Environmental Assessment - Addendum

Glengarry Regional Water Supply

Prepared for

Township of North Glengarry

April 2013

CH2MHILL®
1101 Prince of Wales Drive, Suite 330
Ottawa, ON
K2C 3W7

and

J.L.Richards
ENGINEERS · ARCHITECTS · PLANNERS

TOWNSHIP OF NORTH GLENGARRY
GLENGARRY REGIONAL WATER SUPPLY PROJECT
CLASS ENVIRONMENTAL ASSESSMENT ADDENDUM
NOTICE OF COMPLETION

In 2010, the Township of North Glengarry undertook a Schedule C Municipal Class Environmental Assessment (EA) for the Maxville and Regional Water Supply documented in the Environmental Study Report (ESR). The ESR identified and evaluated alternatives for providing a sustainable, long-term water supply to the Villages of Maxville and Alexandria, with the option to add other communities in the future. The identified preferred alternative was a Glengarry Regional Water Supply (GRWS) system fed from the City of Cornwall's water system.

During the preliminary design work of the GRWS system, the project team identified necessary updates to the original EA to improve the overall project relative to the project scope outlined in the original Class EA. As well, some system components required site selection, which had not been finalized in the Class EA.

This Class EA Addendum identifies the preferred alternatives sites for the Martintown Booster Pumping Station, the Maxville Water Storage Tank and the proposed final routing of the water transmission main between Cornwall and Martintown. The preferred site for the Martintown booster pumping station is to the south of the Community Centre/Fire Station. The preferred location of the water storage tank is near the south-east intersection of Main Street and County Road 22 in Maxville. The preferred water transmission main route ties-into the Cornwall distribution system at McConnell-Tollgate and is routed to Martintown via Tollgate Road East, across Highway 401, Service Road, Boundary Road, Glen Road, Cashion Road, County Road 19 and Nine Mile Road.

Any significant changes to a project that occur after completion of the ESR require an addendum to the ESR. The addendum must document the reasons for the changes, the potential impacts, and mitigation measures to minimize the impacts. The public and review agencies involved in the ESR process must also be consulted during the addendum process to provide input.

The Addendum has now been completed, and this notice places it on public record for review. Subject to comments received as a result of this notice and receipt of necessary approvals, the Township of North Glengarry intends to implement the changes outlined in the Addendum.

The Addendum is available for review at:

- Williamstown Branch (SD&G County Library), 19692 William St, Williamstown, telephone: 613-347-3397
- Cornwall Public Library, 45 Second St. East, Cornwall, telephone: 613-932-4796
- North Glengarry Township Town Hall, 90 Main Street, Alexandria, telephone: 613-525-1110

The Addendum is also posted to the Township of North Glengarry's website at:
http://www.northglengarry.ca/en/communityinformation/regionalwater.asp.

Interested parties should provide written comments to André Bourque, Consultant Project Manager, CH2M HILL, within 30 days calendar days of the date of this notice.

If concerns arise regarding this project that cannot be resolved in discussions with the Township, a person/party may request the Minister of the Environment to make an order for the project to comply with Part II of the Environmental Assessment Act (referred to as a "Part II Order"), which addresses individual environmental assessments. The Minister must receive requests for Part II Order, at the address below, by May 18, 2013. A copy of the Part II Order request must also be sent to Daniel Gagnon of the Township of North Glengarry. If there are no Part II Order requests received, the project will proceed as presented in the Addendum.

The Honourable Jim Bradley
Minister of the Environment
77 Wellesley Street West, 11th Floor, Ferguson Block
Toronto, Ontario, M7A 2T5

This Notice was issued on April 17, 2013

For further information, please contact one of the following:

Mr. Daniel Gagnon, Chief Administrative Officer
Township of North Glengarry
90 Main Street
Alexandria, Ontario K0C 1A0
Telephone: 613-525-1110 x229
Fax: 613-525-6149
e-mail: danielgagnon@northglengarry.ca

Mr. André Bourque, Consultant Project Manager
CH2M HILL
330-1101 Prince of Wales Drive
Ottawa, Ontario K2C 3W7
Telephone: 613-723-0233 x73106
Fax: 613-723-7489
e-mail: abourque@ch2m.com

Contents

Tables

Photos

SECTION 1

Introduction

1.1 Background

The Township of North Glengarry undertook a Schedule C Municipal Class Environmental Assessment (EA) to identify and evaluate alternatives for providing a sustainable, long-term water supply to the Villages of Maxville and Alexandria, with the option to add other communities in the future. The Class EA was completed in 2010 and documented in an Environmental Study Report (ESR) (Thompson Rosemount Group, 2010). The Class EA considered a wide variety of alternative solutions, including a communal groundwater system in Maxville, connection to the St. Isidore water system, and connection to the Cornwall water system. The selected alternative was a Glengarry Regional Water Supply (GRWS) system fed from the City of Cornwall's water system (i.e. supplied by the St. Lawrence River with treatment at the existing Cornwall Water Purification Plant).

The team of CH2M HILL and J.L. Richards was retained in the spring of 2012 to complete the preliminary and detailed design of the regional water supply system based on the preferred alternative identified through the Class EA process. During the preliminary design work, the project team identified that some updates would be necessary to the original EA.

To date, the following work has been completed as an addendum to the 2010 EA, for the design of the Glengarry Regional Water Supply project:

- Development of the design basis for the project
- Updating of the population and water projections from the ESR
- Identification and evaluation of alternative connection points to the Cornwall water distribution system and water transmission main routes (between Cornwall and Martintown)
- Development of a "streamlined" approach to the regional water supply system by eliminating the need to "double pump" (described in further detail in Section 1.3)
- Identification and evaluation of potential sites for the flow metering station, Martintown Booster Pumping Station (BPS), and Maxville Water Storage Tank (WST)
- Preparation of a Preliminary Design Report (PDR)
- Consultation at a public meeting held on November 27, 2012 in Maxville to present the technically preferred alternatives

1.2 Objectives

The objective of the project is to provide a long-term water supply to the Villages of Maxville and Alexandria (Phase 1) with provisions for servicing additional communities such as Martintown, Dominionville, Apple Hill, Glendale Subdivision, and Green Valley in the future (Phase 2).

The objective of this EA Addendum is to provide background and rationale for changes to the original Class EA, and to document them for public and review agency review. This report will serve as the *Class EA Addendum* for the selection of the sites for the Martintown Booster Pumping Station, the Maxville Water Storage Tank, the flow metering station and the proposed final routing of the water transmission main between Cornwall and Martintown, including a summary of the natural environment and archaeological assessments completed.

1.3 Project Scope

The proposed overall project scope for the Glengarry Regional Water Supply system includes the following elements:

- Connection to the City of Cornwall's water distribution system
- Water transmission main from Cornwall to Martintown
- Booster pumping station in Martintown, including standby power
- Transmission mains between Martintown and Maxville following Route 20, and to Alexandria along Route 43
- New elevated water storage tank and water distribution system in Maxville
- Connection to the existing water distribution system in Alexandria, which includes an existing elevated water storage tank
- Instrumentation and controls to provide automated operation and integration with the current North Glengarry SCADA system
- Provisions for future expansion of the Regional Water Supply system to service additional communities such as Martintown, Dominionville, Apple Hill, Glendale Subdivision, and Green Valley

Figure 1-1 in Appendix A is a map showing the overview of the preferred transmission main routing. The figure also shows candidate sites for the Martintown Booster Pumping Station and Maxville elevated water storage tank. These sites are discussed further in Sections 2 and 3. The three routing alternatives that were evaluated for this EA Addendum are shown in Figure 4-1 in Appendix A.

With respect to potentially servicing connections along the transmission main or additional communities (other than Maxville and Alexandria), the Ministry of the Environment has noted that the 2005 Provincial Policy Statement states that partial services (e.g. municipal water in the absence of municipal sewers) shall only be permitted where they are necessary to address failed individual on-site services and within settlement areas (Section 1.6.4.5). Settlement areas shall be the focus of growth (Section 1.1.3.1). Planning authorities shall establish and implement phasing policies to ensure the orderly progression of development within designated growth areas (Section 1.1.3.8). The MOE recommends that areas serviced with municipal water services also be serviced with municipal sewage services. Where new development, or servicing of existing development, is proposed on partial services, the MOE recommend that the EA documentation demonstrate that there are problems with on-site services and that development is within a settlement boundary.

The current project does not include servicing of the communities other than Maxville and Alexandria and does not include connections along the transmission main. These would be future considerations once the Regional Water Supply system is in operation. The necessary studies, investigations, public and agency consultation, approvals, and planning requirements (e.g. Official Plan) will be undertaken before additional connections to the Regional Water Supply system are made in the future.

1.4 Need for EA Addendum

During the initial stages of Preliminary Design for this project, changes were identified that could improve the overall project relative to the project scope outlined in the original Class EA. Also, there were some system components of the water system that required site selection that were not finalized in the Class EA. These changes and requirements are outlined in the following sections.

This Addendum will serve to update the previously completed Class EA, and will be available for public and review agency review and advertisement per the Municipal Class EA process.

1.5 Class EA Addendum Process

An addendum to a Municipal Class EA is required if a significant amount of time has passed between the completion of the EA and the implementation of the project, if changes to the proposed project are made after the completion of the EA, or if significant changes to the environment occur prior to project implementation. The proponent is required to consult with the public and stakeholders regarding the changes addressed by the EA

Addendum, and file a notice of Addendum and an Addendum Report for a 30-day public review and comment period prior to commencing project implementation. During this time, only the matters addressed by the Addendum are open for public review. If concerns arise regarding the material addressed by the Addendum should arise during public consultations or during the 30-day public review, these concerns should be brought to the attention of the proponent prior to the close of the 30-day review period. If the concern is not resolved through discussion with the proponent, a person/party may submit a written request to the Minister of the Environment to make an order for the portion of the project that is the subject of the addendum to comply with Part II of the Environmental Assessment Act (referred to as a "Part II Order"), which addresses individual environmental assessments. Submissions must be received within the 30-day review period with a copy forwarded to the proponent.

Requests for Part II Orders should address the following issues:

- Environmental impacts of the project and their significance
- The adequacy of the planning process
- The availability of other alternatives to the project
- The adequacy of the public consultation program and the opportunities for public participation
- The involvement of the person/party in the planning of the project
- The nature of the specific concerns which remain unresolved
- Details of any discussions held between the person/party and the proponent
- The benefits of requiring the proponent to undertake an individual environmental assessment
- Any other important matters considered relevant

In considering a request for Part II Orders, the Minister shall give consideration to the following issues:

- Extent and nature of public concern
- Potential for significant adverse environmental effects
- Need for broader consideration of alternatives by the proponent
- Considerations of urgency
- Participation of the requester in the planning process
- Nature of the request
- Degree to which public consultation and dispute resolution have taken place

Should a concern of a Part II Order request be resolved by a proponent to the satisfaction of the requester, it is the responsibility of the requester to withdraw the request. Withdrawals should be in writing to the Minister with a copy forwarded to the proponent.

1.6 Archeological and Natural Environment Assessments

As part of this EA Addendum, archaeological and natural environment assessments were carried out. These involved both desktop reviews and site visits.

The archaeological assessment was carried out by Past Recovery and included four study areas: potential tank sites in Maxville, potential booster pumping station sites in Martintown, alternative transmission main crossing routes in Martintown, transmission main route along the unopened portion of the Cashion Road right-of-way, and a watermain route option along Tollgate Road and Service Road.

Niblett Environmental Associates Inc. carried out the natural environmental review. Their review included: water storage tank sites in Maxville, water booster pumping station sites in Martintown, and transmission main routes.

The following reports prepared by Past Recovery and Niblett Environmental Associates are available for review at the Township of North Glengarry Town Hall (90 Main Street South, Alexandria, ON) and on the Township's website at http://www.northglengarry.ca/en/communityinformation/regionalwater.asp

- "Natural Environment Existing Conditions Data Report" prepared by Niblett Environmental Associates
- "Natural Environment Existing Conditions Report Preferred Alignment" prepared by Niblett Environmental Associates
- "Stage 1 Archaeological Assessment" prepared by Past Recovery
- "Stage 2 Archaeological Assessment" prepared by Past Recovery

The applicable findings from these assessments have been noted in the individual evaluation sections.

SECTION 2

Booster Pumping Station

2.1 Background

The Class EA proposed that the Martintown Booster Pump Station (BPS) would convey water to Maxville and Alexandria, where BPSs in those two villages would then boost the water pressure to fill the two elevated storage tanks. In that scenario, the water would be pumped twice to get from Cornwall to the proposed water storage tank in each village (Maxville and Alexandria), resulting in the need for three separate booster stations.

Under the Class EA scenario, booster pumping in Alexandria would be achieved by converting the Alexandria Water Treatment Plan (WTP) to a BPS, and a new BPS would be built in Maxville. Disinfection would be provided at the Maxville BPS and Alexandria WTP. Under that scenario, disinfection would not be required at the Martintown BPS since residences along the transmission main would not be serviced.

The proposed revised concept involves:

- Provide only one BPS in total, in Martintown, thus eliminating the need for the BPS in Maxville and the need to convert the Alexandria WTP into a BPS
- Replace the disinfection that was to be provided at the Maxville BPS and Alexandria WTP with a single disinfection application point at the Martintown BPS

With this revised concept, water would be pumped directly from the Martintown BPS into the elevated water storage tanks in Maxville and Alexandria, without the need for downstream pumping or chlorine boosting. This configuration also makes it technically feasible to connect residences along the transmission main route.

The site of the Martintown BPS was not selected in the original Class EA. The ESR notes that “the site for the booster station has not been selected which will be an activity to be completed during the preliminary design stage. The site of the Martintown Community Centre and Fire Station may be a suitable site.” Site alternatives for the Martintown BPS are presented in this Addendum.

2.2 Alternatives

The following alternatives for provision of booster pumping were evaluated for this project:

- Alternative A – Original plan per the Class EA – to provide three BPSs: one in Martintown, one in Maxville, and one in Alexandria. Both Maxville and Alexandria would require chlorination for disinfection before distribution to the villages from the storage tanks.
- Alternative B – Proposed concept per this EA Addendum – provide only one BPS at Martintown, with direct feed into a new storage tank in Maxville and into the existing storage tank in Alexandria. The need for booster chlorination in Maxville and Alexandria will be further investigated during detailed design of this option but is not expected to be required at this stage.

For the specific location of a BPS within Martintown, there are two alternatives (see Figure 2-1, Appendix A):

- Site A – At the former community centre site, on the west side of Nine Mile Road, north of Kings Road
- Site B – At the former fire hall site, just south of the new fire hall and community centre, along North Branch Road (County Road 20)

The BPS footprint is anticipated to be approximately 15 m by 18 m. Architectural details will be confirmed during detailed design; however, preliminary design suggests that the exterior will be pre-formed metal siding and stone veneer. The design intent is to select materials that complement existing structures in the vicinity and minimize maintenance requirements.

2.3 Evaluation

Table 2-1 outlines the evaluation of Alternative A and Alternative B for their relative advantages and disadvantages.

TABLE 2-1
Evaluation of Alternatives for Final Booster Pump Station Requirements

	Advantages/Disadvantages	
Criteria	**Alternative A – Class EA Option with Three BPSs**	**Alternative B – Proposed Single BPS**
Technical	More complex operation – three BPSs and two chlorination systems	Simpler operation – one BPS and one chlorination system
	Complex automation and controls	Simpler automation and controls
Social Environment	Requires siting BPSs in Maxville, Martintown and Alexandria (higher land requirement)	No BPS (or standby power generator) required in Maxville or Alexandria
	More construction disruption and potential noise during operation	
Natural Environment	Higher impact to environment due to construction of additional BPS	Lower impact to natural environment dues to smaller number of BPSs
	More noise and emissions from standby power generators (required at each BPS)	
Economic	Higher capital and O&M costs	Lower capital and O&M costs

Table 2-2 outlines the evaluation of Site A and Site B to determine the location in Martintown for a BPS.

TABLE 2-2
Evaluation of Alternatives for Booster Pumping Station Location in Martintown

	Advantages/Disadvantages	
Criteria	**Site A – Old Community Centre Site west of Nine Mile Road**	**Site B – Near Existing Fire Hall and Community Centre on North Branch Road (County Road 20)**
Technical	Will need a separate septic system for process waste and sanitary waste from washroom	Likely could utilize existing septic system at the site
	Crossing of the Raisin River would be downstream of the pumping station therefore would be high pressure (i.e. 150 psi)	Crossing of the Raisin River would be upstream of the pumping station therefore would be low pressure (i.e. 50 psi)
	Location is slightly more remote, may require greater security to protect against vandalism	600 V power is readily available
	Need to extend 600 V power to site	
Social Environment	Both sites are municipally owned, therefore land acquisition would not be required	Both sites are municipally owned, therefore land acquisition would not be required
	No archaeological potential was found at either site	No archaeological potential was found at either site
		May be some restrictions on use of property but not anticipated to be a significant issue
Natural Environment	Both sites have been previously disturbed, therefore, no specific natural environmental features such as endangered or threatened species were found or archaeological potential	Both sites have been previously disturbed, therefore, no specific natural environmental features such as endangered or threatened species were found or archaeological potential

TABLE 2-2
Evaluation of Alternatives for Booster Pumping Station Location in Martintown

	Advantages/Disadvantages	
Criteria	**Site A – Old Community Centre Site west of Nine Mile Road**	**Site B – Near Existing Fire Hall and Community Centre on North Branch Road (County Road 20)**
Economic	Higher construction and O&M cost due to need for new septic system, security, and extension of 600 V power supply	Construction and long term O&M costs will be slightly lower due to availability of a septic system (if feasible for connection, to be determine during detailed design) and availability of 600 V power supply

2.4 Recommendations

Alternative B, the design and construction of a single booster pumping station, is recommended to be implemented for the advantages noted in Table 2-1. This option allows for a more economic design, requiring only construction in the short term and operation and maintenance in the long term of a single pumping facility versus three separate facilities. This option will result in a lower overall social and natural environmental impact simply due to the lower number of facilities and, therefore, fewer disturbances during construction and operations to nearby residents and the land.

Further, it is recommended to select Site B for the pump station construction in Martintown, per the advantages noted in Table 2-2. These advantages include proximity to existing municipal services such as a septic system and 600 V power.

SECTION 3

Water Storage Tank in Maxville

3.1 Background

In Maxville, a new elevated water storage tank is proposed and, in Alexandria, the existing tank will be used, per Section 1.3 and the original Class EA.

This EA Addendum includes the final site selection for the Maxville tank. The Class EA identified two potential sites for the water storage tank. One of the proposed sites, Alternative A in the Class EA, has since been eliminated as construction of a veterinary office was completed at the location.

The remaining potential site from the Class EA is supplemented with three new sites, in this EA Addendum, as described in this section.

The elevated water storage tank will be similar in design and appearance to the one in Alexandria, as shown in Photo 3-1, below. It will have a concrete pedestal with a welded steel bowl. Depending on the ground elevation of the different sites noted in the section below, the overall tank height will be between 40 and 50 m.

