



Volume 4 – 2010 Update

ENBRIDGE NORTHERN GATEWAY PROJECT

March 2011

Update to Sec. 52 Application for the Enbridge Northern Gateway Project

Preface

This update to Volume 4 provides a summary of public consultation activities that occurred in 2010, subsequent to the consultation included in the Northern Gateway Application filed on May 27, 2010, and includes information on:

- regulatory requirements
- Community Advisory Boards
- technical meetings
- the Quantitative Risk Analysis Working Group
- employment, training and business initiatives
- community meetings
- Northern Gateway Alliance
- community investment and benefits
- communications
- landowner consultation
- route refinements in response to stakeholder input

The structure of this Volume 4 update follows the list of updated consultation activities rather than the structure of Volume 4 in the Application. All appendices to this Volume 4 update are being provided on compact disc at the back of this binder. The Volume 5 update on Aboriginal consultation will be filed separately, at a later date.

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Abbreviations

Alliance, the.....	Northern Gateway Alliance
ASRD	Alberta Sustainable Resources Development
CAB.....	Community Advisory Board
CD	compact disc
CDS	Casualty Data Survey
DFO.....	Fisheries and Oceans Canada
DNV	Det Norske Veritas
ENGO.....	environmental non-governmental organization
HDD	horizontal directional drilling
JRP	Joint Review Panel
MOU.....	memorandum of understanding
NEB	National Energy Board
NTSB.....	National Transportation Safety Board
PHRCC.....	Petroleum Human Resources Council of Canada
Project, the.....	Enbridge Northern Gateway Project
Q1	first quarter
QRA	quantitative risk analysis
RoW	right-of-way
TDR.....	technical data report
TRC	TERMPOL Review Committee

1 Introduction

Throughout 2010, the primary objective of Northern Gateway’s public consultation program remained to engage participating Aboriginal groups and stakeholders transparently and meaningfully, and in a safe and respectful way. Stakeholders include: local communities, landowners, environmental non-governmental organizations (ENGOs), regulatory agencies, and federal and provincial government representatives. As a result of filing the Application in May 2010, Northern Gateway has seen an increase in interest in the Enbridge Northern Gateway Project (the Project) by all stakeholders. Northern Gateway has made concerted efforts to provide opportunities to share information, solicit feedback and consider stakeholder input for project refinements, where practical.

Northern Gateway’s public consultation program is designed to continue to:

- provide stakeholders with up-to-date information about the Project, its opportunities and benefits (including long-term sustainable benefits such as employment, business and training initiatives)
- provide technical presentations on general pipeline construction and the oil and gas industry as well as project-specific information on route selection, watercourse crossings, pipeline integrity, marine safety plans and oil spill preparedness
- provide general information on pipeline operations and maintenance
- inform individuals and groups about the regulatory filing and process
- foster an exchange of information in a safe and respectful environment
- provide opportunities for individuals and groups to express their interest and concerns, and have Northern Gateway respond to, and provide considered feedback on, expressed concerns and interests

These engagement opportunities have taken the form of face-to-face meetings, presentations, public forums, technical meetings, community meetings, Community Advisory Boards (CABs) and sponsorship events. Communication tools have included direct telephone contacts, direct mailouts, emails, brochures, website postings, eBlasts, advertisements, project fact sheets and other forms of media communication. Since December 31, 2009, there have been nearly 4,000 exchanges with stakeholders.

From an engagement perspective, the Project is complex and not without challenges. The Project extends almost 1,200 km, through a variety of geographic and land use settings. As a consequence, the Project has resulted in expressions of concern and in debate over certain issues of policy and politics that do not lend themselves to resolution by a project proponent. Nevertheless, Northern Gateway is always prepared to listen to concerns, and to respond to them where practical.

In 2010, concerns were raised about marine oil spill effects and pipeline integrity as a result of the British Petroleum Deep Horizon underwater blowout in the Gulf of Mexico, and a line rupture on Enbridge’s Line 6B near Marshall, Michigan, which resulted in oil entering waterways, including the Kalamazoo River. Northern Gateway has endeavoured to provide direct answers to questions about the Line 6B event, even though the US National Transportation Safety Board (NTSB) has required that certain information under investigation by the NTSB in relation to the Line 6B rupture be kept confidential until

the NTSB authorizes its release, or until the investigation is complete and the NTSB has released its findings.

The CAB process and technical meetings program described below were important opportunities for Northern Gateway to provide information to the public about the safety record of the pipeline industry in general and Enbridge in particular. Northern Gateway accepts that in developing this Project, it should take all reasonable steps to design, construct and operate the Project safely and responsibly.

In 2010, although Northern Gateway conducted public consultation along the entire length of the pipeline right-of-way (RoW), the consultation efforts focused on communities west of Prince George (British Columbia Central and British Columbia Coastal regions). The decision to focus on these regions was largely because these particular regions were less familiar with the pipeline and oil and gas industries in general, and with Enbridge as a company specifically. This Update provides a summary of the consultation, and includes updates to:

- regulatory requirements
- Community Advisory Boards
- technical meetings
- the Quantitative Risk Analysis (QRA) Working Group
- employment, training and business initiatives
- community meetings
- Northern Gateway Alliance (the Alliance)
- community investment and benefits
- communications
- landowner consultation
- route refinements in response to stakeholder input

2 Regulatory Requirements

In compliance with its regulatory obligations, Northern Gateway routinely updates stakeholders with information on the regulatory process, using the project's communication materials, including the updated 2010 brochure, e-newsletters, community presentations, and direct mail or fax. Also, Northern Gateway typically begins community meetings, technical presentations, CAB meetings, and other events by:

- informing participants of any updates to the regulatory process
- informing participants where they can locate the Joint Review Panel (JRP) website, which contains all filings and correspondence with the JRP
- explaining how participants can obtain answers to their questions and how they can participate in the regulatory process

Depending on the type of information being disseminated and in accordance with the expressed wishes of stakeholders, Northern Gateway sends email notifications, or letters or faxes or, in some cases, a combination of both (see Appendix A for an updated list of stakeholders by category).

In March 2010, stakeholders were sent, by mail, a project update (see Appendix B), which included:

- a National Energy Board (NEB) press release on the appointment of the JRP
- a letter announcing that the filing of the Application was imminent
- a pipeline route map
- information regarding the JRP process and background information on each of the appointed panel members

In May 2010, a press release (see Appendix C) and email was issued notifying stakeholders that the Northern Gateway regulatory application had been filed with the NEB. This was supplemented by an email notification (see Appendix D), which was sent to Northern Gateway's e-newsletter distribution list. In addition, a mailout (see Appendix E) was sent to Aboriginal groups, CAB members, commercial contacts, mainline shippers and government agencies. In some cases a hard copy or a compact disc (CD) of the Application was attached. Stakeholders were notified that hard copies or CDs were available upon request. A copy of the Application was also posted on the project website.

