

**Report to
Rapport au:**

**Agriculture and Rural Affairs Committee
Comité de l'agriculture et des affaires rurales
5 July 2018 / 5 juillet 2018**

**and Council / et au Conseil
July 11, 2018 / 11 juillet 2018**

**Submitted on June 24, 2018
Soumis le 24 juin 2018**

**Submitted by
Soumis par:**

**Lee Ann Snedden, ,
Director / Directrice**

Planning Services / Services de la planification

**Planning, Infrastructure and Economic Development Department / Direction
générale de la planification, de l'infrastructure et du développement économique**

Contact Person / Personne ressource:

**Tessa Di Iorio, Risk Management Official / Responsable de la gestion des risques
(613) 580-2424, 17658, Tessa.diiorio@ottawa.ca**

and / et

**Cheryl McWilliams, Planner III / Urbaniste II, Development Review Rural / Examen
des demandes d'aménagement ruraux
(613) 580-2424, 30234, Cheryl.McWilliams@ottawa.ca**

Ward: RIDEAU-GOULBOURN (21)

File Number: ACS2018-PIE-PS-0085

**SUBJECT: Richmond West Municipal Well System - Endorsement of
Amendments to the Mississippi-Rideau Source Protection Plan**

**OBJET: Système de puits municipaux à l'ouest du Village de Richmond -
Approbation des modifications apportées au Plan de protection des
sources de Mississippi-Rideau**

REPORT RECOMMENDATION

That the Agriculture and Rural Affairs Committee recommend Council approve the resolution provided in Document 2 regarding the endorsement of amendments to the Mississippi-Rideau Source Protection Plan to include the new Richmond West municipal drinking water system, pursuant to Section 34 of the *Clean Water Act* that requires a resolution from Municipal Council to endorse proposed amendments to a Source Protection Plan.

RECOMMANDATION DU RAPPORT

Que le Comité de l'agriculture et des affaires rurales recommande au Conseil d'adopter la résolution d'appui aux modifications apportées au Plan de protection des sources de Mississippi-Rideau, telle qu'elle est présentée dans le document 2, afin d'y inclure le nouveau système de puits municipaux du Village Richmond Ouest, conformément au paragraphe 34 de la *Loi de 2006 sur l'eau saine*, qui prévoit que le Conseil doit adopter une résolution en appui aux modifications proposées au Plan de protection des sources.

BACKGROUND

Learn more about [link to Development Application process - Zoning Amendment](#)

For all the supporting documents related to this application visit the [link to Development Application Search Tool](#).

Site location

6350 Perth Street, Village of Richmond

Owner

Richmond Village Developments and Mattamy Homes

Description of site and surroundings

The well block lies on the south side of Perth Street at the western edge of the Village of Richmond. The currently proposed distribution system includes primarily the lands for the first phase of the Draft Approved Subdivision, now known as Fox Run. The wells and distribution system will service all of the Western Development Lands north and south of Perth and Ottawa Streets within the Village of Richmond as defined by the Richmond Secondary Plan.

Brief history of proposal

Drinking water source protection is legislated under Ontario's *Clean Water Act*. A new municipal well system (Richmond West well system) will supply drinking water to the new residential development within the Richmond Western Development Lands. Since the Richmond West well system will be owned and operated by the municipality, it will be subject to the requirements of the *Clean Water Act*. As such, a drinking water protection zone (Wellhead Protection Area) must be identified within the local Source Protection Assessment Report and policies to protect the drinking water source must be established through incorporation into the local Source Protection Plan.

Recent amendments to Ontario's *Safe Drinking Water Act* requires that the local Source Protection Plan be updated and approved by the Ontario Ministry of the Environment and Climate Change before water is provided to the public.

This report outlines the process and requirements to update the local Source Protection Assessment Report and Source Protection Plan to include the Richmond West well system.

DISCUSSION

Consultation Details

Amendments to the Rideau Valley Source Protection Assessment Report and the Mississippi-Rideau Source Protection Plan will be subject to notification and public consultation after Council endorsement, as prescribed by the *Clean Water Act*.

Official Plan designation

The Official Plan designation is Village on Schedule A. Schedule K shows Wellhead Protection Areas and vulnerability scores for all municipal well systems in the City, and will require updating upon revisions being accepted to the Wellhead Protection Areas.