Photo 3-1 Alexandria Elevated Water Storage Tank

3.2 Alternatives

There are four possible tank site locations in Maxville:

- Site A – At the fairgrounds. This tank location is at the fairgrounds site, which is owned by the Township of North Glengarry. The ground elevation of the tank site would be approximately 102 m, and is on previously disturbed property as it is used for parking, etc. during events.
- Site B – At the termination of Joseph Street, south of Catherine Street. This property is privately owned; however, it is assumed that the site could be available for locating the tank based on preliminary discussion with the property owner. The site is currently cleared and has been used recently for agricultural purposes. An extension of Joseph Street, along with an access driveway to the tank would be required. The ground elevation of the tank site would be approximately 108 m.
- Site C – East of Main Street, south of County Road 22. This property is privately owned; however, it is assumed that the site could be available for locating the tank based on preliminary discussion with the

property owner. The site is currently cleared and has been used recently for agricultural purposes. An access driveway to the tank would be required. The ground elevation of the tank site would be approximately 114 m.

- Site D – West of Main Street, north of County Road 22. This property is privately owned; however, it is assumed that the site could be available for locating the tank based on preliminary discussion with the property owner. The site is currently cleared and has been used recently for agricultural purposes. An access driveway to the tank would be required. The ground elevation of the tank site would be approximately 112 m.

The tank site locations are shown on Figure 3-1 in Appendix A.

3.3 Evaluation

Table 3-1 outlines the evaluation of the four locations in Maxville for the proposed elevated water storage tank.

TABLE 3-1
Evaluation of Alternatives for Water Storage Tank in Maxville

	Advantages/Disadvantages			
Criteria	**Site A – Fairgrounds**	**Site B – Off Joseph Street**	**Site C – East of Main Street, South of County Road 22**	**Site D – East of Main Street, North of County Road 22**
Technical	Site has lowest ground elevation, therefore is least preferred for tank height Site A and B would both require "backtracking" of watermain from the tank, to upstream residences as they are located within the village, and would require feeding of water into the tank first, before re-distribution to residences upstream. This may also require more complicated control valves Would require 4 or 5 pressure control valves throughout the distribution system to regulate pressures between pressure zones	Site has third highest ground elevation, therefore, is less preferred for tank height Site A and B would both require "backtracking" of watermain from the tank, to upstream residences as they are located within the village, and would require feeding of water into the tank first, before re-distribution to residences upstream. This may also require more complicated control valves Would only require 2 pressure control valves throughout the distribution system to regulate pressures between pressure zones	Site has highest ground elevation, therefore, is preferred for tank height Sites C and D are preferred with respect to water "age" and chlorine boosting because they are located on the upstream side of the village, and could have single feed in/feed out of the tank prior to distribution to the residences Would only require 2 pressure control valves throughout the distribution system to regulate pressures between pressure zones	Site has second highest ground elevation, therefore, is well suited but not most preferred for tank height Sites C and D are preferred with respect to water "age" and chlorine boosting because they are located on the upstream side of the village, and could have single feed in/feed out of the tank prior to distribution to the residences Would only require 2 pressure control valves throughout the distribution system to regulate pressures between pressure zones
Social Environment	Site is municipally owned, therefore land acquisition would not be required No archaeological potential was found at any site	Site is not municipally owned, therefore, land acquisition would be required – preliminary discussion indicate acquisition is possible No archaeological potential was found at any site	Site is not municipally owned, therefore, land acquisition would be required – preliminary discussion indicate acquisition is possible No archaeological potential was found at any site	Site is not municipally owned, therefore, land acquisition would be required – preliminary discussion indicate acquisition is possible No archaeological potential was found at any site
Natural Environment	This site has been previously disturbed and undergoes regular use,	This site has been previously disturbed for agricultural use, therefore,	This site has been previously disturbed for agricultural use, therefore,	This site has been previously disturbed for agricultural use, therefore,

TABLE 3-1
Evaluation of Alternatives for Water Storage Tank in Maxville

	Advantages/Disadvantages			
Criteria	**Site A – Fairgrounds**	**Site B – Off Joseph Street**	**Site C – East of Main Street, South of County Road 22**	**Site D – East of Main Street, North of County Road 22**
	therefore, no specific natural environmental features such as endangered or threatened species were found and are not expected to be impacted The Stage 2 archaeological investigations did not reveal any archaeological resources at the site	no specific natural environmental features such as endangered or threatened species were found and are not expected to be impacted The Stage 2 archaeological investigations did not reveal any archaeological resources at the site	no specific natural environmental features such as endangered or threatened species were found and are not expected to be impacted The natural environment assessment identified the potential for habitat for Bobolink and Eastern meadowlark The Stage 2 archaeological investigations did not reveal any archaeological resources at the site	no specific natural environmental features such as endangered or threatened species were found and are not expected to be impacted The natural environment assessment identified the potential for habitat for Bobolink and Eastern meadowlark The Stage 2 archaeological investigations did not reveal any archaeological resources at the site
Economic	Likely to be the highest cost (depending on the cost to purchase land for other sites)	Likely moderate cost (depending on the cost to purchase land for other sites)	Likely to be the lowest cost (depending on the cost to purchase land for other sites)	Likely moderate cost (depending on the cost to purchase land for other sites)

3.4 Recommendation

It is recommended that Site C (near south-east intersection of Main Street and County Road 22) be selected for the water storage tank in Maxville, based on the technical advantages of higher elevation at the site, lower number of pressure control valves, and preferred location for water distribution piping on the upstream edge of the village. There are no major differences with respect to other criteria that significantly affect the outcome of the evaluation. Based on preliminary geotechnical investigations, the soil conditions at the site are favorable for supporting the tank foundation.

As noted in Table 3-1, the natural environment assessment identified the potential for habitat for Bobolink and Eastern meadowlark for Site C based on the presence of hayfield. Although the potential for habitat does not necessarily mean the presence of habitat, the next steps and mitigation measures recommended by Niblett Environmental Associates were:

1. The presence or absence of Eastern meadowlark and Bobolink habitat on this site should be confirmed through breeding season site visits, conducted by a bird biologist.
2. If habitat is present, a discussion with Ministry of Natural Resources should be completed regarding a possible permit for habitat removal/alteration as outlined under the Ontario Endangered Species Act.
3. It is recommended that any clearing of the vegetation be completed outside of the peak breeding bird window (May 1-July 31)

In summary, the potential bird habitat concern is felt to be manageable and the potential impacts can be mitigated.

SECTION 4

Water Transmission Main Cornwall Tie-in and Routing to Martintown

4.1 Background

In a letter to the Townships of North and South Glengarry dated July 24, 2009, that was prepared during the Class EA, the City of Cornwall identified watermain extensions within the City and points where the transmission main could connect to the Cornwall water distribution system. These connection points and pipe routing formed the basis for the Class EA.

Two alternatives to convey water from Cornwall to Martintiown, in addition to the routing selected in the Class EA, were identified and evaluated as part of this EA Addendum. These were identified in an attempt to reduce capital cost, facilitate future servicing of the Glendale Subdivision, and facilitate servicing the future City of Cornwall industrial park.

4.2 Alternatives

The following are the alternatives for tie-in points and transmission main routing from Cornwall to Martintown:

- Alternative A (from the Class EA): connecting to the Cornwall water system at Pitt-South Branch and McConnell-Tollgate. Piping in Cornwall would be installed along South Branch and McConnell. From the intersection of South Branch Rd and Boundary Rd, the transmission main would be routed north along Boundary Rd, along County Road 19, County Road 20, and County Road 18 to Martintown.
- Alternative B: connecting to the Cornwall system on Boundary Rd at Tenth St and routing the piping along Boundary Rd (north across Highway 401). From the intersection of Boundary Rd and Glen Rd, the transmission main would be routed along Glen Rd, Cashion Rd, Route 19, and Nine Mile Rd to Martintown.
- Alternative C: connecting to the Cornwall system at McConnell-Tollgate. Piping within Cornwall would include piping along Tollgate Rd E, across Highway 401, along Service Rd and south along Boundary Rd to Glen Rd. From the intersection of Boundary Rd and Glen Rd, the transmission main would be routed along Glen Rd, Cashion Rd, Route 19, and Nine Mile Rd to Martintown.

Figure 4-1 in Appendix A shows the routing for the three alternatives.

The following provides brief descriptions of each of the three alternatives.

Alternative A includes 7300 m of watermain within the City of Cornwall. The overall length of this water transmission main route to Martintown is 16,900 m. It has the advantage of connecting to the Cornwall water distribution system in proximity to the elevated water storage tank which provides a more consistent pressure and supply of water. The pressures are also higher than at the tie-in point for Alternative B. The Highway 401 crossing would be along McConnell Ave. The MTO has developed plans for future upgrades to the interchange. The routing of the transmission main through the interchange would need to be compatible with these plans. For example, the transmission main would likely have to be routed around the interchange. The transmission main would potentially allow servicing along McConnell Ave and South Branch Rd.

The route through South Glengarry would follow county roads (CR 19, 20, and 18). The benefit of the proposed connection to the Cornwall system at the intersection of Pitt St and Cornwall Centre Rd is unclear but may have been included for looping and/or the ability to service customers along South Branch Rd between Pitt St and McConnell Ave.

Alternative A does not readily allow servicing the Glendale Subdivision. An additional 4 km watermain would be required from South Branch-Boundary Rd to the Glendale Subdivision. This additional watermain would add over $3M to the cost of this alternative. The routing would also allow servicing of the future Cornwall industrial park on the north side of Highway 401 by extending a watermain from McConnell Ave.

Alternative B includes 1800 m of watermain within the City of Cornwall (along Boundary Rd). The overall length of this water transmission main route to Martintown is 14,500 m. The routing would also allow servicing of the future Cornwall industrial park on the north side of Highway 401 by extending a watermain from Glen Rd. The connection to the Cornwall distribution system would be in the vicinity of the Boundary Rd reservoir and booster pumping station. Hydraulically, this tie-in point is not as good a location as Alternatives A and C (i.e. near Cornwall's elevated water storage tank). The pressures are generally lower and more variable as pressures are subject to significant fluctuations during the filling and emptying of the at-grade reservoir. When the valve on the reservoir fill line opens to fill the reservoir, the pressure around the reservoir can drop significantly. The lower connection pressure means than the transmission main diameter has to be larger than for the other two alternatives to minimize headloss. The larger the diameter, the higher the cost due to the higher pipe cost, more extensive trench excavation and higher reinstatement costs.

The crossing of Highway 401 would be along Boundary Rd. This crossing is more "complex" than the crossings for Alternatives A and C as the MTO has plans to upgrade the intersection in the future and there is no readily available routing to avoid the interchange. Routing the transmission main to avoid the future interchange expansion requires extensive pipe casings and/or the purchase of private property, both of which would result in significantly higher costs than the other two alternatives. Valve and drain chambers would need to be located in areas that do not have convenient access. Similarly, this alternative does not present a convenient location for the flow metering station.

Further, Alternative B does not provide a convenient connection point to service the City of Cornwall's future industrial park on the north of Highway 401. An additional 750 m watermain would have to be installed to the intersection of Boundary Rd and Service Rd. This would add approximately $600,000 to the cost of this alternative.

The transmission main route for Alternative B generally follows Township roads. This routing would mean less traffic disruptions during construction and maintenance than Alternative A. Another advantage of this routing is that it facilitates future servicing of the Glendale Subdivision, as the transmission main is routed through the subdivision. The route includes a section along Cashion Rd through an unmaintained road allowance that passes through a wetland. This route will require upgrading the existing road/trail to allow year-round access to the main for any emergency repairs. The wetland is considered to be a Provincial Significant Wetland. Based on discussions to date with the Raisin River Conservation Authority, the route would be acceptable since there is already a road with services along it.

Alternative C includes 4,100 m of watermain within the City of Cornwall (along Tollgate Rd E and Service Rd). The overall length of this water transmission main route to Martintown is 17,100 m. This routing would facilitate servicing the future Cornwall industrial park north of Highway 401 as it allows connection(s) anywhere along Service Rd. As with Alternative A, Alternative C has the advantages of improved hydraulics at the connection point to the Cornwall distribution system and simpler crossing of Highway 401. The improved hydraulics allows for smaller diameter transmission main between Cornwall and Martintown. Another advantage of this alternative is that it presents a convenient location for the flow metering station on the east side of Boundary Rd just south of Service Rd. There is a former railway easement that belongs to the City of Cornwall that would accommodate the flow metering station without the need to purchase private property.

4.3 Evaluation

Table 4-1 provides an evaluation of the three alternatives for tie-in points in Cornwall and transmission main routes from Cornwall to Martintown.

TABLE 4-1
Evaluation of Alternatives for Connection in Cornwall and Transmission Main Routing from Cornwall to Martintown

	Advantages/Disadvantages		
Criteria	**Alternative A – Pitt-South Branch and McConnell-Tollgate, County Road 19, 20 and 18**	**Alternative B – Boundary, Glen, Cashion, County Road 19 and Nine Mile**	**Alternative C – Tollgate, Service, Glen, Cashion, County Road 19 and Nine Mile**
Technical	Water transmission main is 16,900 m; 2.4 km longer than Alternative B Crossing of Highway 401 along McConnell (routed around interchange); consistent with Class EA and less complex than Alternative B No need to purchase private property for the crossing of Highway 401 Mostly along county roads 19, 20, and 18 Allows servicing along South Branch and McConnell in Cornwall Connects to system in proximity of the elevated water storage tank; provides more consistent water pressure Does not readily allow servicing of Glendale Subdivision in the future	Water transmission main is 14,500 m; approx. 2.5 km shorter than Alternative A and C Crossing of Highway 401 along Boundary Road (routed around interchange); MTO plans to upgrade the intersection Crossing of Highway 401 requires purchase of private property or extensive pipe casings and inconveniently located drain and valve chambers Mostly along City and Township roads Allows servicing along the west side of Boundary Road in Cornwall Connects to system near the Boundary Road reservoir and booster pumping station. The pressures are lower and more variable than Alternative A; pressures are subject to significant fluctuations during the filling and emptying of the reservoir Requires installation in an unmaintained road allowance through a wetland, requiring upgrading of the existing road/trail Readily allows servicing of Glendale Subdivision in the future	Water transmission main is 17,100 m; 2.6 km longer than Alternative B Crossing of Highway 401 along McConnell (routed around interchange) – in proximity to Class EA routing and less complex than Alternative B No need to purchase private property for the crossing of Highway 401 and convenient location for the flow metering station Mostly along City and Township roads Allows servicing along Service Road in Cornwall for a future industrial park Connects to system at a location with good hydraulics which allows for smaller diameter transmission main between Cornwall and Martintown than Alternative B Requires installation in an unmaintained road allowance through a wetland, requiring upgrading of the existing road/trail Readily allows servicing of Glendale Subdivision in the future
Social Environment	Traffic disruptions on “main” roads during construction	Traffic disruptions along “secondary” roads during construction	Traffic disruptions along “secondary” roads during construction
Natural Environment	Along road shoulders or within road Route does not go through a wetland	Passes through a provincially significant wetland along Cashion Road	Passes through a provincially significant wetland along Cashion Road
Economic	Construction cost similar to Alternative C and $1M more than Alternative B Does not service Glendale Subdivision; additional piping to do so adds over $3M to the capital cost Does not service the City of Cornwall’s future industrial park	Lowest construction cost - $1M lower than Alternatives A and C Services the Glendale Subdivision Does not service the future Cornwall industrial park; additional piping to do so adds over $600,000 to the capital cost	Construction cost similar to Alternative A and $1M more than Alternative B Services the Glendale Subdivision and the future Cornwall industrial park at no additional cost

4.4 Recommendation

Based on the above evaluation, the preferred alternative is Alternative C. The main advantages are improved hydraulics at connection point in Cornwall (higher and more consistent pressure), greater benefit to the City of Cornwall for future development of their industrial park north of Highway 401, and elimination of the need to purchase private property for the crossing of Highway 401.

It should be noted that there will be several water course crossing as part of the project, regardless of the selected transmission main routing. The natural environment reports include recommendations for mitigation measures to be incorporated into the construction methods for watercourse crossings. The Township of North Glengarry is also working closely with the Raisin River Conservation Authority to ensure that their requirements are being incorporated into the design.

As noted in Table 3-1, the transmission main passes through a provincially significant wetland along Cashion Road. The next steps and mitigation measures recommended by Niblett Environmental Associates were:

1. Construction zone should be located entirely within the road Right of Way or down the centre of Cashion Road.
2. Heavy weight silt fencing should be placed along both sides of the road to protect the wetlands features and functions during construction.
3. If dewatering of the trench is required, the water should be treated to remove as much sediment as possible (e.g. Filter bag) prior to discharging it to the environment.
4. Avoid construction during the peak amphibian and bird breeding periods (April 1-July 31).
5. Restoration plan should be developed for any construction laydown areas or disturbed areas that includes native, non-invasive plant species.
6. Culvert replacements or installation of pipe under culverts should be completed with proper sediment and erosion control measures in place during construction and restoration activities.
7. If a turtle or snake that is a Species At Risk is encountered during construction, construction activities should stop and the animal should be left alone to move through the site; or if necessary contact a biologist for advice.
8. If overhanging trees interfere with movement of large construction equipment, those limbs should be trimmed as needed with a chainsaw.

By following the recommendations for mitigation measures listed above, the issue of installing the transmission main along an existing road trough a provincially significant wetland is felt to be manageable and the potential impacts can be mitigated.

SECTION 5

Public Consultation

5.1 Notice of Commencement of EA Addendum

The Notice of Commencement was published in the Glengarry News, the Standard-Freeholder, and the Indian Times around September 20, 2012 (depending on the publication date of the newspaper). The Notice is included in Appendix B.

5.2 Public Open House/Public Information Centre

The Public Meeting was advertised in the Glengarry News, the Standard-Freeholder, and the Indian Times around November 14, 2012 (depending on the publication date of the newspaper). A copy of the notice is included in Appendix B.

The Public Meeting was held on November 27, 2012 at the Maxville Sports Complex at 25 Fair St. in Maxville.

The sign-in sheets, comment sheets, presentation materials, and a summary of the meeting are included in Appendix B.

Following the Public Meeting, a change was made to the alternatives for the transmission main route. A notice was published in the Glengarry News, the Standard-Freeholder, and the Indian Times around February 14, 2013 (depending on the publication date of the newspaper). The Notice indicated that the updated information could be obtained in person at the Township Town Hall or on the Township website. The Notice and update material are included in Appendix B.

5.3 Agency Consultation

Agency consultation has included meetings, phone conversations and notifications.

To date we have had meetings with the following agencies and stakeholders:

- Township of South Glengarry
- United Counties of Stormont, Dundas and Glengarry
- Raisin River Conservation Authority
- Ministry of Transportation
- Mohawk Council of Akwesasne

We have briefly discussed the project with the Ministry of the Environment and obtained copies of correspondence from the original Class EA as well as comments on the draft of this EA Addendum. MOE's comments of April 10, 2013 are included in Appendix B.

Stakeholders and review agencies included in the stakeholder list included in Appendix B have been notified of the project by e-mail. The e-mail provided a link to the Township of North Glengarry's website which includes the presentation from the Public Meeting. Stakeholders were encouraged to review the presentation materials and provide any feedback or comments.

