

CONFIDENTIAL

April 30, 2012

British Columbia Utilities Commission 6th Floor, 900 Howe Street Vancouver, B.C. V6Z 2N3

Attention: Ms. Alanna Gillis, Acting Commission Secretary

Dear Ms. Gillis:

RE: FortisBC Energy Inc. ("FEI") Certificate of Public Convenience and Necessity ("CPCN") for the Fraser River South Arm Crossing Upgrade Project (the "Project")

Final Report in Compliance with British Columbia Utilities Commission (the "Commission") Order No. C-2-09

On November 6, 2008, FEI filed an application for a CPCN to construct and operate the Fraser River South Arm Crossing Upgrade Project (the "Application"). On March 12, 2009, the Commission granted a CPCN for the Project by Order No. C-2-09 subject to a number of conditions, which include requirements that FEI file a quarterly progress report within 30 days of the end of each reporting period and a final report within six months of the end or substantial completion of the Project. In particular, the final report is to provide a complete breakdown of the final costs of the Project, compare these costs to the updated cost estimate, and provide an explanation and justification of material cost variances.

Final Report

Pursuant to the Commission's directive, attached is the eleventh and final Report for the Project, prepared in accordance with the report format in Appendix A of the Order and in compliance with both requirements of the Order stated above.

During the fourth quarter of 2011, the prime contractor – North American Pipelines Inc. ("North American") substantially completed field construction of both pipeline crossings which were placed into service on October 22, 2011 (NPS 20) and on December 3, 2011 (NPS 24). North American cleaned up the site and de-mobilized on December 12, 2011.

Despite a 22-month delay arising from two major failures of HDD subcontractor equipment, and the replacement of the first HDD subcontractor, the Project has delivered two replacement pipeline crossings which fully meet the technical objectives for which the CPCN was granted. Pipeline integrity risks from a major seismic event, river scour, and settlement of river dikes have been mitigated as planned. Throughout the duration of the Project, FEI has maintained good relations with all landowners.

The only work left to complete is final restoration of landowners' property used for the north side drill workspace. Depending on weather conditions and coordination with landowners' operations,

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the completion date for that final restoration work is expected to be Spring 2012. The remaining restoration work is not material and is included in the final Project cost.

Settlement Agreement

There have been significant cost pressures on the Project with North American requesting compensation for a claim of \$13.1 million due to the two HDD failures. In response, FEI presented its additional costs arising from the 22-month delay. After a number of discussions, a Settlement Agreement was reached on March 26, 2012 which satisfied the needs of both parties, included as Appendix 6. Provisions in the Settlement Agreement include a release of FEI from any further claims from North American; North American indemnifying FEI for any third party claims; a guarantee of North American's obligations secured from North American's parent company; and a condition precedent that the Settlement Agreement is subject to approval by the Commission on terms satisfactory to FEI, all in exchange for a settlement amount of \$2.475 million.

Despite the major HDD equipment failures and the resulting 22-month delay, the revised total final Project cost is approximately \$34 million inclusive of the settlement amount, which is less than the previously projected forecast cost of \$36.3 million first described in the Q1 2010 quarterly report to the Commission.

Approval Sought and Request for Confidentiality

Pursuant to Sections 59-61 of the Utilities Commission Act, FEI respectfully requests BCUC approval of the Settlement Agreement and specifically the inclusion of \$34 million into FEI's rate base, as reflected in the financial schedules filed in accordance with Item 15 of Commission Order No. G-44-12.

FEI further requests that this Final Report and subsequent BCUC proceedings related to the Settlement Agreement, if any, remain confidential pursuant to the Commission's Confidential Filings Practice Directive. The information contained in the Settlement Agreement resulting from negotiations should be confidential as it contains sensitive settlement information, the release of which could prejudice the competitive and negotiating position of FEI and North American, if the Settlement Agreement is not approved. The Final Report similarly contains information relating to the settlement discussions and budget information that could hamper effective contractual negotiations for future projects. Additionally, the information in the Settlement Agreement and the Final Report has been consistently treated as confidential by the parties.

FEI does not object to customer group interveners such as the British Columbia Public Interest Advocacy Centre on behalf of the British Columbia Old Age Pensioners Organization et al ("BCOAPO") and the Commercial Energy Consumers Association of British Columbia ("CEC"), being provided with the Settlement Agreement upon executing standard form undertakings of confidentiality. However, FEI does not believe that any of the Settlement Agreement should be provided to potential contractors who are likely to be involved in FEI's pipeline construction projects.

However, FEI recognizes that the request for the inclusion of the \$34 million amount into FEI's rate base may require the Commission to make certain parts of the Settlement Agreement

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public. If this were the case, FEI respectfully requests that the Settlement Agreement be made public only after it is approved by the Commission and after FEI is given an opportunity to redact certain sensitive information not directly related to the calculation of the rate base amount. Moreover, FEI believes that the Final Report would remain confidential on a permanent basis as such reports have always been treated confidentially by the Commission.

If there are any questions regarding the Report, please contact the undersigned.

Yours very truly,

FORTISBC ENERGY INC.

Original signed:

Diane Roy

Attachments



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FORTISBC ENERGY INC.

Fraser River South Arm Crossing Upgrade Project

Final Progress Report

Submitted to the British Columbia Utilities Commission

Filing in Accordance with Commission Order C-2-09

April 30, 2012



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1 Project Status

1.1 **General Project Status**

During the fourth quarter of 2011, the prime contractor – North American Pipelines Inc. ("North American") completed field construction of both pipeline crossings. The NPS 20 crossing was placed into service on October 22, 2011 and the NPS 24 crossing was placed into service on December 3, 2011. North American cleaned up the site and de-mobilized on December 12, 2011.

The unsuccessful HDD attempt in January 2010 and a change of the HDD sub-contractor resulted in a delay of six months, and the short NPS 24 pull-back added seventeen and a half additional months of delay to the in-service date. The only substantial work left to complete is final restoration of landowners' property used for the north side drill workspace. This principally involves re-paving the area in front of a large warehouse and loading bays and thus timing will be dependent on weather conditions and coordination with landowners' operations. FEI is currently negotiating whether to undertake this work as planned or to provide a settlement to the landowner for them to do it. In either case, FEI's completion date for that final restoration work will be Spring 2012 and the remaining costs are well understood. Throughout the Project, FEI has kept landowners and local businesses informed and they remain satisfied that FEI has minimized impacts on their operations.

The completion of these two pipeline crossing replacements meets FEI and industry standards and fully accomplishes the Project objectives as detailed in the Application. Risks to pipeline integrity from a major seismic event, from river scour, and from settlement of river dikes have been mitigated.

1.2 Major Accomplishments, Work Completed and Key Decisions Made

- Both the FEI Project team and North American persevered to complete the Project in the face of major HDD equipment failures and resultant lengthy delays. Despite these challenges the end result is completed assets which fully meet the design specifications.
- FEI maintained excellent relations with North American throughout the Project by conducting regular progress meetings as well as issue-specific meetings to review and resolve concerns. Claims for extra work were resolved amicably and within budget.
- FEI re-assigned Project team members to the greatest extent possible so as to minimize the cost impact of the lengthy delays.
- Emphasis on safety placed jointly by FEI and North American produced excellent results for a heavy construction project of this magnitude. This involved particularly difficult working conditions in and around the cofferdam, which was constructed to complete the south side of the NPS 24 HDD pipeline.

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- Similarly, emphasis placed on environmental protection has resulted in full compliance
 with regulatory requirements and an absence of environmental incidents. A major
 ditch habitat was re-located, topsoil was retained and restored to adjacent agricultural
 lands, HDD frac-outs were avoided, drill mud and cuttings were properly contained and
 disposed of, and ground water was treated before being carefully returned to the
 environment.
- Damage to property was successfully minimized, and special attention was paid to ensure the closely adjacent NPS 48 Metro water pipeline was not disturbed, thereby avoiding a potentially catastrophic failure.
- FEI communicated and consulted with other key stakeholders to maintain positive relations in spite of the lengthy delays. These are described further in Section 6 below.
- Extensive, on-going follow-up with North American has provided good quality Project documentation.

1.3 Project Challenges and Issues

1.3.1 HDD CONSTRUCTION

1.3.1.1 Key Events

North American mobilized on August 29, 2009 and the Project proceeded for four months without incident. Then the following key events occurred:

- North American subcontracted the HDD work to the first HDD sub-contractor The Crossing Company Inc. ("TCC"). On January 1, 2010 during the first NPS 20 HDD attempt, TCC suffered a major equipment failure. After successfully completing the small HDD pilot hole under the river, the drill string was being driven by two TCC HDD rigs, one at either end, to ream the pilot hole to a larger diameter. The drill string parted at the bottom of the south side entry casing, close to the larger south side HDD rig. The smaller north side HDD rig was unable to move the drill string, and many attempts to re-attach at the break point were unsuccessful.
- On January 21, 2010, TCC removed its personnel from the site, leaving its HDD rigs in place and 1,100 metres of drill string under the river.
- On May 13, 2010, North American terminated its contract with TCC, who then removed its HDD rigs. North American sourced a replacement HDD sub-contractor, Direct Horizontal Drilling Ltd. ("Direct") which began a NPS 24 HDD attempt.
- On July 24 & 25, 2010, Direct pulled the NPS 24 pipeline under the Fraser River across to the south side, but was unable to complete the last 55 metres of the pull into the south side entry casing. A major equipment failure had occurred – parting of the drill string next to its attachment to the NPS 24 pipeline, at a depth of 17 metres.



- On August 24, 2010, Direct successfully completed a NPS 20 HDD attempt by pulling that pipeline fully into place under the river, using a re-designed alignment which avoided TCC's abandoned drill string.
- In January 2011, after four months of planning, North American began construction of a cofferdam to access the NPS 24 HDD pipeline 17 metres below grade on the south side of the river. After finally managing the removal of a substantial volume of ground water surrounding the cofferdam, North American successfully completed the NPS 24 HDD pipeline in September 2011 by attaching induction bends to re-route the pipeline vertically within the cofferdam.
- The short pullback of the NPS 24 HDD pipeline also prevented the positioning of electrical isolators at the north side to separate the pipeline from the entry casing. FEI engaged expert consultants who recommended inserting a custom-designed intermediate casing between the pipeline and the larger entry casing. This solution was successfully achieved in September 2011 and proper corrosion protection was obtained.

The remainder of construction: tie-in pipelines, cleaning, testing, drying and gasification of the completed crossings, all proceeded normally during the final three months ending in December 2011.

1.3.1.2 FEI Decisions

Each time a key event occurred during the Project, and particularly when major equipment failures threatened successful completion, FEI undertook a thorough examination of the situation and evaluated its options which were:

- Cancel the Project In each case it was determined that cancelling the Project would result in significant costs and leave the pipeline risks unmitigated, with no costeffective alternative to proceed, other than making further HDD attempts. FEI and North American's assessments concluded there was no evidence that sub-surface conditions rendered the Project impractical for HDD.
- Change the prime contractor The major equipment failures arose under the auspices of the HDD subcontractors, and not the prime contractor. Cancelling the prime contract would have raised contractual problems, resulted in an even more substantial Project delay to secure a new prime contractor, likely would result in a higher contract price as any replacement contractor would be aware of the issues with the Project and likely increase their price accordingly to account for those risks, and may result in costly litigation if the prime contractor alleged that the termination was contrary to the terms of the contract. Replacement contractors would almost certainly have refused to work under a guaranteed completion contract which would have resulted in a higher risk assumption by FEI.
- Continue to work with the present prime contractor North American remained cooperative, was committed, and had the skills, experience and access to additional

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resources to complete the Project. The failures were not attributable to any lack of prime contractor capability. Therefore, this scenario was seen each time to be the only logical and cost-effective choice.

1.3.2 CONTRACTUAL MATTERS

1.3.2.1 Contractor Claims

In February 2010 FEI received from North American two claims for un-specified compensation due to an alleged change in the subsurface conditions for the failed NPS 20 HDD attempt by TCC, North American's original HDD subcontractor. FEI rejected those claims in March 2010 on the basis that North American did not provide evidence of a change in the subsurface conditions from those disclosed in the tender documents. FEI received a letter dated July 14, 2010 directly from TCC requesting compensation of approximately \$3 million for the failed NPS 20 HDD attempt. As FEI has no contractual relationship with TCC, FEI sent TCC's letter to North American to respond.

On September 10, 2010 TCC filed a lien under the *Builders Lien Act* against properties being accessed and used for the Project. According to the lien document, the amount of the lien was \$2,890,043, which TCC claimed was owed to TCC by North American. On September 29, 2010, FEI formally requested North American remove the lien, as required under the terms of the contract between FEI and North American. The lien was discharged from title on October 21, 2010.

In February 2011 FEI received a letter from TCC requesting an update on their July 2010 claim for compensation. FEI replied in March requesting TCC deal with North American on this matter, since TCC's contract is with North American, and not with FEI.

On November 28, 2011 FEI received a summary of all claim amounts from North American, requesting compensation of \$13.1 million due to the two HDD failures. On January 24, 2012, North American presented extensive information in support of the claim for the first HDD failure.

1.3.2.2 Resolution of Claims

FEI management and legal counsel carefully considered the following options for responding to the claim by North American:

- Accept the claim FEI has seen no evidence to support the contractor's allegation that changed sub-surface conditions led to the two HDD failures. Therefore this option was immediately rejected.
- Refuse the claim and launch a counter claim Despite ongoing efforts to minimize costs, FEI incurred substantial costs arising from the 22 month delay. However, FEI anticipated that taking this approach would carry significant negative risks:
 - o very lengthy, expensive litigation would almost certainly result,
 - o the outcome of such a legal proceeding is uncertain, and



- a negative impact on FEI's relationship with the contractor industry would result.
 Strong evidence of this was seen in recent bidding for a small HDD project where four of the six invited contractors refused to bid, neither of the two bids received was fully compliant with the tender, and the lowest bid was well above FEI's cost estimate.
- Negotiate a settlement This was seen to be an acceptable approach which would provide certainty, avoid legal costs, and avoid significant cost penalty to future contract work.

Therefore in response to the claim, FEI presented its additional costs arising from the 22 month delay and then entered into a number of discussions with North American. A Settlement Agreement, included as Appendix 6, was reached on March 26, 2012, which satisfied the needs of both parties. Provisions in the Settlement Agreement include a release of FEI from any further claims from North American; North American indemnifying FEI for any third party claims; a guarantee of North American's obligations secured from North American's parent company; and a condition precedent that the Settlement Agreement is subject to approval by the Commission on terms satisfactory to FEI, all in exchange for a settlement amount of \$2.475 million.

1.3.3 GROUNDWATER TREATMENT

It was understood from the outset that the high water table at the Project sites would require that ground water be removed whenever excavation is done. FEI did not anticipate that groundwater would contain high levels of dissolved iron near the surface, which would have to be removed before discharge back into the environment.

The equipment failure resulting in a short HDD pullback required that the NPS 24 pipeline be tied in at much greater depth than originally planned, hence much larger volumes of ground water would potentially need treatment and higher costs would be incurred. Accordingly, in December 2010, the south side HDD settlement pond was converted into a treatment facility with suitable capacity. Fortunately, groundwater extracted from the deep dewatering wells proved to be far lower in dissolved iron than groundwater initially encountered nearer the surface. FEI therefore sought and was granted approval to discharge the pumped deep groundwater directly to the Fraser River, which avoided further costs. In the end, costs for water treatment and settlement pond modifications were managed within the control budget as detailed in Section 4.1 below.

1.3.4 LANDOWNER AGREEMENTS

The delays required that extra negotiations with landowners be conducted to extend the agreements for land use and access. The negotiations were successful, but resulted in a cost variance of \$323,000 as detailed in Section 4.1 below.

