Section)Submission of Caribou Habitat Offset Measures Implementation Report (Condition 34): March 31, 2021 (Boundary Lake and Pelican Lake Section)Submission of first Caribou Monitoring Report (Condition 33) Q1 2022 (Pelican) and 2023 (Boundary)	Environmental Planners, Indigenous Relations Engagement Leads
33	GC-126	Caribou Habitat Offset Measures Implementation Report	Condition 34 NGTL must file with the Board for approval, and notify Aboriginal groups who have expressed to NGTL an interest in this filing, a Caribou Habitat Offset Measures Implementation Report demonstrating how all Project related residual effects from directly and indirectly disturbed caribou habitat have been offset. This implementation report must be filed on or before 31 March after the implementation of offset measures and must include: a) an inventory of what measures were implemented, at what map locations, for what distance or spatial area, and on what type of previous disturbance (e.g., type, width, age, condition); b) a description of factors considered when determining the location for offset measures, including consideration of both site-specific factors, landscape-level factors and how the selected locations optimized landscape restoration or preservation; c) how the measures at those locations met the Offset Measures Plan criteria for offsets; d) a quantitative assessment of the final offset value (FOV) calculations, based on the revised CHR&OMP and inventory of measures implemented from (a), and demonstrating how the offset measures have offset the previously calculated residual effects; and e) evidence of how consultation feedback was integrated into the implementation of offsets, including: i) any feedback from provincial authorities and ii) any potentially affected Aboriginal groups where the offset measures may be implemented.NGTL must provide a copy of the filing to Environment and Climate Change Canada and also the appropriate provincial authorities.	Certificate GC-126	A80448	In Progress NGTL anticipates submitting Caribou Habitat Offset Measures Implementation Report (Condition 34) by March 31, 2021 for the Boundary Lake and Pelican Lake Sections.	Operations	Boundary Lake Section Pelican Lake Section		Environmental Planners, Indigenous Relations Engagement Leads
34	GC-126	Condition Compliance by the Accountable Officer	Condition 35 Within 30 days of the date that the approved Section 52 Facilities of the Project are placed in service, NGTL must file with the Board a confirmation that the Section 52 Facilities were completed and constructed in compliance with all applicable conditions in this Certificate. If compliance with any of these conditions cannot be confirmed, NGTL must file with the Board details as to why compliance cannot be confirmed. The filing required by this condition must include a statement confirming that the signatory to the filing is the accountable officer of NGTL, appointed as Accountable Officer pursuant to section 6.2 of the OPR.	Certificate GC-126	A80448	Complete	Operations	All	30-day Condition Compliance (signed by Accountable Officer) filed April 27, 2018 (A91545)	Regulatory Project Manager

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Commitment Number	Commitment To	Category	Description of Commitment	Source	Document Reference (Exhibit, [NEB Filing ID])	Status/Estimated Timeline	Project Phase	Project Component	Comments	Accountability
35	GC-126	Post-Construction Monitoring Reports	<p>Condition 36</p> <p>On or before 31 January after each of the first, third and fifth complete growing seasons after final clean-up, NGTL must file with the Board, a post-construction environmental monitoring report that:</p> <ul style="list-style-type: none">a) describes the methodology used for monitoring, the criteria established for evaluating success and the results found;b) identifies any modifications for the criteria established for evaluating reclamation success described in its EPP, as approved by the Board, and the rationale for any modifications;c) identifies the issues to be monitored, including but not limited to unexpected issues that arose during construction, and their locations (e.g., on a map or diagram, in a table);d) describes the current status of the issues (resolved or unresolved), any deviations from plans and corrective actions undertaken;e) assesses the effectiveness of the mitigation (planned and corrective) measures applied against the criteria for success;f) includes details of consultation undertaken with the appropriate provincial and federal authorities;g) provides proposed measures and the schedule that NGTL would implement to address ongoing issues or concerns; andh) includes confirmation that NGTL has notified Aboriginal groups who have expressed to NGTL an interest in this filing. <p>The report must include, but is not limited to, information specific to the effectiveness of mitigation applied to minimize effects to: soils, weeds, watercourse crossings, wetlands, rare plants, wildlife and wildlife habitat, wildlife species at risk and of special concern, including western toad habitat and caribou habitat, fish and fish habitat, Key Wildlife and Biodiversity Zones, trumpeter swan waterbodies, Grizzly Bear Secondary Area, Special Access Zones, and any activities associated with the hydrostatic testing plan.</p> <p>NGTL must also include an evaluation of the effectiveness of the access control measures.</p>	Certificate GC-126	A80448	In Progress	Operations	All pipeline components	<p>First year PCRM reports filed January 24, 2019 for the following components (A97613):</p> <ul style="list-style-type: none">• Grande Prairie Mainline Loop No. 2 – MacLeod River Section• Liege Lateral Loop No. 2 – Pelican Lake Section• Kettle River Lateral Loop – Christina River Section• Alces River Compressor Station Unit Addition <p>NGTL will file the Post Construction Reports (PCMR) for the Boundary Lake Section, Bear Canyon Section and Otter Lake Compressor Station Unit Addition in January 2020 as these components were not ready to be assessed during the summer of 2018 for submission of PCMR.</p>	Post-Construction Monitoring team
36	XG-N081-013-2016	Engineering	<p>Condition 2</p> <p>NGTL must cause the Section 58 Components of the Project to be designed, located, constructed, installed and operated in accordance with the specifications, standards, commitments made and other information included in or referred to in its Project Application or in its related submissions.</p>	Order XG-N081-013-2016	A77322	Complete	All Project phases	All	<p>All section 58 components are complete as of December 22, 2017.</p> <p>30-day compliance for the Section 58 Components in accordance with Condition 12 of the Order filed January 22, 2018 (A89426).</p>	Project Managers
37	XG-N081-013-2016	Sunset Clause	<p>Condition 4</p> <p>Unless the Board otherwise directs prior to two years from the date this Order takes effect, the Order shall expire two years from its effective date, unless construction in respect of the Section 58 Components of the Project has commenced by that date.</p>	Order XG-N081-013-2016	A77322	Complete	All Project phases	All	Construction on Section 58 components began November 19, 2016.	Project Managers

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38	XG-N081-013-2016	Manuals	Condition 5 NGTL must file with the Board, and notify Aboriginal groups who have expressed to NGTL an interest in this filing, Construction Safety Manual(s) pursuant to section 20 of the National Energy Board Onshore Pipeline Regulations (OPR), at least 14 days prior to commencing construction of the Section 58 Components.	Order XG-N081-013-2016	A77322	Complete	Project Planning Pre-construction	All	Construction Safety Manuals for Section 58 components filed by courier: <ul style="list-style-type: none">November 4, 2016:<ul style="list-style-type: none">Boundary Lake SectionBear Canyon SectionMcLeod River SectionPelican Lake SectionOtter Lake Unit Addition (November 24, 2016)Christina River Section (December 1, 2016) Construction of the Alces River Unit Addition does not include any Section 58 activities. Interested Aboriginal groups were notified of all the applicable filings as of December 16, 2016.	Project Managers, Indigenous Relations, Construction Managers
39	XG-N081-013-2016	Commitments Tracking Table	Condition 6 NGTL must: a) file with the Board and post on its Project website, and notify Aboriginal groups who have expressed to NGTL an interest in this filing, at least 30 days prior to commencing construction, a CTT listing all commitments made by NGTL in its Project Application or in its related submissions regarding the Section 58 Components, including reference to: <ul style="list-style-type: none">i) the documentation in which the commitment appears (for example, the Project Application, responses to information requests, hearing transcripts, permit requirements, condition filings, or other);ii) the accountable lead for implementing each commitment; andiii) the estimated timelines associated with the fulfillment of each commitment. b) maintain at its construction office(s): <ul style="list-style-type: none">i) the CTT listing all regulatory commitments and their completion status, including, but not limited to, those commitments resulting from NGTL's Project Application and subsequent filings and conditions from permits, authorizations and approvals;ii) copies of any permits, approvals or authorization for the Section 58 Components issued by federal, provincial or other permitting authorities, which include environmental conditions or site-specific mitigation or monitoring measures; andiii) any subsequent variances to any permits, approvals or authorizations in b) ii).	Order XG-N081-013-2016	A77322	Complete	All Project phases	All	The CTT contains both Section 58 and Section 52 activities in one version. Filed CTT for Condition 5 s.52 Facilities and Condition 7 s. 58 Facilities 1. October 17, 2016 (A80041) 2. November 15, 2016 (A80625) 3. December 15, 2016 (A81047) 4. January 16, 2017 (A81320) 5. February 15, 2017 (A81747) 6. March 15, 2017 (A5J4Y5) 7. April 17, 2017 (A82649) 8. May 15, 2017 (A83574) 9. June 15, 2017 (A84426) 10. July 17, 2017 (A84985) 11. August 15, 2017 (A85480) 12. September 15, 2017 (A86044) 13. October 16, 2017 (A86906) 14. November 15, 2017 (A87842) 15. December 15, 2017 (A88678) 16. January 15, 2017 (A89220) 17. February 15, 2018 (A90008) 18. March 16, 2018 (A90622) 19. June 8, 2018 (A92394) 20. September 17, 2018 (A94051) 21. December 17, 2018 (A96721) 22. March 18, 2019 (A98368) 23. June 17, 2019 (A99991) <u>24. September 16, 2019 (C01668)</u> Interested Aboriginal groups are notified each month following the filing of the most recent CTT.	All disciplines

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40	XG-N081-013-2016	Environmental Protection Plan (EPP)	Condition 7 NGTL must file with the Board for approval, at least 45 days prior to commencing construction, an updated EPP (including Environmental Alignment Sheets) specific to the Section 58 Components of the Project. The EPP must be a comprehensive compilation of all environmental protection procedures, mitigation measures, and monitoring commitments, as set out in NGTL's Project Application, subsequent filings, or as otherwise agreed to through the hearing process. The EPP must describe the criteria for the implementation of all procedures and measures, and must use clear and unambiguous language that confirms NGTL's intention to implement all of its commitments. Construction must not commence until NGTL has received approval of its EPP from the Board.	Order XG-N081-013-2016	A77322	Complete	Project Planning Pre-construction	All	Final EPPs and Environmental Alignment Sheets filed September 7, 2016 (A79329) Updated EPP and Environmental Alignment Sheets for the Pelican Lake Section filed October 14, 2016 (A5F9T2; A5F9T3) Responses to NEB IR 1 regarding the EPPs filed November 15, 2016 (A80620) NEB approval issued November 16, 2016 (A80666)	Environmental Planners
41	XG-N081-013-2016	Heritage Resources	Condition 8 NGTL must file with the Board, at least 30 days prior to commencing construction: a) for each of the Section 58 Components of the Project, confirmation, signed by an officer of the company, that it has obtained all of the required archaeological and heritage resource permits and clearances from the relevant provincial authorities; b) a description of how NGTL will meet any conditions and respond to any comments and recommendations contained in the permits and clearances referred to in a) above; and c) a description of how NGTL has incorporated any additional mitigation measures into its Environmental Protection Plans as a result of any conditions or recommendations referred to in b).	Order XG-N081-013-2016	A77322	Complete	Project Planning Pre-construction	All	Information on Heritage Resources clearances filed October 14, 2016 (A79986)	Environmental Planners
42	XG-N081-013-2016	Emergency Response Plan for Construction	Condition 9 NGTL must file with the Board, at least 45 days prior to commencing construction of the Section 58 Components, the Project-specific Emergency Response Plan. The plan must include spill contingency measures that NGTL will employ in response to accidental spills attributable to construction activities, 24-hour medical evacuation, fire response, and security.	Order XG-N081-013-2016	A77322	Complete	Project Planning Pre-construction	All	Emergency Response Plans filed September 28, 2016 (via courier) for the following components: <ul style="list-style-type: none">• Boundary Lake Section• Bear Canyon Section• McLeod River Section• Pelican Lake Section• Christina River Section (November 1, 2016)• Otter Lake Unit Addition – camp construction (November 7, 2016)• Otter Lake Unit Addition - unit addition work (November 23, 2016)• Alces River Unit Addition (November 23, 2016)	Project Managers, Construction Managers
43	XG-N081-013-2016	Construction Schedule	Condition 10 NGTL must file with the Board, at least 14 days prior to commencing construction, a detailed construction schedule(s) for the Section 58 Components identifying major construction activities, and must notify the Board of any modifications to the schedule(s) as they occur.	Order XG-N081-013-2016	A77322	Complete	Project Planning Pre-construction	All	Section 58 Construction Schedules filed November 4, 2016 (A80439): <ul style="list-style-type: none">• Boundary Lake Section• Bear Canyon Section• McLeod River Section• Pelican Lake Section• Otter Lake Unit Addition – camp construction (November 24, 2016; A5H2W8)• Christina River Section (December 1, 2016; A5H4E0) Construction of the Alces River Unit Addition does not include any Section 58 activities.	Project Managers, Construction Managers