5.4 First Nations/Métis Consultation

On August 1, 2012, a letter was sent to Mohawks Council of Akwesasne to inform them of the project. A follow-up meeting was held at the offices of the Mohawk Council of Akwesasne on September 11, 2012 to discuss the project in greater detail.

As noted above, all notices have been published in the Indian Time, which focuses “on what is happening in Akwesasne and our sister Iroquois communities”.

A letter was received from the Ministry of Aboriginal Affairs on January 25, 2013 indicating agencies and contact persons that should be included in our stakeholder list. These agencies included: Algonquins Consultation Office, Mohawks of Akwesasne, Ottawa Region Métis Council, and Métis Nation of Ontario Head Office. The agencies were all contacted and notified of the project and public meeting presentation materials.

5.5 Permits and Approvals

The following permits and approvals will be required prior to project implementation. These will be sought during the detailed design phase of the project:

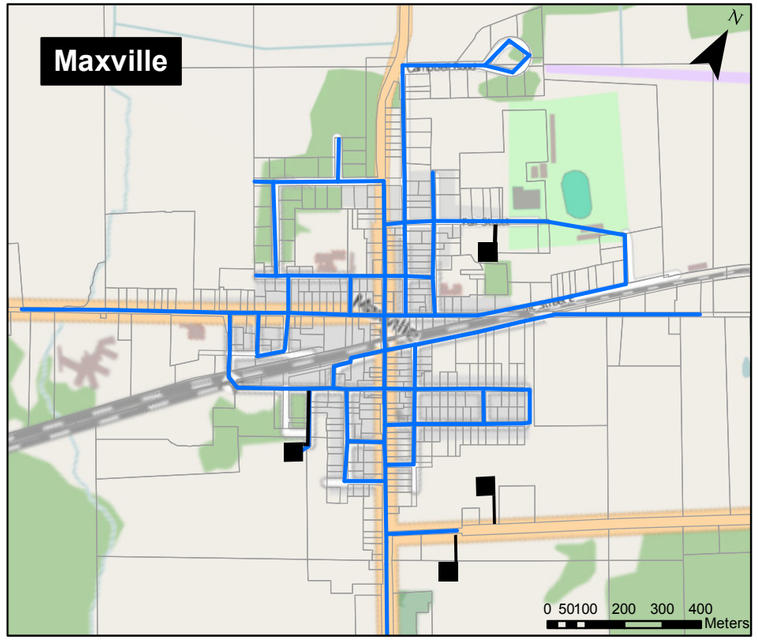
- Drinking Water Works Permit by the Ministry of the Environment
- Site Plan Control for Booster Pumping Station and Elevated Storage Tank by the Townships of North & South Glengarry
- Electrical Safety Code Review by the Electrical Safety Authority
- Watercourse Crossing approvals by the Raisin River Conservation Authority (RRCA) and South Nation Conservation Authority (SNCA)
- Highway 401 Crossing Encroachment Permit by the Ministry of Transportation
- Railway Crossings Encroachment Permit by the CN Rail and CP Rail
- Natural Gas Main Crossings Encroachment Permit by Enbridge and TransCanada
- Federal Environmental Assessment Screening (if funding is received)

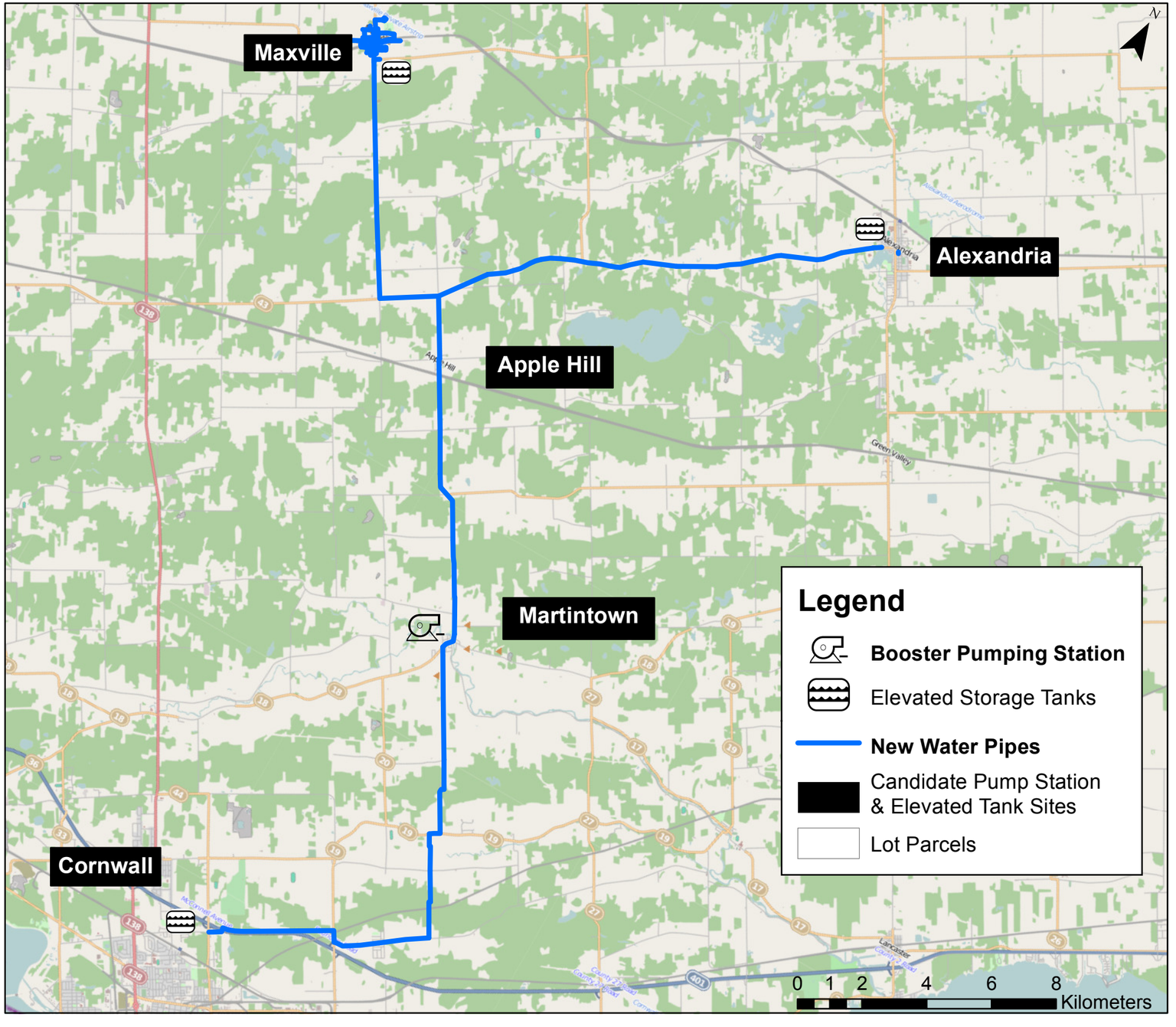
SECTION 6

References

Environmental Study Report for the Maxville and Regional Water Supply, Township of North Glengarry, Thompson Rosemount Group; March 2010.

Appendix A
Figures

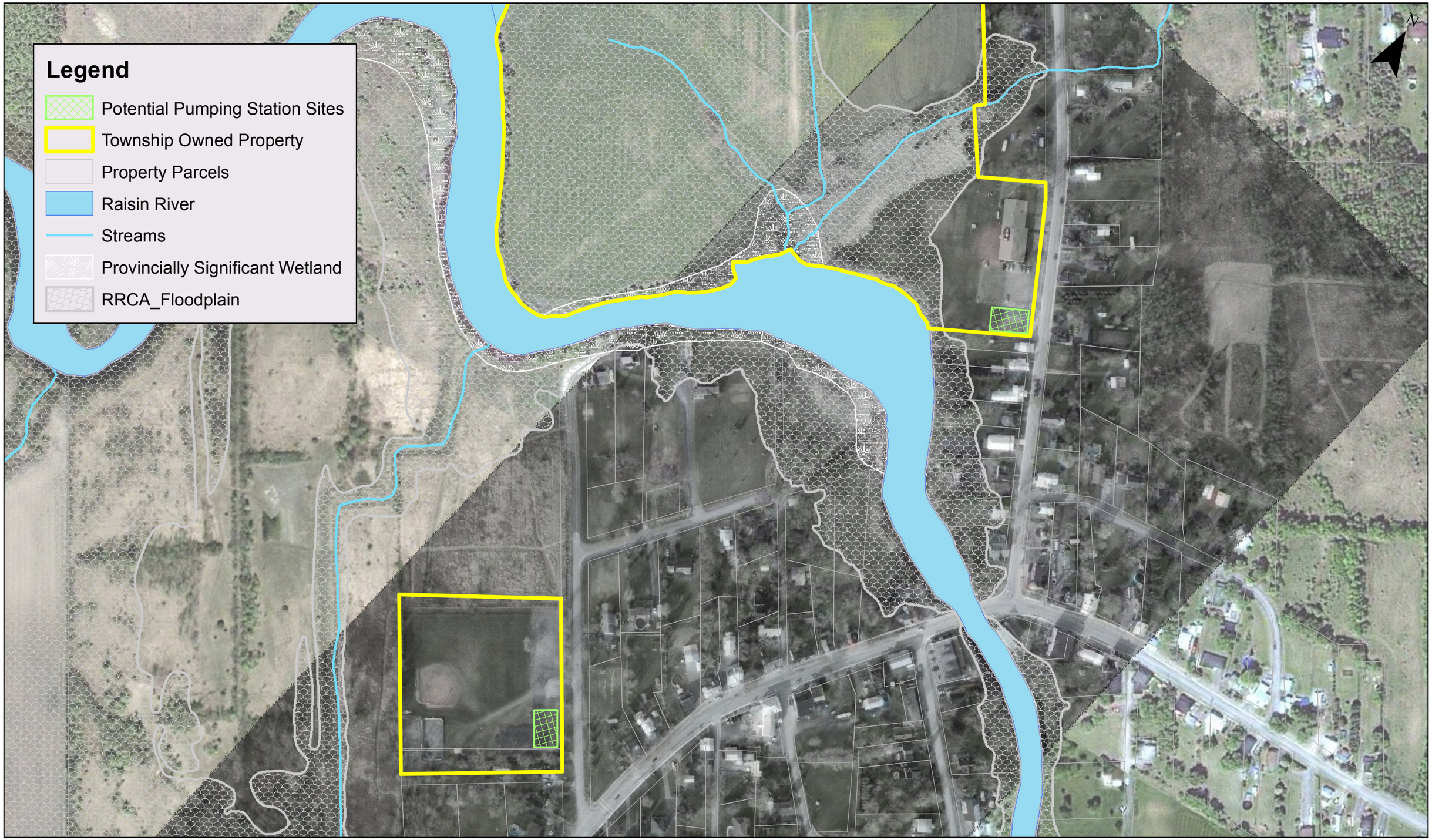




Notes: Locations shown are approximate.

Revision Date: February 26, 2013

FIGURE 1-1
Overall Regional Water Supply System
Glengarry Regional Water Supply Project



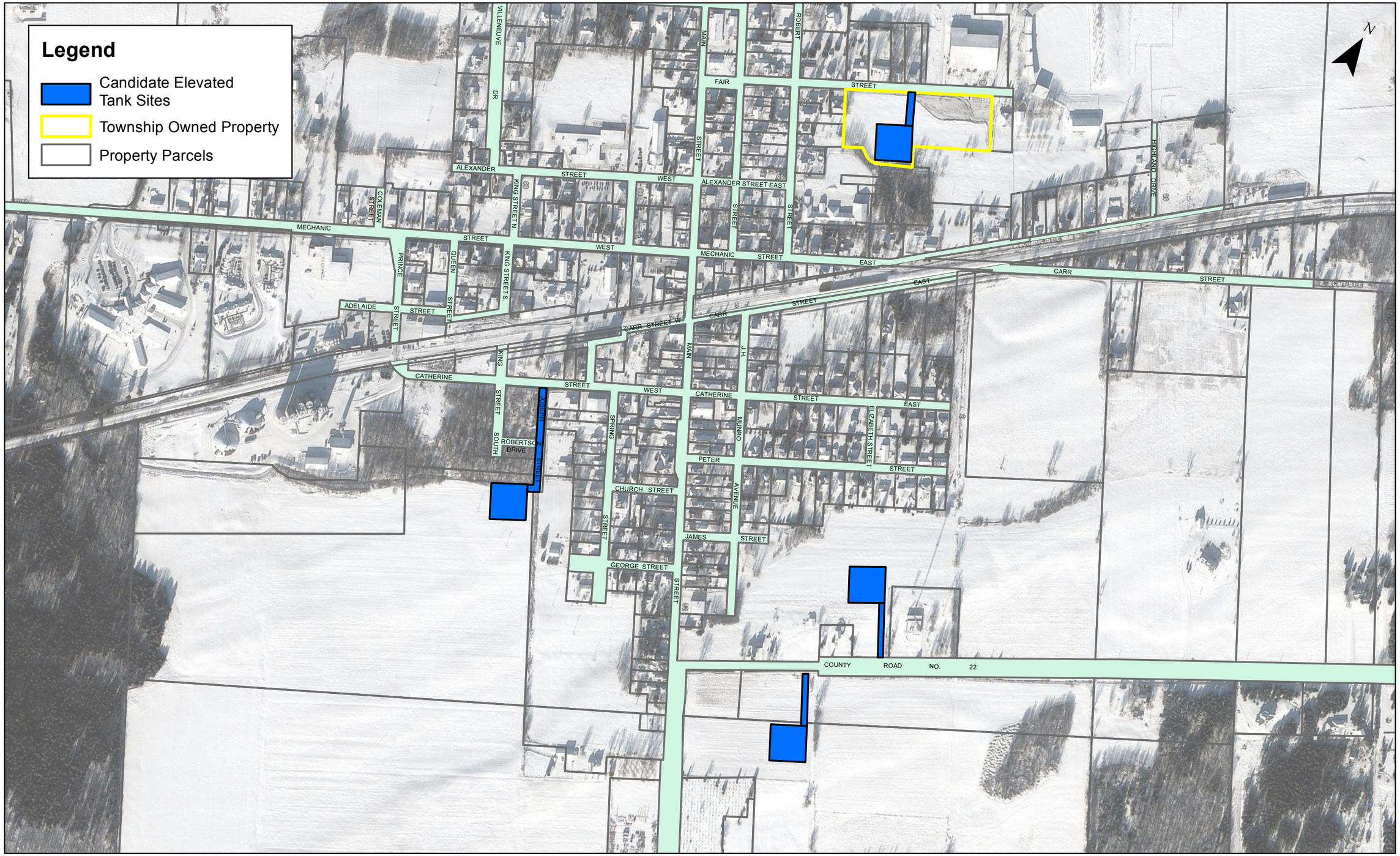
Notes: Locations shown are approximate.

Revision Date: February 26, 2013

Approximate Area Required for Pump Station Site (as shown on drawing): 25m x 40m

Scale: 0 25 50 100 150 200 Meters

FIGURE 2-1
Alternative Booster Pump Station Sites - Martintown
North Glengarry Regional Water Distribution System



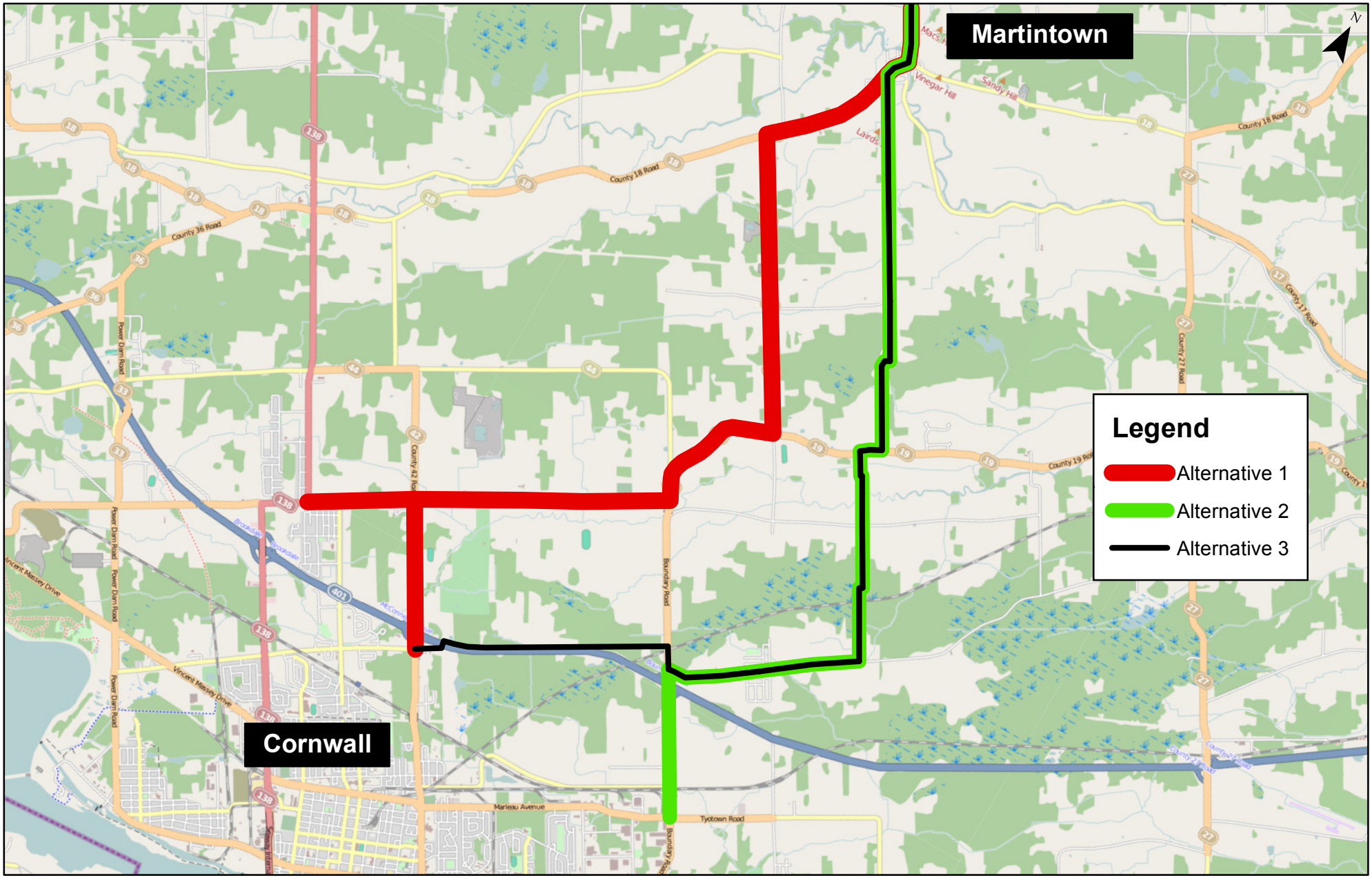
Notes: Locations shown are approximate.