A team of Northern Gateway representatives also made personal telephone calls to all mayors along the RoW, notifying them of the Application filing on May 27, 2010. Northern Gateway chose to contact community leaders such as mayors personally. It has been Northern Gateway's experience that this is an efficient and effective way of disseminating accurate and timely information to a broad group of stakeholders, as individuals will often contact their local leaders with questions.

In an effort to provide stakeholders with easy access to the Application, Northern Gateway also delivered hard copies of the Application, for public viewing, to 17 public libraries in communities along the RoW (see Appendix F for library locations).

On July 5, 2010, the JRP issued a Procedural Direction requesting comments on three topics:

- the draft list of issues
- additional information that Northern Gateway would be required to file
- locations of the oral hearings

In July 2010, in accordance with the JRP Procedural Direction, Northern Gateway sent a notification to stakeholders by mail and e-newsletter. Official notice was also placed in 21 media publications, as directed by the JRP.

The JRP held sessions to hear oral comments from the public and Aboriginal groups on the three topics, and offered the opportunity for participants to provide written comments. Participants included Aboriginal groups, ENGOs, landowners and the general public. The oral sessions were held in:

- Whitecourt, Alberta on August 10 and 11, 2010
- Kitimat, British Columbia on August 31 to September 2, 2010
- Prince George, British Columbia on September 8 and 9, 2010

Northern Gateway attended all three sessions and heard firsthand the stakeholder and Aboriginal group comments and concerns about the Project and the Application. As an immediate result, Northern Gateway undertook to file the technical data reports (TDRs) formally with the JRP. Although the TDRs had been posted on the Northern Gateway website for some time, they were not easily accessible by all stakeholders or Aboriginal groups. Northern Gateway also posted the Pipeline Route Atlas on its website, in response to enquiries. At Prince George, Northern Gateway advised that it would file the updated Pipeline Route Atlas later in 2010, to reflect all 2010 pipeline route adjustments. As a result of comments and feedback given by stakeholders at a variety of forums, Northern Gateway undertook to provide additional information on oil spill response planning in a General Oil Spill Response Plan.

On October 28, 2010, Northern Gateway formally filed its responses to the Panel Sessions. The filing consisted of three parts:

- Northern Gateway's response to the submission, dated September 2010, filed by Government of Canada departments
- Northern Gateway's responses to public and Aboriginal oral and written remarks on additional information
- Northern Gateway's written submission in response to the Procedural Direction

On December 23, 2010, the JRP indicated that it would release its response to the comments received and heard during the Panel Sessions, and provide further direction in early 2011.

In addition to filing the Application and participating in the Panel Sessions, Northern Gateway filed updated information with the JRP (see Table 1-1).

Table 1-1 Updated Information Filed with the JRP

Date	Filing
August 18, 2010	Update to Volume 3: Preliminary HDD Feasibility Assessments and Preliminary Geotechnical HDD Feasibility Assessments
October 25, 2010	Volume 6C: Environmental and Socio-economic Assessment (ESA) – Human Environment, Section 4.4: Regional Social and Economic Effects
October 26, 2010	Terrestrial TDRs Marine TDRs
October 29, 2010	Risk TDRs
December 17, 2010	Updated information for Volumes 1, 3, 6A and 6C

All updates were posted on the Northern Gateway website. Additionally, notifications to Aboriginal groups and stakeholders were sent by mail or e-newsletter.

The JRP released its Panel Session and Results and Decision (Decision) on January 19, 2011 and decided:

1. Additional information on the design and risk assessment of the proposed project is required. Once the additional information is received a Hearing Order will be issued.
2. It would make changes to the draft List of Issues.
3. Hearing locations will be in proximity to the pipeline and marine components of the project. Specific hearing locations will be decided at a later date.

The JRP noted that Northern Gateway is expected to file an update in the near future of its consultation activities and as appropriate through the joint review process. Therefore the JRP did not believe it necessary or appropriate to require additional consultation information before they could proceed with issuing a hearing order. This filing is an example of Northern Gateway meeting that commitment. Northern Gateway will continue to provide the JRP, stakeholders and participant Aboriginal groups with updated information.

3 Community Advisory Boards

An integral part of the Northern Gateway public consultation and Aboriginal engagement programs has been the CAB meeting process. CABs have been designed to be inclusive of diverse community interests in the five geographic regions along the proposed RoW. Participants include representatives from environmental groups, Aboriginal groups, business associations, municipal governments and the public. The CAB participants are as varied in their backgrounds as they are in their views regarding the Project. Participation in the CAB process does not equate with support for the Project.

CAB meetings exemplify broad stakeholder consultation and engagement practices. They are an example of diverse groups being able to come together to share varied viewpoints and experiences. Meaningful dialogue is encouraged, opportunities for learning are created, and relationships that are mutually beneficial and respect the interests and integrity of all the parties are developed.

Participation in the CAB process requires substantial commitment and dedication. CAB meetings are all-day sessions and many members are required to drive long distances to participate. In recognition of this commitment, registered CAB members or their alternates are offered an honorarium for their time, and reasonable expenses are reimbursed. Although CAB meetings are funded by Northern Gateway, CAB meeting agendas and operational guidelines are driven by the CAB membership and are facilitated by a third-party moderator.

3.1 Regional CAB Meetings

Each regional CAB meets quarterly; a quarterly meeting of all five regional CABs is referred to as a round. In 2010, Northern Gateway held four rounds of CAB meetings (Rounds 4 to 7) along the RoW:

- Round 4 – February 2010
- Round 5 – May to June 2010
- Round 6 – September 2010
- Round 7 – November to December 2010

Additionally, two CAB Sharing Table meetings were held: the first in July 2010 and the second in December 2010 (see Appendix G for CAB-related documentation, including lists of participants by category, meeting agendas, presentations and the final versions of the Terms of Reference and Operational Guidelines).

The following highlights some of the key accomplishments of the CAB meetings in 2010:

1. Early in 2010, the regional CAB members collectively amended and ratified the CAB Terms of Reference and Operating Guidelines under which subsequent meetings would operate.