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44	XG-N081-013-2016	Construction Progress Reports	Condition 11 NGTL must file with the Board, and notify Aboriginal groups who have expressed to NGTL an interest in this filing, by the end of each month during construction of the Section 58 Components of the Project, construction progress reports. The reports must include information on the activities carried out during the reporting period; any environmental, socio-economic, safety and security issues and issues of non-compliance; and the measures undertaken for the resolution of each issue and non-compliance.	Order XG-N081-013-2016	A77322	Complete	Project Construction	All	Construction Progress Reports for Section 58 components filed: 1. November 30, 2016 (A5HXH2) 2. December 30, 2016 (A81173) 3. January 31, 2017 (A81576) 4. September 29, 2017 (A5U6J5) 5. October 16, 2017 (A5V6L1) 6. October 31, 2017 (A5W3X4) 7. November 15, 2017 (A5X0J5) 8. November 30, 2017 (A5X7L0) 9. December 15, 2017 (A88675) 10. December 29, 2017 (A88919) 11. January 15, 2018 (A89221) Section 58 construction activities were reported in the Section 52 construction progress reports for the second season of construction for the Boundary Lake Section, which included construction of a camp. In reviewing its notifications to interested Aboriginal Groups, NGTL confirms that an error was made in not sending the November 30, 2016 construction progress report (for the Pelican Lake Section only) to interested Aboriginal Groups. Interested Aboriginal groups are notified each month following the filing of the most recent Construction Progress Report.	Project Managers, Construction Managers, Indigenous Relations Engagement Leads
45	XG-N081-013-2016	Condition Compliance by the Accountable Officer	Condition 12 Within 30 days of the date that the Section 58 Components of the Project are completed, NGTL must file with the Board confirmation that the Section 58 Components were completed in compliance with all applicable conditions in this Order. If compliance with any of these conditions cannot be confirmed, NGTL must file with the Board details as to why compliance cannot be confirmed. The filing required by this condition must include a statement confirming that the signatory to the filing is the accountable officer of NGTL, appointed as Accountable Officer pursuant to section 6.2 of the OPR.	Order XG-N081-013-2016	A77322	Complete	Project Construction	All	30-day compliance for the Section 58 Components in accordance with Condition 12 of the Order filed January 22, 2018 (A89426).	Regulatory Project Manager
46	NEB	Aboriginal Employment	All commitments to education and training made by the Project will be tracked by NGTL using the processes and tools established for Aboriginal Engagement and community investment. NGTL will seek opportunities to link program participants to further training, employment and/or contracting opportunities.	Response to Round 2 NEB IR 2.1	B12-01 (A4T1K7)	Complete	Project Planning Project Construction	All	NGTL continues to engage Aboriginal communities to identify opportunities for support of education and training, in alignment with the needs of the Project and communities' priorities. Aboriginal and stakeholder engagement programs have been transitioned to TransCanada's Public Awareness (PA) Program for the Project following its March 30, 2018 in-service date.	Indigenous Relations Contracts Advisors, Project Managers
47	NEB	Aboriginal Engagement	NGTL will continue to share Project information and work to respond to requests or concerns that might be identified by the Aboriginal communities and organizations engaged on the Project. Additional input received through ongoing engagement, including ongoing TLU and supplemental biophysical field studies, will be incorporated in Project design and planning, where practicable.	Response to NEB IR 1.1; Section 8.0, AWE	B7-01 (A4R3C9); B17-02 (A4T8Q5)	Complete	Project Planning	All	Report on Outstanding TLU Investigations filed September 1, 2016 (A5E8W9). Construction of the Project components began in late January 2017. Should any previously unidentified TLU sites be found during construction, NGTL will follow conditions outlined in the Traditional Land Use Sites Discovery Contingency Plan included in the EPPs for the Project.	Environmental Planners, Indigenous Relations Engagement Leads, Project Managers

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48	NEB	Aboriginal Engagement	The outcomes of [Aboriginal Engagement] these activities will be provided to the Board in Q4 2015 and will include a discussion of any issues or concerns raised to date, and action NGTL has taken or will take to address those issues and/or concerns.	Response to NEB IR 1.1	B7-01 (A4R3C9)	Complete	Project Planning	All	Update to Aboriginal summaries and engagement logs filed as part of NGTL's Additional Written Evidence (B17-07; A4T8R0)	Indigenous Relations Engagement Leads, Project Managers
49	NEB	Aboriginal Engagement	NGTL will continue to respond to questions and concerns, and will address any Project-related interests and concerns of potentially affected Aboriginal communities and organizations through its ongoing engagement efforts.	Response to NEB IR 1.1	B7-01 (A4R3C9)	Complete	All Project phases	All	NGTL continues to engage Aboriginal communities for any Projected-related interests and concerns as applicable. Aboriginal and stakeholder engagement programs have been transitioned to TransCanada's Public Awareness (PA) Program for those pipeline sections and compressor station unit additions which have been placed in service.	Indigenous Relations Engagement Leads, Project Managers
50	NEB	Aboriginal Engagement	Where specific information is provided by Aboriginal communities relating to locations where access control measures may be required, NGTL will consider the input and incorporate mitigation measures as appropriate in the Environmental Alignment Sheets (EAS). NGTL has committed to the inclusion of an AMP as part of the final submission of the EPPs, and will provide interested Aboriginal communities with the AMP and updated EAS at the same time as they are filed with the Board, 60 days prior to the start of construction. Feedback from Aboriginal communities on the preliminary access control measure locations identified on the EAS will be considered and incorporated where appropriate into updates to the EAS.	Response to NEB IR 4.3 NGTL Final Argument	B29-01 (A4X1L0) B35-02 (A4Y0Q9)	Complete	Project Planning Pre-construction	All	Final EPPs and Environmental Alignment Sheets filed September 7, 2016 (A79329) Updated EPP and Environmental Alignment Sheets for the Pelican Lake Section filed October 14, 2016 (A5F9T2; A5F9T3) Updated EPP for the McLeod River Section filed March 8, 2017 (A82011).	Environmental Planners, Indigenous Relations Engagement Leads
51	NEB	Aboriginal Engagement	NGTL will provide potentially affected Aboriginal communities with notification of scheduled field programs and provide notification and posting information when Post-Construction Monitoring (PCM) reports are filed with the NEB. As noted in Section 10.6, Operations and Maintenance Activities (Exhibit B2-17, NEB Filing ID: A4K2S2), NGTL will consider issues raised by Aboriginal communities during the operations period, and mitigation measures will be implemented as warranted.	Response to NEB IR 4.5	B29-01 (A4X1L0)	Complete	Operations	All	Aboriginal and stakeholder engagement programs have been transitioned to TransCanada's Public Awareness (PA) Program for those pipeline sections and compressor station unit additions which have been placed in service.	Indigenous Relations Engagement Leads, Operations
52	NEB	CHR&OMP	NGTL will prepare a Caribou Habitat Restoration and Offset Measures Plan to reduce the residual and cumulative effect of the Project to not significant levels. The Plan will be prepared in consultation with appropriate regulatory agencies and Aboriginal communities, and will include a monitoring and adaptive management component.	Response to NEB IRs 1.12 and 1.13	B7-01 (A4R3C9)	Complete	Project Planning	Boundary Lake Section Pelican Lake Section	Preliminary CHR&OMP filed September 30, 2015 (B17-08; A4T8R1) Revised CHR&OMP filed September 1, 2016 (A79253)	Environmental Planners, Indigenous Relations Engagement Leads
53	NEB	CHR&OMP	The quantitative method and preliminary accounting will be detailed in the integrated CHR&OMP for the Project, as referenced in the ESA.	Response to NEB IR 2.10	B12-02 (A4T1K8)	Complete	Project Planning	Boundary Lake Section Pelican Lake Section	Preliminary CHR&OMP filed September 30, 2015 (B17-08; A4T8R1) Revised CHR&OMP filed September 1, 2016 (A79253)	Environmental Planners
54	NEB	CHR&OMP	NGTL confirms responsibility for the implementation and monitoring of access control, line-of-sight mitigation and revegetation on the Project Footprint within caribou range. NGTL also accepts the responsibility to ensure these measures are effective through the life of the Project. Details of these activities including methods and locations will be outlined in the CHR&OMP that NGTL will prepare for the Project. The preliminary CHR&OMP will be filed on September 30, 2015. In addition, a Caribou Habitat Restoration Offset Measures Monitoring Program will be developed, which will include a plan for implementation, monitoring and adaptive management.	Response to NEB IR 2.15	B12-02 (A4T1K8)	Complete	Project Planning	Boundary Lake Section Pelican Lake Section	Preliminary CHR&OMP filed September 30, 2015 (B17-08; A4T8R1) Revised CHR&OMP filed September 1, 2016 (A79253)	Environmental Planners, Project Managers, Construction Managers

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55	NEB	CHR&OMP	NGTL will continue to engage with ECCC and will incorporate any input from ECCC into subsequent CHR&OMP filings	NGTL Final Argument	B35-02 (A4Y0Q9)	Complete	Project Planning	Boundary Lake Section Pelican Lake Section	Revised CHR&OMP filed September 1, 2016 (A79253). NGTL received an email from ECCC on November 8, 2016, indicating it would be providing comments on the revised CHR&OMP. NGTL filed responses to NEB IR 1 regarding the revised CHR&OMP on November 25, 2016 (A5H3A1).	Environmental Planners
56	NEB	CHR&OMP / Provincial Range Plans	At present, NGTL does not have knowledge on whether the ESAR range plan will be released in 2016. NGTL will incorporate recommendations and requirements of the range plan into its CHR&OMP when it is completed.	Response to NEB 4.22	B29-01 (A4X1L0)	Complete	All	Boundary Lake Section Pelican Lake Section	Revised CHR&OMP filed September 1, 2016 (A79253). NGTL anticipates ongoing cooperation with AEP as range plans are released.	Environmental Planners
57	NEB	Construction	Spread No.2 (25 km [KP 38 to KP 58 and from KP 86 to KP 91]). Work within the KWBZ will be completed by January 14, 2017, and the remainder of the work within this spread will be substantially completed by February 14, 2017.	Section 4.0, AWE	B17-02 (A4T8Q5)	Complete	Project Construction	Boundary Lake Section	An extension for construction activities in the KWBZ was granted by AEP via email October 16, 2016. NGTL has committed to ongoing consultation and updates with AEP.	Project Manager, Construction Manager, Environmental Planner
58	NEB	Construction	...the HDD Crossing of the Christina River which will be constructed first, prior to the remainder of work within the spread.	Section 4.0, AWE	B17-02 (A4T8Q5)	Complete	Project Construction	Christina River Section	HDD of the Christina River Section completed (pullback of HDD occurred April 5, 2017).	Environmental Planners, Project Managers, Construction Managers
59	NEB	Engineering	NGTL will conduct EAs on the following pipeline systems. The EAs are expected to be completed by Q4 2015: <ul style="list-style-type: none">• Kettle River Lateral (section looped by Christina River Section)• Bohn Lateral (section looped by Christina River Section)• Chard Lateral (section looped by Christina River Section)• Graham Lateral (section looped by Christina River Section)• North Central Corridor/Hunt Creek Lateral (pipelines downstream of Otter Unit Addition)	Response to NEB IR 1.7	B7-01 (A4R3C9)	Complete	Project Planning	Christina River Section Otter Lake Unit Addition	Engineering Assessments filed January 15, 2016 (B31-1; A4X6J6)	Project Managers, System Design, Pipeline Integrity
60	NEB	Engineering	Materials that have been stored will be inspected by NGTL to ensure quality and fitness for use by the Project.	Response to NEB IR 2.7	B12-01 (A4T1K7)	Complete	Pre-construction	Boundary Lake Section Bear Canyon Section	Boundary Lake Section: Stored materials to be used for the Section were inspected from July to October 2016. Bear Canyon Section: Stored materials to be used for the Section were inspected from July to August 2016. Information Request responses filed by NGTL January 24, 2017 (A81438) and February 3, 2017 (A81633)	Construction Manager, Project Manager
61	NEB	Engineering	NGTL will file an updated HDD feasibility report on September 30, 2015.	Response to NEB IR 2.7	B12-01 (A4T1K7)	Complete	Project Planning	Christina River Section	Updated HDD report filed as part of NGTL's AWE filed September 30, 2015 (B17-04 and B17-05; A4T8Q7 and A4T8Q8)	Project Engineer
62	NEB	Engineering	The hydrotechnical studies for the Pelican Lake Section are expected to be complete by late November 2015, and will be submitted to the Board once completed.	Response to NEB IR 2.7	B12-01 (A4T1K7)	Complete	Project Planning	Pelican Lake Section	As per NGTL's response to NEB IR 2.7 d), no further studies are required (B12-01; A4T1K7)	Project Engineer
63	NEB	Environment	NGTL will continue to work with AEP, and its partners (e.g., Forest Management Agreement holders) and stakeholders to select specific locations to meet shared objectives.	Response to NEB IR 2.14	B12-02 (A4T1K8)	Ongoing	Project Planning	All	NGTL continues to work with AEP regarding caribou offset locations.	Environmental Planners

