

**CITY OF VAUGHAN**

**EXTRACT FROM COUNCIL MEETING MINUTES OF JUNE 27, 2017**

Item 7, Report No. 26, of the Committee of the Whole, which was adopted without amendment by the Council of the City of Vaughan on June 27, 2017.

**7                   REQUEST FOR CONSTRUCTION NOISE EXEMPTION – YORK REGION  
                      WATERMAIN REHABILITATION – FILE NO. W03, 78519-EI13026  
                      WARD 2**

**The Committee of the Whole recommends approval of the recommendation contained in the following report of the Director of By-law & Compliance, Licensing & Permit Services, dated June 20, 2017:**

**Recommendation**

The Director of By-law & Compliance, Licensing & Permit Services, in consultation with the Deputy City Manager, Community Services recommends:

1. That the Regional Municipality of York and its appointed agents/contractors, be granted a noise exemption, in accordance with the City's Noise Control By-law 96-2006, as amended, for the purposes of watermain rehabilitation works at Mackenzie Street, Highway 7 between Kipling Avenue to Islington Avenue and Islington Avenue between Highway 7 to Steeles Avenue West for the period of October 1, 2017 through to May 18, 2018, and for the period of October 1, 2018 through to May 17, 2019; and
2. That this request for extension be granted with the following conditions:
  - a) That construction communication notices be sent to surrounding residents and business owners within a 60-metre radius, in keeping with City standards, advising them of the impending work at least two weeks in advance of commencement of night work;
  - b) That the construction communication notices to residents and business owners include contact information for York Region and its appointed agents;
  - c) That the Contract Administrator monitor and investigate any complaints regarding construction noise; and
  - d) That the Applicant take measures to minimize any unnecessary noise, including but not limited to:
    - a. Minimize and restrict unnecessary idling of construction vehicles, use of airbrakes, revving of engines; slamming of tailgates and shutting down equipment not in use;
    - b. maintaining equipment in good working order (including muffling devices) to minimize noise impacts;
    - c. ensure no construction takes place on Sundays or statutory holidays;
    - d. direct mobile light stands away from oncoming vehicular traffic and neighbouring properties; and
    - e. That no construction takes place on Sundays or Statutory Holidays.

**Contribution to Sustainability**

The initiatives outlined in the request for noise exemption for the purposes of watermain rehabilitation is related to the delivery of water that feeds the West Woodbridge Elevated Tank to

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serve residents and businesses within the Woodbridge community and contributes to the sustainability of the City of Vaughan and Regional infrastructure.

#### **Economic Impact**

Adoption of this report has no adverse economic impact for the City.

#### **Communications Plan**

The Applicant has been instructed by the City to provide notification of the commencement of night time construction at least two weeks prior to commencement of night time construction related activities in local Vaughan newspapers and in letter form to surrounding residents and businesses within a 60-metre radius that may be affected by the construction activities of this project. Further, the Applicant has provided a draft of such notice (Attachment No. 1).

#### **Purpose**

This report is to request Council approval of a request from the Regional Municipality of York (York Region) for a noise exemption to By-law 96-2006, as amended.

#### **Background - Analysis and Options**

The City of Vaughan Noise Control By-law #96-2006, as amended, prohibits noise created from the use of "construction equipment" as defined, between the hours of 7:00pm of one day to 7:00am the following day and on Sundays and statutory holidays.

Any noise created by construction activity during these prescribed hours requires an exemption to the provisions of the By-law. Exemption requests for construction noise are governed by the provisions of Section 19, Exemption – Construction.

York Region has written to City of Vaughan By-law & Compliance, Licensing & Permit Services (Attachment No. 2) requesting an exemption to the City's Noise Control By-law from October 1, 2017 through to May 18, 2018 and from October 1, 2018 through to May 17, 2019, to avoid peak water demands during the summer period. The planned construction is in connection with York Region's Project File No. W03, 78519-EI3026, specifically relating to the rehabilitation of the Islington Avenue Watermain, which feeds the West Woodbridge Elevated Tank and serves part of the Woodbridge community within the City of Vaughan.

The Region anticipates up to 2 consecutive days of night work every 4-6 weeks for construction activities that will include:

- cure-in-place piping chamber rehabilitation and ancillary work, which can only be completed with a watermain shutdown;
- valve replacement, which will require interruption of water service to local residents; and
- temporary lane closures.

The types of equipment used will include heavy construction equipment, such as:

- excavators;
- boiler trucks;
- cranes;
- generators;
- pumps;
- wet-out equipment, including conveyor belts and rollers; and
- Miscellaneous other smaller construction related vehicles and equipment.

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As described within the Application documents, construction activity is required during prohibited evening hours to minimize the impact and inconvenience of water availability to local residents and to mitigate potential traffic disruption due to lane closures during the day.

#### Noise Mitigation

The Applicant had also committed to implement noise mitigation measures in an effort to minimize noise and disruptions to residents, which will include:

- the use of mufflers on equipment where applicable;
- shutting down equipment not in use;
- mobile light stands positioned to direct light away from neighbouring properties; and
- ensure no construction takes place on Sundays or statutory holidays.