2. A CAB membership was established as per the Terms of Reference. The deadline for CAB membership was March 31, 2010, as agreed to in the CAB Terms of Reference. There are currently 120 CAB members. However, Northern Gateway routinely sends out over 450 invitations to CAB members, alternates and observers; other participants are always encouraged to attend as observers. On average, the number of attendees at each round of regional CAB meetings has been 105 people.
3. Priority areas for discussion were established and used in the regional CAB meetings in Rounds 4 to 7, to identify presentations and topics for discussion. Northern Gateway representatives or external experts gave presentations on topics such as marine and shipping safety, oil spill liability and response, community socio-economic impacts and benefits, Aboriginal traditional use, the engagement process and project legacy. Each presentation was followed by a question-and-answer session.
4. CAB members expressed a desire to have a central location where CAB-related documentation was easily accessible and where discussions on various topics could take place. As a result, a CAB Facebook page was created.
5. An attempt was made to re-engage participants who had not attended since Round 1 in 2009. In response to a specific request by CAB members at the British Columbia North Coastal CAB meeting in Round 5, Northern Gateway, on their behalf, sent invitations to 52 attendees from the inaugural British Columbia North Coastal CAB meeting. This included seven ENGOs who had opted out of the CAB process after Round 1 in 2009. A letter and survey on what attendees would like to gain from the CAB process was sent with the invitation (see Appendix H for a copy of the letter). Two responses to the invitations were received, but both respondents declined to re-engage. No responses to the survey were received.

The regional CAB meetings are designed to be an inclusive, respectful and safe process where community voices can be heard concerning the Northern Gateway Project. The CAB meetings are intended to be a place where ideas, not people, are challenged. With this understanding, the regional CAB meetings and the CAB Sharing Table meetings evolved over the course of the year. With each round of CAB meetings, processes that allowed for productive dialogue were implemented, creating an environment that allowed for increased knowledge of the Project and the regulatory process. At the Round 7 regional CAB meeting held in Edmonton on December 1, 2010, four opposition groups protested against the Project at two separate times. CAB members asked that the protesters respect the rules of engagement, as outlined in the operational guidelines. When the protesters refused to engage in a respectful manner, the CAB members decided to adjourn the meeting.

The regional CAB meetings will remain a key component of the overall Northern Gateway public consultation program. Regional CAB meetings present an opportunity for members to identify key areas of regional interest and concern, and for Northern Gateway to address these.

3.2 CAB Sharing Table Meetings

As per the CAB process Terms of Reference, two CAB Sharing Table meetings occur annually. Two representatives from each of the regional CABs attend to participate in discussions affecting all of the CABs. The general purpose of the CAB Sharing Table is to exchange issues, decisions and discussions that are occurring along the proposed pipeline route in the various regions, including:

- the potential benefits and effects that might apply to individual CABs or the CABs as a whole
- the opportunity for an exchange of information, increasing the whole CAB membership's knowledge base about the Project
- gaining a broader perspective on the Project, given the diversity of the social, economic, environmental and cultural characteristics along the proposed route, providing an opportunity for collaboration and networking as it may apply to the Project or to other ventures that might arise as a result of relationships being built
- providing an opportunity to listen, learn and share knowledge and experience

The CAB Sharing Table meeting membership reflects the diversity of the CAB membership as a whole.

3.2.1 First CAB Sharing Table Meeting (July 13, 2010)

On July 13, 2010, in Prince George, Northern Gateway held its first CAB Sharing Table meeting. The CAB Sharing Table consists of representatives from each of the CABs that have been established in the five regions along the pipeline route.

The purposes of the July 13, 2010 CAB Sharing Table meeting were to:

- receive information on the status of the Project and the JRP process
- share information from each of the five regional CABs
- work collaboratively to develop a presentation to Enbridge senior management for fall 2010
- begin to form meaningful relationships and networks
- gather information that could be brought back to the respective regions

Through the regional updates, attendees were able to determine the similarities and differences among the issues along the pipeline route, and committed to sharing that knowledge with their respective CABs at the Round 6 meetings. Issues of common interest were identified as:

- local hiring
- capacity building for communities and small businesses (e.g., training opportunities, skill development)
- local negotiation on products as a result of clearing the RoW

It was also agreed that a presentation would be made at the JRP panel session in Prince George. Consensus at the Sharing Table was that the proposed structure and content of the presentation be reviewed, discussed and affirmed at the local CAB level. A CAB Sharing Table representative

volunteered to make the presentation to the JRP panel in Prince George on September 8, 2010 on behalf of the CAB Sharing Table, but was unable to give the presentation. As a result, an alternate member made the presentation to the JRP.

It was also agreed that a presentation would be made to Northern Gateway senior management. The structure and content of the presentation was affirmed at the local CAB level before being delivered to Enbridge senior management at the Second CAB Sharing Table meeting on December 2, 2010.

3.2.2 Second CAB Sharing Table Meeting (December 2, 2010)

On December 2, 2010, the second CAB Sharing Table meeting took place in Edmonton. Representatives from each of the five regional CABs attended. The purpose of this meeting was to:

- exchange information among regional CABs
- request a memorandum of understanding (MOU) from Northern Gateway senior management
- tour the Enbridge control centre and Enbridge Terminal

On behalf of the CAB Sharing Table representatives, the independent facilitator presented to Northern Gateway senior management:

- an overview of the purpose of the CAB Sharing Table meetings
- the history of the CABs
- a description of the regional CAB membership and composition
- samples of regional priorities
- common issues among CABs

A request was made to formalize the relationship between the CABs and Northern Gateway through an MOU.

Both the CAB representatives and Northern Gateway senior management recognized the value of the CAB process. CAB members expressed their desire to realize actual benefit and see measurable results from their participation in the CAB process. Northern Gateway senior management reaffirmed that the CAB process is invaluable to respectful communication and that CABs offer long-term value to both the community and the company. Northern Gateway senior management committed to formalizing the relationship through an MOU that would clearly set out the terms of agreement, including the method of communicating and a commitment by Northern Gateway to develop the Project from a triple-bottom-line perspective, i.e.:

- respect for the environment
- maximizing local benefits
- recognizing cultural sensitivities

Northern Gateway committed to providing a draft MOU to the CAB membership by the end of Q1 2011, for their review.

4 Technical Meetings

Recognizing the positive response to the technical presentations at the CABs, Northern Gateway believed that similar types of presentations that reached a greater audience would benefit both stakeholders and Northern Gateway in their overall understanding of the facts, interests and concerns surrounding the Project.

Northern Gateway hosted three public community technical meetings in northern British Columbia, as an opportunity to provide specific information about pipeline integrity and safety, as well as local community benefits and opportunities.

Approximately 115 attendees signed in at the community technical meetings, which were held in September 2010 (see Table 4-1 for locations).