Revision Date: February 26, 2013

Scale: 0 25 50 100 150 200 Meters

Approximate Area Required for Tank Site (to scale): 50m x 50m

FIGURE 3-1
Alternative Elevated Tank Sites - Maxville
Glengarry Regional Water Supply Project



Notes: Locations shown are approximate.

Revision Date: March 13, 2013

FIGURE 4-1
Tie-In Points and Transmission Main Routing - Cornwall
Glengarry Regional Water Supply Project

Appendix B
Consultation

TOWNSHIP OF NORTH GLENGARRY

Glengarry Regional Water Supply Project

Notice of Class Environmental Assessment Amendment Commencement

In March 2010, the Township of North Glengarry completed a Schedule C Municipal Class Environmental Assessment (EA) that identified the preferred solution for providing drinking water to the villages of Maxville and Alexandria. The findings of the Class EA were documented in an Environmental Study Report (ESR) dated March 2010, that was accepted at that time. The solution consists of creating a regional water supply system where water is pumped from the City of Cornwall to Maxville and Alexandria with capacity for other area villages servicing in the future if required. In addition to water transmission mains to convey water from Cornwall to Maxville and Alexandria, the Regional Water Supply includes a new water booster pumping station (BPS) to be located in Martintown, a new elevated water storage tank in Maxville, a new water distribution system in Maxville, and new flow metering station at the boundary of Cornwall and the Township of South Glengarry. The ESR noted that the exact sites for the BPS and water storage tank would be selected through further environmental assessment.

In the spring of 2012, the Township of North Glengarry was successful in securing funding to complete the design of the Regional Water Supply Project. To complete the design, four components of the regional water supply system will be evaluated as an addendum to the Class EA:

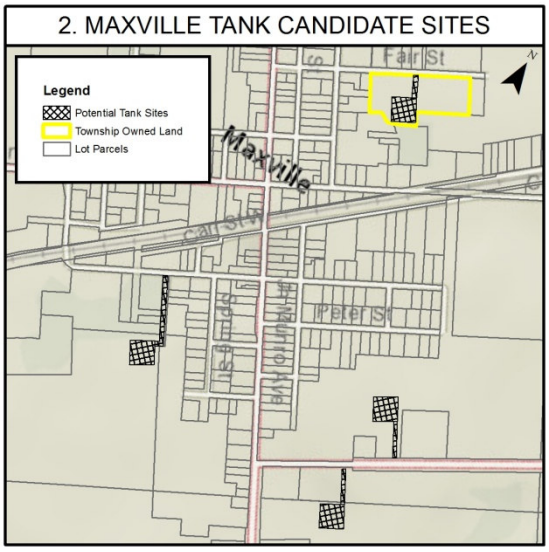
1. Alternative sites for the new water BPS station in Martintown will be evaluated.

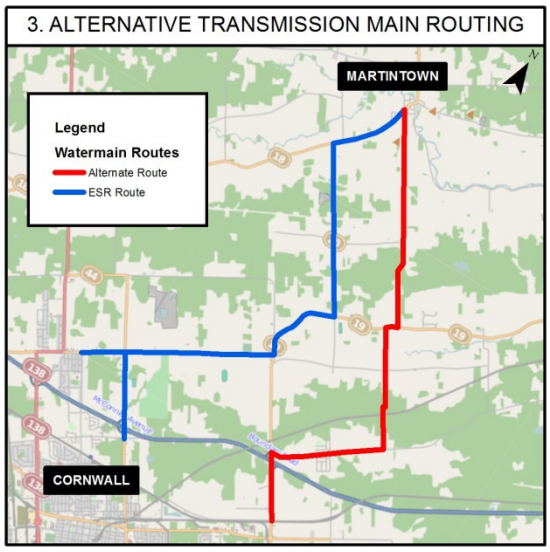
2. Alternative sites for the new elevated water storage tank in Maxville will be evaluated.

3. The preliminary design has identified a different route for the water transmission mains from the one identified in the Class EA. This alternative route is being evaluated to determine if it is preferred over the route originally identified.

4. Details of the flow metering station near the intersection of Boundary Rd. and Glen Rd.

The attached maps show: (1) candidate sites for the Martintown BPS, (2) candidate sites for the Maxville water storage tank, and (3) alternate transmission main routing.





Public and agency consultation is a key component of the Class EA Amendment process and the submission of comments is encouraged at any time during the study. Comments may be submitted to:

Mr. Daniel Gagnon
Chief Administrative Officer
Township of North Glengarry
90 Main St.
Alexandria, ON K0C 1A0
Phone: 613-525-1110 x229
Fax: 613-525-6149
e-mail: danielgagnon@northglengarry.ca

Mr. André Bourque
Consultant Project Manager
CH2M HILL
330-1101 Prince of Wales Dr.
Ottawa, ON K2C 3W7
Phone: 613-723-0233 x73106
Fax: 613-723-7489
e-mail: abourque@ch2m.com

We will be hosting a Public Open House (POH) to provide the public an opportunity to review the recommended BPS, storage tank sites, flow metering and transmission main routing. The POH will be held in October or November. The time, location, and details of the POH will be communicated in a future notice.

TOWNSHIP OF NORTH GLENGARRY

Glengarry Regional Water Supply Project

Notice of Class Environmental Assessment Addendum

PUBLIC MEETING

In March 2010, the Township of North Glengarry completed a Schedule C Municipal Class Environmental Assessment (EA) that identified the preferred solution for providing drinking water to the villages of Maxville and Alexandria. The findings of the Class EA were documented in an Environmental Study Report (ESR) dated March 2010, that was accepted at that time. The solution consists of creating a regional water supply system where water is pumped from the City of Cornwall to Maxville and Alexandria with capacity for servicing other area villages in the future. In addition to water transmission mains to convey water from Cornwall to Maxville and Alexandria, the Glengarry Regional Water Supply includes a new water booster pumping station (BPS) to be located in Martintown, a new elevated water storage tank in Maxville, a new water distribution system in Maxville, and new flow metering station at the boundary of Cornwall and the Township of South Glengarry. The ESR noted that the exact sites for the BPS and water storage tank would be selected through further environmental assessment.

In the spring of 2012, the Township of North Glengarry was successful in securing funding to complete the design of the Regional Water Supply Project. To complete the design, four components of the regional water supply system are being assessed as an Addendum to the Class EA:

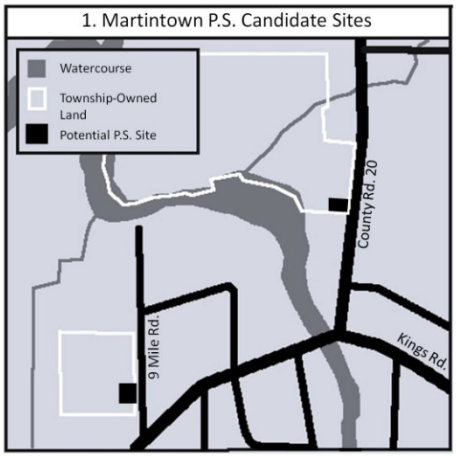
1. Alternative sites for the new water BPS station in Martintown .

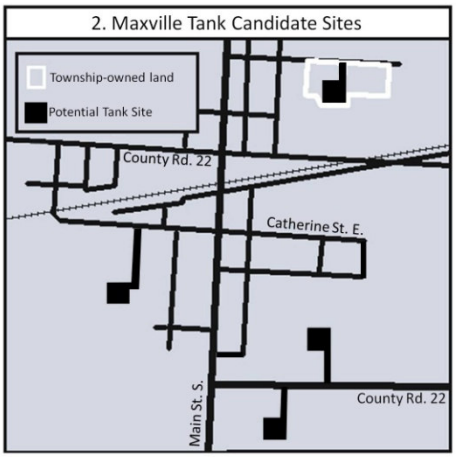
2. Alternative sites for the new elevated water storage tank in Maxville .

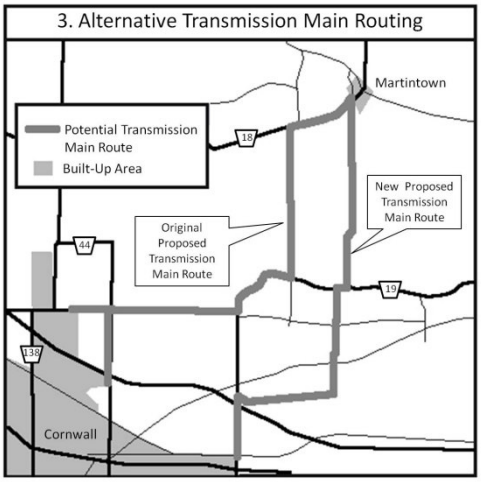
3. The preliminary design has identified an alternative route for the water transmission mains from the one identified in the Class EA.

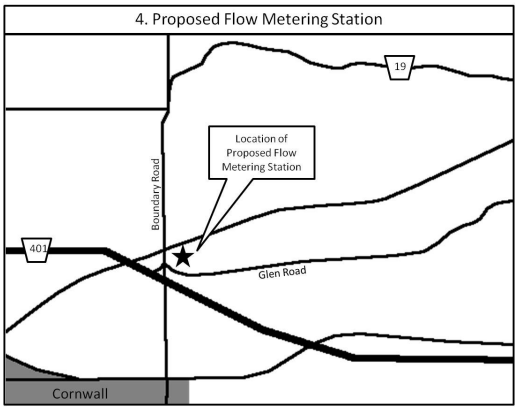
4. The flow metering station near the intersection of Boundary Rd. and Glen Rd.

The attached maps show: (1) candidate sites for the Martintown BPS, (2) candidate sites for the Maxville water storage tank, (3) alternate transmission main routing and (4) the site for the flow metering station









To provide details on the project as well as to receive input and comments from interested parties, a Public Open House will be held:

Date: Tuesday, November 27, 2012

Time: 6:00 – 7:00 pm (Open House)

7:00 – 8:00 pm (Presentation)

Location: Maxville Sports Complex, 25 Fair St., Maxville, ON

As this is an Addendum to a previous Class EA, the focus of the Public Open House is to provide information on the changes to the project since the Class EA in March 2010, including: selection of the preferred sites for the Martintown BPS, Maxville water storage tank, and flow metering station, and changes to transmission main routing.

A display of information will be available for viewing, and staff from the Township and the consultant team will be on hand to discuss the information and answer questions.

If you are unable to attend the Public Open House and wish to comment on this project or receive information, please contact one of the contacts listed below:

Mr. Daniel Gagnon
Chief Administrative Officer
Township of North Glengarry
90 Main St.
Alexandria, ON K0C 1A0
Phone: 613-525-1110 x229
Fax: 613-525-6149
e-mail: danielgagnon@northglengarry.ca

Mr. André Bourque
Consultant Project Manager
CH2M HILL
330-1101 Prince of Wales Dr.
Ottawa, ON K2C 3W7
Phone: 613-723-0233 x73106
Fax: 613-723-7489
e-mail: abourque@ch2m.com

Glengarry Regional Water Supply Project

EA Addendum
Public Meeting

November 27, 2012

mhpm PROJECT LEADERS

CH2MHILL

J.L.Richards ENGINEERS · ARCHITECTS · PLANNERS

Presenters

- André Bourque: CH2M HILL - Consultant Team Project Manager
- Michael Paul: MHPM - Owner's Representative

Presentation Overview

- Purpose of Meeting
- Overview of Class Environmental Assessment (EA) - completed in 2010
- Project changes since Class EA
- Overview of preliminary cost estimates
- Input and feedback from residents and businesses

Purpose of Meeting

- Meeting is part of formal Class Environmental Assessment Addendum process
- Present changes to the project (or further development of the design):
  - Evaluation of alternatives
  - Technically preferred solutions
- Receive comments and feedback from residents, businesses and other stakeholders – related to changes only
- Provide preliminary information on costs

Overview of Class Environmental Assessment

- Maxville (private wells)
  - Population: 810
  - Problems with well water quantities and quality is well documented
  - Some residents & businesses regularly import potable water by truck
  - Water problems negatively impact potential growth

Overview of Class Environmental Assessment

- Alexandria (municipal water supply)
  - Population: 3210
  - Source (Mill Pond) highly susceptible to algae blooms
  - Safe yield of source (5600 m^3/day) is less than Water Treatment Plant capacity (8000 m^3/day)
  - Source is very sensitive and not sustainable
  - Treatment is very expensive (>$100,000/year in chemicals)
  - Treatment of algae in Pond costs $50,000/year

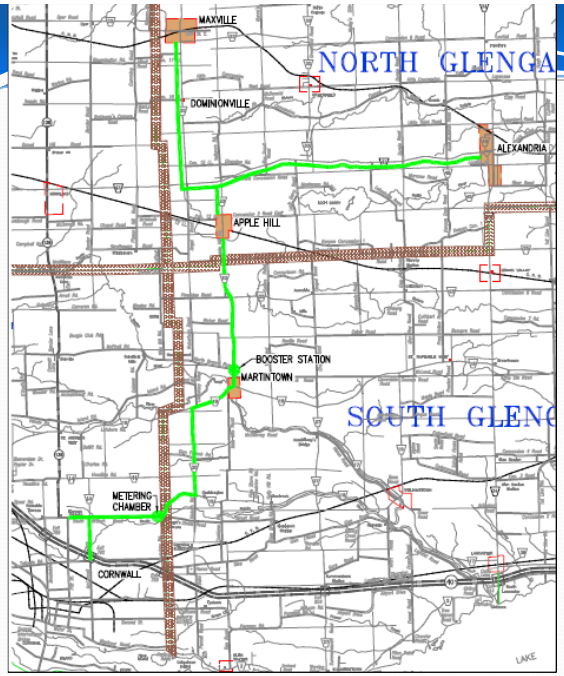
Overview of Class Environmental Assessment

- Apple Hill (pop: 250), Dominionville (pop: 40), Martintown (pop: 342), Glendale (pop: 453), Green Valley (pop: 475)
- Not as well documented, but expect similar well water problems as Maxville

Overview of Class Environmental Assessment

Solution from previously approved Class Environmental Assessment (2010):

- Regional water supply fed by City of Cornwall's water system
- Transmission main from Cornwall to Martintown
- Booster pumping station in Martintown
- Transmission main from Martintown to Maxville & Alexandria
- Booster pumping station (with chlorine feed), elevated storage tank and distribution system in Maxville
- Convert Alexandria WTP into Booster pumping station and keep chlorine feed
- Provisions to connect other communities in the future



Preferred Solution from 2010 Class Environmental Assessment

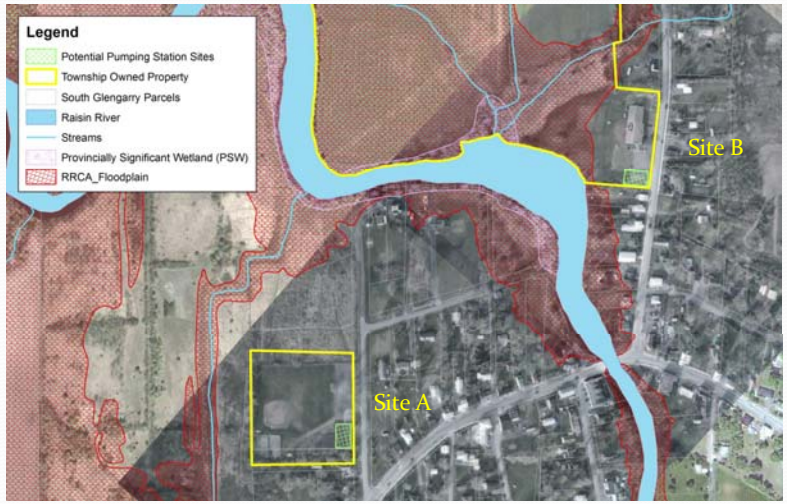
Changes to the project (or further developments)

1. Location of Booster Pumping Station in Martintown (not finalized in Class EA)
2. Location of Elevated Water Storage Tank in Maxville (not finalized in Class EA)
3. Transmission Main Routing between Cornwall and Martintown
4. Location of flow metering station (not finalized in Class EA)
5. Transmission Main Routing through Martintown

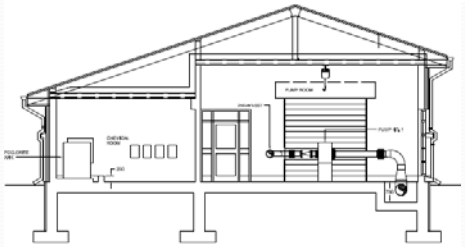
1. Location of Booster Pumping Station in Martintown

- Need for Booster Pumping Station in Martintown was identified in Class EA but location was not selected
- Booster pumping needed to pump water to Maxville and Alexandria and to boost chlorine

1. Potential locations of Booster Pumping Station in Martintown



1. Booster Pumping Station in Martintown



Approx. building size: 15 m X 18m

1. Evaluation of Alternative BPS Sites

Criteria	Site A – Baseball Diamond	Site B – Community Centre
Technical	Needs new septic system	Connect to existing septic system
	Need to extend 600 V power	
	Bridge/river crossing would be high pressure pipe (150 psi)	Bridge/river crossing would be low pressure pipe (50 psi)
Social Environment	Adjacent to recreation area (owned by Township)	Adjacent to Community Centre (owned by Township)
	More remote	May be some restrictions on the use of the land
Natural Environment	Previously disturbed site	Previously disturbed site
Economic	Slightly higher cost due to septic system and power	

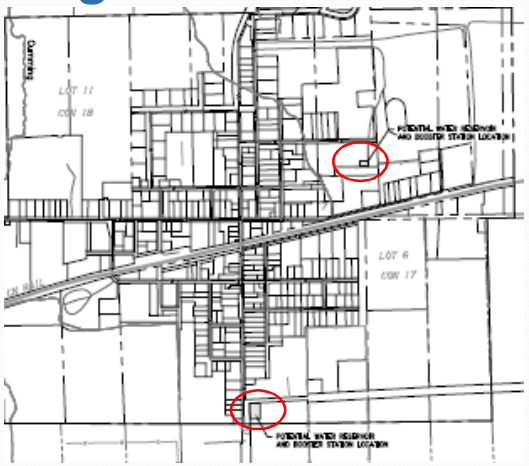
1. Evaluation of Alternative BPS Sites

- Technically Preferred Booster Pumping Station Site:
  - Site B – Community Centre
    - Higher visibility
    - Lower construction cost
    - Connect to existing septic system
    - Lower pressure transmission main across river/bridge

2. Location of Elevated Water Storage Tank in Maxville

- Need for elevated water storage tank was identified in the Class EA but location was not selected
- Storage tank provides emergency storage and fire flows for Maxville
- Similar in appearance to Alexandria tank

