

ENVIRONMENTAL ASSESSMENT ACT
REGISTRATION OF AN UNDERTAKING

PREPARED BY: TOWN OF BAIE VERTE

DATE: FEBRUARY 9, 2011

NAME OF UNDERTAKING: Water System, Phases 3 & 4

PROPONENT:

- (I) Name of Corporate Body: Town of Baie Verte
- (ii) Address: P O Box 218
Baie Verte, NL A0K 1B0
- (iii) Chief Executive Officer:
Name: Ms. Angela Furey
Official Title: Town Clerk
Address: P O Box 218, Baie Verte, NL A0K 1B0
Telephone No.: (709) 532-8222
- (iv) Principal Contact Person for purposes of environmental assessment:
Name: Michael C. Gorman
Official Title: P. Eng. - Atlantic Engineering Consultants Ltd.
Address: 34 Main Street, Corner Brook, NL A2H 1C3
Telephone No.: (709) 634-3612

THE UNDERTAKING:

- (I) Nature of Undertaking: Construction of 7.5 km of 300 mm water transmission main and intake in Southern Arm Pond.
- (ii) Purpose/Rationale/Need for the Undertaking: This project will eliminate existing pumping facilities and provide the Town with a totally gravity fed water system. Dependence on electricity for domestic and fire fighting will be eliminated.
- The construction of this system will reduce the potential of giardia lamblia cysts in the potable water supply.
- Furthermore, the quality of source water will be improved by eliminating silt etc found in the existing intake located in Baie Verte Brook resulting in a more efficient water treatment system.

DESCRIPTION OF THE UNDERTAKING:

- (I) Geographic Location: The site of the proposed undertaking is west of Route 410 and South of Route 412. (See maps 1 and 2). No other suitable locations were identified.
- (ii) Physical Features: The undertaking consists of three components, the first of which is the installation of 7.5 km of 300 mm \varnothing HDPE water pipe from the existing treatment plant to Southern Arm Pond at the point where Southern Arm Brook exits. The treatment plant is at elevation 27.4m while the pond level is at elevation 125.65. The pipe will be buried 1.8 m. the pipeline will cross under Southern Arm Brook at the 5850 m mark in accordance with DFO Guidelines.
- The second element of the project is the installation of intake screen in Southern Arm Pond. The screens have been designed in accordance with DFO Guidelines and will be floated in place to reduce any potential environmental disturbances.
- The third element of the project is the connection of the new water transmission main to the piping in the existing water treatment plant. We do not anticipate any environmental impact from this activity.
- The area affected by the project is in the Southern Arm Brook and Baie Verte Brook valleys. The area is relatively level and heavily wooded with intermittent marsh areas. The area has been logged for lumber, pulpwood, and fire wood for a significant period of time.
- (iii) Construction: Construction is anticipated to take approximately 6 months. Start-up date will be contingent on approvals. Main construction element will be trenching and backfilling using excavators. The only potential pollutants would be from equipment operations and some very small and localized siltation. Silt control measures will be instigated.
- (iv) Operation: When construction is completed, operation of the pipeline and intake will have no tangible effect upon the environment with the possible exception of a waterline break. Alarms will be built into the system to notify staff of such occurrences.

(v) Occupations: The construction phase of this project will involve heavy equipment operators, pipefitters, laborers and divers as well as engineers and technicians.

Upon completion of the project, the occupations involved in its operation will be the municipal employees.

(vi) Project Related Documents: Documents related to the project include the project estimate submitted by the Town of Baie Verte as well as project design drawings and specifications.

APPROVAL OF THE UNDERTAKING:

Licenses, permits, approvals and authorizations will be required from:

Town of Baie Verte
Crown Lands
Newfoundland & Labrador Department of Environment and Labor
Newfoundland & Labrador Department Water Resources Division
DFO Navigable Waters
Environment Canada
Provincial Archeology

SCHEDULE:

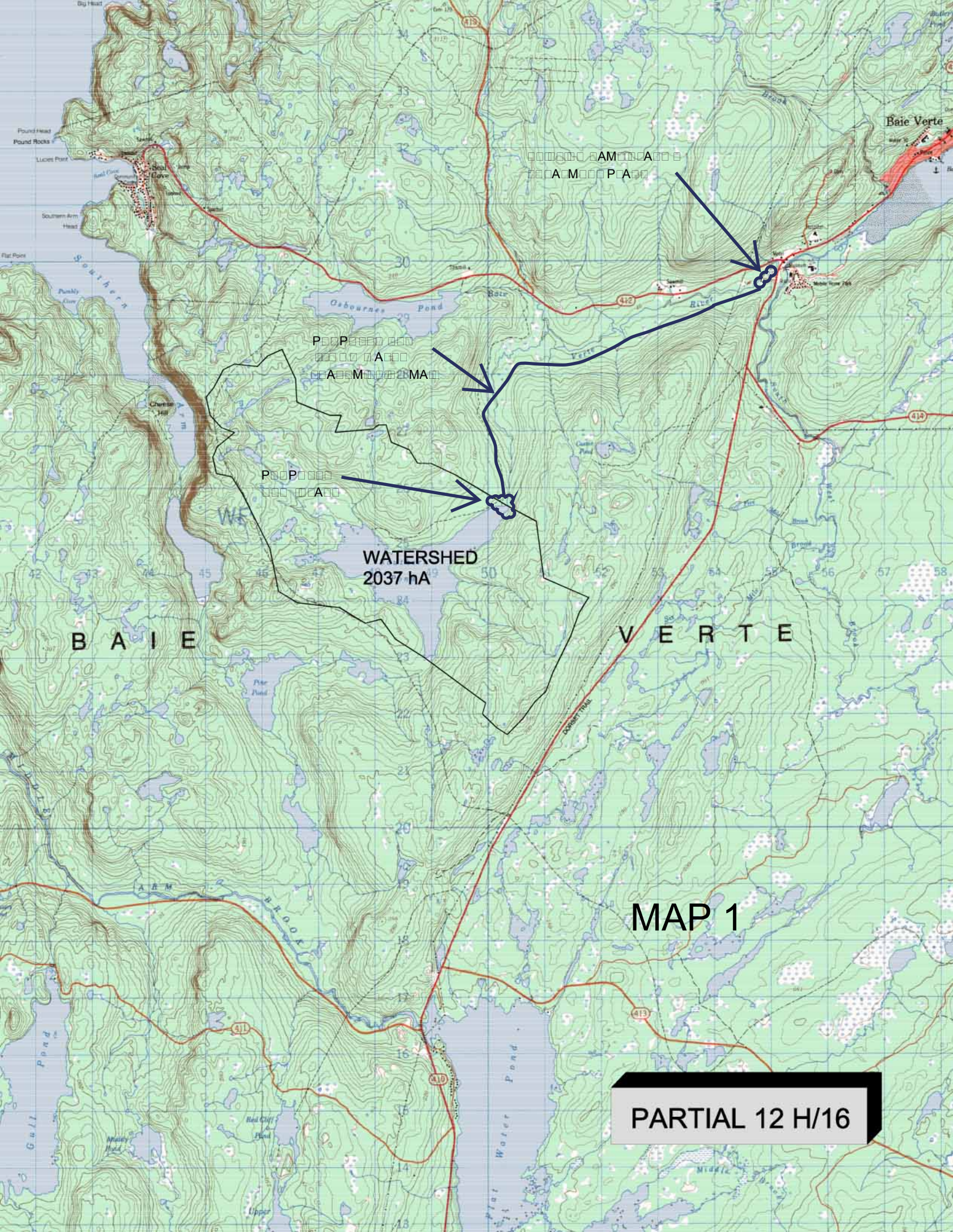
The project is anticipated to commence (subject to all approvals) by June 1, 2011 and be completed by November 30, 2011. This is the optimum construction time for this type of construction and takes advantage of the best weather, and longest work days, and hence efficiency. This will hopefully be reflected in the best competitive bid cost.

FUNDING:

Funding for this project has been approved by the Province by Engineering Design Initiatives No. 10033 (\$1,363,000 Phase 3) and No. 09005 (\$1,209,671 Phase 4). The estimated cost of the undertaking is \$2,677,132.56.

March 9, 2011
Date

Angela Jurey
Signature of Chief Executive
Officer



WATERSHED
2037 ha

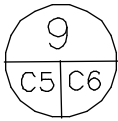
B A I E

V E R T E

MAP 1

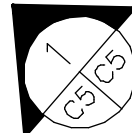
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PROPOSED NEW WATER INTAKE



PROPOSED WATERLINE

SOUTHERN



GRID N/
MAD

SOUTHERN ARM POND

MAP 2