Table 4-1 Community Technical Meetings in September 2010

Date	Location
Tuesday, September 21, 2010 7:00 to 9:30 pm	Terrace, British Columbia: Terrace Best Western Hotel
Wednesday, September 22, 2010 7:00 to 9:30 pm	Kitimat, British Columbia: Riverlodge Recreation Centre
Thursday, September 23, 2010 7:00 to 9:30 pm	Burns Lake, British Columbia: College of New Caledonia

Stakeholders were notified of the community technical meetings in the following ways:

- Attendees at Round 6 CABs were notified during the meetings.
- The mayor and council of northern British Columbia communities along the RoW were alerted of the meetings in advance.
- Key media were alerted to the meetings by email.
- A project news eBlast was sent to over 10,000 contacts.
- Advertisements were placed in local newspapers.

The technical meetings were held during the evening, from 7 to 9:30 pm. They were staffed by Northern Gateway personnel and contract specialists from functional areas, such as engineering, Aboriginal affairs, public affairs, community relations, education and training, and project management.

Each session was moderated and involved panel presentations on pipeline integrity and safety, Aboriginal engagement, and local opportunities and benefits (see Appendix I for copies of presentations).

At the Burns Lake technical meeting on September 22, 2010, Northern Gateway set up a live webcast of the meeting to be made available to individuals who were unable to attend. The live webcast included video and audio recordings of the panel presentations and the question-and-answer period. The webcast

could be accessed by a link on the Northern Gateway website, which was also mentioned in the newspaper advertisement.

Other communication materials that were made available included:

- various display boards (extracted from existing display boards used during the 2008 open house program)
- a project route map
- the 2010 project brochure (see Appendix J)
- the NEB pamphlet: *A Proposed Pipeline or Power Line Project: What You Need To Know*

Attendees at the community technical meetings were given an evaluation form designed to gather feedback on the Project and the technical meeting program. Twenty evaluation forms were completed. Suggestions on topics of interest to community members are summarized as follows:

- monitoring systems for installing and operating the pipelines
- safety, leakages to pipeline, and more information on wildlife, rivers and lakes
- career opportunities that match qualifications
- becoming part of the project team in a First Nation coordinator capacity
- asset maintenance plan
- a recommendation that the Canadian Association of Petroleum Producers should be doing many television commercials on all aspects of technology applied to petroleum energy transportation, including profiling Northern Gateway
- potential revenue (five-year projection), specific markets in Asia
- the additional infrastructure that could be achieved in the Terrace region through wind power, hydroelectricity, fuel cells
- details of exact pipeline path and the route of the super tankers
- how to oppose or stop the Project
- background information on economic policy issues
- more information to trapline holders on compensation
- benefits for Elders, youth, children and grandchildren
- alternative energy capabilities, such as hemp biomass
- site-specific and detailed spill plans
- details on security and de-activation

Northern Gateway also routinely seeks input from stakeholders on how to enhance its public consultation program and how to refine communication tools to meet stakeholders' needs. The following summarizes stakeholder comments:

- reduce the anxiety, apprehension, fear and misinformation, and inform community leadership with facts
- send more information by mail
- offer workshops regarding training initiatives
- offer environmental workshops – what additional precautions will be taken on this project?
- send letters to ENGOs and special-interest groups offering presentations on the Project. If no response, record non-interest. If affirmative response, take advanced communicators to achieve the best possible outcome.
- continue to use email as a fast way of communicating
- make more information available to the public (town hall meetings)
- offer presentations for contractors
- have a longer question-and-answer period

Northern Gateway appreciates the feedback and is carefully considering the suggestions and evaluating the possibility of incorporating them into its consultation program. As a result of feedback, Northern Gateway has:

- changed the format of technical meetings to include a two-hour open house before the start of presentations, to allow an opportunity for stakeholders to ask questions and gather information in a more informal setting
- held technical meetings focused on environmental management
- increased project email communication to stakeholders
- created a quarterly newsletter sent by direct mail
- attended and participated in a community-organized public forum
- planned for workshops in 2011 that are specifically on business opportunities
- continued one-on-one meetings with mayors, councillors and chambers of commerce

Stakeholders have expressed a desire to continue to hold sessions similar to the technical meetings, so the public can ask Northern Gateway directly about the Project. Northern Gateway held six technical meetings in Q1 2011.

5 Quantitative Risk Analysis Working Group

In early 2009, Northern Gateway proposed a working group to oversee the completion of a casualty data survey (CDS) and a QRA (i.e., the QRA Study) of marine shipping and marine terminal operations. Both studies were in support of Northern Gateway's voluntary submission to Transport Canada's TERMPOL review process, which is a technical review of marine transportation and marine terminal operations (see the Application, Volume 8A).

Northern Gateway invited a broad range of stakeholders to participate in this unique opportunity to provide advice and input in the expert consultant team selection process. In addition, these stakeholders were given the opportunity to work directly with the consultant team to finalize the project scope and methods for conducting the CDS and QRA Study, and to comment on the studies before their submission to the Transport Canada TERMPOL Review Committee (TRC).

The group selected a qualified consultant, Det Norske Veritas (DNV). DNV prepared two reports, which were included in the Project's TERMPOL submission:

- TERMPOL Study No. 3.8: Casualty Data Survey
- Marine Shipping Quantitative Risk Analysis (i.e., the QRA Study)

The CDS examined worldwide, Canadian and regional trends related to marine shipping casualties. The QRA Study estimated the probability of incidents and spills associated with marine transportation and marine terminal operations for the Project.

The mandate of the QRA Working Group was to participate in, and review the CDS and QRA Study completed by DNV. The QRA Study was combined with environmental components to become TERMPOL Study 3.15: General Risk Analysis and Intended Methods of Reducing Risks. (For summaries of TERMPOL Studies 3.8 and 3.15, see the Application, Volume 8)

The QRA Working Group met on January 13 and 14, 2010 and agreed that the TERMPOL Study 3.8 draft provided by DNV could be submitted to the Transport Canada TRC. DNV also presented the draft QRA Study.

TERMPOL Studies 3.8 and 3.15, together with the stand-alone QRA Study prepared by DNV, were filed with the TRC on April 30, 2010.

As of March 2011, the Project's TERMPOL submission continues to be reviewed by the TRC. Upon completion of the TERMPOL review process, copies of the final TERMPOL Study 3.8 and QRA Study will be made available to the JRP.