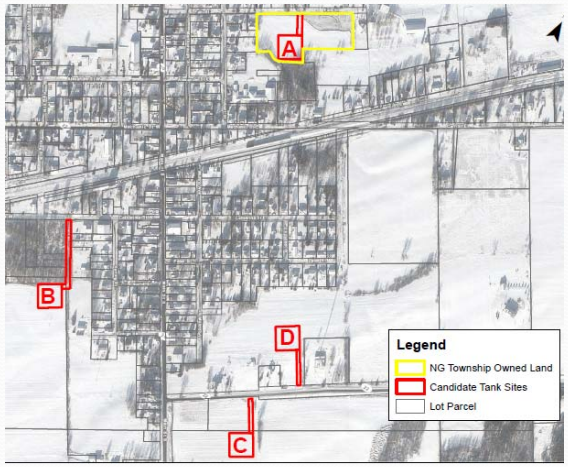
2. Location of Elevated Water Storage Tank in Maxville



Alternative Sites identified in the Class EA

One of the sites is now the site of vet clinic

2. Location of Elevated Water Storage Tank in Maxville

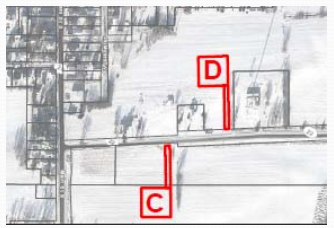


2. Evaluation of Alternative Tank Sites

Criteria	Site A	Site B	Site C	Site D
Technical	Lowest elevation		Highest elevation	
	More complex pressure control in distribution system		Offers flexibility for piping to maximize turn-over	Offers flexibility for piping to maximize turn-over
Social Environment	Township owned	Privately owned	Privately owned	Privately owned
Natural Environment	Previously disturbed	Previously disturbed	Previously disturbed	Previously disturbed
Economic	Highest cost		Lowest cost	

2. Evaluation of Alternative Tank Sites

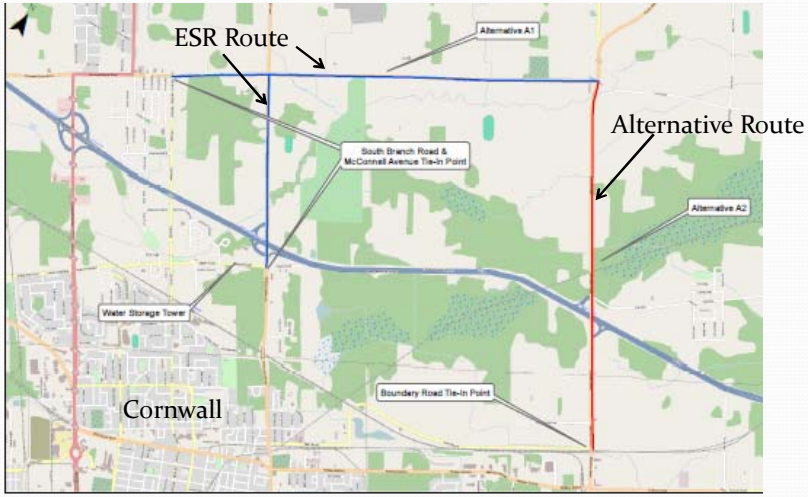
- Technically Preferred Maxville Water Storage Tank Site:
  - Site C: Near south-east intersection of Main Street and County Road 22
    - Lowest cost
    - Most flexibility for piping (which will help manage water quality)
    - Highest elevation (shortest tank)
    - Favourable geotechnical conditions
    - More visible when entering the Village from the south

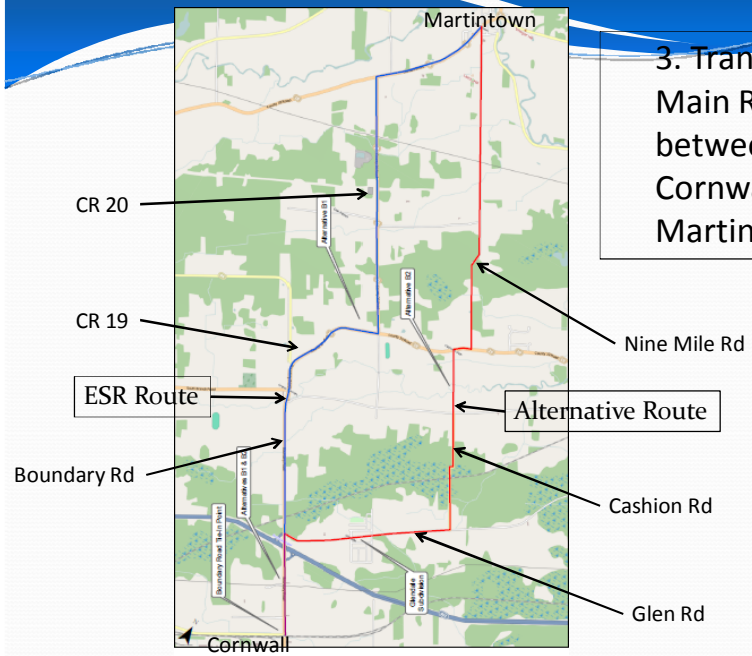


3. Transmission Main from Cornwall to Martintown

- Class EA route: Pitt-South Branch and McConnell-Tollgate, and running from Cornwall to Martintown along County Roads 19, 20 and 18
- Alternative: Connecting at Boundary Road/Tenth Street East, and running to Martintown along Boundary, Glen, Cashion, County Road 19 and Nine Mile Rd.

3. Transmission Main from Cornwall to Martintown





3. Transmission Main Routing between Cornwall and Martintown

3. Evaluation of Alternative Transmission Main Routes

Criteria	Alt. A – Pitt-South Branch and McConnell-Tollgate, CR 19, 20 and 18	Alt. B - Boundary, Glen, Cashion, CR 19 and Nine Mile Rd.
Technical	Approx. 3 km longer	
	Along County Roads	Along Township Roads
		Facilitates future servicing Glendale Subdivision
Social Environment	Traffic disruptions along main roads	Traffic disruptions along secondary roads
Natural Environment	Along road shoulders or within road	Passes through Provincially Significant Wetland
Economic	Higher cost	Lower cost

3. Evaluation of Alternative Transmission Main Routes

- Technically Preferred Transmission Main Route from Cornwall to Martintown:
  - Alternative B: Boundary Road/Tenth Street East, and running to Martintown along Boundary Rd, Glen Rd, Cashion Rd, County Road 19 and Nine Mile Rd.
    - Lowest cost
    - Shorter distance
    - Facilitates future servicing of Glendale Subdivision

4. Flow Metering Station

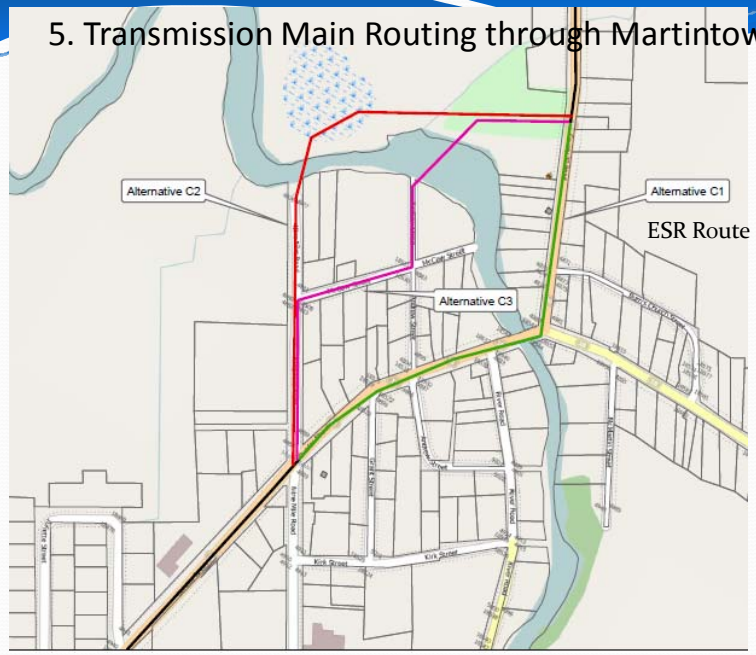
- Need for flow metering station was identified in the Class EA but location was not selected
- Flow data will be used for billings between Cornwall and Townships
- Small above-grade structure to house flow meter – to be located with Township of South Glengarry, close to boundary with Cornwall

4. Flow Metering Station

5. Evaluation of Alternative Transmission Main Routes through Martintown

- Alternative C1 (Class EA route): Along Kings Road, across Bridge, along Route 20
- Alternative C2: Nine Mile Road, with crossing of the Raisin River at a narrower location than Alternative C
- Alternative C3: Along extension of Andrew Street, with crossing of the Raisin River

5. Transmission Main Routing through Martintown



5. Transmission Main through Martintown

5. Evaluation of Alternative Transmission Main Routes through Martintown

Criteria	Alt. C1 – Across Bridge	Alt. C2 – Under Raisin River (narrow)	Alt. C2 – Under Raisin River (wider)
Technical	Suspend pipe from bridge	Core tunnel through rock	Core tunnel through rock
	Transmission main along Kings Rd and CR20	Avoids disruption along Kings Rd and CR20	Avoids disruption along Kings Rd and CR20
Social Environment	No archaeological potential	High archaeological potential	High archaeological potential
Natural Environment	Minimal impacts	Provincially Significant Wetlands	Provincially Significant Wetlands
Economic	Lower cost	Higher cost	Higher cost

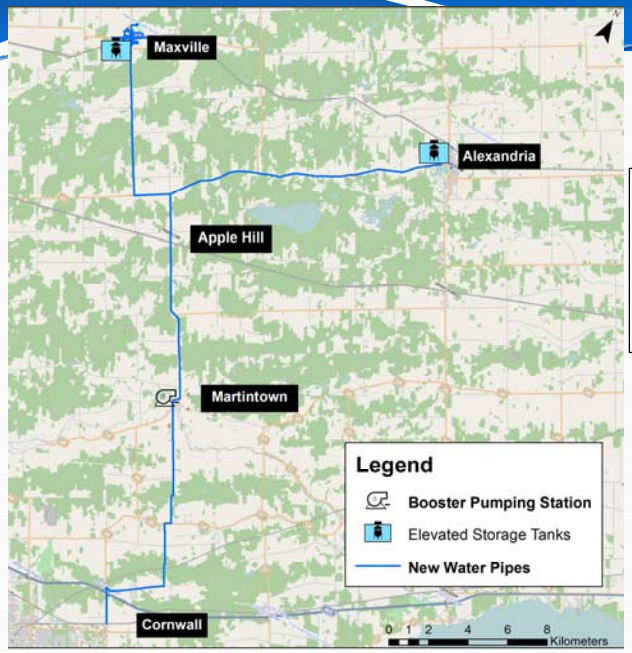
5. Evaluation of Alternative Transmission Main Routes through Martintown

- Technically Preferred Transmission Main Route:
  - Alt. C1 (across bridge) – no change from ESR
    - Lower cost
    - Avoids Provincially Significant Wetlands
    - Avoids areas of high archaeological potential

Summary of Amendments to the Class EA

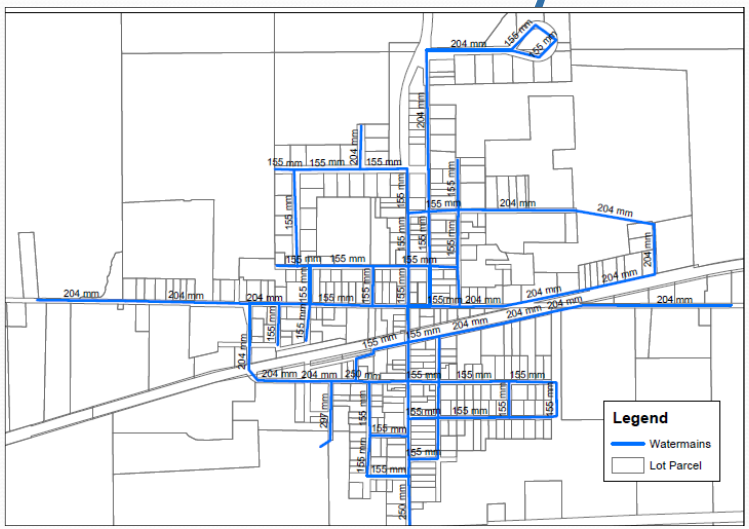
Technically preferred alternatives:

1. Martintown Booster PS: next to Community Centre on CR20
2. Maxville water storage tank: Near south-east intersection of Main St. and CR22
3. Transmission Main Route (from Cornwall to Martintown): Boundary Rd, Glen Rd, Cashion Rd, CR19 and Nine Mile Rd
4. Flow Metering Station: on Glen Rd near Boundary Rd.
5. Transmission Main Route through Martintown: along Kings Rd, across the bridge and along CR20 (no change from EA)



Technically Preferred Overall Plan

Maxville Distribution System

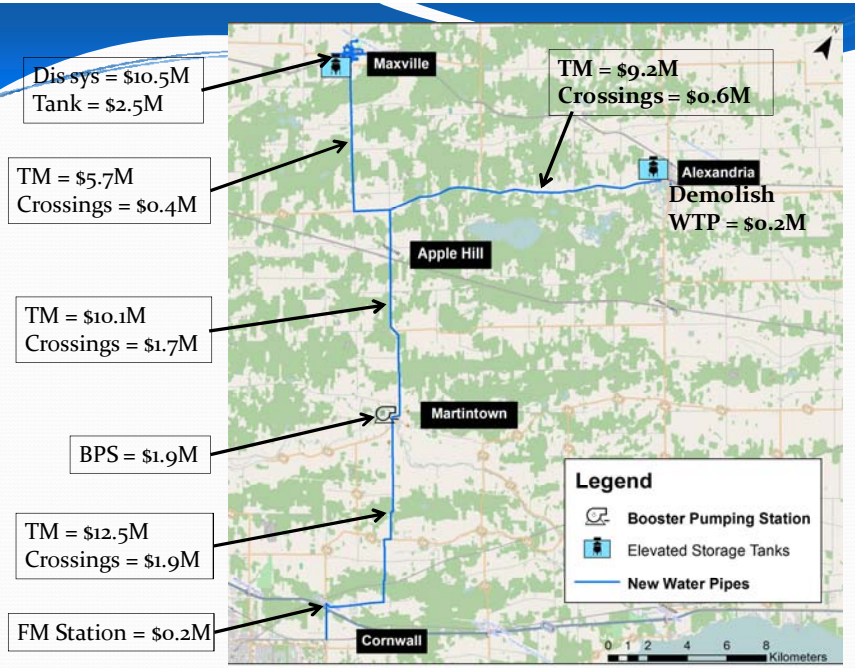


Changes in Capital Costs from Business Case

- Business Case estimate was based on 100% reinstatement with sod or seed -> not realistic (majority of the TM will be in shoulder with some in road, where necessary)
- Business Case estimate did not include rock removal (required along CR 20)
- Business Case included low estimates for crossing costs (e.g. $5,000 for gas main crossing)
- Business Case estimate did not include any valves or drains

Changes in Capital Costs from Business Case

- Many cost savings were identified and incorporated into the design:
  - Eliminating booster pumping station in Maxville – saves capital and on-going Operation & Maintenance costs
  - Eliminating the need to convert the Alexandria WTP into a booster pumping station
  - Shorter transmission main routes
  - Fewer new watermains in Cornwall



Preliminary Capital Project Costs

Source	Total Capital Cost [A]	Engineering Costs (already funded 90%) [B]	Required Capital Costs = [A] minus [B]
Business Case, January 2012 (2013 dollars)	$57,280,000	$3,177,153	**$54,102,847**
Current Class D estimate, October 2012 (2013 dollars)	$60,552,153	$3,177,153	**$57,375,000**

Preliminary Annual Cost Per Connection

- All costs use 90% funding assistance on capital from upper levels of government (provincial or federal)
- 9% North Glengarry contribution
- 1% South Glengarry contribution
- Average per connection, actual costs may vary depending on usage and type of connection (ie residential, commercial, etc)

Preliminary O&M Costs

- Annual Operation and Maintenance (O&M) Costs:
  - Cost to purchase water from Cornwall: $350K
  - Martintown BPS: $200K
  - Transmission Main: $345K
  - Maxville & Alexandria distr. Systems: $550K
  - Long-Term Debt: $346K (until 2022)

  TOTAL: $1,791,000
- Current: $1,488,000 (Alexandria and small system in Glen Robertson) – incl. long-term debt & deficit repayment

Preliminary Design - Costs

- Annual cost per household breakdown:
  - Maxville (2015-2022): 30% toward capital & 70% toward O&M
  - Maxville (beyond 2022): 35% toward capital & 65% toward O&M
  - Alexandria (2015-2022): 13% toward capital & 87% toward O&M
  - Alexandria(beyond 2022): 15% toward capital & 85% toward O&M

Average Annual Cost Per Connection Alexandria

	Current Costs per year	Projected Costs per year
Current Water costs	$700	$1,022
Bottled Water (some residents)	$360	$0
Total 2015-2022	**$1,060**	**$1,022**
Water costs	$800	$848
Potential Financing for water plant upgrades required in the future	$400	N/A
Total Beyond 2022	**$1,260**	**$848**

Average Annual Cost Per Connection Maxville

	Current Costs per year	Projected Costs per year
Water costs	$0	$1,245
Bottled Water (some residents)	$360	$0
Well maintenance (softener, electricity, replacement of pump) Does not include new well	$720	$0
Total 2015-2022	**$1,080**	**$1,245**
Water costs	$0	$1,077
Bottled Water (some residents)	$360	$0
Well maintenance	$720	$0
Total Beyond 2022	**$1,080**	**$1,077**

Other Costs associated with Hard Water in Maxville

- Reduced Lifespan of appliances
- Reduced lifespan of fixtures and piping
- Inability to sell homes or suppressed real estate values
- Impact on clothing and linens

Preliminary Connection Costs

- Alexandria
  - House connection in place – no cost
- Maxville
  - One time cost only to bring in services on private property
  - Will vary depending on distance from property line to house and type of reinstatement (ie grass, asphalt, interlock brick etc)

Item	Cost
Exterior Service from property line to building	$1,200
Well Decommissioning	$800
Interior Plumbing	$400
Water Meter	$0 (by Township)
Total (Approximate Cost)	**$2,400**

Preliminary Connection Costs

- Option to have Township fund connection costs over 5 or 10 years
- At 4% interest over 5 years
  - Monthly Cost $44
  - Annual Cost $528
- At 4% interest over 10 years
  - Monthly Cost $24
  - Annual Cost $288

Next Steps for Class EA Amendment

- Assess all comments received from the public and review agencies
- Finalize the EA Amendment document
- File the EA Amendment document
- Advertise the study completion and where the document can be reviewed(e.g. libraries)
- 30 day public review period
- Opportunity to submit comments on EA Amendment

Next Steps for Overall Project

- Continue with Detailed Design
- Continue to pursue federal and provincial funding
- Refine cost details
- Public consultation – another public meeting planned for spring 2013
- Design will be ready to proceed to construction by summer 2013
- Updates, including this presentation, will be on Township's website

Glengarry Regional Water Supply Project

Questions?

mhpm PROJECT LEADERS

CH2MHILL

J.L.Richards ENGINEERS · ARCHITECTS · PLANNERS

Glengarry Regional Water Supply Project
Public Meeting
Tuesday, November 27, 2012

ATTENDANCE REGISTER

NAME (PRINT)	ADDRESS	POSTAL CODE	TELEPHONE
Kyle McIntosh	7 Villeneuve Dr Maxville	K0C 1T0	613-288-2238
D FERGUSON	BOX 16	K0C 1T0	613-527-2991
K+S Johns	Box 342	"	613-527-2652
Dave Rector	9 mechanic st East	"	613 527 3377
GARY HOLDEN	31 CATHERINE ST. E	"	527-2885
Joan Lothian	23 Catherine St. E.	"	527-1229
Gilles Roy	Marcoux Road	K0C 1A0	525-1242
DON MACLEOD	25 JH 911 HWY RD		5275025
ANN STEWART	10 mechanic	K0C 1T0	527-5514
Barb Theoret	12 FAIR		527-5699
André Maheu	12 Fair		527-5699
Bill Munroe	55 Mechanic W		527 3013

Glengarry Regional Water Supply Project
Public Meeting
Tuesday, November 27, 2012

ATTENDANCE REGISTER

NAME (PRINT)	ADDRESS	POSTAL CODE	TELEPHONE
VICTOR MASSARI	#2 VICTORIA ST. FINCH, ONT	K0C1K0	984-2913
Cathy Poirier	11 Mechanic St. W. Maxville	K0C 1T0	
M. MacLeod	Maxville.	K0 C1T0	
Neil McCormick	Loch Garry	K0C1B0	527-2967
Valerie Andre	10 Mechanic St. E Maxville	K0C 1T0	613-527-1457
Rob Merriman	23 Alexander St. W.	K0C1T0	613-527-1336
Graham Winter	Box 43 Maxville	K0C1T0	527-2648
Elsie MacLeod	Maxville		527-5483
Lorna Blair	Maxville	K0C1T0	527-2839
Dennis Bourbonnais	Maxville	K0C1T0	527-2547
George Lievesley	Maxville	K0C1T0	527-2581
MARCEL LAMARCHE	CONC MAXVILLE #15.	K0C1T0	527-1467.