Richmond West Municipal Well System – *Clean Water Act* Requirements and Current Status

The *Clean Water Act, 2006*, is an important part of Ontario's multi-barrier approach to protecting drinking water. The *Clean Water Act* establishes source protection areas and a process for the development of local Assessment Reports and Source Protection Plans within each area. Studies that delineate the location and extent of drinking water protection zones (Wellhead Protection Areas around a municipal well or Intake Protection Zone around a municipal surface water intake) and threats to drinking water

sources are summarized in an 'Assessment Report', while a 'Source Protection Plan' outlines policies to protect water sources within drinking water protection zones. Together, these documents identify areas vulnerable to contamination, provide vulnerability scoring within those areas, identify where drinking water threats must be addressed and establish policies to address those threats. Conservation Authorities, where present, were designated as Source Protection Authorities and mandated to administer the Source Water Protection Program, including the establishment of local Source Protection Committees and the development of Assessment Reports and Source Protection Plans.

The City has identified a municipal communal well system (Richmond West well system) as the means to service the Western Development Lands, a new residential development within Richmond. The Master Servicing Study, Community Design Plan and the Secondary Plan for the Village of Richmond confirm the servicing approach was approved by City Council on July 14, 2010 and indicates that the Richmond West well system would be owned and operated by the City, thus the legislative requirements of the *Clean Water Act* apply.

Under the *Clean Water Act*, the Rideau Valley Source Protection Area Assessment Report and the Mississippi-Rideau Source Protection Plan must be amended to include the new municipal system. Furthermore, recent regulatory amendments to Ontario's *Safe Drinking Water Act* were approved in April 2018 (effective date July 1, 2018) which establishes timelines for source protection studies for new and expanding drinking water systems. The *Safe Drinking Water Act* amendments identify that the local Source Protection Plan must be amended and approved by the Ontario Ministry of the Environment and Climate Change before water is provided to the public from new or expanding drinking water systems.

Section 34 of the *Clean Water Act* requires a Municipal Council resolution to endorse amendments to the Assessment Report and Source Protection Plan prior to public consultation or submission of amendments to the Ontario Ministry of the Environment and Climate Change by the Source Protection Authority. This ensures that Council is aware of the extent of the new drinking water protection zones and policies that will apply within the zones, where applicable. The purpose of this report is to inform Council of the legislative requirements under the *Clean Water Act*, present maps of the new drinking water protection zones, identify policies that will apply for Richmond West well system and provide a summary of existing potential significant drinking water threats for the Richmond West well system and other adjacent affected well systems.

Note that groundwater extraction at the new Richmond West Well System will influence local groundwater flow patterns and alter the delineated wellhead protection areas for the Richmond Kings Park and Munster well systems. New Wellhead Protection Area (WHPA) mapping has been completed for these two systems; the updated WHPA mapping will be included in the amendments to the Assessment Report and Source Protection Plan.

Document 1 (attached) provides a Notice from the Mississippi-Rideau Source Protection Region with the following information:

- New Wellhead Protection Area mapping for the Richmond West, Richmond Kings Park and Munster well systems;
- Description of policies that apply within the WHPAs;
- Summary of potential existing significant drinking water threats in the Richmond West WHPA and potential changes to existing significant drinking water threats in the Richmond Kings Park and Munster WHPAs; and
- Request for Municipal Endorsement of amendments to the Rideau Valley Source Protection Assessment Report and Mississippi-Rideau Source Protection Plan.

As identified in the Notice, a vulnerability study has been completed in accordance with the *Clean Water Act*, which delineates the WHPAs and establishes vulnerability scoring for the Richmond West Well System. The study also delineates new WHPAs for the Richmond Kings Park and Munster well systems. Studies to identify existing significant drinking water threats are ongoing; a summary of preliminary findings is presented.

Amendments to the Rideau Valley Source Protection Area Assessment Report and Mississippi-Rideau Source Protection Plan will be prepared by the Mississippi-Rideau Source Protection Authority, in consultation with the City. The reports will be subject to public notification and public consultation, as required in the *Clean Water Act*. Final amendments will be submitted to the Ministry of the Environment and Climate Change for review and approval.

RURAL IMPLICATIONS

The resolution supporting the amendments to the Assessment Report and Source Protection Plan is required prior to public consultation and submission of the amendments to the Ministry of the Environment and Climate Change. Approval of the Assessment Report and Source Protection Plan is required prior to servicing the

development (i.e. occupancy) in the Western Development Lands within the Village of Richmond. This will help ensure a safe source of drinking water to residents within this part of the Village.