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64	NEB	Environment	The Table C-1 crossing list will be updated and included in the Fish and Fish Habitat Supplemental Winter and Spring Habitat Reports that will be submitted in NGTL's supplemental filing on September 30, 2015. The site survey data and summaries, along with the determination of serious harm for Sites 13, 14, 15 and 17, will be detailed in the Fish and Fish Habitat Supplemental Winter and Spring Habitat Reports that will be submitted September 30, 2015. These reports will show that the Project watercourse crossing methods are not expected to cause serious harm to fish.	Response to NEB IR 2.17	B12-02 (A4T1K8)	Complete	Project Planning	All	Supplemental Fish Winter and Spring Reports were filed as part of NGTL's AWE on September 30, 2015 (B17; A72910).	Environmental Planners
65	NEB	Environment	Five western toad breeding ponds (i.e., tadpoles) were found during the wildlife field work adjacent to the Pelican Lake Section. Complete results will be provided in a supplemental filing on September 30, 2015.	Response to NEB IR 2.18	B12-02 (A4T1K8)	Complete	Project Planning	Pelican Lake Section	Supplemental Fish Winter and Spring Reports were filed as part of NGTL's AWE on September 30, 2015 (B17-17; A4T8S0).	Environmental Planners
66	NEB	Environment	Due to the existing TCE risk for wetland function and management guidance to avoid further loss of wetland function, NGTL will implement mitigation measures and monitoring to reduce the Project's residual effects and contribution to cumulative effects on wetland function.	Response to NEB IR 1.13	B8-01 (A4R4Q0)	Complete	Project Planning Operations	All	NGTL implemented mitigation measures outlined in the Environmental Protection Plans which were specifically prepared to minimize effects and residual effects to wetland function. Monitoring will be conducted during the first post-construction assessments following final cleanup.	Environmental Planners
67	NEB	Geotechnical	The report from this field program is expected by the end of December 2015, and will be submitted to the Board once completed.	Response to NEB IR 5.1	B32-02 (A4X8I4)	Complete	Project Planning	Pelican Lake Section	Final Geotechnical Investigation Report filed March 9, 2016 (B38-01 and 02; A75881).	Project Managers
68	NEB	Environment	NGTL will use a combination of monitoring approaches. Habitat restoration (revegetation) performance will be monitored using: <ul style="list-style-type: none">ground-based sampling protocols conducted within stratified monitoring plots established in the restoration areasaerial monitoring to collect high-resolution 360° geo-referenced photography in conjunction with high-resolution light detection and ranging (LiDAR) imagery; the resultant data will enable both spatial and temporal assessment of restoration performance Access control and line-of-sight mitigation will be monitored using: <ul style="list-style-type: none">ground and aerial inspections completed by an Environmental Inspector or Resource Specialist to verify evidence of motorized vehicle access at habitat restoration, access control and line-of-sight mitigation locationsnon-intrusive ground-based monitoring using strategically placed remote motion triggered cameras to verify evidence of access at mitigated locationsaerial monitoring to collect high-resolution 360° geo-referenced photography in conjunction with high-resolution LiDAR imagery to verify evidence of access at mitigated locations	Response to NEB 2.15	B12-02 (A4T1K8)	Ongoing	Operations	All		Environmental Planners, Project Managers, Construction Managers
69	NEB	Environment	NGTL will complete a follow-up site reconnaissance in fall 2015 to confirm results of the desktop study and winter reconnaissance. NGTL will submit results of the follow-up site reconnaissance to the Board.	Response to NEB IR 2.7	B12-01 (A4T1K7)	Complete	Pre-construction	Boundary Lake Section	Terrain verification memo filed as part of NGTL's AWE on September 30, 2015 (B17-03; A4T8Q6).	Environmental Planners
70	NEB	Environment	The western toad breeding ponds found adjacent to the Pelican Lake Section will be identified on the Environmental Alignment Sheets (EAS), and relevant corresponding mitigation will also be provided in the EPP.	Response to NEB IR 2.18	B12-02 (A4T1K8)	Complete	Pre-construction	Pelican Lake Section	Final EPP and Environmental Alignment Sheets filed September 7, 2016 (A79329). Updated EPP and Environmental Alignment Sheets filed October 14, 2016 (A5F9T2; A5F9T3)	Environmental Planners

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71	NEB	Environment	As part of ongoing consultation with AEP, NGTL will discuss the western toad ponds found adjacent to the Pelican Lake Section.	Response to NEB IR 2.18	B12-02 (A4T1K8)	Complete	Pre-construction	Pelican Lake Section	NGTL will continue to consult with AEP if western toads are encountered during Project construction and during final clean-up. Pelican Lake Section placed in-service May 19, 2017.	Environmental Planners
72	NEB	Environment	Upon completion of the studies and requisite reporting to Alberta Culture and Tourism, NGTL will provide copies of the <i>Historical Resources Act (HRA)</i> Clearance documentation for the Boundary Lake Section, as well as the Christina River and Pelican Lake Sections, prior to construction.	Section 9, AWE	B17-02 (A4T8Q5)	Complete	Project Planning	Boundary Lake Section Pelican Lake Section Christina River Section	As part of compliance with s.52 Condition 10 and s.58 Condition 8, confirmation on HRA clearances filed October 14, 2016 (A79986).	Environmental Planners
73	NEB	Environment	NGTL will file with the Board the final EPPs, along with the appended AMP, at least 60 days before starting construction, as outlined in the possible draft conditions issued on September 9, 2015.	Response to NEB IR 3.8	B22 (A4V2Y3)	Complete	Pre-construction	All	Final EPPs and Environmental Alignment Sheets filed September 7, 2016 (A79329). Updated EPP and Environmental Alignment Sheets for the Pelican Lake Section filed October 14, 2016 (A5F9T2; A5F9T3) Responses to NEB IR 1 regarding the EPPs filed November 15, 2016 (A80620)	Environmental Planners
74	NEB	Environment	NGTL anticipates completion of the draft KWBZ Protection Plan for review by AEP by the end of January 2016. Upon review and acceptance by AEP, NGTL will file the approved KWBZ Protection Plan with the Board. As NGTL cannot predict the timelines for AEP review, a timeline for filing with the Board is not available. NGTL will finalize the KWBZ Protection Plan prior to construction.	Response to NEB IR 4.10	B29-01 (A4X1L0)	Complete	Pre-construction	Boundary Lake Section Pelican Lake Section Christina River Section	Approved KWBZ Plans filed November 15, 2016 as part of NGTL's responses to NEB IR 1 regarding the EPPs (A80620)	Environmental Planners
75	NEB	Environment / Caribou RAP	NGTL will include any new clearing relating to access for hydrostatic test water withdrawal in the overall ROW clearing and preparation at the start of construction. The clearing will be complete prior to February 15 when the caribou RAP begins. Withdrawal, testing and disposal will be conducted after mainline construction, and is expected to continue until the end of March 2017, as indicated in the response to NEB IR 2.12 (Exhibit B12-02, NEB Filing ID A4T1K8). As such, NGTL notes these activities will be conducted during the caribou RAP	Response to NEB IR 4.14	B29-01 (A4X1L0)	Complete	Project Construction	Boundary Lake Section Pelican Lake Section		Environmental Planners, Construction Managers, Project Managers
76	NEB	Environment / Caribou Restoration Program	NGTL will incorporate forthcoming Action and Range Plans into its corporate caribou habitat restoration program to ensure recovery efforts follow the direction provided by the regulatory authorities responsible for their development and implementation at that time.	Response to NEB IR 4.19	B29-01 (A4X1L0)	Ongoing	Post-construction	Boundary Lake Section Pelican Lake Section		Environmental Planners
77	NEB	Land	NGTL will continue to work with all landowners to address any concerns before and during Project construction.	Response to NEB IR 1.2; Section 6, AWE	B7-01 (A4R3C9) B17-02 (A4T8Q5)	Complete	Pre-construction Project construction	Bear Canyon Section McLeod River Section	No landowner issues or concerns raised during construction of the Bear Canyon and McLeod River Sections	Land Representative, Project Managers
78	NEB	Land	Notices, in accordance with section 87 of the NEB Act, have been and will be served on all landowners and occupants, as defined in sections 75 and 85 of the NEB Act, before NGTL enters into any land acquisition agreements.	Section 5.0, AWE	B17-02 (A4T8Q5)	Complete	Pre-construction	Bear Canyon Section McLeod River Section	Section 87 notices were served on landowners for the Bear Canyon Section from March through April 2015. Section 87 notices were served on landowners for the McLeod River Section originally in December 2011/January 2012, and landowners were re-served with notices in April through May of 2015 when the McLeod River Section was incorporated into the Project.	Land Representative, Project Managers
79	NEB	Land	NGTL will continue to consult with landowners to identify the specific nature of the concerns or issues raised and ways to address them.	Section 5.0, AWE	B17-02 (A4T8Q5)	Complete	Project Construction	Bear Canyon Section McLeod River Section	No landowner issues or concerns raised during construction of the Bear Canyon and McLeod River Sections	Land Representative, Project Managers

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Commitment Number	Commitment To	Category	Description of Commitment	Source	Document Reference (Exhibit, [NEB Filing ID])	Status/Estimated Timeline	Project Phase	Project Component	Comments	Accountability
80	NEB	Project Schedule	When a risk is realized or appears that it will be realized through regular monitoring of the Project schedule, NGTL will work with the relevant internal resources and/or any contractors retained to execute the work to develop a recovery plan to mitigate impacts on the project. Recovery plans might be used during the design or construction phases of a project. The requirements for development and implementation of recovery plans, as well as specific contingency plans developed for the Project will be included in the construction contracts NGTL prepares for the Project.	Response to NEB IR 2.13	B7-01 (A4R3C9)	Complete – not required	Project Construction	All		Project Managers, Construction Managers
81	NEB	Project Schedule	Where construction progress might be delayed, NGTL will require the construction contractor to implement the specific contingency plans that have been developed, and/or to develop and implement a recovery plan. The recovery plan will identify the specific cause of the delay and the measures that will be implemented to accelerate progress on the remaining work to achieve the original schedule milestones. These recovery plans are subject to review, approval and additional monitoring by the construction inspection team. Any material scheduling delays will be communicated to the Board in NGTL's construction progress reports	Response to NEB IR 2.13	B7-01 (A4R3C9)	Complete – not required	All Project phases	All		Project Managers, Construction Managers
82	NEB	Safety/Integrity	Specific threat management measures to be employed on the Project include: <ul style="list-style-type: none">baseline magnetic flux leakage (MFL) and high-resolution caliper ILI within the first year of operation, after which the pipeline will be managed according to the Integrity Management Program (IMP)NGTL shall file with the Board confirmation that ILI has been completed on the Boundary Lake Section and McLeod River Section by 31 December 2019. If such confirmation cannot be provided within 30 days of completion of the ILI, NGTL must file an updated request to vary Certificate GC-126 to reflect the changes to the ILI commitments made in the overall Project application	Project Application, Section 7.5.5 Board Order GPLO-N081-004-2018	B1-01 (A4K1J4) (A6C8R1)	In Progress Complete	Operations	All	Refer to Project Update filed March 5, 2018 (A90418) NGTL will file confirmation that ILI has been completed for the Boundary Lake and McLeod River Sections by December 31, 2019. <u>Confirmation of ILI runs for Boundary Lake and McLeod River Sections filed December 17, 2019 (C03712).</u>	Operations, Pipeline Integrity
83	NEB	Safety/Integrity	For both the Otter Lake Compressor Unit A and the Project's Otter Lake Unit Addition, NGTL will be adhering to the following maintenance and inspections programs: <ul style="list-style-type: none">Routine Maintenance Program – requirement for monthly preventative maintenance work to be completed on compressor station equipment. Work includes inspections of components as recommended by the Original Equipment Manufacturers (OEM), and as required by the NEB or other regulatory agencies. This includes such inspections as fire-eye inspections and fire extinguisher inspections.Annual Safety Inspection Program – requirement for an annual inspection to be completed at the compressor station. Goals are to identify and rectify any safety deficiencies.Pipe Integrity Program – inspections of compressor station piping and components as required by the NEB or other regulatory agencies, including monitoring of cathodic protection and pressure testing components.Major Maintenance Program – identification and facilitation of minor and major inspections / overhauls of the gas turbine, compressor and auxiliaries, as recommended by the OEM and dictated by the Program.	NGTL Reply Evidence	B34-02 (A4Y0E9)	Complete	Operations	Otter Lake Unit Addition	Maintenance and Inspection activities for the Otter Lake & Alces River Compressor Station Unit Additions have been transitioned to the region, and activities will be managed as per TransCanada's Integrity Management Program (IMP).	Operations
84	NEB	Stakeholder consultation	NGTL will continue to engage with communities and stakeholders to ensure all issues and concerns are captured, brought forward to the NEB in a timely manner and mitigated where feasible.	Response to NEB IR 1.3; Section 7.0, AWE	B7-01 (A4R3C9) B17-02 (A4T8Q5)	Complete	Pre-construction	All	NGTL continues to engage stakeholders and communities to identify Project-related interests or concerns as applicable. The hearing record for the Project closed in March 2016.	Project Managers, Community Relations