Glengarry Regional Water Supply Project
Public Meeting
Tuesday, November 27, 2012

ATTENDANCE REGISTER

NAME (PRINT)	ADDRESS	POSTAL CODE	TELEPHONE
François Lafleur	15 Catherine Street West	K0C 1T0	613 363 7561
Frasse Ouderkirk	Cornwall Gravel 340 11TH ST WEST		613 932 6571
Jeanne Michaud	Mechanic St W.	K0C 1T0	527-5994
N.A. Bussiere	CATHERINE ST. E MAXVILLE, ON	K0C 1T0	
Helen McIntosh	PO Box 545 Maxville	K0C 1T0	613-527-3217
Kenzie MacNeil	" " 366 "		
Elsie Bourbonnais	Maxville Ont.	K0C 1T0	613-527-2871
Jim & Olga Fournier	21 Main St. S. Maxville	K0C 1T0	613-527-1226
Betty Morrow	Box 367 Maxville	K0C 1T0	613-527-2416
Murray MacMillan	Avonmore	K0C 1C0	613-346-2653
Donna Addison	Maxville		613-527-2858
Eric Larocque	Maxville	K0C 1T0	613 527 2774

Glengarry Regional Water Supply Project
Public Meeting
Tuesday, November 27, 2012

ATTENDANCE REGISTER

NAME (PRINT)	ADDRESS	POSTAL CODE	TELEPHONE
RON LAFLEUR	1 King St	K0C-1T0	613-220-7052
MICHAEL ARCHI	18571 CON 5	K0C 1T0	613-527-5315
Donna Lerour	19 Peter St	K0C 1T0	613-527-2516
Claude Lerour	19 Peter St	K0C 1T0	613-527-2570
Joanne Theriault	2910 HIGHLAND Rd. P.O Box 226 maxville	K0C 1T0	613-527-1502
JEAN THERIAULT	2910 HIGHLAND Rd. P.O BOX 226 MAXVILLE	K0C 1T0	613-527-1502
TOM HANAFIN	PO BOX 56 MAXVILLE ONT	K0C 1T0	613-527-3244
GARY SHEPHERD	41 ST GEORGE ST E	K0C 1A0	613-525-3298
Lynn Macnab	RR1 Dalkeith	K0B 1E0	874-2838
ROB MACDOUGALL	MAXVILLE MANOR	K0C 1T0	527-2170 x230
Marc Bourdon	Conc 15, Maxville	K0C 1T0	613-527-2859
MARK + LORETTA LANDIMESSER	10 SPRING ST, MAXVILLE	K0C 1T0	613 527 1951

Glengarry Regional Water Supply Project
Public Meeting
Tuesday, November 27, 2012

ATTENDANCE REGISTER

NAME (PRINT)	ADDRESS	POSTAL CODE	TELEPHONE
BRUCE DUBEAU	21 PETER ST. MAXVILLE	KOC 1TO	527-1558
Terry Besner	15 Peter St Box 211 "	"	527-2817
Dale Allen	18 Catherine ST	"	527-3430
ERIN BLAIR	23 MECHANIC ST. W	"	527-5082
[illegible]	22 MARLBOROUGH ST	"	527-3207
Lionel Dennerville	3 Elizabeth St.	"	527-2148
Jacques Hebber	Glen [illegible] Main St	"	6138611328
Joanne Haley	South Glengarry Twp		613-347-1166
Jennifer Theriault	16 Catherine St E	"	613-527-5085
Jim Stephenson	22 CARR ST E	"	527-1438
[illegible] Ryan	75 Mechanic St.	"	527-9973
WALLY CUMMING	44 MAIN NORTH	"	527-2270

Glengarry Regional Water Supply Project
Public Meeting
Tuesday, November 27, 2012

ATTENDANCE REGISTER

NAME (PRINT)	ADDRESS	POSTAL CODE	TELEPHONE
PATRICK Farber	16 Catherine St E Maxville	K0C 1T0	613-527-5085
Sati Allingham	18 Peter	K0C 1T0	527-9972
Jim McDonell	Williamstown	K0C 2J0	347-1800
[illegible]			

GLENGARRY REGIONAL WATER SUPPLY PROJECT
CLASS ENVIRONMENTAL ASSESSMENT AMENDMENT

Tuesday, November 27, 2012

COMMENT SHEET

NAME: _____ **ADDRESS:** _____ _____	**PHONE NO. :** _____ **E-MAIL :** _____

Comments regarding Class EA Amendement Only (Location of Booster Pumping Station, location of Storage Tank, location of flow metering station, or transmission main routing):

The creative means by which the "upfront" approximate cost of $10,000 per household hidden not mentioned omitted not explained cost was unacceptable.

Comments regarding overall project:

Please leave this comment sheet in the box near the entrance or send your comments to:

Daniel Gagnon
Chief Administrative Officer
Township of North Glengarry
90 Main Street
Alexandria, Ontario
Phone: (613)525-1110
Ext 229
Email:danielgagnon@northglengarry com

André Bourque, P.Eng
CH2M HILL
330-1101 Prince of Wales Drive
Ottawa, Ontario
Phonee: (613) 723-0233
Ext. 73106
Email: abourque@ch2m.com

GLENGARRY REGIONAL WATER SUPPLY PROJECT
CLASS ENVIRONMENTAL ASSESSMENT AMENDMENT

Tuesday, November 27, 2012

COMMENT SHEET

NAME: JENN THERIAULT	**PHONE NO. :** 527-5085
ADDRESS: 16 Cathedral St E.	**E-MAIL :** JENNTHERRIO@GMAIL.COM

Comments regarding Class EA Amendement Only (Location of Booster Pumping Station, location of Storage Tank, location of flow metering station, or transmission main routing):

Comments regarding overall project:

I am so excited about this project! Finally, water I can drink! I look forward to growing Maxville and would love to help in any way. :)

Please leave this comment sheet in the box near the entrance or send your comments to:

Daniel Gagnon
Chief Administrative Officer
Township of North Glengarry
90 Main Street
Alexandria, Ontario
Phone: (613)525-1110
Ext 229
Email:danielgagnon@northglengarry com

André Bourque, P.Eng
CH2M HILL
330-1101 Prince of Wales Drive
Ottawa, Ontario
Phonee: (613) 723-0233
Ext. 73106
Email: abourque@ch2m.com

GLENGARRY REGIONAL WATER SUPPLY PROJECT
CLASS ENVIRONMENTAL ASSESSMENT AMENDMENT

Tuesday, November 27, 2012

COMMENT SHEET

NAME: PATRICK Faucher	**PHONE NO. :** 527 5085
ADDRESS: Catherine St E Maxville.	**E-MAIL :** patrickjfaucher@gmail.com

Comments regarding Class EA Amendement Only (Location of Booster Pumping Station, location of Storage Tank, location of flow metering station, or transmission main routing):

Have residents vote. Flow meters; is it really worth the cost. Will it prevent people from abusing very expensive, for nothing.

Fine with route; if we must dig up roads; worth replacing properly

Comments regarding overall project:

if this will increase residents / property value and you compare to water in Lancaster, do you have data that bringing water into Lancaster actually increased residents / Businesses / property value?

(2) Why must Maxville pay for Alexandria's debts. Either they pay their portion of project and debt, or we split ALL cost.

Please leave this comment sheet in the box near the entrance or send your comments to:

Daniel Gagnon
Chief Administrative Officer
Township of North Glengarry
90 Main Street
Alexandria, Ontario
Phone: (613)525-1110
Ext 229
Email:danielgagnon@northglengarry com

André Bourque, P.Eng
CH2M HILL
330-1101 Prince of Wales Drive
Ottawa, Ontario
Phonee: (613) 723-0233
Ext. 73106
Email: abourque@ch2m.com

GLENGARRY REGIONAL WATER SUPPLY PROJECT
CLASS ENVIRONMENTAL ASSESSMENT AMENDMENT

Tuesday, November 27, 2012

COMMENT SHEET

NAME: Marc Bourdon	**PHONE NO. :** 613-527-2859
ADDRESS: 18408 Conc 15 Maxville, Ont.	**E-MAIL :** marc@bourdon.ca

Comments regarding Class EA Amendement Only (Location of Booster Pumping Station, location of Storage Tank, location of flow metering station, or transmission main routing):

Need water connection to my farm (Poultry) at 18408 Conc 15.
& feed mill.

Marc Bourdon

Comments regarding overall project:

Also connect my house near Dommunionville, Ont. on County Rd 20 - (2207 Corty Rd 20)

Please leave this comment sheet in the box near the entrance or send your comments to:

Daniel Gagnon
Chief Administrative Officer
Township of North Glengarry
90 Main Street
Alexandria, Ontario
Phone: (613)525-1110
Ext 229
Email:danielgagnon@northglengarry com

André Bourque, P.Eng
CH2M HILL
330-1101 Prince of Wales Drive
Ottawa, Ontario
Phonee: (613) 723-0233
Ext. 73106
Email: abourque@ch2m.com

GLENGARRY REGIONAL WATER SUPPLY PROJECT
CLASS ENVIRONMENTAL ASSESSMENT AMENDMENT

Tuesday, November 27, 2012

COMMENT SHEET

NAME: MARCEL LAMARCHE- **ADDRESS:** CONCESSION #15 MAXVILLE 18349. KOC 1TO	**PHONE NO. :** 613-527-1467. **E-MAIL :** MARCEL.LAMARCHE@LIVE.COM

Comments regarding Class EA Amendement Only (Location of Booster Pumping Station, location of Storage Tank, location of flow metering station, or transmission main routing):

Comments regarding overall project:

HAVE TWO BROILERS FARMS (CHICKEN) AND IN NEED OF CONSTANT WATER SUPPLY (HAVE TO TRUCK IN IN DRY SPELLS) WOULD BE INTERESTED IN BEING ABLE TO TAP IN (1 KM) ON CONC #15 TO HIGHLAND ROAD (MORE TO HAVE TO HOUSE) ON THIS ROAD PLUS OTHER FARMS.

Please leave this comment sheet in the box near the entrance or send your comments to:

Daniel Gagnon
Chief Administrative Officer
Township of North Glengarry
90 Main Street
Alexandria, Ontario
Phone: (613)525-1110
Ext 229
Email:danielgagnon@northglengarry com

André Bourque, P.Eng
CH2M HILL
330-1101 Prince of Wales Drive
Ottawa, Ontario
Phonee: (613) 723-0233
Ext. 73106
Email: abourque@ch2m.com

GLENGARRY REGIONAL WATER SUPPLY PROJECT
CLASS ENVIRONMENTAL ASSESSMENT AMENDMENT

Tuesday, November 27, 2012

COMMENT SHEET

NAME: NATALIE BUSSIERE **ADDRESS:** 17 CATHERINE EAST MAXVILLE, ON	**PHONE NO. :** **E-MAIL :** natalie-bussiere@hotmail.com

Comments regarding Class EA Amendement Only (Location of Booster Pumping Station, location of Storage Tank, location of flow metering station, or transmission main routing):

Comments regarding overall project:

Would it be possible to provide info on the quality of water and the age of the infrastructure in Cornwall?

Thanks

Please leave this comment sheet in the box near the entrance or send your comments to:

Daniel Gagnon
Chief Administrative Officer
Township of North Glengarry
90 Main Street
Alexandria, Ontario
Phone: (613)525-1110
Ext 229
Email:danielgagnon@northglengarry com

André Bourque, P.Eng
CH2M HILL
330-1101 Prince of Wales Drive
Ottawa, Ontario
Phonee: (613) 723-0233
Ext. 73106
Email: abourque@ch2m.com

GLENGARRY REGIONAL WATER SUPPLY PROJECT
CLASS ENVIRONMENTAL ASSESSMENT AMENDMENT

Tuesday, November 27, 2012

COMMENT SHEET

NAME: D Gah	**PHONE NO. :** 613-861 1329
ADDRESS: 18105 County Rd 22 Maxville Ont K0C 1T0	**E-MAIL :**

Comments regarding Class EA Amendement Only (Location of Booster Pumping Station, location of Storage Tank, location of flow metering station, or transmission main routing):

Comments regarding overall project:

Sooner the better!

Please leave this comment sheet in the box near the entrance or send your comments to:

Daniel Gagnon
Chief Administrative Officer
Township of North Glengarry
90 Main Street
Alexandria, Ontario
Phone: (613)525-1110
Ext 229
Email:danielgagnon@northglengarry com

André Bourque, P.Eng
CH2M HILL
330-1101 Prince of Wales Drive
Ottawa, Ontario
Phonee: (613) 723-0233
Ext. 73106
Email: abourque@ch2m.com

Glengarry Regional Water Supply Project

Summary of Public Meeting: November 27, 2012

Attendees

- Township of North Glengarry:
  - Mayor Chris McDonell
  - Deputy Mayor Jamie MacDonald
  - Carma Williams, Maxville Ward Councillor
  - Jacques Massie, Alexandrias Ward Councillor
  - Jim Picken, Kenyon Ward Councillor
  - Gary Shepherd, Councillor at Large
  - Daniel Gagnon, CAO
- André Bourque and Leah Weller, CH2M HILL (Design Engineering Firm)
- Michael Paul, MHPM (Project Managers)
- Jeff Delaat and Phil Reeve, JL Richards (Planning Firm)

Background

In March 2010, the Township of North Glengarry completed a Schedule C Municipal Class Environmental Assessment (EA) that identified the preferred solution for providing drinking water to the villages of Maxville and Alexandria. The findings of the Class EA were documented in an Environmental Study Report (ESR). The solution consists of creating a regional water supply system where water is pumped from the City of Cornwall to Maxville and Alexandria. In additional to water transmission mains to convey water from Cornwall to Maxville and Alexandria, the Regional Water Supply also includes a new water booster pumping station (BPS) to be located in Martintown and a new elevated water storage tank in Maxville. The exact sites for the BPS and water storage tank were not identified in the ESR.

In the spring of 2012, the Township of North Glengarry was successful in securing funding to complete the design of the Regional Water Supply project. To complete the design, three components of the regional water supply system were evaluated as an addendum to the Class EA:

1. As part of the preliminary design, alternative sites for both new water BPS stations in Martintown were evaluated.

2. Alternative sites for and the new elevated water storage tank in Maxville were identified and evaluated.

3. An alternative route for the water transmission mains was identified and evaluated.

Upon selection of the technically preferred alternatives for these three components, the project team presented their selections to the public for review and comment at a Public Information Centre (PIC) in Maxville.

Glengarry Regional Water Supply Project

Summary of Public Meeting: November 27, 2012

PIC Outline

On Tuesday, November 27, 2012, a PIC was held from 6:00 pm to 8:00 pm at the Maxville Sports Complex, located at 25 Fair St., in Maxville, Ontario. From 6:00 pm to 7:00 pm attendees were encouraged to browse information panels displayed throughout the meeting room, and ask questions or provide comments to local councillors and the consulting staff present. From 7:00 pm to 8:00 pm a formal presentation was given, and attendees were given the opportunity to ask questions of the project team.

Media

Two journalists were present at the PIC, and spoke with the consultants as well as attendees on behalf of local news media.

General Comments from Attendees

Prior to the formal presentation, as attendees browsed information panels, they were given the opportunity to ask questions one-on-one of Township councillors and the consultants. During this time the following general comments were received:

• One attendee noted that he had moved into the area recently and did not receive an assessment notice or other information about the proposed water system in Maxville when he moved into his new house.

• One person commented that panels had too much jargon for the lay-person, and that even "EA" was not spelled out.

• One person commented after the formal presentation that the meeting was very well run.

Formal Presentation

Shortly after 7:00 pm the attendees were requested to take a seat and a formal presentation commenced. The Mayor Chris McDonell introduced the project team, who were sitting at the head of the room with local councillors, the Mayor, and the CAO (Daniel Gagnon).

André Bourque, from CH2M HILL started the presentation by outlining the changes to the completed EA that are addressed by this Addendum. Mr. Bourque also mentioned at the beginning of the presentation that comment sheets were available for attendees to fill out at the PIC, and that it is important that the project team obtain feedback from residents and review agencies.

Mr. Bourque outlined 2010 EA results, and stated that certain elements had been purposely left unfinished in that EA, and remained open pending further study. He explained that this EA studies those elements. He then presented the alternatives that were examined and the

preferred alternatives, providing the rationale for selecting each alternative. Mr. Bourque noted that the preferred alternatives will not be finalized until comments from the public and review agencies are reviewed.

Upon completion of Mr. Bourque's presentation, Michael Paul (MHPM) then explained to the audience the breakdown of costs associated with the proposed infrastructure. Mr. Paul explained how changes to the EA that came from this addendum would result in minor changes to the overall costs of implementing the water system extension due to slight changes in construction practices, as well as cost escalation as a result of missing information or incorrect assumptions that were made in the original cost estimate.

Mr. Paul then outlined the cost savings obtained as a result of changes to the preferred solution that arose from the addendum study, and showed the audience a map outlining the capital costs associated with each component of the proposed system. An overview of how the Township wishes to fund the capital costs of the system was given, and a breakdown of who will pay for which portions of the capital and operation and maintenance (O&M) costs for the system followed. Mr. Paul presented a cost comparison between the estimated annual costs associated with maintaining the existing water supply for an average Maxville and an average Alexandria household versus the estimated annual costs associated with obtaining water from the proposed system for an average Maxville and an average Alexandria household. It was reiterated that the funding assumptions made are based on 90% funding of capital costs from a combination of provincial and federal sources. It is hoped that the municipal cost commitment will be 9% North Glengarry and 1% South Glengarry.