Restoration of the Gilmore Farm was successfully completed, and the farm operator provided a waiver of any further crop loss claims. All other landowner agreements have been finalized

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except that FEI is waiting for a lump sum amount from a landowner who intends to do restoration themselves. FEI is confident that this lump sum has been accounted for in the remaining restoration budget. FEI believes all restoration to date has been completed to meet applicable standards.

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2 Project Spending Profile

As referenced in previous Quarterly Reports, spending on construction of this Project was largely comprised of a few major lump sum expenditures rather than a traditional series of progress payments for incremental work. Therefore the use of S-curves to profile the use of contractor resources, the impact of schedule changes, budget and cost variances would have provided very limited value in assessing the financial performance of the Project.

Under the guaranteed completion contract between FEI and North American, successful completion and placing of the two HDD pipelines into service fulfils 100% of the contract base price work. FEI has paid North American \$10.12 million for this base price work as stipulated under the contract. In addition, FEI has paid North American \$3.875 million for approved change orders.

Under the Settlement Agreement as described above in Section 1.3.2, FEI would pay North American a further \$2.475 million to settle all outstanding contractor claims for compensation related to the HDD failures and the Project as a whole. This results in a final total contractor cost of \$16.47 million.

Costs and variances incurred relative to the control budget and estimates are reported in Section 4 below, together with an explanation of changes in scope, and the work quantity variances that were subject to unit pricing under the contract.



3 Project Schedule

3.1 Milestone Summary

Table 3-1: Construction Milestones

Construction Milestones	Original Plan ref. July 30, 2009 Project Report	Revised Estimate	Completion (actual)	Variance (months)
Construction Mobilization	Aug 19, 2009	_	Sep 5, 2009	0.5
Bypasses Completed & Operating	_	- Sep 30, 2009		0.3
HDD NPS 20 & 24 Line Pipe Welded, Tested and Ready for Pullback	_	Oct 27, 2009	Nov 15, 2009	0.6
Mobilization of first HDD sub-contractor	_	_	Dec 2, 2009	_
HDD Stoppage – equipment failure	_	_	Jan 1, 2010	_
Termination of HDD sub-contractor	_	_	Apr 21, 2010	_
Mobilization of new HDD sub-contractor	_	_	Jun 14, 2010	_
Pull-back of HDD NPS 24 Pipe	_	_	Jul 25, 2010	_
Pull-back of HDD NPS 20 Pipe	_	_	Aug 24, 2010	_
NPS 20 & NPS 24 Crossings "In Service"	Dec 18, 2009	_	Dec 3, 2011	23.5
Construction Cleanup & De-mobilization	_	_	Dec 12, 2011	_
Restoration & Final Acceptance	Aug 31, 2010	Jun 30, 2012		22

The unsuccessful NPS 20 HDD initial attempt and North American's choice to replace their original HDD sub-contractor resulted in a six month delay of the in-service date. An additional delay of thirteen and a half months arose from the incomplete NPS 24 HDD pull-back, resulting in an in-service date of December 3, 2011 for the Project, as shown above in Table 3-1.

The remainder of restoration work (principally re-paving) is subject to weather conditions and requirements of the landowner agreements. FEI is currently negotiating whether to undertake this work using local contractors as planned or to provide a lump sum amount whereby the landowner would take responsibility for completing the restoration. In either case, FEI's



completion date for that final restoration work will be Spring 2012 and the remaining costs are well understood. FEI anticipates this work will be done on or before June 30, 2012.

3.2 **Procurement Summary**

3.2.1 PRIME CONTRACTOR

FEI developed the tender incorporating "lessons learned" from previous HDD projects and used a pre-eminent legal consultant experienced in HDD and major construction contracts.

- The tender was structured to compare the merits of "shared risk" bids against "guaranteed completion" bids. Under a "guaranteed completion option", the contractor assumes primary risk for completing the HDD; whereas under a "shared risk" option, the risk of completing the HDD (including additional costs) is shared between the owner and the contractor. FEI believes its choice of the guaranteed completion option greatly enhanced contractor cooperation and commitment to timely completion, while protecting ratepayer interests.
- FEI assessed and invited bids only from established contractors with proven track records for this type of work. The tender allowed for pipeline contractors or HDD contractors to be either the prime contractor or the subcontractor. FEI conducted a comprehensive review and examination of short-listed bidders, including in-depth interviews to assess relevant experience, senior personnel and other key factors.
- The two lowest bids were from contractors which appeared to have the relevant experience to complete the Project, and the low bid allowed FEI to establish a Control Budget which met the requirements of BCUC Order C-2-09. The two lowest bids showed only a small incremental cost increase for the "guaranteed completion" option, as compared to the "shared risk" option.
- Both lowest bidders were recognized as capable companies with experience performing this type of work. The lowest bidder, North American, had recently completed the Trans Mountain Pipeline TMX Anchor Loop Project on time and under budget despite challenging environmental constraints. FEI awarded North American the contract.
- North American persevered with the Project despite the challenges encountered with the two HDD failures. North American could have abandoned the Project after either HDD failure rather than incur additional costs to remedy the failures and complete the Project. North American has stated that the HDD failures resulted in North American incurring approximately \$13 million in extra costs. North American has agreed to accept the \$2.475 million settlement amount to release FEI from all claims North American may have against FEI with respect to the Project and indemnify FEI for claims by third parties. FEI believes the guaranteed completion option provided the best value for ratepayers as compared to a risk share option. If FEI was not able to reach a settlement with North American with respect to the HDD failures, it is likely that FEI would struggle in the future to find contractors willing to work on projects under a guaranteed



completion option and would be forced to contract under shared risk or on a time and materials basis which would likely result in increased cost and risk for FEI and the ratepayer.

3.2.2 MAJOR MATERIALS

Because the HDD pipelines are inaccessible for normal maintenance, FEI specified stringent standards for pipeline materials and pipe manufacture, to ensure the HDD pipelines would withstand the rigours of installation and then perform as designed over their anticipated life.

- The pipe tender was awarded to the lowest bidder, local supplier CE Franklin, which sourced the pipe from Germany at a price of \$2.84 million, \$0.6 million below the budget estimate.
- Induction bends were procured for tie-ins to the HDD pipelines as originally designed. After the failed NPS 20 HDD attempt, FEI re-designed the HDD profile to avoid the abandoned drill stem underneath the river. This required relocating the south side NPS 20 entry point and procuring a new induction bend to match the actual entry angle of the new casing. Likewise, the short pullback of the NPS 24 HDD pipeline required two new induction bends to be procured for the deep excavation tie-in. These three additional induction bends cost \$45,400.

3.3 Current Schedule

The remaining final restoration work is subject to weather conditions and requirements of the landowner agreements. FEI believes Project Completion will be achieved on or before June 30, 2012.

3.4 Scope Change

3.4.1 DESIGN SCOPE

New information gathered shortly after commencement of construction prompted a change to the design affecting the location, sizes and lengths of HDD entry / exit casings. The changes were made to minimize risks to overall HDD constructability.

After the failed HDD attempt for the NPS 20 crossing, FEI developed a new HDD profile for the second attempt. The new profile passes beneath the failed first attempt, ensuring adequate clearance from the abandoned drill string. This change required installation of a new south side entry. The NPS 20 crossing was pulled into place on that new profile.

To prevent soil settlement in the Kingswood Industrial Park arising from the failed HDD attempt, the abandoned NPS 20 borehole was grouted approximately 100 metres southwards from the bottom of the north side entry casing.

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The short pullback required that the NPS 24 HDD pipeline be rerouted vertically within the cofferdam using induction bends to complete the deep tie-in rather than routing through the original exit casing. FEI requested its seismic design consultant re-evaluate the integrity of the NPS 24 HDD pipeline, based on the new design, and was advised that seismic performance of the completed pipeline will not be adversely affected. Likewise, partial removal of the original south side exit casing for the NPS 24 HDD pipeline was investigated and approved as the best option to ensure future stability of the new crossing while maintaining clearance to ensure seismic and cathodic protection criteria are met and to avoid the risk of damage to the adjacent NPS 48 water line.

The short pullback also required a new design be created to ensure the NPS 24 HDD pipeline stays isolated from the north side entry casing and ensure cathodic protection against corrosion be maintained for the life of the pipeline. FEI consulted extensively with experts in the field of cathodic protection to develop a design which was successfully implemented.

3.4.2 CONSTRUCTION SCOPE

Topsoil stripped from the pipe layout area on the north (Richmond) side was left stored as a berm, as requested by the Gilmour Farm operator. On the south (Delta) side, fill materials from the Project were levelled and left in place as requested by the landowner. Excavated (drilled) soil material was disposed off-site and the settlement pond was dismantled, as was provided for in the original Project cost estimate.

Significant design work was undertaken by North American to accommodate the deep excavation for the NPS 24 tie-in while preserving the integrity of the immediately adjacent NPS 48 Metro Vancouver water main. North American installed pipe supports for the NPS 48 waterline, tensioned them to the satisfaction of Metro Vancouver inspectors on site, and continued to monitor the status of the supports until the south side tie-in pipelines were backfilled.



4 Project Costs

The Project budget and actual costs are reported here based on the Project costing Work Breakdown Structure ("WBS") developed for execution of the work and cost management.

The Project cost information is being reported against the total Control Budget (P50) established in the July 30, 2009 Project Report to the Commission.

The cost at completion for the Project inclusive of the \$2.475 million settlement amount is approximately \$34 million, which is less than the previously projected forecast cost of \$36.3 million described in the Q1 2010 quarterly report to the BCUC.

The most recent cost report for the Project as of March 2012 has been included as Appendix 2. The cost report can be summarized as follows in Table 4-1 below:

Cdn \$(000)	Control Budget at (Jul 30/09)	Spent to Date	Total at Completion	Variance from Control Budget
Pre CPCN Expenditures	\$ 450	\$ 450	\$ 450	-
Performance Measure Baseline	\$28,681	\$ 30,231	\$33,456	(\$4,775)
Total Project Cost (TPC)	\$29,751	\$ 30,676	\$33,946	(\$4,195)
P(50) Cost	\$29,751			
P(90) Cost	\$32,479			

Table 4-1: CONTROL BUDGET AND MARCH 31, 2012 COST STATUS

4.1 <u>Project Cost and Financial Summary (Including Explanation of Variances)</u>

FEI continually sought ways to mitigate potential cost increases throughout the Project. An explanation and justification of material cost variances is provided. The final variance amounts are based on a Project completion on or before June 30, 2012 and are summarized in Table 4-2 below by major cost driver and Work Breakdown Structure ("WBS") element presented in the Appendix 2 Cost Report.

Subject to BCUC approval of the Settlement Agreement, there will be no potential future dispute between FEI and North American as to the cost responsibility for the Project, including the initial failed NPS 20 HDD attempt and the NPS 24 short pullback. In addition, FEI will receive indemnification from North American for any additional third party claims.



Table 4-2: Material Cost Variance Breakdown

\$(000) ¹ Work Breakdown Structure Element Cdn	Primary Process Driver	Failed NPS 20 HDD Attempt	Ground Water Treatment	NPS 24 Short Pull-back	Restoration	Other	Appendix 2 Cost Report Variance
Project Management, Engineering, Consultation, Inspection	Schedule	(\$2,250)	-	(\$1,264)	(\$304)	-	(\$3,818)
Land Utilization, Temporary Workspace	Schedule	(\$97)	-	(\$226)	-	-	(\$323)
River Crossing HDD Install & P/L Construction	Scope Changes ⁴						
Base Price Change Order Other ² Settlement Amount ³		(\$61) (\$1,287)	\$213	(\$266) (\$1,188)	\$498	\$28 \$1,727	0 \$412 \$1,727 (\$2,475)
4. Total Other WBS	Scope Changes	-	-	-	-	\$282 ⁵	\$282
5. Total Variance	-	(\$3,695)	\$213	(\$2,944)	\$194	\$2,037	(\$4,195)

¹ These variance costs include all claims by North American for additional compensation.

² Other consist of unallocated contingency.

³ Subject to BCUC approval.

⁴ Refer to Appendix 5 – Scope Change Summary for detailed breakdown in accordance with Order C-2-09 Appendix A Item 3.16 and Item 3.1.7

⁵ Other consists of the summation of the variances for Pipe and Coating Materials, North Bank Dike Improvements Allowance, Operations & Commissioning, AFUDC, Corporate and Administrative Costs, First Nations Consultation, Legal Cost, Other Regulatory Costs, BCUC Regulatory Costs and Other Non-Project Costs (retirement).



4.1.1 PROJECT MANAGEMENT, ENGINEERING CONSULTATION AND INSPECTION

4.1.1.1 Failed NPS 20 HDD attempt

The most notable change in the Project arose from the six month delay described in Section 3.1 above, and was caused by the failed HDD attempt and the change of HDD sub-contractors. Creation of a new NPS 20 HDD profile and related geotechnical investigations has resulted in an estimated cost variance of \$250,000. All efforts were made to minimize costs during the delay, even though the duration could not be predicted. Including the cost variance due to design and geotechnical investigations noted above, the incremental Project costs attributable to this delay were largely driven by third party engineering, environmental, legal, and project inspection services required to ensure adherence to applicable technical and environmental codes and standards. These have resulted in an unfavourable cost variance of approximately \$2,250,000.

4.1.1.2 Short NPS 24 pull-back

Extensive construction work involving deep excavation and de-watering was necessary to complete the NPS 24 south side tie-in, resulting from the pull-back being 55 metres short.

Throughout the approximate seventeen and a half month delay for planning and construction of the NPS 24 south side tie-in, FEI made efforts to temporarily re-assign key Project team members to other projects. The delay has resulted in FEI accumulating incremental costs largely driven by third party engineering, environmental, legal, and project inspection services which result in an unfavourable cost variance of approximately \$1,264,000.

4.1.1.3 Restoration

By spending an additional \$304,000 for research and negotiations with landowners (project management costs), a savings of \$498,000 for field work was achieved resulting in a net favorable variance of \$194,000.

4.1.2 LAND UTILIZATION AND TEMPORARY WORKSPACE

4.1.2.1 Failed NPS 20 HDD attempt

Extension of Landowner agreements from July to December 2010 has resulted in an unfavourable cost variance of approximately \$97,000. This variance was reduced from initial estimates because actual agreement extensions were less onerous than anticipated.

4.1.2.2 Short NPS 24 pull-back

Extension of Landowner agreements from December 2010 to December 2011 has resulted in an unfavourable cost variance of approximately \$226,000. This variance was reduced because actual agreement extensions were once again less onerous than anticipated. In addition, anticipated business interruption costs were mitigated through coordination of Project activities and landowner activities, based on ongoing positive relationships.



4.1.3 RIVER CROSSING HDD INSTALLATION AND PIPELINE CONSTRUCTION

4.1.3.1 Change Order

4.1.3.1.1 Failed NPS 20 HDD attempt

Additional casing was installed to facilitate the amended NPS 20 drill path. The extra cost for this work has resulted in an unfavourable cost variance of approximately \$61,000.

4.1.3.1.2 Ground water treatment

As referenced in Section 1.3.2 above, it had been initially determined the removal of dissolved iron would be necessary before the groundwater could be discharged to the environment. FEI took the initiative to re-purpose the HDD settlement pond to provide this treatment as cost-effectively as possible. However, since the quality of the deep groundwater proved to be suitable for direct discharge to the Fraser River, FEI determined extra-ordinary costs on water treatment were not required. This resulted in a favourable variance of approximately \$213,000.

4.1.3.1.3 Short NPS 24 pull-back

Additional remedial steps required to obtain satisfactory cathodic protection on the north side as described in Section 1.3.1.1 above have resulted in an unfavourable cost variance of approximately \$266,000.

4.1.3.1.4 Restoration

Restoration of the Gilmore Farm site on the north side has been substantially completed. There have been ongoing changes to the restoration requirements as an outcome of negotiations with landowners since the initiation of the Project. Remaining restoration will result in a favourable variance of approximately \$498,000.