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85	NEB	Stakeholder consultation	NGTL will continue to consult with interested communities to better understand potential effects on local infrastructure during Project construction and operations. NGTL will provide information on the timelines for construction and road use that allow communities local to the Project's components to prepare for an influx of activity.	Response to NEB IR 1.3	B7-01 (A4R3C9)	Complete	Project Planning Project construction	All	Aboriginal and stakeholder engagement programs have been transitioned to TransCanada's Public Awareness (PA) Program for those pipeline sections and compressor station unit additions which have been placed in service.	Project Managers, Community Relations
86	NEB	Stakeholder consultation	Where communities have expressed interest, NGTL will continue to share Project information and work to respond to any requests or concerns that are identified.	Section 8.0, AWE	B17-02 (A4T8Q5)	Complete	Project Construction	All	Aboriginal and stakeholder engagement programs have been transitioned to TransCanada's Public Awareness (PA) Program for those pipeline sections and compressor station unit additions which have been placed in service.	Project Managers, Community Relations
87	NEB	Temporary infrastructure	NGTL will file a summary report with the Board regarding temporary infrastructure and workspace in conjunction with the final EPPs and Environmental Alignment Sheets, at least 60 days prior to Project construction, or 45 days prior to initiation of section 58 activities.	Response to NEB IR 3.5	B22 (A4V2Y3)	Complete	Pre-construction	All	Update regarding temporary infrastructure filed September 30, 2016 (A79705).	Environmental Planners, Project Managers, Construction Managers
88	NEB	Aboriginal Engagement	NGTL will provide to the Board on September 30, 2015, a detailed update regarding the outcomes of its ongoing engagement with potentially affected Aboriginal groups, including any issues or concerns raised and actions NGTL has taken or will take to address those issues or concerns. Key updates on NGTL's engagement activities since June 30, 2015 follow.	Response to NEB IR 2.1	B17-01 (A4T1K7)	Complete	Project Planning	All	Update to Aboriginal summaries and engagement logs filed as part of NGTL's AWE on September 30, 2015 (B17-07; A4T8R0).	Indigenous Relations Engagement Leads, Project Managers
89	NEB	CHROMMP	<p>The Caribou Habitat Restoration Offset Measures Monitoring Program will be a separate document from the CHR&OMP. It will be submitted to the NEB after the first complete growing season subsequent to the implementation of caribou restoration measures outlined in the CHR&OMP. It will include details on monitoring (including ground-based, aerial, and remote camera monitoring) and adaptive management.</p> <p>The Caribou Habitat Restoration Offset Measures Monitoring Program will extend for 15 years following implementation of habitat restoration measures.</p> <p>It will be designed to identify and manage issues requiring supplemental or remedial action to achieve restoration objectives within that timeline. Performance measures documented during monitoring will be evaluated and compared with quantifiable restoration targets. If measures indicate that restoration has achieved or is on trajectory to achieving targets, no further mitigation will be implemented at that point. If, however, at any point in the monitoring program, measures indicate that targets are unlikely to be achieved after 15 years, mitigation will be adjusted as soon as feasible and additional monitoring will be completed.</p>	Response to NEB IRs 2.15 and 4. 23	B12-02 (A4T1K8) B29-01 (A4X1L0)	In Progress NGTL anticipates submitting the updated CHROMMP by November 2021 with all habitat restoration and off-set restoration work completed for the Boundary Lake and Pelican Lake Sections.	Operations	Boundary Lake Section Pelican Lake Section	Refer to NEB Condition 32 above	Environmental Planners
90	Alexis Nakota Sioux Nation (ANSN)	Aboriginal Employment	As part of TransCanada's Aboriginal Contracting Program, once a Prime Contractor is selected, an introductory meeting will be scheduled with ANSN to further discuss opportunities for the Project.	Response to ANSN IR 2.0	B13-02 (A4T2G3)	Complete	Project Planning	McLeod River Section	<p>NGTL has had various communications with ANSN with respect to Aboriginal employment opportunities, and NGTL will continue to have specific contractor opportunity discussions with ANSN.</p> <p>NGTL and the contractor for the McLeod River Section met with ANSN on November 10, 2016 with respect to Aboriginal employment opportunities.</p>	Project Manager, Indigenous Relations Contracts Advisor

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91	ANSN	Aboriginal Employment	The ROW clearing, log hauling, medical and security services will be set aside for local Aboriginal service providers	Response to ANSN IR 2.0	B13-02 (A4T2G3)	Complete	Project Planning	McLeod River Section	<p>NGTL has communicated with ANSN regarding opportunities on the McLeod River Section that have been set aside for local Aboriginal service providers.</p> <p>NGTL, and the Prime Contractor for the McLeod River Section met with ANSN on November 10, 2016 to discuss services that may be able to be set aside and how best to integrate ANSN partners and businesses into the contractor's execution plan.</p> <p>NGTL, through its Prime contractor, contracted ANSN for matting, hydrovac and water hauling services.</p>	Project Manager, Indigenous Relations Contracts Advisor
92	ANSN	Aboriginal Engagement	Additional information gathered during ongoing engagement, including the ANSN updated TLU study, will be considered, and where appropriate, will be incorporated in Project planning, including the final EPP and the Environmental Alignment Sheets.	Response to ANSN IR 1.0 NGTL Final Argument	B13-02 (A4T2G3) B35-02 (A4Y0Q9)	Complete	Project Planning	McLeod River Section	Final EPPs and Environmental Alignment Sheets filed September 7, 2016 (A79329).	Environmental Planners, Indigenous Relations Engagement Leads, Project Managers
93	ANSN	Traditional Land and Resource Use	NGTL will capture the ongoing efforts to apply TLU mitigation through the NEB process.	Appendix 8-1, AWE	B17-07 (A4T8R0)	Complete	Project Planning	All	<p>Final EPPs and Environmental Alignment Sheets filed September 7, 2016 (A79329).</p> <p>Updated EPP and Environmental Alignment Sheets for the Pelican Lake Section filed October 14, 2016 (A5F9T2; A5F9T3)</p>	Indigenous Relations Engagement Leads, Environmental Planners, Project Managers
94	Asini Wachi Nehiyawak Traditional Band (AWNTB)	Aboriginal Engagement	NGTL will continue to discuss the Project with AWNTB to determine the community's specific interest in the Project.	Errata to AWE	B18-01 (A4U0R8)	Complete	Project Planning	All	<p>On May 25, 2016, NGTL emailed AWNTB to follow up on previous emails and to schedule a meeting to discuss the Project.</p> <p>NGTL notified AWNTB by e-mail on November 7, 2016 of the issuance of GC-126.</p> <p>NGTL has notified AWNTB of all applicable condition filings on the follow dates: Sept 1/16 – Revised CHR&OMP (Condition 7) Sept 7/16 – Final EPPs (Condition 6) Nov 25/16 – Aboriginal Participation in Construction Monitoring (Condition 12)</p> <p>On December 9, 2016 NGTL emailed a Notice of Construction to AWNTB for the Project.</p> <p>NGTL has continued to provide notification of compliance filings to AWNTB, as applicable, and remains available should a response be received from AWNTB.</p>	Indigenous Relations Engagement Leads
95	Athabasca Chipewyan First Nation (ACFN)	Aboriginal Engagement	NGTL will continue to provide Project notifications and updates to ACFN.	Appendix 8-1, AWE NGTL Reply Evidence	B17-07 (A4T8R0) B35-02 (A4Y0Q9)	Complete	Project Planning	Pelican Lake Section Christina River Section	<p>NGTL has continued to provide Project notifications and updates to ACFN. Pelican Lake Section placed in-service May 19, 2017.</p> <p>Christina River Section placed in-service May 13, 2017.</p>	Indigenous Relations Engagement Lead

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Commitment Number	Commitment To	Category	Description of Commitment	Source	Document Reference (Exhibit, [NEB Filing ID])	Status/Estimated Timeline	Project Phase	Project Component	Comments	Accountability
96	Bigstone Cree Nation (BCN)	Environment	The results of the winter aquatic habitat investigations will be submitted under a supplemental filing on September 30, 2015.	Response to BCN IR 3.11	B13-03 (A4T2G5)	Complete	Project Planning	All	Supplemental Winter Aquatics Report filed as part of NGTL's AWE on September 30, 2015 (B17-11; A4T8R4).	Environmental Planners
97	BCN Swan River First Nation (SRFN)	Environment	Ground reconnaissance will be conducted over areas where weeds have been identified, either during consultation, or during the aerial reconnaissance.	Response to BCN IR 5.3 and SRFN IR 4.03	B13-03 (A4T2G5)	Complete	Project Planning Pre-construction	All		Project Managers, Environmental Planners
98	BCN	Environment	NGTL will provide information regarding their adaptive management plan and monitoring plan for the Project in the preliminary CHR&OMP that will be submitted in a supplemental filing to the Board on September 30, 2015	Response to BCN IR 2.15	B13-03 (A4T2G5)	Complete	Project Planning	Boundary Lake Section Pelican Lake Section	Preliminary CHR&OMP filed September 30, 2016 (B17-08; A4T8R1).	Environmental Planners
99	BCN	Environment	NGTL is preparing a Migratory Bird Management Plan, which will be appended to the EPPs and submitted to the NEB on September 30, 2015.	Response to BCN IR 2.22	B13-03 (A4T2G5)	Complete	Project Planning	All	Final EPPs and Environmental Alignment Sheets filed September 7, 2016 (A79329). Updated EPP and Environmental Alignment Sheets for the Pelican Lake Section filed October 14, 2016 (A5F9T2; A5F9T3)	Environmental Planners
100	BCN Chipewyan Prairie Dene First Nation (CPDFN)	CHR&OMP	The preliminary CHR&OMP will be filed with the NEB on September 30, 2015, and will describe the measures that NGTL will implement to minimize the residual effects of the Project on caribou and caribou habitat, including predation risk.	Response to BCN IRs 2.8 and 2.15; CPDFN IR 4.8	B13-3 (A4T2G5); B13-5 (A4T2G7)	Complete	Project Planning	Boundary Lake Section Pelican Lake Section	Preliminary CHR&OMP filed September 30, 2015 (B17-08; A4T8R1).	Environmental Planners
101	BCN CPDFN SRFN	Access Control	Locations for access control and methods applied will be further refined during the construction phase to consider site-specific conditions and construction requirements. Final access control plans will be implemented and documented during the reclamation phase of the Project.	Response to BCN IR 2.11; CPDFN IRs 4.01, 4.10; SRFN IRs 1.01 and 1.10	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction Post-construction	All	Locations for access control have been refined throughout construction and will be documented after Project completion. Boundary Lake Section final cleanup/reclamation completed in December 2018	Environmental Planners, Project Managers, Construction Managers
102	BCN CPDFN SRFN	Access Control	A preliminary review of ROW features will be undertaken by NGTL prior to construction to determine potential access control locations and appropriate methods to be applied.	Response to BCN IR 2.10; CPDFN IR 4.10; SRFN IR 1.10;	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Pre-construction	All	Incorporated into updated EPPs and Environmental Alignment Sheets filed September 7, 2016 (A79329).	Environmental Planners, Project Managers, Construction Managers
103	BCN CPDFN SRFN	CHR&OMP	Quantifiable targets and performance measures to assess the effectiveness of caribou habitat restoration measures will be provided in the preliminary CHR&OMP, which is currently being developed for the Project and will be provided to the NEB on September 30, 2015. The CHR&OMP will be supported by a long-term monitoring program to evaluate the effectiveness of habitat restoration and offset measures. Results of monitoring will be integrated into learnings and to inform adaptive management. The preliminary CHR&OMP will incorporate feedback from Aboriginal communities that has been gathered from NGTL's consultation regarding caribou habitat offsets for past projects. The specific details requested pertaining to triggers and evaluation of adaptive management will also be provided in the CHR&OMP.	Response to BCN IRs 2.11 and 2.19; CPDFN IRs 4.11, 4.19 and 11.02; SRFN IRs 1.08, 1.11, 1.15 and 1.19	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Planning	Boundary Lake Section Pelican Lake Section	Preliminary CHR&OMP filed September 30, 2015 (B17-08; A4T8R1). Revised CHR&OMP filed September 1, 2016 (A79253).	Environmental Planners
104	BCN CPDFN SRFN	Environment	Background turbidity measurements will be collected immediately prior to construction of watercourse crossings and turbidity data will be collected upstream and downstream from watercourse crossings during construction activities.	Response to BCN IR 4.13; CPDFN IR 6.13; SRFN IR 3.13	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All		Environmental Planners
105	BCN CPDFN SRFN	Environment	Although locations of potential fish spawning sites in these waterbodies are not known at this time, sites with potential spawning habitat will be avoided for use as test withdrawal and release locations.	Response to BCN IR 4.9; CPDFN IR 6.09; SRFN IR 3.09	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Planning Project Construction	All		Environmental Planners