Upon completion of the presentation, attendees were given an opportunity to ask questions and hear the project team's response in front of their peers. A summary of questions asked and responses given is provided in the table below.

Questions Asked by the Audience with Proponent/Consultant Responses:

If I keep my well for non-potable water, and disconnect it from the house, will it affect my property taxes by having two sources of water?

Unlikely, but we are not MPAC experts, so we will have to confirm this.

How far west on Mechanic St will the line go?

The water main extends past The Maxville Manor to the town limit.

Who would own and maintain the infrastructure and will they have the right to charge costs to Glendale when they connect in the future to bring costs down?

We have not determined yet who will own and operate system. This is currently under discussion.

Glengarry Regional Water Supply Project

Summary of Public Meeting: November 27, 2012

Are there any disadvantages of not having a Pumping Station (PS) in Maxville?

It will not lower water pressure or result in technical loss of quality, so removing the PS from planned infrastructure does not result in any disadvantages, which is why it was decided to have only one PS in Martintown.

Is there a back up for the PS in case something happens to it?

There are two duty and one standby pumps. There is also a standby power generator in case of power outage.

Will Martintown and Apple Hill be connecting to this water supply?

The system has been designed such that there is capacity to accommodate additional connections in Martintown and Apple Hill, however they are not connecting at this point. The decision to connect or not will come from the Township of South Glengarry.

What percentage of capacity is allocated to future growth?

Future connections in Martintown and Apple Hill have been accounted for plus a 1% per year growth factor in the communities of Maxville and Alexandria. This is a conservative estimate of capacity need as the population of these two communities is currently declining.

What is final cost to each resident for this water infrastructure, how long will it take to pay off and where will the cost be taken from? Do we have to hire a plumber to connect the house to the street, or can we do the plumbing ourselves?

The approximately $1200 annual cost to each resident includes the cost to pay for the anticipated 10% of capital costs not covered by provincial or federal funding. This will be charged on each connected property's water bill, and will not be charged to property taxes. The estimated cost to connect the house or business to the connection stub at the property line has been provided by an experienced contractor; however the town will not direct residents and businesses on how to connect their properties. They can select their own plumbing contractor or do it themselves if they wish.

What about fixed income people who can't afford the annual costs of connection. Will we be forced to sell our homes?

Township council and residents have decided that it is in everybody's best interest to have reliable, potable water in Maxville and Alexandria. Council understands that the costs may be high for some people, which is why the project will only go ahead with 90% funding. There will be some costs that each person is responsible for, and this is to be expected with any project that improves the wellbeing of the whole village.

Glengarry Regional Water Supply Project

Summary of Public Meeting: November 27, 2012

Can a person decide not to hook into system?

Everyone in Maxville within the noted boundaries will have to connect.

If I am located along the transmission main (TM), but not in Maxville, can I still connect?

There is a possibility of connecting outside of Maxville, however that decision will be made on a case-by-case basis, and the property owner will be responsible for the costs associated with the connection. If you are located in Maxville but not right on grid, or along the TM, contact you councillor and tell him or her your exact location and that you would like to connect to the system and we will examine the technical feasibility and costs associated with the connection.

What about vacant land, does it need to be connected?

You can pay at time of developing the property for a connection to the system, or you can have the connection made and stubbed at the vacant land. Only water users pay for their connection, as it is not associated with property taxes. It would be cheaper to connect when the line is being built in front of the property, however then you'd have to pay an annual rate for your stub, so depending on how long you plan on leaving the property vacant, you will have to determine which option is the most cost effective for you.

What if the property has business on it that does not currently have a well or running water?

If the property is a separate property from one with running water, and has no water currently, it would likely be considered an undeveloped lot. We will have to follow up.

What are the chances of actually getting the 90% provincial and federal funding?

It will be a challenge to obtain the funding this year, and perhaps next year as well, however stimulus funding tends to become available cyclically, and if it is not available next year, we are confident that it will be available in the near future. We will be in front of the line for funding when it is available. An MPP who was responsible for the installation of water infrastructure into South Lancaster communities noted that they received 80% funding from upper levels of government, so the cost per household was approximately $7000 to connect to the infrastructure. He explained that if you went to those communities now you would have a hard time taking water away from any of the residents because it resulted in community improvements and other investments, and an increase in property values. Despite the cost per household, he did not hear a single complaint from any of the residents or businesses. Spread over 20 years, the payments were still relatively affordable within the communities, which were demographically similar to Maxville and Alexandria.

Glengarry Regional Water Supply Project

Summary of Public Meeting: November 27, 2012

It was mentioned that ownership of the system could be jointly between North and South Glengarry or some other option; what are the other options?

Cornwall, North and South Glengarry or any combination of the three municipalities would retain ownership of the capital works. Operational responsibility could be one of or any combination of the three municipalities, or it could be contracted out to a private entity.

Could United Counties have any ownership?

They would be in a good position to operate the system from an administrative standpoint, however they do not have the technical expertise like Cornwall or North Glengarry.

You have shown that Alexandrians would pay a smaller portion of the capital costs, but Maxville will help to pay some of Alexandria's long term debt; does this make sense?

Although it makes sense for Maxville to pay a higher portion of the capital and operational costs, we will have to re-examine the debt repayment arrangement.

If a farm or business not located in Maxville or directly adjacent to the TM wants to connect, what would be the cost?

Right now we are not looking at adding new connection areas as we need to keep this project moving forward.

What side of the road does the pipe run along?

The pipe switches to east and west sides of Highway 20, depending on the location.

What size is the pipe running up Highway 20 up to Maxville?

It is a 250 mm diameter pipe.

Will it be constructed entirely by open trench methods?

Most of the installation will be done using open trenching due to soil conditions.

Given the 57 million dollar price tag for this project, if it goes over budget, will the 90% funding still be available and what will be my total cost as a resident?

We are still refining the net present value of the infrastructure for each property based on the number of businesses and number of residents in each community. Your share of the capital cost is included in the $1000-$1200 per year estimate, however if you wanted to pay the entire cost upfront, we could calculate those for you. We would have to do the math because you would be saving on interest costs. That is an option, however the annual payments will be much more manageable for most people.

So if I pay upfront I have no annual costs?

You still have to pay the water rate, which includes O&M costs, plus minimum flat rate, even if you use no water at all, and pay your share of the capital costs at the time of construction.

TOWNSHIP OF NORTH GLENGARRY

Glengarry Regional Water Supply Project

Notice of Class Environmental Assessment Addendum

UPDATE FOLLOWING PUBLIC MEETING

A Public Meeting was held on November 27, 2012 in Maxville to present information on the Glengarry Regional Water Supply Project. Specifically, the meeting served to present changes to the project that were being evaluated as part of an Addendum to the Schedule C Municipal Class Environmental Assessment (EA) completed in 2010.

One of the changes being evaluated is the change in routing of the water transmission main from Cornwall to Martintown. Following the public meeting, a third alternative was identified and evaluated.

Updated information relating to this new alternative is available for review, along with the public meeting presentation and other project details, on the Township of North Glengarry's website at http://www.northglengarry.ca/en/communityinformation/regionalwater.asp and at the Township of North Glengarry Town Hall (90 Main St., Alexandria, ON, K0C 1A0).

Interested members of the public and review agencies are encouraged to review the updated information and provide comments or feedback within the next 2-3 weeks. Once feedback has been received and addressed, the Class EA Addendum will be made available for review by the public, stakeholders, and review agencies.

Project contacts:

Mr. Daniel Gagnon
Chief Administrative Officer
Township of North Glengarry
90 Main St.
Alexandria, ON K0C 1A0
Phone: 613-525-1110 x229
Fax: 613-525-6149
e-mail: danielgagnon@northglengarry.ca

Mr. André Bourque
Consultant Project Manager
CH2M HILL
330-1101 Prince of Wales Dr.
Ottawa, ON K2C 3W7
Phone: 613-723-0233 x73106
Fax: 613-723-7489
e-mail: abourque@ch2m.com

Glengarry Regional Water Supply Project

UPDATE OF TRANSMISSION MAIN ROUTING

February 8, 2013

mhpm PROJECT LEADERS

CH2MHILL

J.L.Richards ENGINEERS · ARCHITECTS · PLANNERS

NORTH GLENGARRY ROAD

TOWNSHIP OF SOUTH GLENGARRY

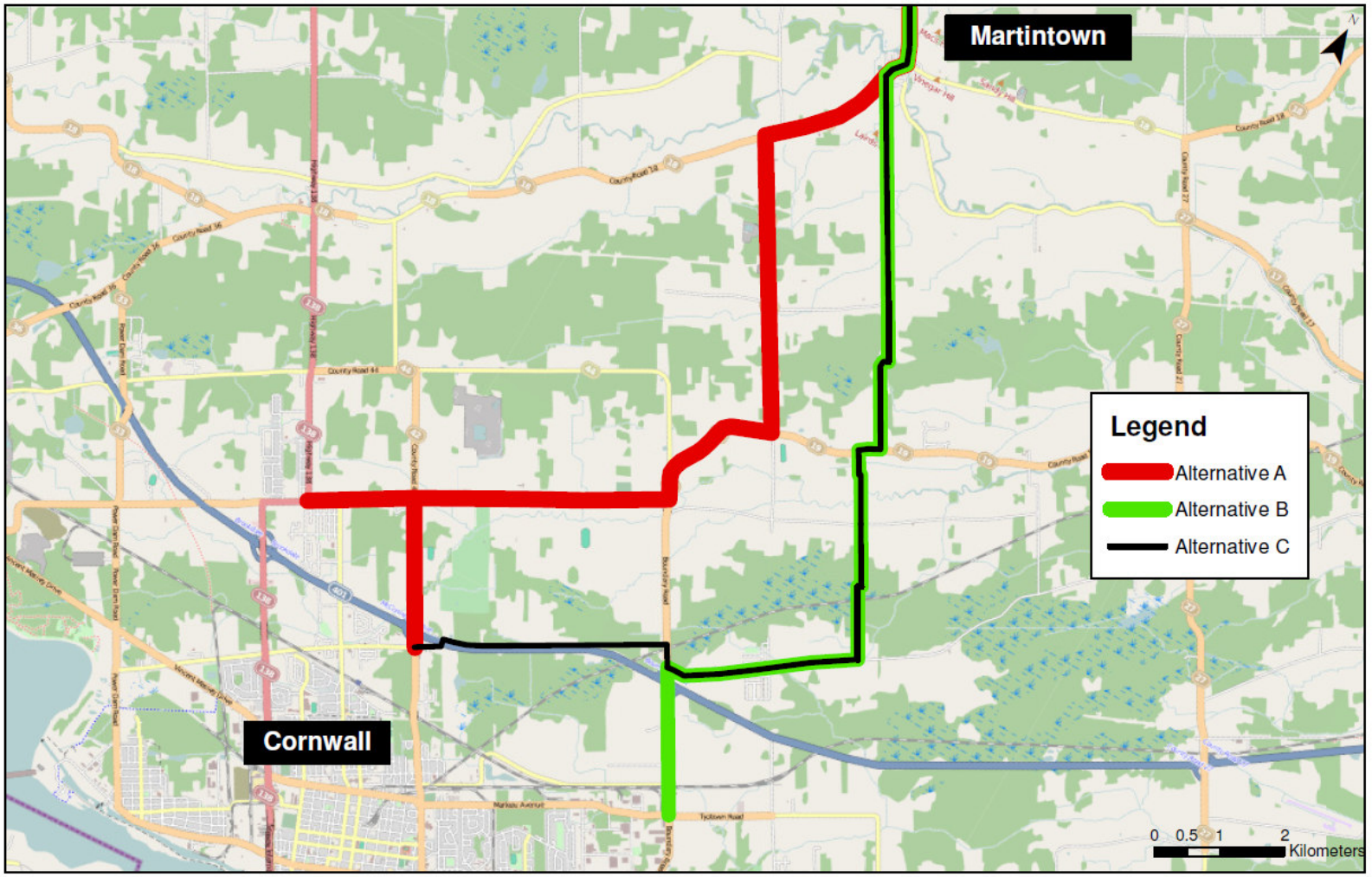
Purpose of Update

- Following the public meeting on November 27, 2012, another water transmission main route between Cornwall and Martintown was identified and added to the evaluation (this new alternative is referred to as Alternative C in these slides)
- Advantages of this new route (i.e. Alternative C) include:
  - No private property must be purchased to cross Highway 401
  - It facilitates servicing the Glendale Subdivision and the future Cornwall industrial park
  - Improved hydraulics at the connection point to the Cornwall water distribution system
- This update provides information related to the new transmission main alignment alternative and an update to the evaluation and resulting preferred alternative

Transmission Main Route Alternatives

- The map on the following slide shows the three alternative water transmission main routes between the City of Cornwall and Martintown
- This section of the transmission main is part of the overall routing to convey water from Cornwall to Maxville and Alexandria
- Glendale Subdivision is located along Glen Road to the east of Boundary Road. This community is currently on private wells, but has been identified as a community that may connect to the regional water system in the future.

Transmission Main Route Alternatives



Notes: Locations shown are approximate.

Revision Date: February 7, 2013

FIGURE 4-1
Tie-In Points and Transmission Main Routing
Glengarry Regional Water Supply Project

CH2MHILL

Transmission Main from Cornwall to Martintown – Alternative A

- Connects to the Cornwall water distribution system at Pitt-South Branch and McConnell-Tollgate
- Piping in Cornwall is installed along South Branch and McConnell
- From the intersection of South Branch Road and Boundary Road, the transmission main is routed along Boundary Road, County Road 19, County Road 20, and County Road 18 to Martintown
- Routing developed during the Class EA
- Does not allow convenient servicing of either the future Cornwall industrial park or Glendale Subdivision

Transmission Main from Cornwall to Martintown – Alternative B

- Connects to the Cornwall water distribution system at the Boundary Road at Tenth St intersection
- Piping is installed along Boundary Road and across Highway 401
- From the intersection of Boundary Road and Glen Road, the transmission main is routed along Glen Road, Cashion Road, Route 19, and Nine Mile Road to Martintown
- Does not allow convenient servicing of either the future Cornwall industrial park
- Highway 401 crossing would either require the purchase of private property or extensive pipe casings or inconveniently located valve/drain chambers
- Pressures at connection point in Cornwall are lower, more variable and more difficult to control than for the other two alternatives

Transmission Main from Cornwall to Martintown – Alternative C

- Connects to the Cornwall system at McConnell-Tollgate
- Piping in Cornwall includes piping Tollgate Road East, across Highway 401, along Service Road, and along Boundary Road to Glen Road
- From the intersection of Boundary Road and Glen Road, the transmission main is routed along Glen Road, Cashion Road, Route 19, and Nine Mile Road to Martintown

This is the New *Alternative*

Evaluation of Alternative Transmission Main Routes

Criteria	Alternative A – Pitt-South Branch and McConnell-Tollgate, CR 19, 20 and 18	Alternative B - Boundary, Glen, Cashion, CR 19 and Nine Mile Rd	Alternative C – Tollgate, Service, Boundary, Glen, Cashion, CR 19 and Nine Mile Rd
Technical	Longer route than Alt 2 (approx 2.4 km longer)	Shortest route	Longer route than Alt 2 (approx 2.6 km longer)
	Crossing of Hwy 401 consistent with Class EA	Crossing of Hwy 401 requires purchase of private property or extensive pipe casings	Simpler crossing of Hwy 401; no need to buy private property
	Preferred operationally by Cornwall compared with Alt B due to connection near elevated storage tank	Potentially worsens water pressure decreases along Boundary Rd during high water demands	Preferred operationally by Cornwall compared with Alt B due to connection near elevated storage tank
	Does not facilitate servicing of Glendale Subdivision	Facilitates servicing of Glendale Subdivision	Facilitates servicing of Glendale Subdivision
	Does not facilitate future servicing of the Cornwall Industrial Park	Does not facilitate future servicing of the Cornwall Industrial Park	Facilitates servicing of the Cornwall Industrial Park
	Higher and more stable pressure at connection point in Cornwall	Pressure at connection point in Cornwall lower, more variable, and more difficult to control	Higher and more stable pressure at connection point in Cornwall
Social	Traffic disruptions on “main” roads during construction	Traffic disruptions along “secondary” roads during construction	Traffic disruptions along “secondary” roads during construction
Natural Environment	Along road shoulders or within road	Passes through Provincially Significant Wetland along Cashion Road	Passes through Provincially Significant Wetland along Cashion Road
Economic	Construction cost similar to Alt 3 and $1M more than Alt 2. Watermain to	Lowest construction cost. Watermain to service Cornwall’s future industrial	Construction costs similar to Alt 1 and $1M more than Alt 2. Allows

Preferred Transmission Main Route

Alternative C is Preferred Route

- Advantages of this preferred transmission main route include:
  - Improved hydraulics at connection point in Cornwall due to higher and more stable pressure
  - No need to purchase private property for Highway 401 crossing
  - Future servicing of Glendale Subdivision facilitated
  - Future servicing of Cornwall's Industrial Park facilitated

Bourque, Andre/OTT

From: Mitchell, Vicki (ENE) [Vicki.Mitchell@ontario.ca]
Sent: Wednesday, April 10, 2013 3:39 PM
To: Bourque, Andre/OTT
Cc: danielgagnon@northglengarry.ca; Peets, James (ENE); Schaefer, Damien (MAH); Orpana, Jon (ENE)
Subject: RE: Glengarry Regional Water Supply Project - Draft EA Addendum

Hi Andre,

Thank you for providing a copy of the draft addendum. The proposed project involves extending the municipal water system from the City of Cornwall to service Maxville and Alexandria. The 2013 addendum to the 2010 ESR identifies the new proposed connection points to the Cornwall water distribution system, and sites for the flow metering station, Martintown Booster Pumping Station, and Maxville Water Storage Tank.

MOE staff do not have objections to the proposed project, but I would like to reiterate my comments on the service area. These comments are similar to my comments on the 2010 ESR.

It is my understanding from the ESR that Martintown, Apple Hill and Dominionville would be added to the system after additional environmental assessment work is done (page 60, ESR). I support this approach.

The ESR indicated that there would not be hook-ups along the transmission main. However, the addendum indicates that connections along the transmission main and in areas on private services (Glendale Subdivision in Cornwall) may be considered.

- Section 2.1 of the Addendum states that the new proposed configuration makes it technically feasible to connect residences along the transmission main route.
- Table 4-3 indicates that the preferred alternative (alternative C) would allow servicing of the Glendale Subdivision and the future Cornwall Industrial Park.
- The November 27, 2012 meeting minutes (appendix) discussed the question of whether properties along the transmission main but outside of Maxville could connect, and indicated that connections would be examined on a case-by-case basis.
- The February 8, 2013 presentation slides (appendix) indicate that the Glendale Subdivision is currently on private wells, but may connect to the regional water system. The addendum does not indicate whether this subdivision is also on septic systems, or whether it is serviced with the municipal sewage system.
- The Frequently Asked Questions (appendix) indicate that residents along the transmission main cannot connect to the water system.