4.1.3.2 Other

After re-calculating the cost estimate in July 2009, an un-allocated contingency of \$1,727,000 was included to address additional possible construction risks. This amount did not include any extraordinary claims from the Contractor. For the purpose of this reconciliation, the unfavourable cost variances were included in specific categories explained above and therefore the "Other" cost category must be shown as a favourable variance of \$1,727,000.

4.1.3.3 Settlement Amount

Please refer to Section 1.3.2.2 for details.

4.1.4 TOTAL OTHER WORK BREAKDOWN STRUCTURE ("WBS")

Variances for pipe and coating materials, north bank dike improvements allowance, operations & commissioning, AFUDC, corporate and administrative costs, First Nations consultation, legal cost, regulatory costs and other non-project costs such as abandonment of previously existing crossing pipeline were combined into the Other category which has yielded a net favourable variance of approximately \$282,000.



4.2 Summary of Contracts Exceeding \$2 Million

There were only two large-value contracts: one for procurement and one for construction. These contracts are summarized below in Table 4-3.

Table 4-3: Large Contracts Summary

Summary of Individual Contracts exceeding \$2 million (Construction and Procurement)								
			Original		Approved & Paid			
Vendor	(Cdn\$000)	Budget Amount	Award, Contingency Allowance or via Settlement Agreement	Final	Current Quarter	Cumulative to Date		
Line Pipe Supply: C.E. Franklin	Bid Price	\$3,450	\$2,843	\$2,843	\$0	\$2,843		
	Base Price		\$10,119	\$10,119	\$0	\$10,119		
Construction/HDD:	Allowance (1) for Changes	\$14,100	\$4,287 ⁽²⁾	\$3,875 ⁽³⁾	\$1,197	\$3,875 ⁽³⁾		
North American Pipelines Inc.	Settlement Agreement		\$2,475 ⁽⁴⁾	\$2,475 ⁽⁴⁾	\$0	\$0		
	Final Constru	ction Price		\$16,469	\$1,197	\$13,994		

Notes:

- 1. Allowance for Changes: The construction / HDD tender required a lump sum bid for the majority of the work, as well as a list of unit prices applicable to:
 - · variable work units such as backfill, work-pad, and restoration materials, and
 - extra work units which were not anticipated in the tender (force account work).
- 2. Price extension using North American's tendered unit prices and FEI's estimate of quantities (for comparable tender evaluation).
- 3. For further breakdown of costs refer to Appendix 2.
- 4. Settlement Agreement amount is subject to BCUC approval.

Change Orders

Twenty-nine Requests for Change Order ("RCOs") were received from North American during January, bringing the cumulative total to eighty-three. Of these, FEI has approved seventy-seven and has rejected six change orders.

It should be noted that forty-five of these RCOs either relate to unit price items already provided for in the control budget, or constitute relatively minor amounts of extra work. Seven RCOs are

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related to the failed NPS 20 HDD attempt and two of these RCOs relating to the failed HDD attempt did not claim a specific amount and have been refused by FEI. Six RCOs are related to groundwater treatment; two RCOs are associated with NPS 24 short pullback; ten RCOs are in connection with restoration; and thirteen RCOs are categorized as "other" (see Appendix 5).



5 Project Risks

Project specific risks were analyzed in the Project Report filed July 30, 2009 in compliance with Commission Order C-2-09. These risks did not change significantly throughout the Project, notwithstanding the failed initial NPS 20 attempt and short NPS 24 pull-back.

5.1 Sub-Surface Risk

- HDD FEI was confident that by accepting the lowest bid based on the Guaranteed Completion Option, the best value and lowest risk had been achieved. The risk that the prime contractor could not complete the HDD resided fully with the prime contractor and not with FEI or its ratepayers. This approach has been validated with the actual occurrence of two major HDD equipment failures.
- Deep Excavation North American took measures to ensure the integrity of the adjacent Metro Vancouver NPS 48 water pipeline during the deep excavation for the south side NPS 24 tie-in. FEI ensured the position of the adjacent newly-installed NPS 20 HDD pipeline was also closely monitored to protect it during this work.
- Cathodic Protection Short pull-back of the NPS 24 HDD pipeline created potential difficulties respecting cathodic protection and casing removal at the north entry point.
 A cost-effective measure which is acceptable to FEI's corrosion department was completed to ensure the long-term integrity of the pipeline.

5.2 **Environmental Risks**

FEI paid careful attention to North American's site-specific frac-out prevention and environmental management plans to ensure the risk was minimized and the detection and response capabilities were maximized. No environmental incidents occurred.

The requirement to remove naturally occurring impurities from groundwater before the water could be returned to the environment was unanticipated, but was required to comply with environmental laws. FEI ensured compliance with this requirement. Fortunately, groundwater from the deep dewatering wells was found to be acceptable for return to the environment without treatment.

5.3 <u>Insurance Risks</u>

North American insured against all construction risks and FEI purchased Course of Construction and Wrap-Up liability insurance for the whole Project.

Section 5: Project Risks Page 18



5.4 Residual FEI and Rate Payer Risks

Residual risks that could not be covered by FEI's insurance included consequential losses from events such as a frac-out, damage to line pipe during pullback, or a stuck HDD pullback with loss of the line pipe. FEI conducted engineering studies to mitigate these risks as much as possible, and with completion of the field construction work, these risks no longer apply. Delay to the Project schedule has resulted in extra costs, as reported in Section 4 above.

5.5 Landowner and Restoration Risks

The Project delays required that agreements with landowners for access and land use be extended at some additional cost. Delays also carried some risk that labour and equipment costs for restoration might increase. Fortunately the significant landowner and restoration related cost increases which arose have been managed within the Q1 2010 cost forecast for completing the Project.

Section 5: Project Risks Page 19



6 Stakeholder or First Nation Issues

6.1 First Nations

As indicated in the CPCN application and the previous Quarterly Reports, the Project has not impacted Crown or Indian Reserve land. All land within the Project area had been previously disturbed, and studies did not identify any archaeological sites. FEI's Aboriginal Relations Manager communicated with three First Nations who have archaeological interests in the area - Tsawwassen First Nation, Katzie First Nation and Musqueam First Nation – and none of them identified any issues with the Project. In March of 2010, FEI's Aboriginal Relations Manager advised the First Nations of the Project delay due to equipment failure, and did not receive any indications of concern. FEI will contact First Nations again to advise them of successful completion when the timing of the last remaining restoration work is confirmed.

6.2 Stakeholders

Throughout the Project, FEI maintained positive relationships with the landowners and tenants affected. FEI used direct communication with local landowners and businesses, particularly to notify them of the re-mobilization following the HDD delay. As a result, landowners and tenants understood the challenges FEI faced and remain satisfied that FEI minimized adverse impacts to their operations. FEI published the final edition of "The Crossing" newsletter in March 2012.

During the field construction, FEI maintained regular contact with the Municipalities of Richmond and Delta as well as with the Greater Vancouver Water District (Metro Vancouver).

No unforeseen issues were raised by stakeholders.

6.3 Socio Economic Reporting

No extraordinary requirements were identified in the CPCN for this Project, but both FEI and North American have utilized local resources for the Project wherever possible. As of December 31, 2011 North American reported that it had spent approximately \$13 million in the local economy with respect to the Project and that this figure represents 99% of North American's expenditure to that date.



7 Photographs

Selected photographs which record key aspects or events during the Project are attached as Appendix 4.

Section 7: Photographs Page 21

Fraser River South Arm Crossing Upgrade Project April 30, 2012

Appendix 1

Current Construction Schedule

(Omitted for this report)

Fraser River South Arm Crossing Upgrade Project April 30, 2012

Appendix 2

Cost Report 2012 March



FORTISBC ENERGY INC. - FRASER RIVER SOUTH ARM CROSSING UPGRADE PROJECT FINAL REPORT - CONFIDENTIAL

Cost Report 2012 March								
\$Cdn (000)	CPCN Application	Control Budget	Spent to Date	Forecast to Complete	Total at Completion	Variance from Control Budget		
Pre CPCN Expenditures		450	450	0	450	0		
Work Breakdown Structure Element								
Proj. Mgmt, Eng. Consultation, Inspection	4,300	4,282	7,665	435	8,100	-3,818		
Land Utilization, Temporary Workspace	1,800	1,503	1,511	315	1,826	-323		
Pipe & Coating Materials	3,600	4,002	3,911	0	3,911	91		
River Crossing HDD Install. & P/L Const'n ¹	11,600							
Tie In Construction	2,500	incl. below	incl. below	incl. below	incl. below	incl. below		
Base Price		10,119	10,119	0	10,119	C		
Change Orders		4,287	3,875	0	3,875	412		
Other ²		1,862	135	0	135	1,727		
Settlement Amount ³		0	0	2,475 ³	2,475	-2,475		
North Bank Dike Improvements Allowance	1,000	325	79	0	79	246		
Operations & Commissioning	600	511	50	0	50	461		
AFUDC	900	1,024	2,436	0	2,436	-1,412		
Corporate & Administrative Costs	300	316	0	0	0	316		
Performance Measure Baseline	26,600	28,681	30,231	3,225	33,456	-4,775		
First Nations Consultation	70	134	1	0	1	133		
Legal Cost	230	403	335	45	380	23		
Other Regulatory Costs	0	49	10	0	10	39		
BCUC Regulatory Costs	0	68	21	0	21	47		
Other Non-Project Costs (retirement)	400	416	79	0	79	337		
Total Project Cost (TPC)	27,300	29,751	30,676	3,270	33,946	-4,195		

^{1.} Previous reported sub-total of \$ 16.268 Million has been broken down into Base Price, Change Orders, Other and Settlement Amount sub-catagories to provide additional detail.

^{2.} Represents unallocated contingency.

^{3.} Settlement Amount is subject to BCUC approval

^{4.} Corporate & Administrative Costs were captured in Proj. Mgmt, Eng. Consultation, Inspection

Fraser River South Arm Crossing Upgrade Project April 30, 2012

Appendix 3

"The Crossing" Newsletter



The Crossing

Fraser River South Arm Crossing Upgrade Project | Winter/Spring 2012

Fraser River Crossing: Looking back, looking forward



Standing along the banks of the Fraser River, it's nearly impossible to visualize how FortisBC successfully ran two massive natural gas pipelines under and across it. The scope of this project has been, without a doubt, astounding.

In fact, as the project progressed towards completion, some of the statistics involved were truly impressive:

- The two pipelines, if placed end to end, measure 2.7 km, or as high as Mt. Baker from base to peak.
- Before they were pulled under the Fraser River, each pipeline was raised up by 14 cranes, 10 metres off the ground. The pipelines were flexible enough that they could be bent without kinking, across the width of two football fields.
- Forces in the range of 41,000 kg were needed to pull each pipeline through the Fraser riverbed, which is the same as 25 tow trucks pulling simultaneously.

This project has been a unique experience for everyone involved. While there were extraordinary hurdles along the way, the project team rose to the challenge and completed the project in a safe and environmentally-responsible manner.

The project also gained the co-operation and support of the surrounding community. A neighbor of the project at the Kingswood Indsustrial Park, Armando Monzon, of Direct Distribution Centres says this of his experience throughout the project: "Direct Distribution was pleased to be involved with this project. We've had a very good experience with FortisBC all around."

The future. We've got our best people on it.

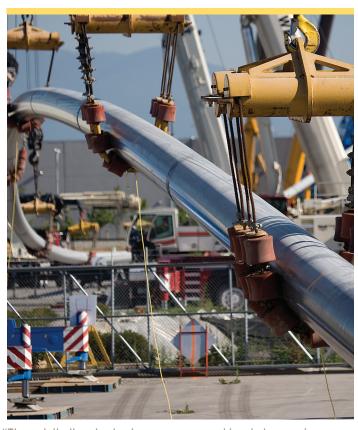


Ready for future needs

Now, with our construction sites being restored to their original condition or being left in a condition that facilitates future land use, the two pipelines deep under the Fraser River will be doing what they were designed to do—ensuring that all our customers have a continuous and reliable supply of natural gas. These two pipelines will play an important role in serving the energy needs of over 220,000 FortisBC customers throughout the Lower Mainland: from Richmond, Vancouver and the North Shore to parts of Burnaby.

We want to once again acknowledge the continued support and patience of our neighbouring businesses. We also wish to thank the City of Richmond, and the Corporation of Delta for their help and collaboration.

We welcome your feedback. Contact Amy Hennessy at 604-576-7363, amy.hennessy@fortisbc.com, or visit fortisbc.com/FraserRiver.



"Through it all, we've kept our common goal in mind...ensuring a reliable supply of natural gas to the 220,000+ customers on the other end of our pipelines." Amy Hennessy, community & first nations relations manager.

Amy's notes



It's hard to believe both new pipelines under the Fraser River are now in service.

Our project has lasted longer than we anticipated, yet the finish somehow seems sudden.

Like all projects we experienced successes and setbacks and learned

that sometimes you can affect the outcome and sometimes you need to manage the curve balls that are thrown your way.

From our locations on both sides of the Fraser River we've watched the seasons turn and businesses come and go. The economy has changed, as has the weather. Project team members have come and gone. We've made friends along the way, bound by our shared objective. Through it all we've kept our common goal in mind and in focus—always intent on completing the project and ensuring a reliable supply of natural gas to the 220,000+ customers on the other end of the pipelines.

And now the project is virtually complete—albeit that some of the farmland needs final remediation and parking lots will need final repaving. Soon there should be little sign of us having been here.

The patience and kindness of our neighbours on both sides of the river will be long remembered. Thank you all. Over the length of the project you have let us use your parking lots, change your ingress or egress, and dealt with some noise and parking changes. We're also grateful to our regulators and the many other individuals and companies that have helped with this project. Thank you all for working with us, and for your spirit of goodwill. It will not be forgotten.

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(11-084.3 02/2012)

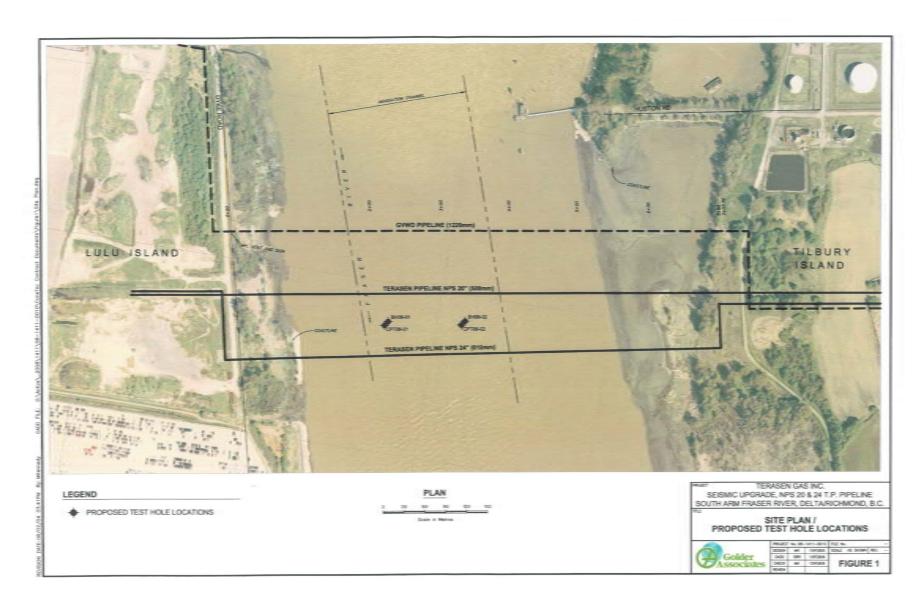
The future. We've got our best people on it.