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Commitment Number	Commitment To	Category	Description of Commitment	Source	Document Reference (Exhibit, [NEB Filing ID])	Status/Estimated Timeline	Project Phase	Project Component	Comments	Accountability
106	BCN CPDFN SRFN	Environment	Following construction, mitigation measures will be implemented to control access along the rights-of-way by the public, including rollback, mounding and planting vegetation, as appropriate for specific locations.	Response to BCN IR 4.15; CPDFN IR 6.15; SRFN IR 3.15	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Post-Construction	All	Boundary Lake Section final cleanup/reclamation completed in December 2018	Environmental Planners, Project Managers, Construction Managers
107	BCN CPDFN SRFN	Environment	Full monitoring plans for the Athabasca and Christina rivers will be prepared in the unlikely event that the primary trenchless crossing methods are not successful and contingency trenched crossing methods need to be implemented. Monitoring plans, mitigation and any offsetting requirements will be in compliance with all federal and provincial permits and approvals.	Response to BCN IR 4.16; CPDFN IR 6.16; SRFN IR 3.16	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Planning Pre-construction	Pelican Lake Section Christina River Section	The Athabasca and Christina River crossings were successfully installed using HDD methods. No contingency installations were necessary.	Environmental Planners, Project Managers, Construction Managers
108	BCN CPDFN SRFN	Environment	All applicable municipal, provincial and federal government approvals for temporary facility sites or workspace will be acquired prior to use of the site or area.	Response to BCN IR 3.1; CPDFN IR 5.1; SRFN IR 2.01	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Pre-construction	All	NGTL will acquire all necessary permits and authorizations before commencing temporary workspace construction. All permits and authorizations were received prior to start of temporary infrastructure construction for the all Sections.	Environmental Planners, Project Managers, Construction Managers, Land Representative
109	BCN CPDFN SRFN	Environment	During the construction phase of the Project, water quality monitoring plans will be developed to monitor for sediment events during instream construction activities as determined by the Environmental Inspector or a Qualified Aquatic Environmental Specialist, to ensure adherence to the Department of Fisheries and Oceans Canada Measures to Avoid Causing Harm to Fish and Fish Habitat and any applicable regulatory requirements.	Response to BCN IR 3.2; CPDFN IR 5.3; SRFN IR 2.03	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All	Water quality monitoring (WQM) plans have been prepared for fish-bearing watercourse crossings for each pipeline section. WQM plans were prepared by environmental consultants with support from their available Qualified Aquatic Environmental Specialist (QAES) resources.	Environmental Inspectors
110	BCN CPDFN SRFN	Environment	If monitoring reveals suspended sediment values are approaching threshold values, the water quality monitors will notify the Environmental Inspector(s) and work with them to develop corrective actions. If corrective actions are not successful, construction activities will be temporarily suspended until effective solutions are identified.	Response to BCN IR 3.2; CPDFN IR 5.5; SRFN IR 2.05	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All	Water quality monitoring was undertaken by environmental consultants as committed in the EPPs and managed in collaboration with the Environmental Inspectors. Final construction of the Boundary Lake Section continued to adhere to this commitment.	Environmental Inspectors
111	BCN CPDFN SRFN	Environment	A site-specific water quality monitoring plan will be developed by a Qualified Aquatic Environmental Specialist prior to construction of watercourse crossings, where fish are present at time of construction, using a control station upstream of the watercourse crossing for comparison to treatment stations within the zone of influence.	Response to BCN IR 3.5; CPDFN IR 5.5; SRFN IR 2.05	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Pre-construction	All	WQM plans have been prepared for fish-bearing watercourse crossings for each pipeline section. WQM plans were prepared by environmental consultants with support from their available QAES resources. Plans include methods for WQM that provide for acquisition of upstream control data.	Environmental Inspectors
112	BCN CPDFN SRFN	Environment	All issues identified during the aerial reconnaissance will be included within the ground reconnaissance portion of the PCM Program. During preliminary work for the PCM Program, NGTL will undertake consultation with relevant regulatory authorities and stakeholders along the construction ROWs following final clean-up in order to address and/or resolve construction-related issues. Issues brought to the attention of NGTL at this time will be detailed and tracked within the Environmental Issues List (EIL) for inclusion in the PCM Program. During the aerial reconnaissance, any areas that display vegetation establishment issues will also be noted, delineated by Kilometer Post (KP), and tracked within the EIL. The EIL will be included as an Appendix to the PCM Program report, and updated annually during the duration of the PCM Program following further assessments and repair work.	Response to BCN IR 5.3; CPDFN IR 7.03; SRFN IR 4.03	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	In Progress	Post-construction	All	First year PCRM reports filed January 24, 2019 for the following components (A97613): <ul style="list-style-type: none">Grande Prairie Mainline Loop No. 2 – MacLeod River SectionLiege Lateral Loop No. 2 – Pelican Lake SectionKettle River Lateral Loop – Christina River SectionAlces River Compressor Station Unit Addition NGTL will file the Post Construction Reports (PCMR) for the Boundary Lake Section, Bear Canyon Section and Otter Lake Compressor Station Unit Addition in January 2020 as these components were not ready to be assessed during the summer of 2018 for submission of PCMR.	Post-Construction Monitoring team

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113	BCN CPDFN SRFN	Environment	Wildlife observations will be documented in daily reports throughout construction to help determine if refinements to mitigation or additional wildlife gaps are required in specific areas.	Response to BCN IR 2.11; CPDFN IR 4.11; SRFN IR 1.11	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project construction	All	NGTL's Environmental Inspectors maintained daily reports during Project construction and implemented wildlife mitigation measures as necessary.	Construction Managers, Project Managers, Environmental Planners
114	BCN CPDFN SRFN	Environment	NGTL is preparing a Wildlife Supplemental Modelling Report, which will be filed with the Board on September 30, 2015. The supplemental report will include a review of habitat requirements for the modelled wildlife indicators, based on available scientific literature and professional judgment. Any changes in confidence ratings together with a rationale for the changes will be provided in the Supplemental Wildlife Modelling Report to be filed with the NEB on September 30, 2015.	Response to BCN IRs, 2.13, 2.9 and 2.18; CPDFN IR 4.12; SRFN IRs 1.09 and 1.12	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project planning	All	Supplemental Wildlife Modelling Report filed as part of NGTL's AWE on September 30, 2015 (B17-19; A4T8S2).	Environmental Planners
115	BCN CPDFN SRFN	Environment	...the PCM Program will be conducted following construction of all components of the Project. On forested lands, PCM will take place each year for 5 years, with reporting occurring in years one, three and five following construction.	Response to BCN IR 2.15; CPDFN IR 4.15; SRFN IR 1.15	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	In Progress	Post-Construction	All	First year PCRM reports filed January 24, 2019 for the following components (A97613): <ul style="list-style-type: none">Grande Prairie Mainline Loop No. 2 – MacLeod River SectionLiege Lateral Loop No. 2 – Pelican Lake SectionKettle River Lateral Loop – Christina River SectionAlces River Compressor Station Unit Addition NGTL will file the Post Construction Reports (PCMR) for the Boundary Lake Section, Bear Canyon Section and Otter Lake Compressor Station Unit Addition in January 2020 as these components were not ready to be assessed during the summer of 2018 for submission of PCMR.	Post-Construction Monitoring team
116	BCN CPDFN SRFN	Environment	Information gathered through on going engagement will be considered for incorporation into Project planning, including Environmental Alignment Sheets, as appropriate, and will further incorporate input or issues identified during construction into the PCM Program. For example, sites or resources of concern will be appropriately mitigated during construction, clean up and reclamation, and success will be measured in following growing seasons.	Response to BCN IR 2.20; CPDFN IR 4.20; SRFN IR 1.20	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Planning Project Construction Post-construction	All	Incorporated into updated Environmental Alignment Sheets filed September 7, 2016 (A79329).	Environmental Planners, Post-Construction Monitoring team
117	BCN CPDFN SRFN	Temporary access	Some new temporary access will be required during construction of the Project and will be reclaimed at the end of construction. The development of new temporary access roads will be limited and access to them will be restricted during construction.	Response to BCN IR 4.3; CPDFN IR 6.03; SRFN IR 3.03	B13-03 (A4T2G5) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All		Project Managers, Construction Managers
118	Cadotte Métis Local 1994 (Cadotte)	Aboriginal Engagement	NGTL will continue engagement activities with MNA–Region 6 to address any potential Project-related concerns identified by Cadotte.	Errata to AWE	B18-01 (A4U0R8)	Complete	Project Planning	Otter Lake Unit Addition	NGTL has continued to provide notification of compliance filings to MNA–Region 6, as applicable, and remains available should any issues be raised from MNA–Region 6. Construction of the Otter Lake Unit Addition is complete.	Indigenous Relations Engagement Lead

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119	Chard Métis	Aboriginal Employment	NGTL will implement its established Aboriginal Contracting and Employment Program to maximize employment and contracting opportunities for the local Aboriginal communities potentially affected by the Project. NGTL will meet with Chard Métis to provide ongoing details as the Project advances.	Response to Chard Métis IR 1.4	B13-04 (A4T2G6)	Complete	Project Planning	Christina River Section	NGTL's Prime Contractor for the Christina River section released the request for proposal (RFP) for specific services to Chard Métis on November 10, 2016. NGTL communicated with Chard Métis between January 17 - 25, 2017 with respect to the potential to facilitate direct hire opportunities for Chard Métis members under NGTL's contractor for the Christina River Section. Chard Métis declined these direct-hire opportunities. A meeting scheduled between NGTL and Chard Métis for March 9, 2017 has been delayed. Construction of the Christina River Section completed in May 2017.	Indigenous Relations Contracts Advisor, Project Manager
120	Chard Métis	Aboriginal Engagement	NGTL will file an Aboriginal Engagement Update with the NEB on September 30, 2015.	Response to Chard Métis IR 1.1	B13-04 (A4T2G6)	Complete	Project Planning	All	Update to Aboriginal summaries and engagement logs filed as part of AWE (B17-07).	Indigenous Relations Engagement Lead,
121	Chard Métis	Aboriginal Engagement	NGTL will consider existing or new information provided by Chard Métis Local 214 to inform the Project.	Response to Chard Métis IR 1.3	B13-04 (A4T2G6)	Complete	Project Planning Project Construction	Christina River Section	On July 6, 2016, Chard Métis raised several concerns in a letter to the Minister of Natural Resources Canada. On July 22, 2016, NGTL provided a letter response to each of the concerns raised by Chard Métis. Chard Métis has not identified any specific sites or activities that require additional mitigation beyond what has been provided in the final EPP. NGTL has continued to provide notification of compliance filings to Chard Métis, as applicable, and remains available should any issues be raised from Chard Métis. On March 6, 2018 and April 10, 2018, NGTL provided notices to Chard Métis of condition compliance filings for the Project: <ul style="list-style-type: none">• Bi-weekly construction progress reports (Boundary Lake Section)• Commitment Tracking Table Nos. 17 and 18• Leave to Open (LTO) Application and Board Order for the Boundary Lake Section On June 5, 2018, NGTL emailed Chard Métis in response to Chard Métis' January 2018 email regarding the Emergency Response Plan (ERP) for the Christina Lake Section of the Project. NGTL offered to arrange an ERP information session in relation to both NGTL's regional facilities and those included as part of the Project. NGTL requested current contact information to continue making arrangements with Chard Métis for the ERP presentation. On June 5, 2018, NGTL received an email from Chard Métis providing contact information and logistics for arranging a meeting with NGTL. NGTL responded the same day noting that it will coordinate presenters and available dates for a meeting with Chard Métis. NGTL met with Chard Métis on July 16, 2018 where it intended to present TransCanada's Emergency Management System to Chard	Indigenous Relations Engagement Lead, Project Manager

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									Métis, however, the meeting ended sooner than anticipated. NGTL emailed the Emergency Management System presentation to Chard Métis on July 27, 2018.	
122	Chard Métis	Aboriginal Engagement	NGTL will continue to discuss the Project with Chard Métis to determine the community's specific interest in the Project, including the concerns identified through their information requests to NGTL filed with the Board on August 25, 2015.	Section 8.0, AWE	B17-02 (A4T8Q5)	Complete	Project Planning	Christina River Section	<p>On July 6, 2016, Chard Métis raised several concerns in a letter to the Minister of Natural Resources Canada. On July 22, 2016, NGTL provided a letter response to each of the concerns raised by Chard Métis. Chard Métis has not identified any specific sites or activities that require additional mitigation beyond what has been provided in the final EPP.</p> <p>NGTL remains committed to working with Chard Métis to reasonably address any Project-specific concerns and to identify further opportunities for Project engagement throughout construction and operation of the Project.</p> <p>NGTL has continued to provide notification of compliance filings to Chard Métis, as applicable, and remains available should any issues be raised from Chard Métis.</p>	Indigenous Relations Engagement Lead
123	Chard Métis CPDFN SRFN	Aboriginal Engagement	NGTL believes the ESA accurately reflects the potential effects of the Project on Aboriginal communities considered in the ESA. Where additional information is provided by participating Aboriginal communities through ongoing engagement activities, this information will be considered, and where appropriate, will be incorporated in Project planning, including the final EPPs and the Environmental Alignment Sheets.	Response to Chard Métis IRs 1.3 and 1.5; CPDFN IR 10.01; SRFN IR 5.01	B13-04 (A4T2G6) B13-05 (A4T2G7) B13-07 (A4T2G96)	Complete	Project Planning	All	Final EPPs and Environmental Alignment Sheets filed September 7, 2016 (A79329).	Indigenous Relations Engagement Lead, Project Manager, Environmental Planners
124	Chard Métis Gunn Métis Local 55	Aboriginal Employment	NGTL, in collaboration with the Prime Contractor, will determine the ability and capacity of local Aboriginal communities to provide contracting and employment to the Project	Response to Chard Métis IR 1.4; GML IR 1.04	B13-04 (A4T2G6); B13-06 (A4T2G8)	Complete	Project Planning	All	<p>NGTL's Prime Contractor for the Christina River section released the request for proposal (RFP) for specific services to Chard Métis on November 10, 2016.</p> <p>NGTL communicated with Chard Métis between January 17 and 25, 2017 with respect to the potential to facilitate direct hire opportunities for Chard Métis members under NGTL's contractor for the Christina River Section. Chard Métis declined these direct-hire opportunities.</p> <p>A meeting scheduled between NGTL and Chard Métis for March 9, 2017 has been delayed.</p> <p>Christina River Section was placed in-service May 13, 2017.</p>	Indigenous Relations Contracts Advisor, Project Managers