The addendum does not discuss whether there are water quality issues along the transmission main or in the Glendale Subdivision. The 2005 Provincial Policy Statement states that partial services (for example, municipal water in the absence of municipal sewers) shall only be permitted where they are necessary to address failed individual on-site services and within settlement areas (section 1.6.4.5). Settlement areas shall be the focus of growth (1.1.3.1). Planning authorities shall establish and implement phasing policies to ensure the orderly progression of development within designated growth areas (1.1.3.8). MOE recommends that areas serviced with municipal water services also be serviced with municipal sewage services. Where new development, or servicing of existing development, is proposed on partial services, we recommend that the EA documentation demonstrate that there are problems with on-site services and that development is within a settlement boundary.

It is my understanding that the Counties of Stormont, Dundas and Glengarry are working with the Ministry of Municipal Affairs and Housing to define settlement area boundaries within the counties. I have sent a copy of this email to Damien Schaefer at MAH so that he is aware of MOE comments on the Maxville and Alexandria servicing project.

The addendum indicates that the Township of North Glengarry will consult with the Raisin Region Conservation Authority on water course crossings. MOE staff support this approach.

The Stakeholder List for the EA Amendment references an incorrect address for the MOE Eastern Region office. We are no longer at 133 Dalton Avenue – we have moved to 1259 Gardiners Road in Kingston. My contact information is included below, for your reference.

If you have questions or concerns about these comments, please feel free to contact me by phone or email.

Vicki Mitchell
EA and Planning Coordinator
MOE Eastern Region
1259 Gardiners Road, P.O. Box 22032
Kingston, ON K7M 8S5

(613) 540-6852

From: Andre.Bourque@ch2m.com [mailto:Andre.Bourque@ch2m.com]
Sent: March 15, 2013 6:09 PM
To: Moore, Kathryn - Kingston (MTO); curtis.lazore@akwesasne.ca; kim.macdonald@rrca.on.ca; Mitchell, Vicki (ENE)
Cc: michael.paul@mhpm.com; danielgagnon@northglengarry.ca
Subject: Glengarry Regional Water Supply Project - Draft EA Addendum

Hello,
Attached is the draft Class Environmental Assessment Addendum for the Glengarry Regional Water Supply project for your review.
We have previously contacted you regarding this project. As a reminder, the project is being undertaken by the Townships of North and South Glengarry to convey drinking water from the City of Cornwall to the Townships. Phase 1 is to service Maxville and Alexandria, where water quality and quantity issues have been well documented over the years. Phase 2 would potentially involve connecting additional communities such as the Glendale Subdivision, Martintown, Apple Hill, Dominionville, etc.

The Class EA was completed in 2010. The attached draft EA Addendum covers:

1. Identifying a preferred site for a booster pumping station in Martintown
2. Identifying a preferred site for an elevated water storage tank in Maxville
3. Identifying a preferred water transmission main tie-in point in Cornwall and a preferred route between Cornwall and Martintown

As noted in the draft EA Addendum, the archaeological and natural environment investigation reports are available for reference on the Township of North Glengarry's website at:
http://www.northglengarry.ca/en/communityinformation/regionalwater.asp

We would appreciate if you could review this draft EA Addendum and provide us any comments within the next two weeks. Once we have received your comments, we will finalize the EA Addendum and issue it for the 30-day public review. We will also notify you when the final EA Addendum is being filed.

Please let me know if you have any questions. Please also let me know if you do not anticipate being able to provide comments within two weeks.

Thanks,
André Bourque, P.Eng.
Project Manager
CH2M HILL
1101 Prince of Wales Dr., Suite 330
Ottawa, ON K2C 3W7
Direct 613.723.0233 x73106

Fax 613.723.7489
Mobile 613.762.9723
www.ch2mhill.com

Frequently Asked Questions - Glengarry Regional Water Supply Project

General and Project Organization

1. **What is the Glengarry Regional Water Supply Project (GRWS)?**
   The Glengarry Regional Water Supply Project (GRWS) is a solution to address water quantity and quality challenges in the villages of Maxville and Alexandria. The project consists of installing a watermain and related pumping and storage infrastructure to take high quality drinking water from the City of Cornwall into Maxville and Alexandria. The pipe will be designed to make sure that other communities along the route like Glendale, Martintown, Apple Hill and Dominionville will be able to connect sometime in the future, if necessary. The project passed a Municipal Class Environmental Assessment in late 2010.

2. **If it's a regional project, who is really leading this project, who are the other municipal stakeholders?**
   The Township of North Glengarry is leading the project.
   The other municipal stakeholders include the Township of South Glengarry and the City of Cornwall.

3. **Why is the Township of North Glengarry leading this project?**
   The Township of North Glengarry is leading the project because the main reason for advancing the project is to provide a reliable supply of high quality water to its residents in Maxville and Alexandria.

4. **Will I be forced to hook up to the new water line?**
   Residents within the village of Maxville will have to connect to the water system. Later during the project design process, Maxville residents will be contacted to determine the location for the new water service that will serve their homes. Residents along the transmission main cannot connect to the water system. Alexandria will be serviced by the new water supply. The distribution system within Alexandria to homes and businesses will not change.

Status and Schedule

5. **What is the current project status?**
   The Township of North Glengarry was able to secure 90% funding from the Province of Ontario to design the project and to get the project ready to go to tender. That way, when and if funding is secured for the capital phase, the project will be ready to proceed.

   The design contract was awarded to the engineering firms of CH2M HILL and JL Richards in March 2012. The design is underway and scheduled to be completed in the spring of 2013. Initial steps in the design process include selecting locations for a pumping station (in or near Martintown) and a water storage tank in Maxville. Alternative sites will be presented at a future public meeting. Topographic surveying and geotechnical investigations will be on-going through the summer, so you will likely see survey crews and drill rigs along the route from Cornwall.

6. **When will the construction phase happen and when will the new system be operational?**
   The design will be completed by spring 2013. The project will be ready to proceed to construction at that time, pending successful receipt of funding assistance. Securing funding may take more time, but the design will be ready so the project can quickly move to construction with little delay as soon as funding is secured.

   Construction is estimated take about two years to complete, so the earliest that the system could be operational would be in 2015. Once again, this is funding dependent.

7. **If this project goes ahead, how long will it last? Will I be asked to pay for another project like it in a few years?**

   Construction is expected to take just under two years. Once in service, there will be no need for the Township to undertake any similar large scale water supply projects for the foreseeable future.

Project Financials

8. **What is the expected total project cost?**
   Preliminary cost estimates suggest that the total project cost, including project management and engineering will be over $50 million

9. **How can our township afford this size of project?**
   There is no doubt the project represents a significant investment by the township in the long-term supply of water to its residents. Funding assistance from other levels of government (provincial and/or federal) will be needed to make the project financially viable. Thankfully, project costs can be factored over a long period of time. The design phase will include a business planning component that will detail options on how to pay for the new system.

10. **If the design phase is funded at 90%, will the construction phase also be funded at 90%?**
    The Township is aggressively pursuing funding assistance for the project. The goal is to obtain as much funding assistance as possible for the project. Another goal of the design work is to explore innovative approaches to reduce the overall costs. The Township has challenged the engineers to develop a cost-effective design solution to reduce both capital and operational costs while preserving safety and quality of the system.

11. **How much is this going to cost taxpayers and water ratepayers in North Glengarry? Will the other municipalities pay their share?**
    Project costs, costs to water users, and cost sharing agreements with the other stakeholders will be developed through the course of the design and will be communicated with residents at future public meetings.

    The final cost to water users will depend on the funding assistance received by the federal and/or provincial governments and will be communicated with residents at a future public meeting.

12. **What is the probability that the township can obtain funding assistance for such a costly project? What if funding is not obtained?**
    The fact that the Province is funding the design stage of the project (90% of $3.1 million) is a positive sign that the need for this project is justified. That said, the township recognizes that obtaining funding for the construction phase will be challenging in these difficult economic times.

    If funding for the construction phase is not obtained, the project will not proceed.

13. **Will the township need to purchase land for this project?**
    Most or all of the watermain pipes will be installed within existing municipal rights of way. For the water pumping station, metering and storage tank sites, preference will be given to the selection of existing municipally-owned sites. If for technical reasons this is not possible, the purchase of land will be considered.

14. **Who pays for getting water into my house from the watermain? What will that cost?**
    Typically, for this type of project, the municipality pays to have a water service installed to the property line. It is the resident's responsibility to extend the water service into their basement and connect to the plumbing. The water meter will be supplied by the Township and typically a connection fee is paid by the residents. The Township is currently looking into the details of the costs to the residents and will explore options for residents to finance any upfront costs over a long term period or to have the connection costs included in the funding applications to the federal and provincial governments. Once the design firm has completed the preliminary design, it will complete an initial project cost estimate. This cost estimate and subsequent cost breakdown for residents will be available in September or October 2012 and will be communicated to the public at that time.

Alexandria Residents

15. **Alexandria already has a drinking water source. Why does it need water from the St Lawrence through Cornwall?**

    In recent years, fluctuating water conditions and changing water chemistry in Mill Pond have increased the complexity and cost of water treatment and caused other operational challenges. There are concerns regarding the volume of water available from the Mill Pond and its ability to provide the long-term water demands of the community. Mill Pond is a relatively small and shallow water supply resulting in significant water quality fluctuations. It is also vulnerable to various impacts from ice cover, including blockage of the water treatment plant intake and the channels between the lakes that feed Mill Pond,

    The new water line will supply a sustainable, reliable water supply to Alexandria for many years to come.

Maxville Residents

16. Will the new water supply be metered?

Yes, water meters will be installed at each connection to the water system. Metering has been found to be an effective approach to encouraging water conservation and is a fair way to bill for water usage.

17. I live in Maxville and have a well now. Will I be able to keep my well in service after connecting to the new water supply?

Yes, you will be able to keep your well for outdoor water usage, however, you will have to permanently disconnect it from your plumbing and provide a letter from a plumber confirming that this has been done.

Residents that wish to no longer use their wells will have to decommission them to meet Ministry of the Environment requirements. The Township will be exploring ways to make this as affordable to residents as possible.

Residents Outside Alexandria and Maxville

18. I live in the country; will I be able to hook up to the new water line if it passes near my property?

Residences along the transmission main cannot connect to the water system. The system is designed only for those communities along the route to connect if the township sees the need and applies for approval.

19. I live in the country and have a well; will this project have an impact on my property taxes?

Residents along the transmission main cannot connect to the water system; therefore, you will not be impacted by the project.

Next Steps

20. When will the Township be contacting residents further about this Project?

A general project update that will outline the work completed to date and next steps will be presented at the August 13, 2012 Council meeting. Another public meeting to discuss project costs will be held in September or October 2012. Notices for these meetings and all future meetings will be placed in the local newspapers and posted on the Township website. The Township has also set up a page on its website where it will post updates. Simply go to **www.northglengarry.ca** and click on the “Regional Water” button.

Glengarry Regional Water Supply Project
Stakeholder List for EA Amendment

Agency	Name	Address	Phone(s)	E-mail
MUNICIPAL AGENCIES				
Township of South Glengarry	Ewen MacDonald, General Manager Infrastructure Services	Township of South Glengarry 6 Oak Street, P.O. Box 220 Lancaster, ON, K0C 1N0	(P) 613-347-1166 x228 (F) 613-347-3411	ewen@southglengarry.com
City of Cornwall	Normand Levac, General Manager of Infrastructure & Municipal Works			nlevac@cornwall.ca
United Counties of Stormont, Dundas & Glengarry	Benjamin DeHaan, P.Eng.	26 Pitt St. Suite 223 Cornwall, ON, K6J 3P2	(P) 613-932-1515 x262	bdehaan@sdgcounties.ca
PROVINCIAL AGENCIES				
Ontario Ministry of the Environment, Technical Support	Vicki Mitchell EA Coordinator	133 Dalton Ave PO Box 820 Kingston ON K7L4X6	(P) 613-549-4000 X2614	Vicki.Mitchell@ontario.ca
Ontario Ministry of the Environment (MOE), Cornwall District Office	James Peets	113 Amelia St. Cornwall ON K6H 3P1	(P) 613-933-4789 (F) 613-933-6402	James.peets@ontario.ca
Raisin River Conservation Authority (RRCA)	Kimberley MacDonald, Manager of Planning & Regulations	P.O. Box 429 18045 County Rd 2 Cornwall ON, K6H 5T2	(P) 613-938-3611 x242 (F) 613-938-3221	kim.macdonald@rrca.on.ca
Ministry of Natural Resources (MNR), Kemptville District	Anda R. Rungis, District Planner	10 Campus Drive, Kemptville, ON K0G 1J0	(P) 613-258-8414 (F) 613-258-3920	anda.rungis@ontario.ca
South Nation Conservation Authority (SNCA)	Jennifer Boyer, Senior Planner	Planning and Engineering 38 Victoria Street. P.O. Box 29 FINCH, ON K0C 1K0	(P) 613-984-2948 (F) 613-984-2872	jboyer@nation.on.ca
Ministry of Aboriginal Affairs	Ms. Heather Levecque, Manager Consultation Unit, Aboriginal Relations and Ministry Partnerships Division Technical Contact: MS. Ashley Johnson, Advisor Strategic Policy and Planning Division	9th Floor, 160 Bloor Street East Toronto ON M7A 2E61	T: (416) 325-4044 F: (416) 326-1066 T: (416) 326-6313	Heather.Levecque@ontario.ca Ashley.Johnson@ontario.ca
Ministry of Agriculture, Food & Rural	Mr. John O'Neill, Rural Planner	Box 2004, ORC Building,	T: (613) 258-8341	john.o'neill@ontario.ca

Agency	Name	Address	Phone(s)	E-mail
Affairs	Environmental & Land Use Policy Food Safety and Environmental Policy Branch	Kemptville ON K0G 1J0	T: (613) 258-8341	
Ministry of Tourism and Culture	Ms. Katherine Kirzati, Heritage Planner Culture Services Unit Programs and Services Branch	401 Bay Street, Suite 1700 Toronto ON M7A 0A7	T: (416) 314-7643 F: (416) 212-1802	Katherine.kirzati@ontario.ca
Ministries of Citizenship and Immigration, Tourism and Culture, and Health Promotion	Ms. Valerie Andrews, Manager East Region	347 Preston Street, 4th Floor Ottawa ON K1S 6B7	T: (613) 742-3366 F: (613) 742-5300	Valerie.andrews@ontario.ca
Ministry of Infrastructure	Jamie Austin, Manager Growth Policy Ontario Growth Secretariat	777 Bay Street, 4th Floor, Suite 425 Toronto ON M5G 2E5	T: (416) 325-5794 F: (416) 325-7403	Jamie.austin@ontario.ca
Ministry of Health and Long-Term Care	Sylvia Shedden Director, Environmental Health Branch Public Health Division	2nd Floor, 5700 Yonge St Toronto ON M2M 4K5	T: (416) 327-7426 F: (416) 327-0984	Sylvia.shedden@ontario.ca
Eastern Ontario Health Unit		1000 Pitt Street Cornwall, ON K6J 5T1	Tel : 613-933-1375 Fax : 613-933-7930	info@eohu.ca (invalid)
Ministry of Municipal Affairs &Housing	Eastern Municipal Services Office Mr. Michael Elms, Manager Community Planning and Development	8 Estate Lane, Rockwood House Kingston ON K7M 9A8	T: (613) 545-2132 F: (613) 548-6822	Michael.elms@ontario.ca
Ministry of Transportation (MTO)	Kathryn Moore, Regional Director	Postal Bag 4000, 355 Counter Street Kingston ON K7L 5A3	T: (613) 544-2220 F: (613) 545-4821	Kathryn.Moore@ontario.ca
FEDERAL AGENCIES				
Mohawks Council of Akwesasne	Curtis Lazore, Researcher, Aboriginal Rights and Research Office Henry Lickers, Biologist Grand Chief Mike Mitchell Executive Assistant: Karla Ransom	P.O. Box 579 Cornwall, ON K6H 5T3	613-575-2348 ext. 2203 613-575-2348 ext. 2250	Curtis.lazore@akwesasne.ca Henry.lickers@akwesasne.ca karla.ransom@akwesasne.ca
Aboriginal Affairs and Northern Development Canada, General Contact	Environmental Unit Environment & Natural Resources Lands and Trusts Services	25 St. Clair Avenue East, 8th Floor Toronto ON M4T 1M2		EAcoordination_ON@inac-ainc.gc.ca

Agency	Name	Address	Phone(s)	E-mail
Aboriginal Affairs and Northern Development Canada, Specific Federal Land Claims in Ontario	Mr. Don Boswell, Senior Claims Analyst, Ontario Research Team Specific Claims Branch	10 Welling ton St. Room 1310 Gatineau QU K1A 0H4	T: (819) 953-1940 F: (819) 997-9873	Boswelld@inac.gc.ca
Aboriginal Affairs and Northern Development Canada, Comprehensive Land Claims in Ontario	Ms. Allison Berman, Program Officer Consultation & Accommodation Unit	300 Sparks Street, Room Ottawa ON K1A O4A	T: (613) 943-5488	Allison.Berman@inac-ainc.gc.ca
Aboriginal Affairs and Northern Development Canada, Federal Programs for Metis, Non-Status Indians and Urban Aboriginal Peoples	Mr. Jeffrey Betker, Senior Policy Analyst Office of the Federal Interlocutor for Métis and Non-status Indians	66 Slater Street - Room 1218 Ottawa ON K1A 0H4	T: (613) 992-7037 F: (613) 996-1737	Jeffrey.betker@inac.gc.ca
Environment Canada	Rob Dobos, Manager Environmental Assessment Section Environmental Protection Operations Division - Ontario Region Staff Contact: Sheila Allen, Senior EA Officer (same office)	P.O. Box 5050, 867 Lakeshore Rd. Burlington ON L7R 4A6	T (905) 336-4953 F (905) 336-8901 T: (905) 336-4948 F: (905) 336-8901	rob.dobos@ec.gc.ca sheila.allan@ec.gc.ca
Canadian Environmental Assessment Agency	Louise Knox, Regional Director Ontario Region	55 St. Clair Avenue East, 9th Floor Toronto ON M4T 1M2	T: (416) 952-1575 F: (416) 952-1573	Louise.Knox@ceaa-acee.gc.ca
Department of Fisheries and Oceans	Georgina Williston Fish Habitat Biologist	401 King St. W. Prescott ON K0E 1T0	T: (613) 925-2865 x131	Willistong@dfo-mpo.gc.ca
Algonquins Consultation Office	Mr. Jim Hunton	31 Riverside Drive, Suite 101 Pembroke, ON K8A 8R6	T: 613-735-3759 F: 613-735-6307	junton@jp2g.com
Ottawa Region Métis Council	Daniel Bilbeau, President	528-740 Springland Drive Ottawa, ON K2J 2G2	T: 613-859-4782	president@Ottawametis.ca
Métis Nation of Ontario Head Office	Mark Bowler		T: 416-977-9881	markbowler@metisnation.org