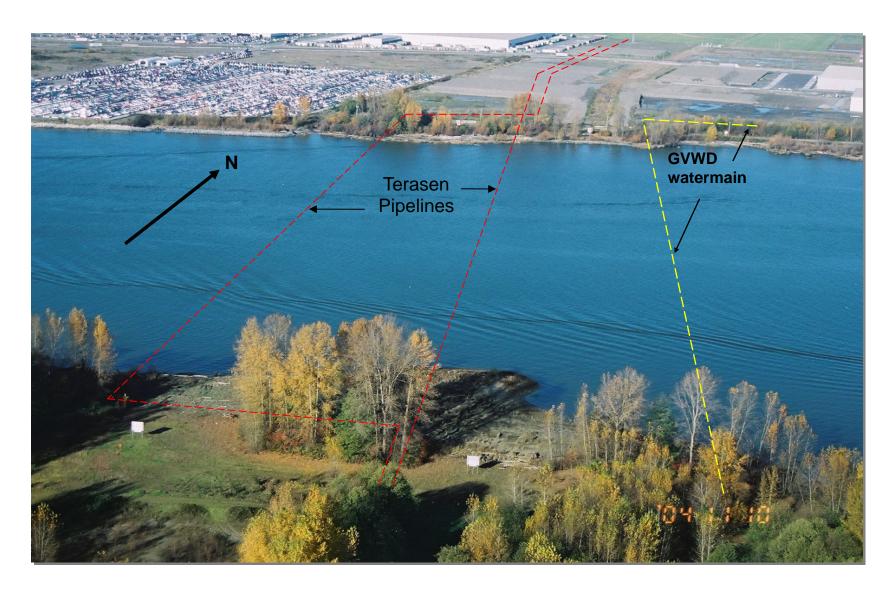
Fraser River South Arm Crossing Upgrade Project April 30, 2012

Appendix 4

Site Photographs



Site Plan – 2006



Fraser River Crossing Site – 2004
Kingswood Industrial Park not yet constructed on far (North) side



April 2009 – Existing FEI Pipeline ROW through Kingswood Industrial Park, Richmond Looking North from Fraser River. CNR and Blundell Road in upper background.



April 2009 – Existing FEI Pipeline ROW through Kingswood Industrial Park, Richmond Looking North across CNR and Blundell Road.

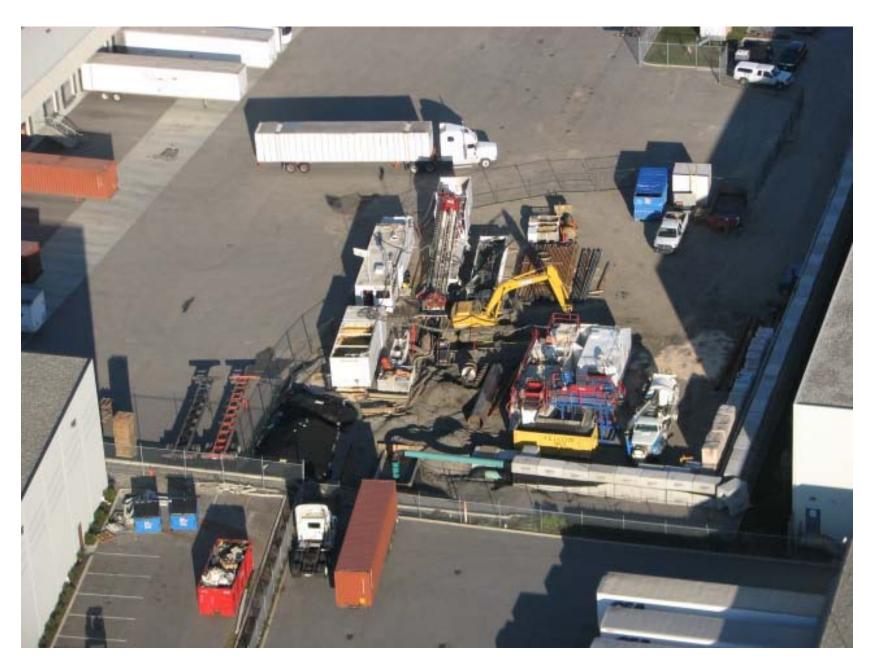
Pipe Lay-up Area in Farm Field (upper background).



Nov 26, 2009 – Pipe Layup Area showing completion of four HDD Pipe Strings Two NPS 20 and two NPS 24. Each string is 800m long.



Dec 7, 2009. North Side HDD Rig - steerable jetting drill bit.



Dec 10, 2009. North Side HDD work-pad in Kingswood Industrial Park. HDD Rig (centre), bypass pipelines protected in concrete swamp weights (right).



Dec 30, 2009. South side HDD work pad. Showing bypass pipelines and containment pond for drill cuttings.



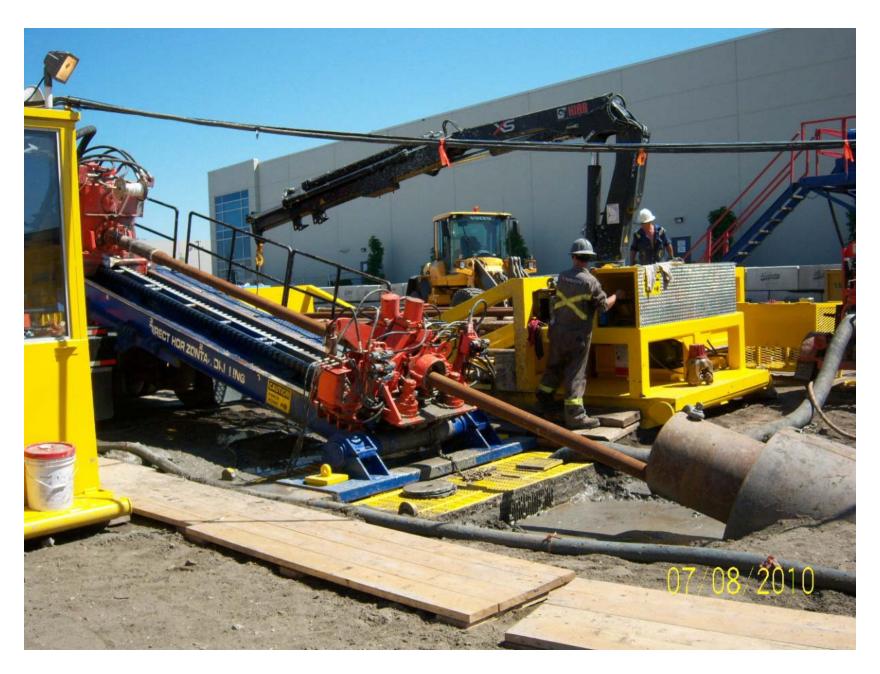
Jan 2, 2010. NPS 20 HDD failure. XXH NPS 6 drill pipe "twist-off."



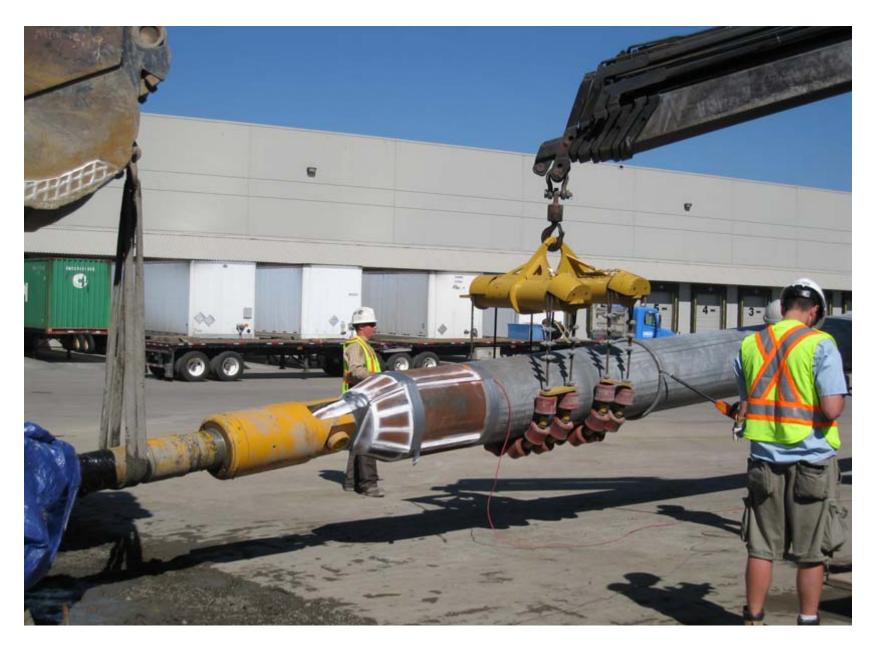
Jan 23, 2010. North side – recovered reamer and North end of HDD drill string. Drill pipe end at lower right was explosively sheared to effect the recovery. 1100 metres of HDD drill string left abandoned beneath Fraser River.



June 13, 2010. New South Side HDD entry casing for re-designed NPS 20 HDD alignment. Removal of hydraulic hammer before positioning next segment of casing.



July 8, 2010. North Side - Drilling of intersect pilot hole for NPS 24.



July 24, 2010.. North Side – NPS 24 pullback about to begin. When the pullback was 96% complete, the swivel joint (shown here in-between the grey nylon sling and the pull-head attachment pin) pulled apart.



July 24, 2010. North Side, showing NPS 24 pullback under way. Fourteen cranes were employed.



July 24, 2010. North Side, showing NPS 24 pullback underway, traversing active CNR spur line.

Current Key Step: Drive Sheet Piles





March 23, 2011. Aerial view of the South side Work-site during sheet piling installation. Bypass pipelines at left; pond at right converted for groundwater treatment.



Mar 27, 2011 – Jet grouting rig





Current Key Step: Added Support to adjacent 48" Metro Vancouver Water Pipeline





Initial Cofferdam Progress.

Soil slumping and water ingress required major remediation effort through June & July. (substantially more jet grouting and deep well de-watering effort)



36" Steel Sleeve Installation on-hold pending remediation to Cofferdam on South Side



% FORTIS вс. **July 01, 2011**

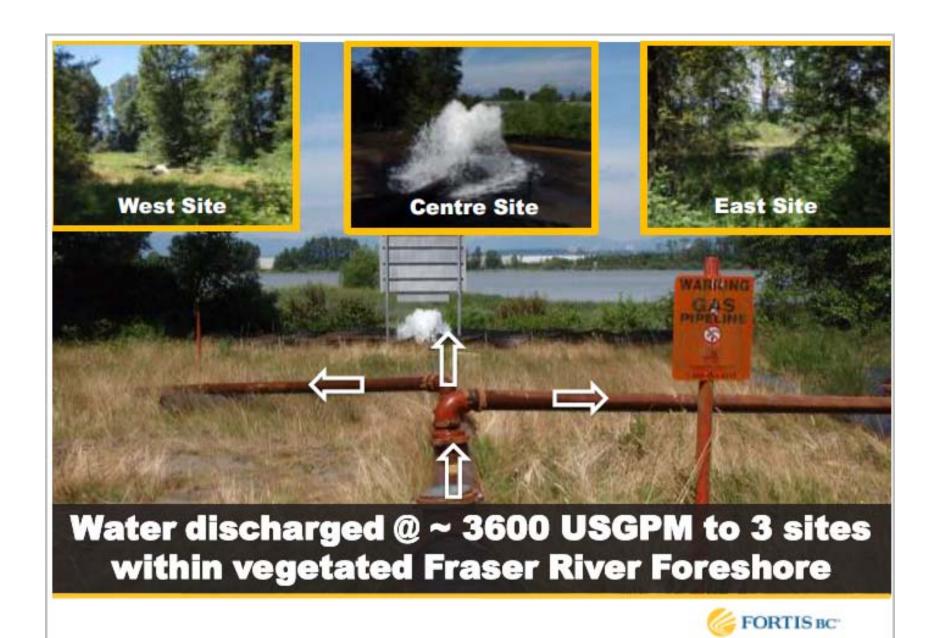


Deep Well Drilling Process ~ Locations & Drill Completion Pattern

Photo taken June 26, 2011



July 08, 2011



July 22, 2011



South Side – Completed Cofferdam. Aug 4, 2011



% FORTIS вс-July 29, 2011

Key Achievement - NPS 24 Mid Level Tie-in Weld Successfully Completed Mid Level Tie-in Weld to Over Bend completed Aug 05. **2011** after backfilling to this To Be Constructed point (4 m - 13 ft depth of cover) NPS 24 HDD Cofferdam



August 05, 2011

Key Achievement - NPS 24 isolated from 48" Casing





August 12, 2011





August 12, 2011



Internal Geometry Inspection – following routine construction of Tie-in Pipelines, then Cleaning, Hydrostatic Tests & Dewatering of Completed Crossings





Dec 19, 2011. Temporarily re-paved North Side HDD Work Pad – Kingswood Industrial Park.



Dec 19, 2011. Re-vegetated topsoil berm and re-located ditch.

East side of South HDD Work Site.

Fraser River South Arm Crossing Upgrade Project April 30, 2012

Appendix 5

Scope Change Summary

FRASER RIVER SOUTH ARM CROSSING UPGRADE PROJECT Scope Change Summary Final Report Appendix 5



	DOCUMENT DATE	SCOPE CHANGE			COSTS CATEGORIES ⁴					
NORTH AMERICAN CHANGE ORDER NO.		PROJECT STAGE	DESCRIPTION	EXPLANATION FOR REQUEST ³	ORIGINAL CHANGE ORDER REQUEST FROM NORTH AMERICAN	REJECTED BY FortisBC	APPROVED BY FortisBC	DEFERRED ⁵	UNDER INVESTIGATION ⁶	
001	Dec 14, 2009	Construction	Provided aggregate material for the North Side temporary pipe make up area and South Side work space and bypass areas	Included in Control Budget	\$ 710,653		\$ 710,653			
002	Dec 14, 2009	Construction	Provided aggregate material for the North Side construction offices	Included in Control Budget	\$ 53,498	\$ 4,522	\$ 48,975			
005	Dec 14, 2009	Construction	Provided pre-pull back caliper inspection of the HDD linepipe	Included in Control Budget	\$ 97,022	\$ 3,665	\$ 93,358			
006	Dec 14, 2009	Construction	Contractor was unable to install NPS 48 casing to design embeddment length	Included in Control Budget	(\$4,346)		(\$4,346)			
007	Dec 14, 2009	Construction	Payment of Performance Bond and Labour Material Bond per the Agreement	Included in Control Budget	\$ 103,974		\$ 103,974			
010	Jan 05, 2010	Construction	Dewatered ditch for fish salvage	Included in Control Budget	\$ 12,069	\$ 141	\$ 11,928			
012	Jan 05, 2010	Construction	New welding procedures	Included in Control Budget	\$ 61,924	\$ 38,641	\$ 23,284			
014	Jan 05, 2010	Construction	Supply and install environmental protection measures	Included in Control Budget	\$ 926	\$ 926				