COMMENTS BY THE WARD COUNCILLOR

The Ward Councillor is aware of the report recommendations.

LEGAL IMPLICATIONS

There are no legal impediments to approving the recommendations contained in the report.

RISK MANAGEMENT IMPLICATIONS

There are no specific risk management implications, as indicated in the report, the purpose of the legislation is to mitigate risks to municipal drinking water.

ASSET MANAGEMENT IMPLICATIONS

The recommendation documented in this report is consistent with the City's [Comprehensive Asset Management \(CAM\) Program](#) objectives.

The implementation of the CAM program results in timely decisions that minimize lifecycle costs and ensure the long-term affordability of assets. Endorsing the amendments to the Mississippi-Rideau Source Protection Plan to include a new municipal drinking water system in the Village of Richmond, fulfills the City's obligation to deliver quality services to the community, the City must ensure that assets supporting City services are managed in a way that balances service levels, risk and affordability.

FINANCIAL IMPLICATIONS

There are no financial implications related to this report. The operational costs associated with this system are included as part of the normal budget cycle.

ACCESSIBILITY IMPACTS

There are no accessibility impacts associated with this report.

ENVIRONMENTAL IMPLICATIONS

There are no environmental impacts associated with this report.

TERM OF COUNCIL PRIORITIES

This project addresses the following Term of Council Priorities: Governance, Planning and Decision-Making.

SUPPORTING DOCUMENTATION

Document 1 Notice from the Mississippi-Rideau Source Protection Region; Summary of Source Protection Plan Amendments and Request for Municipal Endorsement

Document 2 Draft Source Protection Plan Amendment Resolution

CONCLUSION

Legislative requirements for drinking water source protection are outlined in Ontario's *Clean Water Act*; and all municipal residential drinking water systems must be included in the local Source Protection Plan. The Mississippi-Rideau Source Protection Region is preparing amendments to the Rideau Valley Source Protection Assessment Report and the Mississippi-Rideau Source Protection Plan to include the new Richmond West well system that will provide drinking water to the new residential development known as the Western Development Lands. Wellhead Protection Area mapping and a summary of potential existing significant drinking water threats and applicable policies for the new municipal drinking water system that will service the Western Development Lands in the Village of Richmond have been presented herein (See Document 1). In addition, updated Wellhead Protection Area mapping for the Richmond Kings Park and Munster well systems were necessary since groundwater extraction at the Richmond West well system affects the groundwater flow to those two systems. The updated WHPAs and a summary of changes to the areas where policies apply are presented in Document 1.

DISPOSITION

Legal Services, Office of the City Clerk and Solicitor to forward resolution to City Council.

Planning Operations Branch, Planning Services and Risk Management Official to forward resolution to the Source Protection Region.

Document 2 – Draft Source Protection Plan Amendment Resolution

Whereas, the City has directed the development of the Village of Richmond Western Development lands to proceed on a municipal communal well system pursuant to the Village of Richmond Community Design Plan, the Richmond Secondary Plan, and related Master Servicing Study as approved by Council in July of 2010.

Whereas, the *Clean Water Act* makes Source Water Protection a requirement of all sources of municipal residential drinking water.

Whereas, a Municipal Council resolution endorsing amendments to a Source Protection Plan is required under Section 34 of the *Clean Water Act*, in acknowledgement of the designated vulnerable areas, potential drinking water threats, and policies established to protect the drinking water source.

Therefore be it resolved that the City of Ottawa acknowledges that the Richmond Village Western Development Lands drinking water source will be a municipal well system with a designated Wellhead Protection Area and vulnerability scores as established by the amended Rideau Valley Source Protection Area Assessment Report, and such drinking water system and associated Wellhead Protection Area shall be subject to the policies outlined in the amended Mississippi-Rideau Source Protection Plan.

Furthermore, the Wellhead Protection Areas for the Richmond Kings Park well system and Munster well system must be amended since operation of the new Richmond West well system will affect groundwater flow to the adjacent systems.

Therefore, be it resolved that the City of Ottawa acknowledges that the Richmond Kings Park well system and Munster well system will each have an amended Wellhead Protection Area and vulnerability scores as established in by the amended Rideau Valley Source Protection Area Assessment Report, and shall be subject to the policies outlined in the amended Mississippi-Rideau Source Protection Plan.