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125	CPDFN	Aboriginal Employment	NGTL has met and will continue to meet with Aboriginal communities to discuss contracting and employment opportunities and assess skills and business capacity.	Response to CPDFN IR 9.10	B13-05 (A4T2G7)	Complete	Project Planning Project Construction	All	NGTL's Indigenous Relations contracting representatives have been in continued contact with CPDFN regarding contracting opportunities on the Project. NGTL's Prime Contractor for the Christina River Section released the request for proposal (RFP) for specific services to CPDFN on November 10, 2016. NGTL's Indigenous Relations contracting representative met with CPDFN on November 10, 2016 to discuss further contracting opportunities for the Pelican Lake Section. CPDFN businesses are currently working on the Pelican Lake Section. Specific work packages include medical, security, water trucks, and grading. Additionally, NGTL contacted CPDFN via email on January 17, 2017 to arrange a meeting to further discuss sub-contracting and employment opportunities. No response was received by NGTL.	Indigenous Relations Contracts Advisor, Project Managers
126	CPDFN	Aboriginal Employment	All commitments to education and training made by NGTL for the Project will be tracked.	Response to CPDFN IR 9.10	B13-05 (A4T2G7)	Complete	Project Planning Project Construction	All	Aboriginal engagement programs have been transitioned to TransCanada's Public Awareness (PA) Program, which tracks education and training commitments.	Indigenous Relations Contracts Advisors
127	CPDFN	Aboriginal Employment	NGTL will work with Aboriginal communities potentially affected by the Project to identify education and training opportunities that address community needs and promote greater participation in the Project	Response to CPDFN IR 9.10	B13-05 (A4T2G7)	Complete	Project Planning Project Construction	All	NGTL communicated with CPDFN on June 7, 2016 to discuss their education and training priorities. NGTL is committed to supporting education and training opportunities in partnership with CPDFN including support for skills training and workforce enablement programs	Indigenous Relations Contracts Advisors, Project Managers
128	CPDFN	CHR&OMP	The CHR&OMP will identify habitat restoration measures to enhance the recovery of natural vegetation in the Project footprint, based on the site characteristics. Access control measures will be implemented to further improve restoration success.	Response to CPDFN IR 4.15	B13-05 (A4T2G7)	Complete	Project Planning Post-Construction	Boundary Lake Section Pelican Lake Section	Preliminary CHR&OMP filed September 30, 2015 (B17-08; A4T8R1) Revised CHR&OMP filed September 1, 2016 (A79253) Access control measures will be addressed post-construction.	Environmental Planners
129	CPDFN	Environment	In situations where construction of temporary crossings during the instream RAP is necessary, NGTL will utilize crossing structures (e.g., clear span bridges) and installation methods that meet all requirements of the Code of Practice for Watercourse Crossings (i.e., for vehicle and equipment crossings) (Alberta Government 2013).	Response to CPDFN IR 6.01	B13-05 (A4T2G7)	Complete – not required	Project Planning	All		Environmental Planners, Project Managers, Construction Managers
130	CPDFN	Environment	NGTL will continue to incorporate new information into current and future caribou mitigation and habitat restoration planning.	Response to CPDFN IR 11.02	B13-05 (A4T2G7)	In Progress	Project Planning Project Construction Project Operations	Boundary Lake Section Pelican Lake Section		Environmental Planners
131	CPDFN	Environment	Where appropriate, new restoration measures that are suitable for pipeline ROWs will be incorporated into the toolbox of measures available to NGTL to restore caribou habitat.	Response to CPDFN IR 11.02	B13-05 (A4T2G7)	In Progress	Project Construction	Boundary Lake Section Pelican Lake Section		Environmental Planners, Project Managers, Construction Managers

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132	CPDFN	Environment	The Environmental Inspector(s) will direct the implementation of specific measures to control and manage the effects of wind erosions should the potential for wind erosion be identified during construction.	Response to CPDFN IR 8.05	B13-05 (A4T2G7)	Complete – not required	Project Construction	All	Wind erosion was not identified to date as a risk to soil stability for the projects.	Environmental Inspectors
133	CPDFN	Environment	Areas identified as being susceptible to wind erosion will be reclaimed in such a manner to reduce the potential effects of wind erosion following construction (e.g., seeding of quick germinating cover crops, installation of wind fences, spreading of vegetation debris over the ROW).	Response to CPDFN IR 8.05	B13-05 (A4T2G7)	Complete – not required	Project Construction Post-Construction	All	Wind erosion was not identified to date as a risk to soil stability for the projects. If wind erosion is identified as a risk to the natural environment, mitigations measures will be implemented to lower the risk from wind erosion	Environmental Planners, Project Managers, Construction Managers
134	CPDFN	Environment	... construction will be conducted during frozen conditions and minimal disturbance techniques will be applied to all soils series in the Green Area to reduce the amount of actual soil disturbance.	Response to CPDFN IR 8.07	B13-05 (A4T2G7)	Complete	Project Construction	All	Construction was initiated during frozen ground conditions and minimal surface disturbance construction methods were used wherever possible in the Green Area.	Environmental Planners, Project Managers, Construction Managers
135	CPDFN	Environment	If monitoring reveals suspended sediment values are approaching threshold values, the water quality monitors will notify the Environmental Inspector(s) and work with them to develop corrective actions. If corrective actions are not successful, construction activities will be temporarily suspended until effective solutions are identified.	Response to CPDFN IR 5.3;	B13-05 (A4T2G7)	Complete	Project Construction	All	Water quality monitoring was undertaken by environmental consultants as committed in the EPPs and managed in collaboration with the Environmental Inspectors. Final construction of the Boundary Lake Section continued to adhere to this commitment.	Environmental Planners, Project Managers, Construction Managers
136	CPDFN	Environment	The siting criteria for construction camps includes avoidance of springs. While unlikely, if springs are discovered, NGTL will review the area and determine the appropriate mitigation. Construction will be adjusted to accommodate the springs.	Response to CPDFN IR 5.6;	B13-05 (A4T2G7)	Complete – not required	Project Planning	All	Springs were not encountered during the construction of camps associated with the Project.	Environmental Planners, Project Managers, Construction Managers
137	CPDFN	Environment	Water quality data were collected during the 2015 winter season during the winter aquatic habitat investigations. The results of the winter aquatic habitat investigations will be submitted under a supplemental filing on September 30, 2015.	Response to CPDFN IR 5.11	B13-05 (A4T2G7)	Complete	Project Construction	All	Supplemental Winter Aquatics Report filed as part of NGTL's AWE on September 30, 2015 (B17-11; A4T8R1).	Environmental Planners
138	CPDFN	Environment	NGTL will use minimal disturbance techniques to construct the Project. Minimal disturbance techniques do not disturb the soil on the ROW except for along the trench line and in localized areas that require grading.	Response to CPDFN IR 7.02	B13-05 (A4T2G7)	Complete	Project Construction	All	Minimal surface disturbance construction methods used wherever possible in the Green Area.	Project Managers, Construction Managers
139	CPDFN	Environment	Immediately following construction and clean-up, the temporary work space will be allowed to revegetate, including shrub and tree growth which will regenerate throughout the operational phase of the Project.	Response to CPDFN IR 7.02	B13-05 (A4T2G7)	Complete	Post-Construction	All	NWML – Boundary Lake Section final cleanup completed in December 2018	Project Managers, Construction Managers
140	CPDFN	Environment	Natural recovery is the preferred method of reclamation on level terrain where erosion is not expected. Additional reclamation techniques that will be employed include seeding in riparian and erosion prone areas and reducing grubbing where feasible.	Response to CPDFN IR 7.02	B13-05 (A4T2G7)	Complete	Post-Construction	All		Environmental Planners, Project Managers, Construction Managers
141	CPDFN	Environment	Seed mixes will be used where graminoid cover is desired and cover crops will be used where tree and shrub cover is desired.	Response to CPDFN IR 7.02	B13-05 (A4T2G7)	Complete	Post-Construction	All		Environmental Planners, Project Managers, Construction Managers

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Commitment Number	Commitment To	Category	Description of Commitment	Source	Document Reference (Exhibit, [NEB Filing ID])	Status/Estimated Timeline	Project Phase	Project Component	Comments	Accountability
142	CPDFN	Environment	Post-construction monitoring will demonstrate whether a wetland is on the trajectory towards achieving the goal of “no net loss” of wetland function within the post-construction monitoring timeframe, or whether additional remedial action is required to assist the wetland recovery and achieve this goal.	Response to CPDFN IR 4.5	B13-05 (A4T2G7)	In Progress	Post-Construction	All	First year PCRM reports filed January 24, 2019 for the following components (A97613): <ul style="list-style-type: none">Grande Prairie Mainline Loop No. 2 – MacLeod River SectionLiege Lateral Loop No. 2 – Pelican Lake SectionKettle River Lateral Loop – Christina River SectionAlces River Compressor Station Unit Addition NGTL will file the Post Construction Reports (PCMR) for the Boundary Lake Section, Bear Canyon Section and Otter Lake Compressor Station Unit Addition in January 2020 as these components were not ready to be assessed during the summer of 2018 for submission of PCMR.	Post-Construction Monitoring team
143	CPDFN	Environment	The results of the supplemental wildlife field work will be provided to the NEB in a supplemental filing on September 30, 2015.	Response to CPDFN IR 4.13	B13-05 (A4T2G7)	Complete	Project Construction	All	Supplemental Wildlife Technical Report filed as part of NGTL’s AWE on September 30, 2015 (B17-11; A4T8S0).	Environmental Planners
144	CPDFN	Environment	Wide, conventional seismic lines were constructed using very different practices than will be used for construction of the Project. NGTL will use minimum disturbance construction and will salvage surface soils in areas that require grading.	Response to CPDFN IR 4.15	B13-05 (A4T2G7)	Complete	Project Planning Project Construction	All	Minimal surface disturbance construction methods used wherever possible in the Green Area. Surface material was salvaged in areas where grading was required and then replaced during machine cleanup.	Project Managers, Construction Managers
145	CPDFN	Environment	Supplemental Wildlife Modelling Report being prepared for the Project, which will be filed with the NEB on September 30, 2015, includes a zone of influence related to roads in the moose habitat models.	Response to CPDFN IR 4.18	B13-05 (A4T2G7)	Complete	Project Planning	All	Minimal surface disturbance construction methods used wherever possible in the Green Area.	Environmental Planners
146	CPDFN	Traditional Land and Resource Use	NGTL has committed to avoiding habitation sites identified during ongoing engagement.	Response to CPDFN IR 10.06	B13-05 (A4T2G7)	Complete	Project Planning	Pelican Lake Section Christina River Section	No habitation sites have been identified on the Project footprint by CPDFN to date. Final EPPs and Environmental Alignment Sheets filed September 7, 2016 (A79329). Updated EPP and Environmental Alignment Sheets for the Pelican Lake Section filed October 14, 2016 (A5F9T2; A5F9T3)	Indigenous Relations Engagement Leads, Project Managers
147	CPDFN SRFN	Aboriginal Engagement	Additional information gathered during ongoing TLRU studies, such as locations of trails and travelways, will be considered, and, where appropriate will be incorporated into Project planning, including the final EPPs and the Environmental Alignment Sheets.	Response to CPDFN IR 10.01; SRFN IR 5.01	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Planning	All	Final EPPs and Environmental Alignment Sheets filed September 7, 2016 (A79329). Updated EPP and Environmental Alignment Sheets for the Pelican Lake Section filed October 14, 2016 (A5F9T2; A5F9T3) NGTL provided proposed mitigation measures in response to CPDFN’s TLU study. No additional site-specific concerns have been brought forward by CPDFN.	Indigenous Relations Engagement Leads, Environmental Planners, Project Managers

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148	CPDFN SRFN	Aboriginal Engagement	NGTL will work to communicate and allocate funding to various initiatives, programs, community events and cultural gatherings through its engagement with Aboriginal communities, which are not required under any applicable regulations.	Response to CPDFN IR 10.04; SRFN IR 5.04	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	All Project phases	All	CPDFN: NGTL has discussed community investment opportunities with CPDFN and supported community events and programs. NGTL began discussions regarding community investment opportunities with CPDFN in February 2016 and discussions are ongoing. In June 2016 NGTL supported one community event and began discussions with CPDFN regarding their education and training priorities. In 2016 NGTL supported the CPDFN Summer Student Program. In the first quarter of 2017 NGTL contacted CPDFN regarding NGTL's partnership with the Canadian Welding Association. Through this partnership, NGTL plans to fund the delivery of mobile welding camps, teachers training and training materials in the community of CPDFN in the summer of 2017. SRFN: In October of 2016 NGTL began discussing education and training opportunities with SRFN and discussions are ongoing.	Indigenous Relations Contracts Advisors
149	CPDFN SRFN	Aboriginal Engagement	NGTL will inform interested Aboriginal communities on matters of refinements to contingency setback measures during construction for unique wildlife features, and if Project circumstances allow, consider feedback on practical options.	Response to CPDFN IR 10.11; SRFN IR 5.11	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All	Construction activities proceeded with approved dispositions for pipelines and facilities. Wildlife was observed during construction, but there were no environmental features or species that required a contingency setback to be implemented.	Indigenous Relations Engagement Leads, Construction Managers
150	CPDFN SRFN	CHR&OMP	The preliminary CHR&OMP will outline NGTL's plan to restore disturbed caribou habitat in a manner that avoids revegetation to highly palatable or attractive vegetation communities for predators and primary prey species. It will also outline measures that NGTL will implement to mitigate predator movement or efficiency on the Project ROWs in caribou range. The CHR&OMP for the Project will include a plan for implementation, monitoring and adaptive management of caribou habitat restoration measures and is expected to extend for 15 years following implementation of habitat restoration measures.	Response to CPDFN IRs 4.8 and 4.15; SRFN IR 1.08	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Planning	Boundary Lake Section Pelican Lake Section	Preliminary CHR&OMP filed September 30, 2015 (B17-08; A4T8R1). Revised CHR&OMP filed September 1, 2016 (A79253).	Environmental Planners
151	CPDFN SRFN	CHR&OMP	Although monitoring data are not yet available from NGTL's previous restoration projects, NGTL will incorporate experience from implementing caribou habitat restoration on previous projects into the preliminary CHR&OMP.	Response to CPDFN IR 4.21; SRFN IR1.21	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Planning	Boundary Lake Section Pelican Lake Section	Preliminary CHR&OMP filed September 30, 2015 (B17-08; A4T8R1) Revised CHR&OMP filed September 1, 2016 (A79253)	Environmental Planners
152	CPDFN SRFN	Environment	For additional temporary infrastructure and workspace that was not assessed quantitatively in the ESA, NGTL will conduct a supplemental desktop study and a limited field program to confirm the conclusions of the ESA.	Response to NEB IR 1.4; CPDFN IRs 6.01, 7.01; SRFN IRs 3.01 and 4.02	B7-01 (A4R3C9) B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All	Update regarding temporary infrastructure filed September 30, 2016 (A79705).	Environmental Planners, Project Managers, Construction Managers
153	CPDFN SRFN	Environment	Temporary infrastructure with potential to affect fish-bearing watercourses (i.e., temporary vehicle and equipment crossings) will be constructed outside of applicable instream RAPs whenever possible. In situations where construction of temporary crossings during the instream RAP is necessary, NGTL will utilize crossing structures (e.g., clear span bridges) and installation methods that meet all requirements of the Code of Practice for Watercourse Crossings (i.e., for vehicle and equipment crossings) (Alberta Government 2013).	Response to CPDFN IR 6.01; SRFN IR 3.01	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All	Temporary vehicle and equipment crossings have been installed outside of the instream RAPs for the Boundary Lake, Bear Canyon, Pelican Lake and Christina River Sections. Installations for the McLeod River Section are within the RAP, but in all cases and on all pipeline sections, the installations adhere to the requirements of the Code of Practice for Watercourse Crossings.	Environmental Planners, Project Managers, Construction Managers