		SCOPE CHANGE			COSTS CATEGORIES ⁴					
NORTH AMERICAN CHANGE ORDER NO.	DOCUMENT DATE	PROJECT STAGE	DESCRIPTION	EXPLANATION FOR REQUEST ³	ORIGINAL CHANGE ORDER REQUEST FROM NORTH AMERICAN	REJECTED BY FortisBC	APPROVED BY FortisBC	DEFERRED ⁵	UNDER INVESTIGATION ⁶	
016	Jan 05, 2010	Construction	Install additional ditch plug for fish salvage	Included in Control Budget	\$ 1,383	\$ 18	\$ 1,365			
017	Mar 08, 2010	Construction	Additional linepipe coating removal to facilitate inspection of welds	Included in Control Budget	\$ 208,904	\$ 12,261	\$ 196,642			
018	Mar 19, 2010	Construction	Extraction of NPS 24 casing on South Side	Included in Control Budget	\$ 61,984	\$ 18,815	\$ 43,169			
019	Mar 15, 2010	Construction	Additional aggegate material as a safety measure	Included in Control Budget	\$ 742		\$ 742			
021	Mar 15, 2010	Construction	Additonal HDD length by 4.2 metres	Included in Control Budget	\$ 9,719	\$ 5,906	\$ 3,813			
022	Mar 15, 2010	Construction	Temporary trailer for HDD inspectors	Included in Control Budget	\$ 4,000	\$ 2,059	\$ 1,942			
026	Apr 14, 2010	Construction	Analysis of caliper inspection	Included in Control Budget	\$ 6,820	\$ 4,416	\$ 2,404			
027	Nov 12, 2009	Construction	Clean up of groundwater discharge area	Included in Control Budget	\$ 2,947	\$ 79	\$ 2,869			
029	Apr 16, 2010	Construction	Transportation of bypass pipe	Included in Control Budget	\$ 5,280	\$ 142	\$ 5,138			
031	Mar 29, 2010	Construction	Incremental welding costs due to new welding rods	Included in Control Budget	\$ 76,943	\$ 871	\$ 76,073			
032	Oct 29, 2010	Construction	Incremental welding costs during the pull back	Included in Control Budget	\$ 15,515	\$ 5,535	\$ 9,980			
032A	Jul 24, 2010	Construction	Incremental welding costs during the pull back	Included in Control Budget	\$ 10,814	\$ 3,282	\$ 7,531			
033	Dec 14, 2009	Construction	Install additional casing North Side	Included in Control Budget	\$ 7,155		\$ 7,155			
035	Dec 14, 2009	Construction	Install additional casing South Side	Included in Control Budget	\$ 76,320		\$ 76,320			

NORTH AMERICAN CHANGE ORDER NO.	DOCUMENT DATE	SCOPE CHANGE			COSTS CATEGORIES ⁴					
		PROJECT STAGE	DESCRIPTION	EXPLANATION FOR REQUEST ³	ORIGINAL CHANGE ORDER REQUEST FROM NORTH AMERICAN	REJECTED BY FortisBC	APPROVED BY FortisBC	DEFERRED ⁵	UNDER INVESTIGATION ⁶	
036	Mar 19, 2010	Construction	Extraction of NPS 24 casing North Side	Included in Control Budget	\$ 5,811	\$ 1,764	\$ 4,047			
038	Apr 14, 2010	Construction	Aggregate for additional work space on South Side	Included in Control Budget	\$ 14,893		\$ 10,977			
040	May 17, 2010	Construction	Empty the settlement pond of rainwater	Included in Control Budget	\$ 112,268	\$ 3,558	\$ 108,710			
041	Apr 16, 2010	Construction	Exposed active lines due to relocation of HDD entry points	Included in Control Budget	\$ 2,802	\$ 1,401	\$ 1,401			
043	Oct 29, 2010	Construction	Removal and disposal of drilling cuttings	Included in Control Budget	\$ 222,634	\$ 89,287	\$ 133,347			
046	Oct 29, 2010	Construction	Temporary fencing rental to security access at Direct Distribution facility	Included in Control Budget	\$ 1,078	\$ 701	\$ 377			
047	Oct 29, 2010	Construction	Temporary trailer for HDD inspectors	Included in Control Budget	\$ 16,708		\$ 16,708			
048	Oct 29, 2010	Construction	Removal and disposal of drilling fluids	Included in Control Budget	\$ 28,808	\$ 12,884	\$ 15,925			
053	Jan 10, 2012	Construction	Extraction of Amended NPS 20 Casing on South Side	Included in Control Budget	\$ 30,992	\$ 9,407	\$ 21,585			
058	Mar 01, 2011	Construction	CN Rail Inspector during NPS pullback	Included in Control Budget	\$ 11,509	\$ 1,436	\$ 10,073			
059	Jan 10, 2012	Construction	Transition Fittings	Included in Control Budget	\$ 282,889	\$ 85,869	\$ 197,020			
061	Dec 12, 2011	Construction	Temporary field office trailers	Included in Control Budget	\$ 14,898	\$ 4,522	\$ 10,376			
063	Jan 10, 2012	Construction	Cathodic protection test leads	Included in Control Budget	\$ 2,100	\$ 637	\$ 1,463			

		SCO	PE CHANGE				COSTS CATEGOR	IES ⁴	
NORTH AMERICAN CHANGE ORDER NO.	DOCUMENT DATE	PROJECT STAGE	DESCRIPTION	EXPLANATION FOR REQUEST ³	ORIGINAL CHANGE ORDER REQUEST FROM NORTH AMERICAN	REJECTED BY FortisBC	APPROVED BY FortisBC	DEFERRED ⁵	UNDER INVESTIGATION ⁶
065	Jan 10, 2012	Construction	Additional linepipe coating removal to facilitate inspection of welds	Included in Control Budget	\$ 53,500	\$ 16,239	\$ 37,260		
069	Jan 11, 2012	Construction	Clean up of groundwater discharge area	Included in Control Budget	\$ 6,262	\$ 1,901	\$ 4,361		
071	Jan 11, 2012	Construction	Incremental welding costs due to new welding rods	Included in Control Budget	\$ 19,482	\$ 5,914	\$ 13,568		
072	Oct 16, 2011	Construction	Supply methanol	Included in Control Budget	\$ 1,101	\$ 334	\$ 767		
073	Dec 31, 2011	Construction	As-Built survey	Included in Control Budget	\$ 94,233	\$ 28,604	\$ 65,629		
077	Jan 11, 2012	Construction	Removal of filter cloth on Field Office area and Lantic	Included in Control Budget	\$ 4,521	\$ 1,372	\$ 3,149		
078	Jan 11, 2012	Construction	All casing extractions and grouting	Included in Control Budget	\$ 351,410	\$ 84,644	\$ 266,766		
080	Jan 11, 2012	Construction	Transport of NPS 48 casing from South Side workpad	Included in Control Budget	\$ 2,041	\$ 620	\$ 1,422		
081	Jan 11, 2012	Construction	Comissioning Standby	Included in Control Budget	\$ 79,450	\$ 24,117	\$ 55,334		
085	Oct 31, 2011	Construction	Clean out abandon river section of NPS 24	Included in Control Budget	\$ 9,915	\$ 3,010	\$ 6,906		
	Included in	Control Budget Suk	o-Total - refer to Table 4-3				\$ 2,410,138	-	-
008	Feb 02, 2010	Post Construction	Contractor requested additional compensation after NPS 20 failure	Failed NPS 20 HDD Attempt	Not Provided	Rejected (No support documentation provided)			

	SCOPE CHANGE				COSTS CATEGORIES⁴					
NORTH AMERICAN CHANGE ORDER NO.	DOCUMENT DATE	PROJECT STAGE	DESCRIPTION	EXPLANATION FOR REQUEST ³	ORIGINAL CHANGE ORDER REQUEST FROM NORTH AMERICAN	REJECTED BY FortisBC	APPROVED BY FortisBC	DEFERRED ⁵	UNDER INVESTIGATION ⁶	
009	Feb 02, 2010	Post Construction	Contractor requested additional compensation after NPS 20 failure for "Changed Subsurface" conditions	Failed NPS 20 HDD Attempt	Not Provided	Rejected (No support documentation provided)				
034	Dec 14, 2009	Construction	Install additional casing South Side on the Failed NPS 20	Failed NPS 20 HDD Attempt	\$ 38,160	\$ 38,160	-			
037	Mar 19, 2010	Construction	Extraction of NPS 20 casing South Side	Failed NPS 20 HDD Attempt	\$ 30,992	\$ 30,992	-			
039	Apr 14, 2010	Construction	Additional aggregate as a result of Failed NPS 20	Failed NPS 20 HDD Attempt	\$ 12,330	\$ 679	\$ 8,588			
042	Apr 20, 2010	Construction	Transportation of additional casing	Failed NPS 20 HDD Attempt	\$ 9,363	\$ 1,649	\$ 7,714			
044	Jun 23, 2010	Construction	Installtion of casing for the amended NPS 20 South Side	Failed NPS 20 HDD Attempt	\$ 64,395	\$ 3,546	\$ 44,848			
	Incremental Faile	d NPS 20 HDD Atten	npt Sub-Total - refer to Tab	le 4-2			\$ 61,150	-	-	
024	Mar 30, 2010	Construction	Testing and disposal of ground water	Groundwater Treatment	\$ 75,619	\$ 46,911	\$ 28,708			
049	Oct 29, 2010	Construction	Supply and install a new liner in the containment pond for groundwater treatment	Groundwater Treatment	\$ 42,150	\$ 167	\$ 41,984			
050	Mar 01, 2011	Construction	Engineering, design and equipment of the groundwater treatment process	Groundwater Treatment	\$ 144,881	\$ 6,673	\$ 138,209			
060	Nov 30, 2011	Construction	Cofferdam deepwell dewatering	Groundwater Treatment	\$ 524,692	\$ 159,266	\$ 365,426			

SCOPE CHANGE				COSTS CATEGORIES⁴					
NORTH AMERICAN CHANGE ORDER NO.	DOCUMENT DATE	PROJECT STAGE	DESCRIPTION	EXPLANATION FOR REQUEST ³	ORIGINAL CHANGE ORDER REQUEST FROM NORTH AMERICAN	REJECTED BY FortisBC	APPROVED BY FortisBC	DEFERRED ⁵	UNDER INVESTIGATION ⁶
068	Sep 13, 2011	Construction	Engineering, design and equipment of the groundwater treatment process	Groundwater Treatment	\$ 48,054	\$ 14,586	\$ 33,467		
076	Jan 11, 2012	Construction	Decommissioning of groundwater treatment system	Groundwater Treatment	\$ 37,331	\$ 11,332	\$ 25,999		
	Incremental Groundwater Treatment Sub-Total - refer to Table 4-2						\$ 633,793	-	-
051	Dec 01, 2011	Construction	Install steel sleeve to obtain long term integrity for NPS 24 North Side	NPS 24 Short Pullback	\$ 333,999	\$ 87,828	\$ 246,171		
067	Oct 27, 2011	Construction	Disposal of grout columns from cofferdam	NPS 24 Short Pullback	\$ 28,323	\$ 8,597	\$ 19,725		
	NPS 24 Short Pullback Sub-Total - refer to Table 4-2 (Approved by FortisBC+Deferred+Under Investigation = \$400,000)						\$ 265,897	-	-
004	Dec 14, 2009	Construction	Hydro seeded ditch to comply with farmer's requirements	Restoration	\$ 1,265	\$ 55	\$ 1,210		
013	Jan 05, 2010	Construction	Supply and install additional de-watering discharge pipe	Restoration	\$ 2,758	\$ 2,758			
025	Mar 30, 2010	Construction	Contractor's soil sampling analysis and reporting	Restoration	\$ 28,232	\$ 8,570	\$ 19,663		
052	Oct 29, 2010	Construction	Restoration of pipe make up area	Restoration	\$ 211,349	\$ 366	\$ 210,982		
057	Dec 02, 2010	Construction	Disposal of trees and vegetation	Restoration	\$ 6,470	-	\$ 6,470		
064	Dec 16, 2011	Construction	Supply fence at Stork craft and Direct	Restoration	\$ 6,120	\$ 1,858	\$ 4,263		

SCOPE CHANGE					COSTS CATEGORIES ⁴				
NORTH AMERICAN CHANGE ORDER NO.	DOCUMENT DATE	PROJECT STAGE	DESCRIPTION	EXPLANATION FOR REQUEST ³	ORIGINAL CHANGE ORDER REQUEST FROM NORTH AMERICAN	REJECTED BY FortisBC	APPROVED BY FortisBC	DEFERRED ⁵	UNDER INVESTIGATION ⁶
066	Aug 31, 2011	Construction	Supply piezometer and ground water monitoring well	Restoration	\$ 6,000	\$ 1,821	\$ 4,179		
074	Sep 21, 2011	Construction	Reclamation of Settlement Pond	Restoration	\$ 35,269	\$ 10,706	\$ 24,563		
075	Jan 11, 2012	Construction	Extension of City of Richmond's ditch	Restoration	\$ 17,587	\$ 5,338	\$ 12,248		
083	Nov 30, 2011	Construction	Preparation of Stork Craft parking lot for temporary paving	Restoration	\$ 69,067	\$ 20,965	\$ 48,102		
	Incremental Restoration Sub-Total - refer to Table 4-2						\$ 331,680	-	-
003	Dec 14, 2009	Construction	Off loaded linepipe	Other	\$ 27,334	\$ 1,188	\$ 26,145		
011	Jan 05, 2010	Design	Installation of monitor for Metro Vancouver waterline	Other	\$ 17,630	\$ 5,079	\$ 12,551		
015	Jan 05, 2010	Construction	Special asbestos handling of old pipeline coatings	Other	\$ 264	-	\$ 264		
020	Mar 15, 2010	Construction	Re-position North Side HDD enrty point by 4.2 metres	Other	\$ 7,174	\$ 61	\$ 7,112		
023	Mar 30, 2010	Design	Contractor's engineering & geotechnical assessment of GVWD (Metro Vancouver) water line	Other	\$ 16,567	\$ 5,029	\$ 11,538		
030	Oct 29, 2010	Construction	Incremental weld inspection during the pull back	Other	\$ 7,993	\$ 2,426	\$ 5,567		
030A	Jul 24, 2010	Construction	Incremental weld inspection during the pull back	Other	\$ 9,820	\$ 2,981	\$ 6,839		
045	Sep 22, 2010	Construction	Incremental costs of grouting NPS 20 North Side	Other	\$ 75,507	\$ 53,653	\$ 21,854		

		sco	PE CHANGE			COSTS CATEGORIES ⁴				
NORTH AMERICAN CHANGE ORDER NO.	DOCUMENT DATE	PROJECT STAGE	DESCRIPTION	EXPLANATION FOR REQUEST ³	ORIGINAL CHANGE ORDER REQUEST FROM NORTH AMERICAN	REJECTED BY FortisBC	APPROVED BY FortisBC	DEFERRED ⁵	UNDER INVESTIGATION ⁶	
054	Mar 01, 2011	Construction	Incremental payment of Performance Bond and Labour Material Bond per the Agreement	Other	\$ 14,191	-	\$ 14,191			
070	Jan 11, 2012	Construction	Off loaded linepipe	Other	\$ 16,610	\$ 5,042	\$ 11,568			
079	Sep 10, 2011	Construction	NORMs	Other	\$ 18,599	\$ 1,024	\$ 17,575			
082	Nov 30, 2011	Construction	Pipe Storage	Other	\$ 3,732	\$ 1,133	\$ 2,599			
084	Nov 22, 2012	Construction	Monitoring GVWD Waterline	Other	\$ 49,592	\$ 15,053	\$ 34,539			
	Other Sub-Total - refer to Table 4-2						\$ 172,343	-	-	
028				Retracted by NAPI - Not Used						
055				Retracted by NAPI - Not Used						
056				Retracted by NAPI - Not Used						

GENERAL NOTES:

- 1. All costs exclude HST
- These costs are exclusive of extra ordinary claims submitted by North American for compensation
 Refer to lines 3 & 4 of the amended Table 4-2 and allowance for changes in Table 4-3 in the Quarterly Progress Report
 Scope change sumary information as specified Appendix A of Order C-2-09
- 5. No longer applicable6. No longer applicable

Fraser River South Arm Crossing Upgrade Project April 30, 2012

Appendix 6

Settlement Agreement

FINAL SETTLEMENT AGREEMENT AND RELEASE

THIS AGREEMENT ("Agreement") made effective as of the 26th of March, 2012.

BETWEEN:

FORTISBC ENERGY INC.

16705 Fraser Highway Surrey, British Columbia V4N 0E8

("FortisBC")

AND:

NORTH AMERICAN PIPELINE INC.