Most of the QRA Working Group members were contacted in September 2010, and were advised that Northern Gateway was still open to further comments on the work. At that time, the majority advised that they were in favour of reconvening the group to discuss practical outcomes of the QRA Study, including emergency preparedness planning. Reconvening the group or incorporating the group into the existing Marine Community Advisory Board is under review by Northern Gateway.

6 Employment, Training and Business Initiatives

The Project will provide economic benefits to many individuals, businesses and communities during all phases of the Project. Northern Gateway continues to be involved in several initiatives designed to assist Aboriginal and non-Aboriginal individuals and communities to understand the types of opportunities and skills required to participate in project construction and operations. The information provided below will also be included in the Volume 5 update being filed separately at a later date, as these initiatives benefit both Aboriginal and non-Aboriginal stakeholders. Some of those initiatives include (see Appendix K):

- career fairs
- face-to-face meetings with Aboriginal groups
- presentations and information exchanges with community colleges, resource training organizations, and Chambers of Commerce

Stakeholders have expressed a clear desire for information related to employment opportunities, career development and business initiatives. Northern Gateway has made, and will continue to make, project information on employment and training initiatives widely available both in print and electronic format. This information is consistently made available throughout Alberta and British Columbia during community and Aboriginal open houses, at technical meetings, presentations, community forums, employment workshops, and on the Northern Gateway website and Facebook. The information is updated as new information becomes available. As a result of Northern Gateway's work in communities along the RoW, a Pipeline 101 workshop has been designed to provide another format for sharing information about the Project and about pipelines in general.

Northern Gateway recognizes the value and importance of working with community partners to identify community needs and to develop effective approaches to addressing those needs. For example, in 2010, Northern Gateway conducted an asset mapping workshop in partnership with Kitselas First Nation, to:

- identify and establish community-based services
- define and document existing capacity in the community, to:
 - build collaborative training relationships
 - broaden work opportunities with industry and business partners

Northern Gateway is planning similar asset mapping (capacity assessment) workshops in other communities in 2011.

In addition to working on capacity development, Northern Gateway also continues to work with colleges to align and forecast training needs with current and future college programs. Several meetings have taken place with the College of New Caledonia, Northern Lights College, and Northwest Community College in British Columbia, and with Northern Lakes College in Alberta. The Marine Campus of the British Columbia Institute of Technology has also been toured by Northern Gateway representatives.

Northern Gateway is committed to building strong training and education partnerships and does so through a number of workshops, events, meetings and committees. Northern Gateway has participated in several skill and career development workshops, events and meetings. The following outlines partnerships or training initiatives that Northern Gateway supported in 2010:

- Northern Gateway partnered with the University of Alberta's Canadian Indigenous Language and Literacy Development Institute and Women Building Futures, to offer a week-long introduction to the trades to the Young Women's Circle of Leadership summer program (July 2010).
- Northern Gateway is a member of Skill Builders, a training group in northern British Columbia, which includes partners from the oil and gas, pipeline and hydroelectric sectors. The primary goal of Skill Builders is the collaboration on educational and training initiatives in communities of shared interest. The group supports pre-employment training for Aboriginal groups, and is a forum for sharing industry training and employment information and practices for engaging Aboriginal employees.
- Northern Gateway supported a Workforce Transition Project in partnership with the Petroleum Human Resources Council of Canada (PHRCC) and Human Resources Development Canada. PHRCC worked with the career and educational resources in the communities of Kitimat, Terrace and Prince George to provide information and tools to assist displaced or vulnerable workers in making a transition to other occupations across sectors. This work has led to Northern Gateway's participation in a Government of British Columbia initiative targeting cross-sector human resource planning and involving forestry, oil and gas, mining and construction. The terms of reference and funding for this committee are currently under development.
- Northern Gateway is leading a Training Advisory Committee initiative with four craft unions and in partnership with the Pipeline Contractors Association of Canada. The group began meeting in 2010, and will continue to collaborate on maximizing training and employment opportunities in construction for Aboriginal communities.
- Northern Gateway partnered with the Construction and General Workers Union Local 92 and Alexis Nakota Sioux First Nation to deliver community-based labourer training. In June 2010, 24 students took part in pre-employment training related to construction.
- Northern Gateway supported the development of the Northeast Business Directory with other industry partners and through the Aboriginal Business and Wellness Centre in northeast British Columbia.

Training courses or special events that Northern Gateway has supported include:

- Northeast Native Advancing Society – Go Karts for Girls (July 2010)
- environmental training at Northern Lights College (Dawson Creek, British Columbia)
- scholarships for the Canadian Indigenous Language and Literacy Development Institute
- pre-employment and safety training including first-aid and H₂S Alive training as part of field assistants' orientation

Committee memberships or contributions that Northern Gateway has supported include:

- British Columbia Utilities Aboriginal Training Initiatives Committee – Skill Builders member
- PHRCC, Post-Secondary Stakeholder Advisory Group
- Heavy Industry Training Advisory Council (British Columbia)

Interest in project employment and business opportunities is high. In 2010 alone, 1,955 individual resumes and 128 business and contracting emails of interest were uploaded to the Project's website. Northern Gateway sent out an eBlast on January 13, 2011 (see Appendix L) to all database registrants to:

- confirm receipt of their resumes or their notice of business interest
- encourage registrants to use all public information sessions, including web-based formats, to keep current with project timelines

Northern Gateway will continue to connect regularly with all online registrants, and considers this database as an important indicator of capacity along the RoW and a source of potential employees and contracting businesses.

7 Community Meetings

In 2010, Northern Gateway has continued to be actively engaged with community leaders and members along the pipeline route. Through the community relations initiatives, two-way dialogue has occurred between the project team and potentially affected communities. Face-to-face meetings have enabled stakeholders to ask questions, identify and provide input on interests and concerns, and learn how to participate in the Project's economic opportunities. Engagement activities at the community level include:

- giving presentations to local governments, community business organizations and community groups such as Rotary Clubs, chambers of commerce and municipal councils
- arranging for project representatives to participate at key conferences and economic development events
- hosting technical meeting presentations that are open to the general public (see Section 4)
- conducting public information sessions
- maintaining a project interpretive centre in Kitimat, BC where people:
 - have direct access to a resident project representative
 - can learn more about the pipeline and oil and gas industry in general
 - obtain project-specific information
 - ask questions regarding the regulatory process
 - have their concerns and interests heard and addressed

In 2010, project representatives participated in more than 60 presentations and meetings with municipal leaders, community organizations, business associations and local residents. Northern Gateway has provided every regional district and county the pipeline route traverses and every municipality within 25 km of the RoW with a presentation on the Project (see Appendix M, for dates and locations of meetings and examples of typical presentations given in 2010). Northern Gateway representatives have met with communities all along the RoW to:

- develop good working relationships with community leaders and community members
- provide updated information about the Project and the regulatory process
- provide a point of contact for the Project, so community leaders have someone who is readily available to them

Project team members also regularly attend regional and provincial conferences. These are opportunities to provide project information, answer questions, address concerns, and engage in dialogue with community leaders. A full spectrum of project information and concerns is presented through presentations, receptions, tradeshow and information booths, and face-to-face networking opportunities. Northern Gateway participated in the following conferences in 2010:

- Natural Resource Forum (January 2010)

- Minerals North (April 2010)
- British Columbia Chamber of Commerce Annual General Meeting (May 2010)
- North Central Local Government Association (May 2010)
- Federation of Canadian Municipalities (May 2010)
- Resources Expo, British Columbia (June 2010)
- Union of British Columbia Municipalities (September 2010)
- Alberta Urban Municipalities Association (November 2010)

Northern Gateway seeks opportunities to communicate and consult with the public about the Project and is also willing to accept requests for externally organized meetings on the Project where an orderly, balanced and respectful discussion can occur. For example, in November 2010, the Mayor of Terrace, British Columbia extended an offer to Northern Gateway to participate in a public information session. Other presenters invited were Friends of Wild Salmon, a speaker representing an Aboriginal perspective, and the Mayor of the City of Dawson Creek. Northern Gateway was pleased to accept this opportunity for information exchange (see Appendix N), given the assurance that:

- the intent was to facilitate an education session about the Project that would attract the public to hear speakers representing different perspectives
- the meeting would be orderly and structured, maximizing the opportunity for members of the public to ask direct questions of panel members

Northern Gateway is hopeful that more of these sessions will occur in 2011 as they are an opportunity for the public to gain accurate information, hear differing viewpoints and to express their interests and concerns in a safe environment.

8 Northern Gateway Alliance

The Alliance is a community coalition that was formally launched in May 2009 at the North Central Municipal Association (now the North Central Local Government Association) conference in Dawson Creek, and was formed to support a comprehensive, fair and transparent regulatory review of the Project.

The Alliance provides the opportunity for people in pipeline corridor communities and elsewhere to share information about the Project, the regulatory review process and how people can participate in the review process. The Alliance membership continues to grow, increasing in 2010 from 470 to 582. The Alliance chairperson is a paid position funded by Northern Gateway, and Northern Gateway reimburses expenses incurred by the Alliance.

Consistent with its policy to keep stakeholders informed of accurate information in a timely way, Northern Gateway regularly communicated project and regulatory process information to Alliance members. In addition, the Alliance website (www.northerngatewayalliance.ca) continues to be the central communication tool for Alliance members, as it is updated regularly with messages from the chairperson, and other project information is posted regularly.

On March 18, 2010, John Carruthers, President of Northern Gateway, spoke to Alliance members about the Project at a breakfast meeting. In May 2010, briefing meetings were held along the proposed RoW in Kitimat, Terrace, Burns Lake, Prince George and Dawson Creek in British Columbia and, in Grande Prairie and Whitecourt in Alberta, to advise Alliance members of the pending regulatory application and the benefits of the Project (see Appendix O for May 2010 presentation materials).

9 Community Investment and Benefits

Northern Gateway supports cultural and community initiatives that help make communities better and more vibrant places to live. Northern Gateway achieves this goal by providing financial contributions to a wide range of cultural institutions and civic organizations, and by supporting social and human services initiatives.

Northern Gateway’s investments in “Community” refer to its support of the organizations that sustain the people in communities and the groups that give them a sense of well-being and belonging.

The scope of the organizations in this category is vast; they include various civic organizations and human and social services in the community.

Sustainable communities are made up of strong, healthy people who are proud of where they live. Northern Gateway’s support of the many organizations in its “Community” category help foster the kind of environment needed for strong, healthy people to thrive.

Northern Gateway invests in four areas:

1. culture and community
2. education
3. environment
4. health and safety

The specific objectives of the Northern Gateway community investment program continue to be to:

- develop a provincial, regional and community presence
- develop relationships with key community groups and agencies
- show commitment to communities through financial contributions that deliver benefits to as many people as possible

Northern Gateway uses the above principles and objectives to guide its evaluation of its community investment program. In 2010, Northern Gateway continued to adopt the “bottom up” approach, whereby communities are encouraged to identify where funds would be most effectively used to respond to community needs. Northern Gateway assesses each request to determine whether it meets the objectives of the community investment program. In 2010 alone, Northern Gateway has supported approximately 75 community investment initiatives in potentially affected communities along the proposed RoW, both in Alberta and British Columbia. Examples include tradeshows, charity golf tournaments, the Fallen 4 Marathon, business excellence awards, concerts and other community events.

10 Communications

An integral component of Northern Gateways' consultation program is providing timely and accurate information to stakeholders. As noted in previous sections, project information is continually produced, updated, and distributed through hand delivery, mail, email, postings on the project website, community presentations, advertising and social media outlets. As the Project has progressed, additional communication materials have been developed to provide information on topics such as:

- general pipeline construction
- the oil and gas industry as a whole
- project refinements
- studies on the marine component of the Project
- spill risk and response
- environmental assessments
- watercourse crossings
- wildlife mitigation
- marine mammals
- insurance and liabilities associated with marine transportation
- socio-economic benefits
- Aboriginal benefits
- pipeline integrity
- geotechnical work

The following sections provide an overview of the various communication tools that have been, and will continue to be, developed in support of the public consultation program activities.

10.1 Toll-Free Information Number

In June 2005, a toll-free information number (1-888-434-0533) was established for the Project. This service enables stakeholders or interested parties to telephone, free of charge, and leave a message with their contact information, and a description of the information they are seeking. Messages are checked daily between Monday and Friday. The Northern Gateway policy is to have someone acknowledge messages within two business days and then respond appropriately. To date, approximately 475 toll-free calls have been made.

10.2 Mailouts and Emails

In addition to project information provided during presentations, technical meetings, CAB meetings and at other forums, multiple project mailouts and emails were distributed to identified stakeholders in 2010. Northern Gateway uses emails and mailouts as a means of communicating with stakeholders. In 2005, the first project mailout was sent to approximately 1,200 stakeholders. Since then, the number of identified stakeholders has increased to over 10,000 email contacts.