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154	CPDFN SRFN	Environment	In addition to meeting the requirements of the relevant Codes of Practice, NGTL will abide by all applicable DFO Measures to Avoid Causing Harm to Fish and Fish Habitat and any other applicable industry guidelines and best practices.	Response to CPDFN IR 6.01; SRFN IR 3.01	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Planning	All		Environmental Planners, Project Managers, Construction Managers
155	CPDFN SRFN	Environment	Potential locations for temporary infrastructure, work sites and workspace will be identified as far in advance of their intended use as practical to allow for adequate time to evaluate their suitability and the suitability of alternative sites.	Response to CPDFN IR 6.01; SRFN IR 3.01	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Planning	All	Update regarding temporary infrastructure planning filed September 30, 2016 (A79705).	Environmental Planners, Project Managers, Construction Managers
156	CPDFN SRFN	Environment	Quantitative turbidity data will be collected as part of water quality monitoring programs during construction of watercourse crossings.	Response to CPDFN IR 6.13; SRFN IR 3.13	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All	Water quality monitoring was undertaken by environmental consultants as committed in the EPPs and managed in collaboration with the Environmental Inspectors. Final construction of the Boundary Lake Section continued to adhere to this commitment.	Environmental Planners
157	CPDFN SRFN	Environment	The determination of specific monitoring needs will be assessed on a site-specific basis by the Environmental Inspector and Qualified Aquatic Environmental Specialist.	Response to CPDFN IRs 5.5 and 6.13; SRFN IR 3.13	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	All Project phases	All		Environmental Inspectors
158	CPDFN SRFN	Environment	Monitoring plans in relation to decommissioning and abandonment will be assessed closer to the end of the Project's operational life. Decommissioning and abandonment are subject to a separate NEB process, which will be undertaken following the requirements at the time the Project components end their operations phase.	Response to CPDFN IR 5.3; SRFN IR 2.03	B13-05 (A4T2G7) B13-07 (A4T2G9)	Outstanding	Decommissioning & Abandonment	All		Project Managers, Regulatory Project Manager
159	CPDFN SRFN	Environment	Water quality monitoring will be conducted where fish are present in a watercourse at the time of construction where fish are present. The scope of the monitoring (e.g., visual monitoring, TSS/turbidity measurements) will vary according to the sensitivity of the fish species present, (e.g., species of conservation concern, commercial, recreational or Aboriginal fisheries), season, presence of flowing water and crossing method.	Response to CPDFN IR 5.5, 5.15, and 6.13; SRFN IRs 2.05, 2.15, 3.13	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All	Water quality monitoring was undertaken by environmental consultants as committed in the EPPs and managed in collaboration with the Environmental Inspectors. Final construction of the Boundary Lake Section continued to adhere to this commitment.	Environmental Planners
160	CPDFN SRFN	Environment	...NGTL will dispose of the test water in accordance with Provincial regulations.	Response to CPDFN IR 5.12; SRFN IR 2.12	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All	NGTL's Environmental Inspectors ensured Alberta's Code of Practice Notifications were submitted and conditions were implemented during construction.	Environmental Planners, Project Manager, Construction Managers
161	CPDFN SRFN	Environment	The withdrawal of water for hydrostatic test water will follow all applicable regulatory requirements including the Alberta Code of Practice for the Temporary Diversion of Water for Hydrostatic Testing and/or terms and conditions as listed in the Temporary Diversion License if required.	Response to CPDFN IR 5.12; SRFN IR 2.12	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All	NGTL's Environmental Inspectors ensured Alberta's Code of Practice Notifications were submitted and conditions were implemented during construction.	Environmental Planners, Project Manager, Construction Managers
162	CPDFN SRFN	Environment	Release of hydrostatic test waters will follow all applicable regulatory requirements including the Alberta Code of Practice for Release of Hydrostatic Test Water from Hydrostatic Testing of Petroleum Liquid and Gas Pipelines.	Response to CPDFN IR 5.12; SRFN IR 2.12	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Pre-construction	All	NGTL's Environmental Inspectors ensured Alberta's Code of Practice Notifications were submitted and conditions were implemented during construction.	Environmental Planners, Project Manager, Construction Managers
163	CPDFN SRFN	Environment	Site-specific water quality monitoring needs will be developed by a Qualified Aquatic Environmental Specialist prior to construction of watercourse crossings.	Response to CPDFN IR 5.15; SRFN IR 2.15	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All	WQM plans were prepared for fish-bearing watercourse crossings for each pipeline section. WQM plans were prepared by environmental consultants with support from their available QAES resources.	Environmental Planners

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164	CPDFN SRFN	Environment	Determination of specific monitoring needs will be assessed on a site-specific basis by the Environmental Inspector and Qualified Aquatic Environmental Specialist. Turbidity will be monitored within the zone of influence of the watercourse crossings for the duration of construction activities at the watercourse. The results of water quality monitoring will be compared to federal and provincial guidelines (i.e., Canadian Council of Ministers of the Environment [2007] and Alberta Environment and Sustainable Resource Development [2014]).	Response to CPDFN IR 5.15; SRFN IR 2.15	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All		Environmental Inspectors
165	CPDFN SRFN	Environment	If warranted, water samples will be collected for TSS analysis and a site-specific correlation between turbidity and TSS will be determined.	Response to CPDFN IR 5.15; SRFN IR 2.15	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Pre-construction	All		Environmental Planners
166	CPDFN SRFN	Environment	Prior to commencing work on the Project, all workers will receive an environmental orientation and be advised that if they show neglect of the environment or disregard the mitigation measures applicable to the Project, appropriate disciplinary measures will be taken.	Response to CPDFN IR 10.09; SRFN IR 5.09	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Pre-construction Project Construction	All	All personnel working on Project components have completed environmental orientations.	Construction Managers
167	CPDFN SRFN	Environment	Issues brought to the attention of NGTL will be detailed and tracked within the Environmental Issues List (EIL) for inclusion in the PCM Program.	Response to CPDFN IR 7.03; SRFN IR 4.03	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Pre-construction Project Construction Post-Construction	All		Environmental Planners, Project Managers, Post-Construction team
168	CPDFN SRFN	Environment	During the aerial reconnaissance, any areas that display vegetation establishment issues will also be noted, delineated by Kilometer Post (KP), and tracked within the EIL.	Response to CPDFN IR 7.03; SRFN IR 4.03	B13-05 (A4T2G7) B13-07 (A4T2G9)	In Progress	Post-Construction	All	First year PCRM reports filed January 24, 2019 for the following components (A97613): <ul style="list-style-type: none">Grande Prairie Mainline Loop No. 2 – MacLeod River SectionLiege Lateral Loop No. 2 – Pelican Lake SectionKettle River Lateral Loop – Christina River SectionAlces River Compressor Station Unit Addition NGTL will file the Post Construction Reports (PCMR) for the Boundary Lake Section, Bear Canyon Section and Otter Lake Compressor Station Unit Addition in January 2020 as these components were not ready to be assessed during the summer of 2018 for submission of PCMR.	Environmental Planners, Project Manager
169	CPDFN SRFN	Environment	The EIL will be included as an Appendix to the PCM Program report, and updated annually during the duration of the PCM Program following further assessments and repair work.	Response to CPDFN IR 7.03; SRFN IR 4.03	B13-05 (A4T2G7) B13-07 (A4T2G9)	In Progress	Post-Construction	All	First year PCRM reports filed January 24, 2019 for the following components (A97613): <ul style="list-style-type: none">Grande Prairie Mainline Loop No. 2 – MacLeod River SectionLiege Lateral Loop No. 2 – Pelican Lake SectionKettle River Lateral Loop – Christina River SectionAlces River Compressor Station Unit Addition NGTL will file the Post Construction Reports (PCMR) for the Boundary Lake Section, Bear Canyon Section and Otter Lake Compressor Station Unit Addition in January 2020 as these components were not ready to be assessed during the summer of 2018 for submission of PCMR.	Post-Construction Monitoring team

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170	CPDFN SRFN	Environment	Prohibited Noxious and Noxious weeds on the ROW will be managed as per the Alberta Weed Control Act.	Response to CPDFN IR 7.03; SRFN IR 4.03	B13-05 (A4T2G7) B13-07 (A4T2G9)	In Progress	Post-Construction	All		Environmental Planners, Project Manager, Construction Managers
171	CPDFN SRFN	Environment	...intact roots and seedbed can facilitate natural recovery and revegetation. This will be measured during the PCM Program by including a visual comparison of species and growth characteristics between the construction ROWs and adjacent lands and/or pre-construction conditions on all land uses.	Response to CPDFN IR 7.03; SRFN IR 4.03	B13-05 (A4T2G7) B13-07 (A4T2G9)	In Progress	Post-construction	All	First year PCRM reports filed January 24, 2019 for the following components (A97613): <ul style="list-style-type: none">Grande Prairie Mainline Loop No. 2 – MacLeod River SectionLiege Lateral Loop No. 2 – Pelican Lake SectionKettle River Lateral Loop – Christina River SectionAlces River Compressor Station Unit Addition NGTL will file the Post Construction Reports (PCMR) for the Boundary Lake Section, Bear Canyon Section and Otter Lake Compressor Station Unit Addition in January 2020 as these components were not ready to be assessed during the summer of 2018 for submission of PCMR.	Post-Construction Monitoring team
172	CPDFN SRFN	Environment	During preconstruction survey, as well as clearing and grading operations, Environmental Inspectors will mark wildlife trails and identify other areas where mitigation measures such as gaps will be implemented to facilitate wildlife movement during construction.	Response to CPDFN IRs 4.11; SRFN IR 1.11	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Pre-Construction	All	Environmental Inspectors have been working with survey, clearing and grading personnel to identify and mark wildlife trails and other features (e.g. watercourses) that may warrant gaps in windrows to facilitate wildlife movement during construction.	Environmental Inspectors
173	CPDFN SRFN	Environment	Environmental Inspectors will identify locations for rollback in the field and in consultation with wildlife specialists.	Response to CPDFN IR 4.11; SRFN IR 1.11	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Post-Construction	All		Environmental Inspectors
174	CPDFN SRFN	Environment	Mitigation measures such as placement of rollback, vegetation planting, and other reclamation measures to restore elements of wildlife habitat will be evaluated during the Post-construction Monitoring (PCM) Program as well as during routine surveillance of the pipeline ROWs during operations.	Response to CPDFN IR 4.11; SRFN IR 1.11	B13-05 (A4T2G7) B13-07 (A4T2G9)	In Progress	Post-Construction	All	First year PCRM reports filed January 24, 2019 for the following components (A97613): <ul style="list-style-type: none">Grande Prairie Mainline Loop No. 2 – MacLeod River SectionLiege Lateral Loop No. 2 – Pelican Lake SectionKettle River Lateral Loop – Christina River SectionAlces River Compressor Station Unit Addition NGTL will file the Post Construction Reports (PCMR) for the Boundary Lake Section, Bear Canyon Section and Otter Lake Compressor Station Unit Addition in January 2020 as these components were not ready to be assessed during the summer of 2018 for submission of PCMR.	Post-Construction Monitoring team
175	CPDFN SRFN	Environment	In the event that implemented mitigation measures (e.g., woody debris, regenerating vegetation) are disturbed as a result of third party crossings, operations or maintenance activities for the Project, NGTL will evaluate the need for reclamation, replacement or repair. This will be determined considering the extent of the disturbance and the surrounding conditions, or in consultation with appropriate regulators, if warranted.	Response to CPDFN IR 4.11; SRFN IR 1.11	B13-05 (A4T2G7) B13-07 (A4T2G9)	To be implemented if needed	Post-Construction	All		Environmental Planners, Project Manager, Construction Managers