Zone 3, Acheson Industrial Area 2-53016 - Highway 60 Acheson, Alberta T7X 5A7

("NAPI")

AND:

NORTH AMERICAN CONSTRUCTION MANAGEMENT INC.

Zone 3, Acheson Industrial Area 2-53016 - Highway 60 Acheson, Alberta T7X 5A7

("NAPI Parent")

(the foregoing referred to herein individually as "Party" and collectively as "Parties")

BACKGROUND

- A. Pursuant to a contract dated August 21, 2009 referenced T091734RDM, as amended by agreement entitled Amendment No. 1 dated December 1, 2009, between FortisBC, formerly known as Terasen Gas Inc., and NAPI (such contract as amended referred to herein as "Contract"), NAPI agreed to provide certain Work as part of FortisBC's Fraser River South Arm Crossing Upgrade Project ("Project"), all as more particularly described in the Contract;
- B. NAPI subcontracted a portion of the Work (the "HDD Work") to The Crossing Company Inc. ("TCC") pursuant to a written subcontract, as amended from time to time, between NAPI and TCC ("TCC Subcontract"), all as more particularly described in the TCC Subcontract;
- C. On January 1, 2010, during the final cleaning pass of the borehole prior to pulling the HDD NPS 20 Pipeline through the borehole as part of the HDD Work, TCC lost and was unable to retrieve its drill pipe from the borehole (the "NPS 20 Incident"), following which TCC ultimately abandoned the Site and the HDD Work on or about May 13, 2010;
- D. After TCC abandoned the HDD Work, NAPI subcontracted with Direct Horizontal Drilling Inc. ("Direct") pursuant to a written subcontract, as amended from time to time, to complete the HDD Work ("Direct Subcontract"), pursuant to which Direct

- mobilized and commenced work on the HDD NPS 24 Pipeline part of the HDD Work on or about June 18, 2010;
- E. During pulling by Direct of the HDD NPS 24 Pipe on July 25, 2010 through the borehole and into the bottom of the 48 inch diameter casing on the South Side of the Site, which casing bottom was at an approximate vertical depth of 17 meters, Direct's drill pipe disconnected from the swivel head, and notwithstanding its recovery efforts Direct was not able to complete the pull of the HDD NPS 24 Pipe and left the end of the HDD NPS 24 Pipe at or adjacent to the bottom of the casing on the South Side of the Site (collectively all of the foregoing the "NPS 24 Incident");
- F. Following unsuccessful attempts to retrieve the HDD NPS 24 Pipe so that Direct could complete pulling it to an accessible location at the place required by the Contract, Direct abandoned any further recovery attempts and, instead, on or about July 26, 2010 commenced working on the HDD NPS 20 Pipe, which Direct completed pulling to the place required by the Contract for the New NPS 20 Crossing on or about August 14, 2010;
- G. To gain access at depth to the end of the HDD NPS 24 Pipe at the bottom of the casing so that it could complete the New NPS 24 Crossing, NAPI designed or caused to be designed a temporary cofferdam ("Cofferdam"), following which NAPI constructed the Cofferdam and completed the New NPS 24 Crossing by attaching to the end of the HDD NPS 24 Pipe at the bottom of the casing both additional lengths of NPS 24 Pipe and additional NPS 24 bends procured by FortisBC not otherwise required, and NAPI then completed the New NPS 24 Crossing on or about December 3, 2011;
- H. When NAPI encountered difficulties in removing all of the Cofferdam, FortisBC consented to NAPI leaving certain metal support structures from the Cofferdam in place ("Cofferdam Remnants"), provided that NAPI agreed to indemnify FortisBC for any claims, losses and damages resulting from or arising out of the Cofferdam Remnants and provided further that NAPI would perform and be responsible for ground water monitoring of the Cofferdam in October and April biannually for Years 1 and 2, then annually for Years 3 through 5, commencing October 2013;
- I. Either or both TCC and Direct, in relation to the Project and, as applicable, the TCC Subcontract and Direct Subcontract (collectively "NAPI Subcontracts"), filed claims of builders liens against lands, or interests in lands, on which they claimed they provided labour, equipment, work or services in relation to the Contract and the Project, or claimed against the builders lien holdback required to be retained in relation to the Contract and their subcontracts pursuant to the Builders Lien Act of B.C. (collectively each and all of the foregoing "Liens"), including without limitation the following Liens, and commenced the actions indicated (individually "Action" and collectively "Lien Actions") in the Supreme Court of British Columbia to, among other things, enforce their respective claims and Liens against the lands or interests in lands which are the subject of the Liens, against the builders lien holdback under the Contract and against NAPI and those defendants described in the Lien Actions, and filed Certificates of Pending Litigation in the Land Title Office, as follows:

Lien Claimant	L.T.O. Registration	Date Filed	Amount of Lien Claimed	Action No.
TCC	BB1700081	2010-09-10	\$2,890,043.00	No Action commenced to date

- J. FortisBC and NAPI have each incurred expense, costs and damages, including internal costs and third party costs and liabilities associated with or arising out of the NPS 20 Incident, the NPS 24 Incident, the Cofferdam, the Liens, the Lien Actions and delays to the Project resulting from the NPS 20 Incident, the NPS 24 Incident (collectively both the NPS 24 Incident and NPS 20 Incident the "Incidents"), and the Cofferdam, and FortisBC has claimed against NAPI for additional expense and direct and indirect cost incurred to date by FortisBC resulting from or in connection with the Incidents, the Cofferdam and NAPI's failure to achieve Substantial Completion and Final Acceptance within the time required by the Contract ("FortisBC Claim"), and NAPI has claimed against FortisBC for additional expense and direct and indirect cost and damages incurred by NAPI ("NAPI Claim") resulting from or in connection with, among other things, the Incidents, the Cofferdam, one or more alleged or actual Change in Subsurface Conditions, and delays;
- K. FortisBC and NAPI desire to resolve and settle their differences amicably without resort to mediation, arbitration or litigation proceedings and, accordingly, have agreed to compromise and settle both the FortisBC Claim and NAPI Claim on the terms and conditions contained herein; and
- L. As NAPI is a wholly owned subsidiary of NAPI Parent, NAPI Parent acknowledges and agrees that NAPI Parent has a financial interest in the successful completion of the Contract by NAPI and in the resolution and settlement of both the FortisBC Claim and the NAPI Claim,

NOW THEREFORE, for and in consideration of the mutual promises and covenants and agreements hereinafter contained, and for other good and valuable consideration, the receipt and sufficiency all of which is hereby acknowledged by the Parties, the Parties hereto covenant and agree with each other as follows:

1. Definitions and Interpretation

- 1.1 Unless a contrary interpretation is expressly indicated, terms used in this Agreement, whether capitalized or not, that are defined and capitalized in the Contract have the same meaning as given to them in the Contract.
- 1.2 The recitals to this Agreement are contractual and have the same force and effect as if repeated verbatim herein.
- 1.3 In the event of conflicts or inconsistencies between this Agreement and the Contract, this Agreement shall govern and take precedence over the Contract.

2. Payment of Settlement Amount and Other Amounts by FortisBC to NAPI

2.1 In consideration of the releases and indemnities contained herein, and in full and final satisfaction of the NAPI Claim and all other claims, causes of action, damages, costs and expenses that NAPI has or may have arising out of, associated with or resulting from the Incidents, the Cofferdam, the Contract, the NAPI Subcontracts, the Project and delays in completing the Contract, FortisBC agrees to and will pay to NAPI a lump sum cash payment of CAD \$2,475,000 plus Harmonized Sales Tax ("HST") in accordance with Section 182 of the Excise Tax Act (Canada) of CAD \$297,000, for a total payment of CAD \$2,772,000 (the "Settlement Amount") inclusive of HST, which Settlement Amount shall be deemed to be a payment under both this Agreement and under the Contract.

2.2 NAPI and FortisBC agree that, including the Settlement Amount, the final Contract Price ("Final Contract Price") is CAD \$16,468,900.00, plus HST of CAD \$1,976,268.00, for a total of CAD\$18,445,168.00, comprised of the following (all in CAD\$):

	Amount (excl HST)	<u>HST</u>	<u>Total</u>
Base Price	\$10,118,900.00	\$1,214,268.00	\$11,333,168.00
Total Change Orders (other than the Settlement Amount):	\$3,875,000.00	\$465,000.00	\$4,340,000.00
Settlement Amount	\$2,475,000.00	\$297,000.00	\$2,772,000,00
Final Contract Price	\$16,468,900.00	\$1,976,268.00	\$18,445,168.00

NAPI and FortisBC further agree that, in addition to the Settlement Amount, the following amounts to be paid to NAPI under the Final Contract Price remain outstanding:

- a. CAD \$1,927,591.34, plus HST of CAD \$231,310.96 for a total of CAD\$2,158,902.30 (the "Outstanding Change Order Amount"); and
- b. CAD \$1,206,630.87 plus HST of CAD \$144,795.70 for a total of CAD\$1,351,426.57 (the "Holdback Amount").

The Outstanding Change Order Amount and the Holdback Amount shall be paid to and received by NAPI on or before March 30, 2012.

The Contractor acknowledges and agrees that it has received, prior to the date hereof, the total Final Contract Price save and except only the Outstanding Change Order Amount, the Holdback Amount and the Settlement Amount.

- 2.3 The Settlement Amount will be paid to NAPI within five (5) business days after the Condition Precedent in Section 8 has been satisfied or waived in writing by FortisBC.
- 2.4 NAPI represents, acknowledges and agrees that the Final Contract Price is the total amount to which NAPI is entitled to be paid under, in relation to, arising out of or resulting from the Contract and the Project, including the Incidents, the Cofferdam, alleged or actual Changes in Subsurface Conditions, the NAPI Claim and the NAPI Subcontracts.
- 2.5 NAPI represents and warrants to FortisBC that NAPI is registered for the purposes of GST/HST and NAPI's GST/HST Registration Number is 131492225.

3. NAPI's Release and Indemnification of FortisBC

- 3.1 In consideration of the mutual promises and covenants and agreements herein contained, payment of the Outstanding Change Order Amount and the Holdback Amount to NAPI, payment of the Settlement Amount to NAPI, and for other good and valuable consideration the receipt and sufficiency all of which is hereby acknowledged, NAPI hereby:
 - a. agrees to and does release and forever discharge, for itself, its successors and assigns, FortisBC and its corporate parent and

affiliates, and its and their respective directors, officers, employees, servants, agents, consultants, successors and assigns, and each of them, past, present and future (collectively each and all of the foregoing the "FortisBC Releasees") of, from and against any and all liabilities, causes of action, liens, claims, proceedings, demands, suits, debts, duties, losses, damages, injuries, interest and costs of any nature or kind whatsoever and wheresoever, whether at law or at equity and whether known or unknown, suspected or unsuspected, presently existing or which hereafter may exist, which NAPI and its successors and assigns have or hereafter can, shall or may have, relating to or arising out of any one or more of the Contract, the Incidents, the Cofferdam, the NAPI Claim, the NAPI Subcontracts and the Project, including the subject matter of any and all thereof and all facts and circumstances related thereto;

- b. agrees to and shall defend, indemnify and save harmless the FortisBC Releasees, and each of them, from and against any and all claims, demands, losses, costs (including legal costs on a solicitor and client basis), damages, awards, judgments, actions, suits, proceedings and all other liabilities of whatsoever nature directly or indirectly arising or alleged to arise out of any one or more of the Contract, the Project, the Incidents, the Cofferdam, the Liens, the Lien Actions, the NAPI Claims and the NAPI Subcontracts, provided however that in defending any action, suit or other proceeding against any of the FortisBC Releasees pursuant to the foregoing all statements of defence, admissions and submissions are subject to the prior review and approval of FortisBC and its counsel, and NAPI and its counsel shall make such changes as FortisBC may request, acting reasonably; and
- c. the FortisBC Releasees, individually and collectively, may enforce this Agreement against NAPI, its successors and assigns, to the same extent and for the same purposes as if they were an express party to this Agreement, and for purposes of enforcement of this Agreement by any of the FortisBC Releasees they are not and will not be required to obtain or produce the executed original of this Agreement but may instead introduce into evidence and rely upon a photocopy of this Agreement, which photocopy is made after execution of this Agreement, to the same extent and for the same purposes as if the photocopy was the executed original of this Agreement.
- 3.2 NAPI agrees not to make any claim or take any proceedings against any other person, partnership or corporation who might claim contribution or indemnity or otherwise from any of the FortisBC Releasees in connection with any one or more of the Contract, the Project, the NAPI Subcontracts, the Liens or the Actions.
- 3.3 Save and except the NAPI Claims, NAPI represents, warrants and confirms it has no other claims of any kind, whether for breach of contract, negligence, misrepresentation, breach of any duty, or otherwise, against FortisBC or any other FortisBC Releasees in relation to the Contract or Project, including without limitation the Incidents, the Cofferdam, the NAPI Claim, the NAPI Subcontracts, and any delays or additional costs incurred in performing the Contract.
- 3.4 The obligations of NAPI under this Section 3 will survive termination or expiration of both this Agreement and the Contract.

4. Release by Subcontractors

4.1 NAPI agrees to and shall use all reasonable commercial efforts to obtain from each of TCC and Direct a general release of FortisBC and the FortisBC Releasees of all claims, actions and proceedings whatsoever arising under or by virtue of the Project, the Contract, the Incidents and the NAPI Subcontracts (the "Subcontractor General Release"). NAPI shall promptly provide to FortisBC, after receipt from TCC and Direct, as applicable, a copy of each executed Subcontractor General Release that it is able to obtain.

5. Parental Guarantee by NAPI Parent

- 5.1 In consideration of the mutual promises and covenants and agreements herein contained, the payment of the Settlement Funds by FortisBC to NAPI, the release by FortisBC in favour of NAPI in Section 6 (all of which NAPI Parent acknowledges is also of benefit to NAPI Parent), and for other good and valuable consideration the receipt and sufficiency all of which is hereby acknowledged, NAPI Parent herby agrees to be and shall be jointly and severally liable for all obligations of NAPI arising out of or in connection with this Agreement, including without limitation fulfilling all indemnities in this Agreement in favour of FortisBC and the FortisBC Releasees.
- 5.2 Concurrent with execution of this Agreement, NAPI Parent agrees to and shall, deliver to FortisBC a guarantee in the form attached as Schedule "A" to this Agreement ("Parental Guarantee"), duly executed by NAPI Parent and enforceable against NAPI Parent in accordance with its terms.
- 5.3 FortisBC covenants and agrees that it will:
 - a. not call on the NAPI Parent under the Parental Guarantee unless and until the Condition Precedent in Section 8 has been satisfied or waived in writing by FortisBC in accordance with Section 8; and
 - b. if the Condition Precedent in Section 8 has not been satisfied or waived in writing by FortisBC in accordance with Section 8; to promptly return the executed Parental Guarantee to NAPI Parent once the date required by Section 8 for satisfying or waiving the Conditions Precedent has passed.

6. FortisBC's Release of NAPI

6.1 In consideration of the mutual promises and covenants and agreements herein contained, the release and indemnification by NAPI under Section 3, and for other good and valuable consideration the receipt and sufficiency all of which is hereby acknowledged, and except as provided in Section 6.2, FortisBC hereby agrees to and does release and forever discharge, for itself and its successors and assigns, NAPI and NAPI's officers, employees, servants, agents, consultants, successors and assigns, and each of them (collectively and individually "NAPI Releasees"), from any and all liabilities, causes of action, liens, claims, proceedings, demands, suits, debts, duties, damages, interest and costs of any nature or kind whatsoever and wheresoever, which FortisBC, its successors and assigns have or hereafter can, shall or may have, relating to or arising out of or resulting from or in connection with the Contract, the Incidents, the Cofferdam, the Cofferdam Remnants, including any water monitoring required in respect of the Cofferdam, and the FortisBC Claim, including delays in achieving Substantial Completion and Final Acceptance within the time required by the Contract, and the Project, and

- including the subject matter thereof and all facts and circumstances related thereto.
- 6.2 Notwithstanding any other provision of this Agreement, it is agreed nothing in Section 6.1 shall apply to or release the Contractor from:
 - any other obligation under the Contract required to achieve Substantial Completion and Final Acceptance, including NAPI's obligation to complete any items identified on any deficiency lists previously issued to the Contractor;
 - b. any warranty obligations under the Contract; and
 - any claims for indemnity under the Contract or any obligations under this Agreement.