In May 2010, a new project brochure (see Appendix J) was mailed out to recipients on the master stakeholder mailing list, which is updated frequently and includes stakeholders from categories such as:

- land and resource use
- landowners
- First Nation and Métis groups
- municipal, provincial and federal governments
- ENGOs and services
- non-governmental community organizations
- business interests
- contracting and employment interests
- academic and research institutions
- marine interests
- media
- general public interests

The new project brochure was also sent to a number of communities along the RoW. In total over 132,000 homes or businesses received the updated material.

10.3 Website

In 2010, Northern Gateway's Project website (www.northerngateway.ca) received a total of over 46,000 visits and 150,000 page views.

The most frequented pages of the website have been:

- the project route map
- project information 'Northern Gateway at a Glance'
- the employment opportunities page

A comparison of website analytical data from 2009 and 2010 showed an increase in 2010 in total visitors, page views and the average length of time each individual visited the website. The most important indicator that project interest had grown in 2010 was the substantial increase (almost 20%) in traffic to the website from search engines.

Northern Gateway has responded to this increased interest by continuously analyzing how stakeholders are accessing information, how stakeholders wish to access information, and by refining our communication tools and methods in order to respond to the communication needs of our stakeholders. Northern Gateway is committed to ensuring that stakeholders have the information they need to effectively participate in the Project review process.

10.3.1 Website Updates

Northern Gateway has continued to provide digital access to all communication materials via the project website. All eight volumes of the original regulatory application were uploaded to the website on the day the Application was filed with the NEB. A link to the entire Application is on the homepage of the website. The Application has been separated into various volumes as separate hyperlinked PDF files, so visitors can easily locate information that interests them.

Northern Gateway also uploaded TDRs, horizontal directional drilling (HDD) assessments, geotechnical reports, detailed route mapping, application volume updates, media statements, the new project brochure and over 35 fact sheets to the website as documents became available (see Appendix P for project fact sheets current as of March 2011, posted on the project website).

10.3.2 Advertising

A program of print, radio and television advertisements was created to provide an effective method of reaching stakeholders and the public. Northern Gateway uses this program to provide the public with timely and accurate information about the Project and the regulatory process.

To respond to questions regarding marine safety, economic benefits and environmental planning and protection, a program of newspaper advertisements was created and published in local newspapers along the RoW and in some major cities across Canada. The marine advertisement focused on the various safety enhancements the Project would bring to Canada's northwest coast, and explained the navigability of the Douglas Channel. The advertisements illustrated the many ways Northern Gateway was planning for the safe navigation of vessels into and out of the Kitimat Terminal and for the protection of British Columbia's coastal waters.

Three economic benefit advertisements were created to explain the national, Alberta and British Columbia economic benefits that are expected as a result of the Project. The advertisements included facts and figures about short-term and long-term job opportunities, provincial and federal direct and indirect tax revenues, and procurement of local goods and services.

The environmental planning and protection advertisement was developed to inform stakeholders and the public of the studies that have been undertaken by Northern Gateway to develop the Project and the proposed environmental plan.

The NEB procedural direction advertisements were developed at the direction of the NEB, to prepare and submit public notice advertisements for the JRP. The JRP was seeking comments from the public and Aboriginal groups on:

- the draft list of issues for the Joint Review
- additional information that Northern Gateway should be required to file
- locations for the hearings

Northern Gateway placed advertisements in publications as directed by the NEB.

10.4 Social Media

Northern Gateway has continued to use social media as another platform for communicating project information to stakeholder audiences. Northern Gateway maintains profiles on the following social media networks: Facebook, MySpace, Twitter, YouTube and Flickr. Profiles continue to be updated with new Project content as it is made available.

In 2010, Northern Gateway social media networks increased in popularity. For example, the Northern Gateway YouTube channel on the Kitimat Marine Plan Part 1 had an increase of 5,818 hits in 2010. Northern Gateway will continue to promote social media networks as one of the many platforms that those interested in the Project can use to learn about the Project and to receive timely updates.

10.5 Blogs

During 2010, the Northern Gateway blog (www.blog.northerngateway.ca) was redesigned and updated to enhance usability and functionality. During 2010, 25 blogs were posted, on such topics as ‘Seafaring Safeguards,’ ‘Public Input Important to Northern Gateway,’ and ‘CEO Pat Daniel Speaks about the Importance of Northern Gateway’.

10.6 Microsites

10.6.1 theothersideofthecoin.ca

In 2010, Northern Gateway’s microsite (www.theothersideofthecoin.ca) received 2,278 visitors and 3,709 page views.

Web analytics reveal that almost 93% of visitors to the site were new. This indicates that marine safety information about the Project was shared with a new audience. The two most popular pages on the site were World-Class Marine Safety and Economic Benefits.

10.6.2 northerngatewayjobs.ca

In 2010, the number of individuals who uploaded their resumes to Northern Gateway’s employment and business opportunity microsite (www.northerngatewayjobs.ca) continued to increase. From January 2010 to December 2010, Northern Gateway received 1,955 individual resumes and 128 business and contracting emails of interest. Nearly 3,400 individual job seekers have indicated their interest in

employment or business opportunities with the Project. This is a clear expression of public interest in the Project within the region. Northern Gateway appreciates this interest and plans to continue to follow up with these registrants as the Project moves through the regulatory approval process.

10.6.3 eBlasts

With over 10,000 subscribers, the Northern Gateway eBlasts (email) have proven to be a successful means of disseminating timely communications and project updates. Between January and December 2010, Northern Gateway sent eBlast messages to stakeholders on such topics as updates to regulatory filings, location and dates of technical meetings and the Enbridge Line 6B leak and cleanup effort.

11 Landowner Consultation

An important part of the overall public consultation program is to directly engage with private landowners and occupants, in a way that is mutually satisfactory to the parties, to:

- inform them of the Project
- solicit their feedback
- obtain their consent for studies and surveys
- record their comments, concerns and recommendations
- develop and implement a strategy to address those concerns, where possible

This landowner engagement is ongoing and evolving throughout the life of the Project. As Northern Gateway moves through the various project phases, all stakeholders, including landowners and occupants, will be appropriately engaged to provide new information and address outstanding concerns. As appropriate, various methods of consultation have been, and will continue to be, used. These may include telephone calls, electronic and paper correspondence and face-to-face interactions. Landowners are encouraged to attend community meetings and other forums as another means of receiving accurate information about the Project or as another avenue for providing their input.

In July through October 2010, 99% of all landowners and occupants within the applied-for 1-km-wide pipeline corridor, as well as those within 1.5 km of a pump station location, were personally consulted and provided with updated project information, landowner guides, project pamphlets and maps.