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176	CPDFN SRFN	Environment	Where no known limitations to normal management and ecosystem function are evident (i.e., the site is on a trajectory to equivalent land capability) during the 5-year monitoring timeframe for the PCM Program, mitigation is determined to be successful and the environmental issues resolved. In the event that construction-related issues persist, adaptive management measures and further monitoring will continue until measures are considered to be effective and the issue resolved.	Response to CPDFN IR 4.11; SRFN IR 1.11	B13-05 (A4T2G7) B13-07 (A4T2G9)	In Progress	Post-Construction	All	First year PCRM reports filed January 24, 2019 for the following components (A97613): <ul style="list-style-type: none">Grande Prairie Mainline Loop No. 2 – MacLeod River SectionLiege Lateral Loop No. 2 – Pelican Lake SectionKettle River Lateral Loop – Christina River SectionAlces River Compressor Station Unit Addition NGTL will file the Post Construction Reports (PCMR) for the Boundary Lake Section, Bear Canyon Section and Otter Lake Compressor Station Unit Addition in January 2020 as these components were not ready to be assessed during the summer of 2018 for submission of PCMR.	Post-Construction Monitoring team
177	CPDFN SRFN	Environment	In addition to construction practices that facilitate regeneration on the Project footprint, NGTL will restore disturbed habitat on the Project Footprint within caribou range.	Response to CPDFN IR 4.15; SRFN IR 1.15	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	Boundary Lake Section Pelican Lake Section		Environmental Planners, Project Manager, Construction Managers
178	CPDFN SRFN	Environment	In the event that an active nest is found, it will be subject to site-specific mitigation measures (e.g., clearly marked species-specific buffer around the nest or non-intrusive monitoring)." Protective buffers will be applied based on species-specific federally or provincially recommended setback distances (e.g., Environment Canada 2011, Government of Alberta 2011, 2013).	Response to CPDFN IR 4.22; SRFN IR 1.22	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Planning Project Construction	All		Environmental Planners, Construction Managers
179	CPDFN SRFN	Environment	NGTL is preparing a Migratory Bird Management Plan, which will be appended to the EPPs and submitted to the NEB on September 30, 2015.	Response to CPDFN IR 4.22; SRFN IR 1.22	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All	Final EPPs and Environmental Alignment Sheets filed September 7, 2016 (A79329). Updated EPP and Environmental Alignment Sheets for the Pelican Lake Section filed October 14, 2016 (A5F9T2; A5F9T3)	Environmental Planners
180	CPDFN SRFN	Environment	As part of routine activities on the ROW, the Environmental Inspector will provide feedback through the Construction Manager to the contractor on a case by case basis if it appears that local conditions do not support the speed limit imposed, or if areas of specific concern are identified that might warrant further speed reductions or signs.	Response to CPDFN IR 4.24; SRFN IR 1.24	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Project Construction	All		Environmental Inspectors
181	CPDFN SRFN	Temporary access	After construction, temporary access roads will be reclaimed. With the exception of the McLeod River Section, all Project components will use existing roads for access and no new road upgrading will be required.	Response to CPDFN IR 6.03; SRFN IR 3.03	B13-05 (A4T2G7) B13-07 (A4T2G9)	Complete	Post-construction	All		Project Manager, Construction Managers
182	Gunn Métis Local 55	Aboriginal Employment	NGTL will meet with GML 55 to discuss and evaluate their business and labour capacity, including training requirements.	Response to GML IR 1.04	B13-06 (A4T2G8)	Complete	Project Planning	McLeod River Section	NGTL met with GML 55 on October 6, 2016 to discuss the Project, including opportunities for education and training support. NGTL followed up by email on October 11, 2016 to invite further discussion regarding education and training. NGTL spoke to GML 55 in November 2016 regarding education and training opportunities. GML 55 advised NGTL that they may offer a driver's training program in 2017. Discussions regarding NGTL's support for this initiative are ongoing. Construction on the McLeod River Section is complete.	Indigenous Relations Contracts Advisor, Project Manager

2017 NGTL System Expansion Project – Commitment Tracking Table No. 25 (March 31, 2015 to November 31, 2019)

Commitment Number	Commitment To	Category	Description of Commitment	Source	Document Reference (Exhibit, [NEB Filing ID])	Status/Estimated Timeline	Project Phase	Project Component	Comments	Accountability
183	Gunn Métis Local 55	Aboriginal Employment	As the project advances, NGTL will provide more detail to the potentially affected Aboriginal communities on contracting and employment opportunities that might be available.	Response to GML IR 1.04	B13-06 (A4T2G8)	Complete	Project Planning	McLeod River Section	NGTL met with GML 55 on October 7, 2016 to review contracting opportunities, and GML 55 advised NGTL that their contracting capacity is limited. GML 55 and NGTL agreed to focus on training and education opportunities. GML 55 will be participating in the Aboriginal Monitoring program. NGTL's Prime Contractor for the McLeod River Section released the request for proposal (RFP) for specific services to GML 55 on November 10, 2016. Construction on the McLeod River Section is complete.	Indigenous Relations Contracts Advisors, Project Managers
184	Gunn Métis Local 55	Aboriginal Engagement	Should additional issues or concerns, traditional use sites or features be identified through ongoing engagement and TLU study by GML 55, these will be considered for incorporation into Project planning, including the EPPs and the Environmental Alignment Sheets, as appropriate.	Response to GML IRs 1.01 and 1.02	B13-06 (A4T2G8)	Complete	Project Planning	McLeod River Section	Final EPPs and Environmental Alignment Sheets filed September 7, 2016 (A79329).	Environmental Planners, Indigenous Relations Engagement Leads, Project Managers
185	Gunn Métis Local 55	Aboriginal Engagement	NGTL will propose mitigation measures to address any identified adverse effects and provide them to GML 55 in written form for review and discussion.	Response to GML IR 1.02	B13-06 (A4T2G8)	Complete	Project Planning	McLeod River Section	GML 55 completed a TLU Study in September 2015, and filed non-confidential TLU information with the Board on September 23, 2015 and November 19, 2015 (A72705 and A74128). NGTL's report on outstanding TLU investigations describes how this information was considered and addressed in Project planning (filed September 1, 2016; A5E8W9).	Indigenous Relations Engagement Leads, Project Managers
186	Gunn Métis Local 55	Aboriginal Engagement	For the operations phase of the Project, Aboriginal and stakeholder engagement programs will be transitioned to the PA Program.	Response to GML IR 1.03	B13-06 (A4T2G8)	Complete	Operations	All	Aboriginal and stakeholder engagement programs have been transitioned to TransCanada's Public Awareness (PA) Program.	Operations
187	Gunn Métis Local 55	Aboriginal Engagement	NGTL will ensure that GML 55 are included in its PA and system-wide emergency management plans during the operations phase of the Project and provided information about steps to take in the event of an emergency.	Response to GML IR 1.03	B13-06 (A4T2G8)	Complete	Operations	McLeod River Section	GML 55 has been included on the list of communities that NGTL will offer to meet with concerning its emergency response procedures during operation. In the event of an emergency, GML 55 will be directly contacted and advised of the situation.	Operations
188	Gunn Métis Local 55	Emergency Response	The emergency management plans will include communications protocols, including current contact information for all potentially affected Aboriginal groups. In the event of an emergency, the regionally based Aboriginal and Community Liaisons will contact the community representative identified in the emergency response plan and share information related to the situation.	Response to GML IR 1.03	B13-06 (A4T2G8)	Complete	Project Planning Operations	All	Emergency Response Plans filed September 28, 2016 (via courier).	Operations
189	Gunn Métis Local 55	Safety	During worker and contractor orientation sessions, the requirement for safe and respectful use of community facilities and the need for respectful behaviour while travelling out of the camp will be emphasized.	Response to GML IR 1.05	B13-06 (A4T2G8)	Complete	Project Construction	All	Orientation sessions, which include respectful behavior content, have been completed for all personnel working on the Project components.	Construction Managers
190	Gunn Métis Local 55	Safety	Before beginning work on the Project, all workers will receive a Project orientation and be advised that if they show disregard for the policies and plans applicable to the Project, appropriate disciplinary measures will be taken.	Response to GML IR 1.05	B13-06 (A4T2G8)	Complete	Project Construction	All	Orientation sessions have been completed for all personnel working on the Project components.	Construction Managers

2017 NGTL System Expansion Project – Commitment Tracking Table No. 25 (March 31, 2015 to November 31, 2019)										
Commitment Number	Commitment To	Category	Description of Commitment	Source	Document Reference (Exhibit, [NEB Filing ID])	Status/Estimated Timeline	Project Phase	Project Component	Comments	Accountability
191	Métis Nation of Alberta	Aboriginal Engagement	NGTL will continue engagement activities with MNA–Region 6 to address any potential Project-related concerns identified by Cadotte.	Section 8.0, AWE	B17-02 (A4T8Q5)	Complete	Project Planning	Otter Lake Unit Addition	NGTL has continued to provide notification of compliance filings to MNA–Region 6, as applicable, and remains available should any issues be raised from MNA–Region 6. Otter Lake Unit Addition placed in-service December 7, 2017.	Indigenous Relations Engagement Lead
192	Saddle Lake Cree Nation	Aboriginal Engagement	NGTL remains available to engage with Saddle Lake and will respond to any requests or concerns Saddle Lake has regarding the Project.	Section 8.0, AWE	B17-02 (A4T8Q5)	Complete	Project Planning	Pelican Lake Section Christina River Section Otter Lake Unit Addition	NGTL has continued to provide notification of compliance filings to Saddle Lake, as applicable, and remains available should any issues be raised from Saddle Lake.	Indigenous Relations Engagement Lead
193	Samson Cree Nation	Aboriginal Employment	NGTL committed to sharing additional information regarding the Project’s expected Supply Chain Management process.	Errata to AWE	B18-01 (A4U0R8)	Complete	Project Planning Project Construction	All	NGTL shared supply chain information with Samson Cree Nation in October 2016.	Indigenous Relations Contracts Advisors
194	Sunchild First Nation	Aboriginal Employment	NGTL will have Supply Chain Management follow up with SFN to review in greater detail.	Appendix 8-1; AWE	B17-07 (A4T8R0)	Complete	Project Planning	McLeod River Section	NGTL conducted preliminary discussions with Sunchild First Nation regarding contracting opportunities in October 2016. NGTL began contract award discussions with Sunchild First Nation on December 8, 2016.	Indigenous Relations Contracts Advisors
195	SRFN	Environment	Monitoring plans, mitigation and any offsetting requirements will be in compliance with all federal and provincial permits and approvals.	Response to SRFN IR 3.16	B13-07 (A4T2G9)	Complete	Project Construction	All	Commitment relates to fish and fish habitat - mitigation will be implemented during Project construction under appropriate permits/approvals; no Fisheries Act authorizations are anticipated for the Project.	Environmental Planners, Project Managers
196	SRFN	Environment	Construction will be adjusted to accommodate the springs. For example, avoidance of springs is preferred for construction camps, and along the pipeline route, subsurface drainage controls may be implemented.	Response to SRFN IR 2.06	B13-07 (A4T2G9)	Complete	Project Construction	All	Springs were not encountered during construction of camps associated with the Project. Where seeps were encountered during pipeline construction, measures were implemented to control water such as the installation of berms or ditch plugs.	Environmental Planners, Project Managers, Construction Managers
197	SRFN	Environment	Where appropriate, NGTL will use minimum disturbance construction and will salvage surface soils in areas that require grading.	Response to SRFN IR 1.15	B13-07 (A4T2G9)	Complete	Project Construction	All	Minimal surface disturbance construction methods used wherever possible in the Green Area. Surface material was salvaged in areas where grading was required and then replaced during machine cleanup.	Environmental Planners, Project Managers, Construction Managers
198	SRFN	Environment	During preconstruction surveys, clearing and grading operations Environmental Inspectors will mark migration corridors and identify other areas where mitigations such as gaps will be implemented to facilitate wildlife movement during construction.	Response to SRFN IR 1.01	B13-07 (A4T2G9)	Complete	Pre-Construction	All	Environmental Inspectors have been working with survey, clearing and grading personnel to identify and mark wildlife trails and other features (e.g. watercourses) that may warrant gaps in windrows to facilitate wildlife movement during construction.	Environmental Inspectors
199	SRFN	Environment	The Supplemental Wildlife Modelling Report being prepared for the Project, which will be filed with the NEB on September 30, 2015, includes a zone of influence related to roads in the moose habitat models.	Response to SRFN IR 1.18	B13-07 (A4T2G9)	Complete	Project Construction	All	Supplemental Wildlife Modelling Report filed as part of NGTL's AWE on September 30, 2015 (B17-19; A4T8S2).	Environmental Planners
200	SRFN	Environment	If monitoring reveals suspended sediment values are approaching threshold values, the water quality monitors will notify the Environmental Inspector(s) and work with them to develop corrective actions. If corrective actions are not successful, construction activities will be temporarily suspended until effective solutions are identified.	Response to SRFN IRs 2.03 and 2.05	B13-07 (A4T2G9)	Complete	Pre-construction	All	Water quality monitoring was undertaken by environmental consultants as committed in the EPPs and managed in collaboration with the Environmental Inspectors. Final construction of the Boundary Lake Section continued to adhere to this commitment.	Environmental Planners, Construction Managers
201	Woodland Cree First Nation (WCFN)	Aboriginal Engagement	NGTL will ensure that WCFN is included in its PA program during the operations phase of the Otter Lake Unit Addition.	NGTL Reply Evidence	B35-02 (A4Y0Q9)	Complete	Operations	Otter Lake Unit Addition	Otter Lake Unit Addition placed in-service December 7, 2017. Public Awareness program now in effect.	Indigenous Relations Engagement Lead