7. Contract Remains in Force

7.1 Except to the extent NAPI is released of its obligations and liabilities under the Contract pursuant to Section 6.1, all terms and conditions of the Contract remain unchanged and continue to apply in full force and effect, including all indemnities, liabilities and obligations of NAPI under the Contract, and subject only to Section 6.1 FortisBC will retain all rights and remedies available to it under the Contract. Further, it is agreed that none of the Contractor's guarantees, warranties or obligations in the Contract will be reduced, changed or compromised in any way by this Agreement except as expressly stated in Section 6.1, all of which shall survive the execution of this Agreement:

8. Condition Precedent

- 8.1 It is a condition precedent ("Condition Precedent") to the coming into effect of this Agreement that FortisBC has received approval of this Agreement by the British Columbia Utilities Commission ("BCUC") on or before June 30, 2012 (the "Condition Precedent Removal Date"), on terms and conditions satisfactory to FortisBC at its discretion.
- 8.2 The Condition Precedent is for the sole benefit of FortisBC, and must be satisifed no later than 5:00 p.m. local time in Vancouver, B.C., on the Condition Precedent Removal Date, provided however that the Parties by agreement in writing may extend the Condition Precedent Removal Date if the Condition Precedent is not either satisfied or waived in writing by FortisBC prior to the Condition Precedent Removal Date. If the Condition Precedent is satisfied or waived prior to the Condition Precedent Removal Date, this Agreement shall be effective as of and from the effective date stated at the top of the first page of this Agreement.
- 8.3 If the Condition Precedent is not fully satisfied by the Condition Precedent Removal Date, as such date may be agreement be extended in writing, then unless FortisBC at its sole discretion in writing has waived the Condition Precedent this Agreement will terminate, in which case:
 - FortisBC will promptly return the Parental Guarantee to NAPI Parent;
 and
 - b. other than with respect to all outstanding requests for change orders and contemplated change orders prior to the date hereof for which the Parties have agreed to compromise and settle for the amount of the Outstanding Change Order Amount, which settlement shall remain in effect and to which all terms, conditions, releases and waivers herein shall continue to apply, each Party retains all of their respective rights

to allege and pursue, and defences to, the FortisBC Claim and the NAPI Claim.

9. Entire Agreement

- 9.1 This is a settlement of disputed claims and counterclaims with respect to the Incidents, the Cofferdam, the FortisBC Claim, the NAPI Claim, the Contract and the Project, and is not to be construed or considered an admission of liability on the part of any Party. The Parties intend that the terms of this Agreement contains the entire agreement between the Parties and shall be the final expression of their agreement with respect to the subject matter herein, shall supersede all prior representations, agreements and understandings between the Parties with respect thereto and may not be contradicted by evidence of any prior or contemporaneous representations, negotiations or agreements. The Parties further intend that this Agreement shall constitute the complete and exclusive statement of its terms and that no extrinsic evidence whatsoever may be introduced in any judicial, arbitral. administrative, or other legal proceeding to interpret or contradict any provision of this Agreement. No changes, alterations, modifications or amendments to this Agreement shall be effective unless the same are expressly stated to be such a change, alteration, modification or amendment, are in writing and are signed by the Parties.
- 9.2 This Agreement shall be binding upon the Parties and their successors and assigns.

10. Governing Law and Jurisdiction

10.1 This Agreement shall be governed and construed in accordance with the laws of the Province of British Columbia. Any dispute arising in relation to or as a consequence of this Agreement, including the validity or interpretation of this Agreement or any provision herein, which cannot be settled amicably through negotiations between the Parties, shall be subject to the courts of British Columbia. The Parties, and each of them, hereby attorn to the jurisdiction of the courts of British Columbia.

11. Confidentiality

11.1 The terms of this Agreement are confidential and the Parties agree not to disclose them to anyone except: (a) as required by law or governmental authority; (b) as may be necessary in the course of business, to such persons as their respective counsel, advisors, accountants, auditors, insurers and bankers, to the minimum disclosure of information necessary to satisfy that person's requirements; (c) where considered necessary or appropriate by a Party, to any one or more of their affiliates or shareholders, provided that in doing so they will require them to comply with the confidentiality requirements of this Section 11.1; (d) as otherwise ordered by a court of competent jurisdiction; or (e) as part of a regulatory filing or proceeding, including with regard to the BC Utilities Commission and any security regulator. Notwithstanding the foregoing and for clarity, the Parties and their respective corporate affiliates and shareholders shall be entitled to disclose in their financial statements and annual reports the fact that a settlement has occurred and, if required law or governmental authority, the amount of the Settlement Amount.

12. Independent Legal Advice

12.1 NAPI, FortisBC and the NAPI Parent acknowledge that this Agreement has been executed freely, voluntarily and without duress and that this Agreement has been executed voluntarily by all of the Parties after receiving independent legal advice.

13. Authority to Enter into Agreement

- 13.1 Each Party executing this Agreement represents and warrants to the other that:
 - a. it has the requisite power, authority and capacity to execute and deliver this Agreement;
 - b. this Agreement has been duly and validly executed on its behalf by its duly authorized representatives; and
 - c. this Agreement constitutes a legal, valid and binding agreement enforceable against it in accordance with its terms.

14. Counterparts

- 14.1 This Agreement may be executed in counterparts with the same effect as if the Parties had signed the same document, each of which shall be deemed an original. All counterparts will be construed together and will constitute one and the same instrument.
- 14.2 To expedite the execution hereof, any one or more of the Parties may transmit by fax, or email in PDF format, to the other Party or Parties a copy of this Agreement executed by one or more of the Parties, the receipt of which shall have the same force and effect as if the original thereof had in fact been delivered at the same time. Any original, fax copy, PDF print copy or photocopy of this Agreement bearing one or more signatures on behalf of a Party shall be admissible against that Party in any legal proceeding as evidence of the execution and delivery of this Agreement by that Party without the necessity of the Party relying on the Agreement to produce an original executed copy of the Agreement.

IN WITNESS WHEREOF the Parties have executed this Agreement by their duly authorized representative made as of the day and year first above written.

Per:	KM Sm/C
	Authorized Signatory
NORT	H AMERICAN PIPELINE INC.
Per:	Authorized Signatory
NORT	H AMERICAN CONSTRUCTION MANAGEMENT INC
Per:	Authorized Signatory

FORTISBC ENERGY INC.

Schedule "A"

Parental Guarantee

(see attached)

THIS IRREVOCABLE GUARANTEE ("Guarantee") is made as of the 26th day of March, 2012.

IN FAVOUR OF:

FORTISBC ENERGY INC.

16705 Fraser Highway Surrey, British Columbia V4N 0E8

("FortisBC")

BY:

NORTH AMERICAN CONSTRUCTION MANAGEMENT INC.

Zone 3, Acheson Industrial Area 2-53016 - Highway 60 Acheson, Alberta T7X 5A7

("Guarantor")

WHEREAS:

- A. North American Pipeline Inc. ("Contractor") entered into an agreement with FortisBC, formerly known as Terasen Gas Inc., dated the 21st day of August, 2009, reference T091734RDM, as amended by agreement entitled Amendment No. 1 dated December 1, 2009 (such contract as amended referred to herein as "Contract"), pursuant to which the Contractor agreed to provide certain Work (as defined in the Contract) for FortisBC in connection with its Fraser River South Arm Crossing Upgrade Project ("Project"), all in accordance with the terms of the Contract.
- B. The Contractor contracted, by agreements as amended from time to time ("Subcontracts"), with subcontractors and suppliers (collectively "Subcontractors") to provide or perform certain portions of the Work, including with The Crossing Company Inc. ("TCC") and Direct Horizontal Drilling Inc. ("Direct").
- C. During performance of their Subcontracts, TCC and Direct (collectively "HDD Subcontractors") encountered certain incidents ("Incidents") that caused delays to the Contract and Project, caused among other things the requirement for installation and removal of a temporary cofferdam ("Cofferdam"), and caused FortisBC, the Contractor and the HDD Subcontractors to incur or suffer, among other things, expense, costs and damages, including internal costs and third party costs and liabilities, liens, claims, counterclaims and disputes between or among FortisBC, the Contractor and the HDD Subcontractors, including allegations and denials of allegations that differing and changed subsurface conditions were encountered by the HDD Subcontractors during their performance of their respective Subcontracts.
- D. The Contractor and FortisBC desire to amicably settle and compromise the differences and disputes that have arisen between them out of the Incidents, the Cofferdam, the Contract and the Project, all without resort to mediation, arbitration or litigation proceedings and on the terms and conditions set forth in the Final Settlement Agreement and Release dated the 26th day of March, 2012 ("Settlement Agreement"), to which the Guarantor is also a party.
- E. The Contractor is a wholly owned subsidiary of the Guarantor, and the Guarantor therefore has direct or indirect financial and other interests in having FortisBC and the

Contractor enter into the Settlement Agreement and the Contractor fully performing all its obligations under the Settlement Agreement.

- F. The Guarantor, as the parent or ultimate holding company of the Contractor, has agreed to guarantee the punctual performance by the Contractor of all of its obligations under both the Contract and the Settlement Agreement.
- G. It is a requirement of the Settlement Agreement that the Guarantor duly execute and deliver to FortisBC this Guarantee in a valid and enforceable form.

NOW THEREFORE in consideration of FortisBC entering into the Settlement Agreement with the Contractor, the payment of the sum of \$10.00 by FortisBC to the Guarantor the receipt of which is hereby acknowledged, the payment by FortisBC of the Settlement Funds (as defined in the Settlement Agreement) to the Contractor, and other good and valuable consideration the receipt and sufficiency of which is also fully acknowledged by the Guarantor, the Guarantor hereby warrants to and covenants and agrees with FortisBC as follows:

1. GUARANTEE

- 1.1 The Guarantor, in accordance with the terms and conditions herein, hereby unconditionally and irrevocably guarantees to FortisBC the full, complete and timely performance by the Contractor of all of the Contractor's covenants, representations, warranties, obligations and indemnities under the Settlement Agreement, as now or hereafter amended (collectively and individually all of the foregoing referred to herein as the "Guaranteed Obligations").
- 1.2 The Guarantor acknowledges receipt of a copy of the Contract and represents and confirms that the Guarantor is fully familiar with all terms and conditions of the Contract and the Settlement Agreement.
- 1.3 The Guarantor acknowledges that FortisBC, in entering into the Settlement Agreement, has relied upon the obligation of the Guarantor in the Settlement Agreement to execute and deliver this Guarantee so that it is valid and enforceable against the Guarantor.

2. RECOURSE

2.1 In addition to any and all other remedies available to FortisBC under or related to this Guarantee, if the Contractor at any time, or from time to time, defaults in the fulfilment of any one or more of the Guaranteed Obligations (individually and collectively each such default a "Contractor Default"), then so often as any Contractor Default occurs FortisBC may deliver notice of such default to the Guarantor with a demand that the Guarantor within five (5) calendar days remedy the Contractor Default and fulfill and satisfy the Guaranteed Obligation which is the subject of that Contractor Default, in which case the Guarantor within five (5) calendar days after receipt of such notice shall remedy the Contractor Default and fulfill and satisfy the Guaranteed Obligation for which notice of Contractor Default has been given, all without any requirement that FortisBC first proceed against the Contractor. Further, so often as any such Contractor Default and failure shall happen FortisBC shall have the right, in its discretion, to proceed in its name directly against the Guarantor for any and all remedies provided by law, equity or under the Settlement Agreement, whether by legal proceedings or otherwise, to have the Guarantor fulfil that and all other Guaranteed Obligations, and all of the remedies hereunder in favour of FortisBC shall be cumulative.

- 2.2 FortisBC shall not be bound to exercise or exhaust any recourse against the Contractor. the Contractor's property, any surety of the Contractor, or anyone else before being entitled to pursue the Guarantor for the fulfilment by the Guarantor of any and all of the Guaranteed Obligations. The Guarantor hereby irrevocably waives the right to require FortisBC to proceed against or exhaust its recourse against the Contractor, the Contractor's surety under any performance bond delivered under the Contract, or any other person liable on or in respect of the Guaranteed Obligations, to proceed against or exhaust any security held from the Contractor or any other person in respect of the Guaranteed Obligations or to pursue any other remedy in FortisBC's power whatsoever. FortisBC may, at its election, exercise or decline to exercise any right or remedy it may have against the Contractor or any security held by FortisBC in respect of the Guaranteed Obligations without affecting or impairing in any way the liability of the Guarantor hereunder, and the Guarantor hereby irrevocably waives any defence arising out of the absence, impairment or loss of any such security or right of reimbursement. contribution or subrogation or any other security, whether resulting from such election by FortisBC or otherwise.
- 2.3 Without limiting but in addition to the provisions of Sections 2.1 and 2.2, the Guarantor hereby irrevocably renounces all benefits of division and binds itself jointly and severally with the Contractor to fulfil and perform the Guaranteed Obligations in the manner and upon the terms and conditions set forth herein and in the Settlement Agreement. The Guarantor agrees that a separate action or separate actions may be brought by FortisBC against the Guarantor whether or not action is brought against the Contractor or any other person liable in respect of the Guaranteed Obligations, and whether or not the Contractor or such other person is or can be joined in any such action or actions.

3. NON-RELEASE OF LIABILITY

- 3.1 The obligations of the Guarantor under this Guarantee shall be primary, absolute, unconditional and irrevocable obligations of the Guarantor, and shall not be subject to any counterclaim, set-off, deduction, diminution, abatement, recoupment, suspension, deferment, reduction or defence based upon any claim the Guarantor may have against the Contractor. The Guarantor hereby expressly agrees that until all of the Guaranteed Obligations have been fully and completely performed it shall not be released or discharged from its obligations hereunder by any matter or thing whatsoever that would otherwise release or discharge a guarantor. To the fullest extent permitted by applicable law this Guarantee shall remain in full force and effect without regard to, and shall not be released, discharged or in any way affected by:
 - (a) any termination, amendment or modification of or deletion from or addition to or other change in the Settlement Agreement or any other instrument or agreement applicable to any of the parties to the Settlement Agreement;
 - (b) any voluntary or involuntary bankruptcy, insolvency, reorganization, arrangement, readjustment, assignment for the benefit of creditors, composition, receivership, conservatorship, custodianship, liquidation, marshalling of assets and liabilities or similar proceedings with respect to the Contractor, the Guarantor or any other person or any of their respective properties or creditors, or any action taken by any trustee or receiver or by any court in any such proceeding:

- (c) any merger or consolidation of the Contractor or Guarantor into or with any other corporation, or any sale, lease or transfer of any of the assets of the Contractor or Guarantor to any other person;
- (d) any change in the ownership of any interests in the Contractor by the Guarantor, or any change in the relationship between the Contractor and Guarantor, or any termination of such relationship;
- (e) the validity or unenforceability of any security, performance bond, third party guarantees, or other assurances intended to be granted or provided by the Contractor or any other party to FortisBC under the Contract or otherwise;
- (f) the failure of FortisBC or any other party to take, protect or preserve any rights, security or performance bond or similar assurance, from the Contractor or any other party in relation to the Contract or Settlement Agreement, or the loss, diminution or unenforceability or impossibility to realize or abstention from realization of any such right, security, performance bond or other assurance, whether or not caused or resulting from any act or omission of FortisBC or any person acting for FortisBC or for whom FortisBC may be responsible.
- 3.2 The Guarantor unconditionally waives, to the maximum extent permitted by applicable law.
 - (a) notice of any of the matters referred to in Sections 1, 2 and 3.1;
 - (b) any waivers by FortisBC of any provisions of the Contract or Settlement Agreement, including without limitation any granting of indulgences or extensions of time by FortisBC to the Contractor, including the making of any payment by FortisBC to the Contractor in advance of or in excess of the amounts to which the Contractor is otherwise entitled under the Contract or the Settlement Agreement, any failure by FortisBC to enforce any provision of the Contract or Settlement Agreement against the Contractor, and any other granting of extensions of time, renewals, indulgences, waivers, releases or discharges, or the making of any compromises or transactions or arrangements, by FortisBC in favour of the Contractor;
 - (c) notice to the Guarantor or the Contractor of any breach or default with respect to the Settlement Agreement or any other notice that may be required, by statute, rule of law or otherwise, to preserve any rights of FortisBC against the Guarantor or Contractor;
 - (d) any requirement of FortisBC to pursue or exhaust any remedies;
 - (e) any other circumstance whatsoever which might otherwise constitute a legal or equitable discharge, release or defence of a guarantor or surety or which might otherwise limit recourse by FortisBC against the Guarantor.
- 3.3 The Guarantor hereby unconditionally and irrevocably subordinates and postpones all the debts and liabilities, past, present and future, direct or indirect, at any time owing by the Contractor to the Guarantor to any and all claims by FortisBC against the Contractor with respect to or in connection with the Settlement Agreement and this Guarantee.