Northern Gateway will be consulting with new and existing landowners and occupants affected by the proposed reroutes as filed in the Update to Section 52 Application for the Northern Gateway Project (December 2010). These persons are currently being identified, and a program is being developed for implementation in spring 2011. This consultation initiative is expected to take approximately two to three months to complete. Where the proposed reroutes result in a landowner no longer being within the consultation area (i.e., the 1 km pipeline corridor or within 1.5 km of a pump station), they will be notified and disengaged.

As a result of Northern Gateway's stakeholder engagement efforts to date, a number of common landowner issues and concerns have been identified. Most concerns relate to detailed routing of the proposed pipeline RoW and compensation. See Appendix Q for a summary of the issues that have been raised by landowners and for Northern Gateway's responses to those concerns. Northern Gateway is committed to addressing these concerns with individual landowners. A program to consult with landowners on these identified issues will start in Q2 of 2011.

12 Concordance of Interests and Concerns with the Application

During 2010, many interests and concerns about the Project were raised by stakeholders. However, some of those interests and concerns are outside of the scope of the Project. Where interests and concerns are within the scope of the Project and have been addressed or assessed by Northern Gateway in its Application, updated concordance tables (see Appendix R) have been developed to direct stakeholders to the applicable section of the Application where their concerns or interests are discussed.

13 Route Refinements in Response to Stakeholder Input

Northern Gateway continues to be actively engaged with stakeholders in an effort to inform the public of accurate project information, but most importantly to listen to, and understand stakeholder concerns and, where practical, refine the Project's design, execution and operations to address some of these concerns. The following pipeline route and watercourse crossing refinements were described generally in both the Application and in the Volume 3, Section 2 update filed in December 2010. Further details are provided below.

13.1 Pipeline Route and Watercourse Crossing Refinements

Pipeline route and watercourse crossing refinements, as a result of stakeholder input, include the following:

- The Pembina River (KP 131.6) proposed crossing method was revised to HDD to address Fisheries and Oceans Canada (DFO), Alberta Sustainable Resources Development (ASRD) and local Aboriginal input.
- The Athabasca River (KP 187.4) proposed crossing method was revised to HDD to address DFO, ASRD and local Aboriginal input.
- The Little Smoky River (KP 291.1) crossing location was revised to address ASRD input.
- The Smoky River (KP 421.4) proposed crossing method was revised to HDD to address DFO and local Aboriginal input.
- The pipeline route from KP 425 to KP 450, KP 487 to KP 494, and KP 505 to KP 515 was revised to run parallel to existing linear infrastructure to the extent practical, as requested by ASRD. These revisions were additional to the revisions requested by ASRD (see the Application, Volume 3, Sections 2.4.6 and 2.4.7).
- The Five Cabin Creek (KP 583.5) crossing location was revised to address British Columbia Ministry of Environment input.
- The Kinuseo Creek (KP 590.8) proposed crossing method was revised to a bore to address DFO input.
- The Murray River (KP 601.3) proposed crossing method was revised to an Aerial to address DFO input.
- The Hook Creek (KP 605.2) crossing location was revised to address British Columbia Ministry of Environment input.
- The Missinka River east (KP 643.9) crossing location was revised to address local community stakeholder input.

- The Missinka River west (KP 648.6) crossing location was revised to address DFO and local Aboriginal input.
- The Parsnip River (KP 674.3) crossing location was revised and the proposed crossing method was revised to HDD to address DFO, stakeholder and local Aboriginal input.
- The Muskeg River (KP 751.3) proposed crossing method was revised to a bore to address DFO and Aboriginal input.
- The Salmon River (KP 766.3) proposed crossing method was revised to a bore to address DFO and local Aboriginal input.
- The pipeline route from KP 813 to KP 816 was revised to address landowner input.
- The Owen Creek (KP 1006.5) crossing location was revised and the proposed crossing method was revised to a bore to address DFO, local Aboriginal and local community stakeholder input.
- The Lamprey Creek (KP 1022.4) crossing location was revised and the proposed crossing method was revised to a bore to address DFO input.
- The Morice River (KP 1042.3) crossing location was revised to address DFO, local community stakeholder and local Aboriginal input.
- The Gosnell Creek (KP 1063.2) crossing location was revised and the proposed crossing method was revised to a bore to address DFO and local Aboriginal input.
- The Clore River (KP 1076.7) crossing location was revised and the proposed crossing method was revised to a bore to address local community stakeholder and local Aboriginal input.
- The Hunter Creek (KP 1103.3) crossing location was revised to address DFO, local Aboriginal and local community stakeholder input.
- The Chist Creek (KP 1127.6) crossing location was revised and the proposed crossing method was revised to a bore to address local Aboriginal and local community stakeholder input.
- The Cecil Creek (KP 1135.9) proposed crossing method was revised to a bore to address DFO and local Aboriginal input.
- The Little Wedeene River (KP 1153.3) proposed crossing method was revised to a bore to address DFO and local Aboriginal input.

In addition to the pipeline route refinements that have been made as a result of stakeholder input, other pipeline route refinements have been requested by stakeholders. The following alternatives were evaluated by Northern Gateway based on the criteria listed in the Application (see Volume 3, Sections 2.3 and 2.4), but were ultimately not accepted or incorporated into the Project:

- A pipeline route alternative from KP 589 to KP 595 to avoid private property was requested by the landowner. The current route is preferred over the alternative because it reduces grading requirements substantially, provides a favourable crossing location for Kinuseo Creek, parallels the Kinuseo Forest Service Road, and has lower capital and operating costs.

- A pipeline route alternative from KP 771 to KP 824 to avoid a proposed wilderness retreat development was requested by the developer. The current route is preferred over the alternative because it has fewer watercourse and wetland crossings, is 9.5 km shorter, and has lower capital and operating costs.
- A pipeline route alternative from KP 814 to KP 825 to avoid private property used for organic farming was requested by the landowner. The current route is preferred over the alternative because it provides a much more favourable crossing location for the Necoslie River and avoids a challenging crossing of a Necoslie River tributary. A minor route refinement to address landowner input was implemented (see Volume 3 Update, Section 2.4.20.2, Table 2-2, filed in December 2010).
- A pipeline route alternative from KP 979 to KP 1004 to avoid the Buck Flats area and a local Buck Creek crossing was requested by local community members. The current route is preferred over the alternative because it has fewer watercourse crossings, is 4.5 km shorter, and has lower capital and operating costs. A minor route refinement to address community input and to relocate Buck Creek crossing was implemented (see the Application, Volume 3, Section 2.4, Table 2-1).

Northern Gateway will advise the relevant stakeholders and will continue to work with them to incorporate input and to address issues, to the extent practical.