3.4 The obligations of the Guarantor set forth herein constitute the full recourse obligations of the Guarantor enforceable against it to the full extent of all its assets and properties.

4. NO MODIFICATION OR IMPAIRMENT

4.1 Neither the Guarantor's obligations under this Guarantee nor any right or remedy for the enforcement thereof shall be impaired, stayed, modified, changed or released in any manner whatsoever by any impairment, stay, modification, change, release or limitation of the Contractor or any other person or its estate in bankruptcy resulting from the operation or effect of any provision of the Bankruptcy and Insolvency Act (Canada), the Companies' Creditors Arrangement Act (Canada), the Winding-Up Act (Canada) or other statute, code or laws of any jurisdiction relating to debtor relief, or from the decision of any court or authority interpreting any of the same, and the Guarantor shall be obligated under this Guarantee as if no such impairment, stay, modification, change, release or limitation had occurred.

5. GUARANTOR MAY ASSERT DEFENCES AVAILABLE TO CONTRACTOR

- 5.1 The Guarantor's undertakings and obligations hereunder with respect to the Settlement Agreement are derivative of and not in excess of the Contractor's obligations under the Settlement Agreement, and the Guarantor retains all rights, claims, defences, and limitations of liability possessed by the Contractor under the terms of the Settlement Agreement or arising from the parties' performance or failure to perform thereunder, and shall be entitled to assert any contractual defences available to the Contractor under the Settlement Agreement. Provided, however, that the Guarantor shall not be entitled to assert or rely upon any defence the Contractor may have as a result of any bankruptcy or insolvency of the Contractor or any of the matters referred to in Section 3.1 or 4.1.
- 5.2 The Guarantor represents and warrants to FortisBC that the Guarantor has been fully informed by the Contractor as to the status of the performance of the Contract, of any and all amendments, changes, waivers and other matters related to the Contract, the status of completion and payments under the Contract, and all matters that could, if not disclosed to the Guarantor, provide the Guarantor with a defence against the enforcement by FortisBC of this Guarantee, and further represents and warrants that no amendments, waivers or changes to the Contract or any other facts or circumstances prior to the date hereof shall prejudice FortisBC's rights against the Guarantor under the Settlement Agreement or this Guarantee, and shall not be raised by the Guarantor as a release from or a defence to any claims by FortisBC against the Contractor or the Guarantor under the Contract, Settlement Agreement or this Guarantee.

6. GOVERNING LAW AND ATTORNMENT TO JURISDICTION OF THE COURTS OF BRITISH COLUMBIA

This Guarantee shall be governed by and construed in accordance with the laws of the Province of British Columbia, excluding any law or rule that would require the application of the law of another jurisdiction. The Guarantor agrees that any legal suit, action or proceeding arising out of or relating to this Guarantee shall at FortisBC's sole discretion be instituted in the Courts of British Columbia, and the Guarantor irrevocably and unconditionally accepts, attorns and submits to the jurisdiction of the Courts of British Columbia in relation to any disputes regarding this Guarantee, including but not limited to any actions to enforce this Guarantee.

7. BINDING EFFECT

- 7.1 The provisions of this Guarantee shall be binding upon the Guarantor and its successors and permitted assigns and shall enure to the benefit of FortisBC and its successors and assigns. The Guarantor shall not assign its obligations to FortisBC without first obtaining FortisBC's written agreement to such assignment, not to be unreasonably withheld.
- 7.2 In the event that any one or more provisions contained herein shall for any reason be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provisions hereof, and this Guarantee shall be construed as if such invalid, illegal or unenforceable provisions had never been contained herein.
- 7.3 The Guarantor represents and warrants that it is not aware of any laws applicable in the jurisdiction of its incorporation that would render this Guarantee invalid, illegal or unenforceable, including as a result of any failure to execute this Guarantee under seal or to comply with any statutory or other formalities required for the execution, delivery or enforcement of a Guarantee in the jurisdiction of its incorporation by a company of the obligations and liabilities of its subsidiary companies.

8. NOTICES AND DEMANDS

8.1 Any demand under this Guarantee shall be signed by an authorized representative of FortisBC. Any demand, notice or other communication shall be given in writing and shall be given by personal delivery, by registered mail, or by facsimile addressed as follows:

To the Guarantor:

NORTH AMERICAN CONSTRUCTION MANAGEMENT INC.

Zone 3, Acheson Industrial Area

2-53016 - Highway 60 Acheson, Alberta T7X 5A7 Facsimile: 780-960-7103

Attention: Rodney J. Ruston – President & CEO

To FortisBC:

FORTISBC ENERGY INC.

16705 Fraser Highway,

Surrey, British Columbia V4N 0E8

Facsimile: 604-592-7658

Attention: Mr. Art Kanzaki, P. Eng. - Project Director

Provided, however, that if a party is unable to deliver notice by facsimile to the designated facsimile number of the other party because the other party's facsimile machine is disconnected or otherwise unable to receive facsimiles, or if a party is unable to deliver notice to the designated address for delivery because the other party has moved or is otherwise no longer available to receive notices delivered to the designated address for delivery, then delivery of notice to the other party's designated address for delivery (addressed to the attention of the other party in accordance with the foregoing) shall be conclusively deemed to be delivery of such notice to that other party under this Guarantee.

9. COSTS OF ENFORCEMENT OF GUARANTEE

9.1 If there is a Contractor Default, the Guarantor shall be liable for and pay to FortisBC all costs, expenses (including reasonable legal fees) and damages incurred by FortisBC in enforcing the Contract and Settlement Agreement against the Contractor and in enforcing the Settlement Agreement and this Guarantee against the Guarantor. Further, if legal, arbitral or other proceedings are required by FortisBC to enforce this Guarantee, and if FortisBC is successful in such proceedings, the Guarantor covenants and agrees that it will promptly pay or reimburse FortisBC for all expenses, disbursements and costs (including legal costs and disbursement at actual cost to FortisBC) incurred by FortisBC in connection with such proceedings.

10. REPRESENTATIONS AND WARRANTIES OF GUARANTOR

- 10.1 The Guarantor hereby represents and warrants to FortisBC that:
 - (a) the Guarantor is a corporation duly incorporated, organized and subsisting under the applicable laws of the Province of Alberta;
 - (b) the Guarantor has good and sufficient power, authority and right to enter into and deliver this Guarantee and to perform its obligations hereunder; and
 - (c) this Guarantee constitutes a valid and legally binding obligation of the Guarantor, and is enforceable against the Guarantor in accordance with its terms.

11. ENTIRE AGREEMENT

11.1 This Guarantee constitutes the entire agreement of the Guarantor with FortisBC relating to the subject matter hereof and supersedes all prior contracts or agreements, whether oral or written. There are no representations, agreements, arrangements or undertakings, oral or written, between the Guarantor and FortisBC relating to the subject matter of this Guarantee which are not fully expressed herein.

12. AMENDMENT AND WAIVERS

12.1 No amendment to this Guarantee will be valid or binding unless set forth in writing and duly executed by each of FortisBC and the Guarantor. No waiver of any breach by the Guarantor of any provision of this Guarantee will be effective or binding unless made in writing and signed by FortisBC and, unless otherwise provided, will be limited to the specific breach waived.

13. ADDITIONAL SECURITY

This Guarantee is in addition to and not in substitution for any other undertakings, securities and guarantees held or which may be held by or for the benefit of FortisBC, including without limitation any performance bonds, letters of credit, financial holdbacks under the Contract, and guarantees from any other parties.

14. TIME OF ESSENCE

14.1 Time is of the essence with respect to the performance by the Guarantor of its obligations hereunder and the Guarantor shall promptly and with all due diligence perform its obligations under this Guarantee.

15. SUCCESSORS AND ASSIGNS

15.1 This Guarantee shall extend to and enure to the benefit of FortisBC and its successors and assigns. FortisBC may assign its interest herein to any permitted assign of the Contract and this Guarantee will enure to the benefit of such permitted assign. FortisBC shall give notice promptly to the Guarantor of any assignment in accordance with the foregoing. The Guarantor may not assign its obligations set forth herein.

16. SEVERABILITY

The invalidity or unenforceability of any portion or provision of this Guarantee shall in no way affect the validity or enforceability of any other portion or provision hereof. Any invalid or unenforceable portion or provision shall be deemed severed from this Guarantee and the balance of the Guarantee shall be construed and enforced as if the Guarantee did not contain such invalid or unenforceable portion or provision. If any such provision of this Guarantee is so declared invalid or unenforceable, the Guarantee shall automatically be deemed to be amended retroactively to include in substitution therefor a provision that is valid and enforceable that is consistent with the general intent of this Guarantee.

17. LEGAL ADVICE

17.1 The Guarantor hereby represents and confirms that it has obtained independent legal advice in respect of this Guarantee prior to the execution and delivery of this Guarantee to FortisBC.

18. EXECUTION BY AUTHORIZED REPRESENTATIVES

18.1 The Guarantor, and each person executing this Guarantee on behalf of the Guarantor, represents and warrants that this Guarantee is valid, binding on the Guarantor, and enforceable against the Guarantor in accordance with its terms.

IN WITNESS WHEREOF the Guarantor has caused this Guarantee to be executed and delivered in the name and on behalf of the Guarantor by its authorized representative as of this 26th day of March, 2012.

NORTH AMERICAN CONSTRUCTION MANAGEMENT INC.

by:		
Authorized Sig	nature	
Print Name:		Chris Yellowega Vice President, Construction
Title:	July .	
Authorized Sig	nature	
Print Name:		lackley, CA NCIAL OFFICER

Title:

FORM OF OFFICER'S CERTIFICATE TO ACCOMPANY PARENT GUARANTEE

I, the undersigned, hereby certify that I am the Vice-President of North American Construction Management Inc., a company organized and existing under the laws of the Province of Alberta (the "Company"). I further confirm and certify the following, as of the date hereof:

- 1. The Company has been incorporated and is existing as a limited liability company under the laws of the Province of Alberta.
- 2. The execution and delivery of the guarantee dated the 26th day of March, 2012 by the Company ("Parental Guarantee") does not violate the laws of the Province of Alberta or the Company's articles of incorporation.
- 3. The Company has taken all necessary corporate action to authorize its execution, delivery and performance of the Parental Guarantee.
- 4. The Parental Guarantee has been validly executed by the Company.
- 5. I am not aware of any reason why the Parental Guarantee as executed and delivered to FortisBC is not enforceable against the Company in accordance with its terms.

IN WITNESS WHEREOF, I hereby subscribe my name on behalf of the Company and myself effective as of the 26th day of March, 2012.

NORTH AMERICAN CONSTRUCTION MANAGEMENT INC.

By:

Name: Chris Yellowega

Title: Vice-President

Fraser River South Arm Crossing Upgrade Project April 30, 2012

Appendix 7

Draft Order



BRITISH COLUMBIA
UTILITIES COMMISSION

ORDER Number

> TELEPHONE: (604) 660-4700 BC TOLL FREE: 1-800-663-1385 FACSIMILE: (604) 660-1102

SIXTH FLOOR, 900 HOWE STREET, BOX 250
VANCOUVER, BC V6Z 2N3 CANADA
web site: http://www.bcuc.com

DRAFT ORDER

IN THE MATTER OF the Utilities Commission Act, R.S.B.C. 1996, Chapter 473

and

An Application by FortisBC Energy Inc.
For Approval of a negotiated Settlement Agreement in the
Fraser River South Arm Crossing Upgrade Project
between FortisBC Energy Inc. and North American Pipelines Inc.

BEFORE:

[April XX, 2012]

WHEREAS:

- A. On November 6, 2008, FortisBC Energy Inc. (FEI) (formerly Terasen Gas Inc.) applied (the Application) to the British Columbia Utilities Commission (the Commission), pursuant to section 45 of the Utilities Commission Act (the Act), for a Certificate of Public Convenience and Necessity (CPCN) for two horizontal directional drilled (HDD) natural gas transmission pipeline crossings of the South Arm of the Fraser River between Delta and Richmond near Tilbury Island (the Fraser River South Arm Crossing Upgrade Project or the Project);
- B. On March 12, 2009, the Commission granted a CPCN for the Project by Order No. C-2-09 subject to a number of conditions, which include requirements that FEI file a quarterly progress report within 30 days of the end of each reporting period and a final report within six months of the end or substantial completion of the Project;
- C. On April 30, 2012 FEI filed a Final Report (Report) for the Fraser River South Arm Crossing Upgrade Project in compliance with Order No. C-2-09, reporting that during the fourth quarter of 2011, the prime contractor for the Project North American Pipelines Inc. (North American) substantially completed field construction of both pipeline crossings which were placed into service on October 22, 2011 (NPS 20) and on December 3, 2011 (NPS 24). North American cleaned up the site and de-mobilized on December 12, 2011;
- D. The Report also reports that FEI and North America have reached a Settlement Agreement relating to disputes arising from the construction and installation of the HDD, which include provisions releasing FEI

BRITISH COLUMBIA UTILITIES COMMISSION

ORDER Number

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from any further claims from North American and North American indemnifying FEI from any claims by third parties, a guarantee of North American's obligations secured from North American's parent company, and a condition precedent that the Settlement Agreement be approved by the Commission, in exchange for a specific settlement amount;

- E. The Final Report further reports that the final Project cost is \$34 million inclusive of the settlement amount;
- F. FEI requests Commission approval of the Settlement Agreement between FEI and North American and specifically of an amount of \$34 million to be included in FEI's rate base;
- G. The Commission has reviewed the Final Report and the Settlement Agreement and determines that the Settlement Agreement should be approved and \$34 million should be included in rate base.

NOW THEREFORE pursuant to Sections 59 to 61 of the Utilities Commission Act, the Commission orders as follows:

- 1. The Settlement Agreement is approved.
- 2. The \$34 million is included in rate base pursuant to the financial schedules filed in accordance with Item 15 of Commission Order No. G-44-12.
- 3. The Commission agrees to keep the Settlement Agreement and the Final Report confidential.

DATED at the City of Vancouver, In the Province of British Columbia, this day of <MONTH>, 2012.

BY ORDER