In addition to the above, the applicant will be required to:

- direct mobile light stands away from oncoming vehicular traffic;
- minimize idling of construction vehicles;
- avoid unnecessary revving of engines, use of airbrakes, as well as the requirement to maintain equipment in good working order to minimize noise impacts; and
- restrict unnecessary noise related to equipment (eg. no slamming dump truck tailgates).

#### Relationship to Term of Council Service Excellence Strategy Map (2014-2018)

This noise exemption is directly related to the Term of Council Priority and Service Excellence Strategy Map by investing, renewing and managing infrastructure and assets and continuing to ensure the safety and well-being of citizens.

#### Regional Implications

The proposed work is being carried out by York Region and its appointed agents/contractors.

#### Conclusion

This request for a noise exemption, pursuant to the City of Vaughan Noise Control By-law #96-2006, as amended, exceeds the delegated authority of the Director of By-law & Compliance, Licensing & Permit Services. Therefore, Council authorization for the exemption to the By-law is required to permit the Applicant to proceed with the required work as planned.

Staff believes that the watermain rehabilitation project is necessary municipal work and the request received for a noise exemption should be endorsed by Council pursuant to the recommendations set out in this report.

#### Attachments

1. Draft – Notice to Residents/Businesses
2. York Region Application Letter
3. Project Map

#### Report prepared by:

Janice Heron,  
Supervisor, Client Services & Business Administration  
By-law & Compliance, Licensing & Permit Services

(A copy of the attachments referred to in the foregoing have been forwarded to each Member of Council and a copy thereof is also on file in the office of the City Clerk.)

**REQUEST FOR CONSTRUCTION NOISE EXEMPTION - YORK REGION  
WATERMAIN REHABILITATION – FILE NO. W03, 78519-EI13026  
WARD 2**

**RECOMMENDATION**

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    - d. direct mobile light stands away from oncoming vehicular traffic and neighbouring properties; and
    - e. That no construction takes place on Sundays or Statutory Holidays.

**Contribution to Sustainability**

The initiatives outlined in the request for noise exemption for the purposes of watermain rehabilitation is related to the delivery of water that feeds the West Woodbridge Elevated Tank to serve residents and businesses within the Woodbridge community and contributes to the sustainability of the City of Vaughan and Regional infrastructure.

**Economic Impact**

Adoption of this report has no adverse economic impact for the City.

## **Communications Plan**

The Applicant has been instructed by the City to provide notification of the commencement of night time construction at least two weeks prior to commencement of night time construction related activities in local Vaughan newspapers and in letter form to surrounding residents and businesses within a 60-metre radius that may be affected by the construction activities of this project. Further, the Applicant has provided a draft of such notice (Attachment No. 1).

## **Purpose**

This report is to request Council approval of a request from the Regional Municipality of York (York Region) for a noise exemption to By-law 96-2006, as amended.

## **Background - Analysis and Options**

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The Region anticipates up to 2 consecutive days of night work every 4-6 weeks for construction activities that will include:

- cure-in-place piping chamber rehabilitation and ancillary work, which can only be completed with a watermain shutdown;
- valve replacement, which will require interruption of water service to local residents; and
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The types of equipment used will include heavy construction equipment, such as:

- excavators;
- boiler trucks;
- cranes;
- generators;
- pumps;
- wet-out equipment, including conveyor belts and rollers; and
- Miscellaneous other smaller construction related vehicles and equipment.

As described within the Application documents, construction activity is required during prohibited evening hours to minimize the impact and inconvenience of water availability to local residents and to mitigate potential traffic disruption due to lane closures during the day.

## **Noise Mitigation**

The Applicant had also committed to implement noise mitigation measures in an effort to minimize noise and disruptions to residents, which will include:

- the use of mufflers on equipment where applicable;
- shutting down equipment not in use;
- mobile light stands positioned to direct light away from neighbouring properties; and
- ensure no construction takes place on Sundays or statutory holidays.

In addition to the above, the applicant will be required to:

- direct mobile light stands away from oncoming vehicular traffic;
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- restrict unnecessary noise related to equipment (eg. no slamming dump truck tailgates).

### **Relationship to Term of Council Service Excellence Strategy Map (2014-2018)**

This noise exemption is directly related to the Term of Council Priority and Service Excellence Strategy Map by investing, renewing and managing infrastructure and assets and continuing to ensure the safety and well-being of citizens.

### **Regional Implications**

The proposed work is being carried out by York Region and its appointed agents/contractors.

### **Conclusion**

This request for a noise exemption, pursuant to the City of Vaughan Noise Control By-law #96-2006, as amended, exceeds the delegated authority of the Director of By-law & Compliance, Licensing & Permit Services. Therefore, Council authorization for the exemption to the By-law is required to permit the Applicant to proceed with the required work as planned.

Staff believes that the watermain rehabilitation project is necessary municipal work and the request received for a noise exemption should be endorsed by Council pursuant to the recommendations set out in this report.

### **Attachments**

1. Draft – Notice to Residents/Businesses
2. York Region Application Letter
3. Project Map

### **Report prepared by:**

Janice Heron,  
Supervisor, Client Services & Business Administration  
By-law & Compliance, Licensing & Permit Services

Respectfully submitted,

Mary Reali  
Deputy City Manager  
Community Services

Gus Michaels  
Director, By-law & Compliance,  
Licensing & Permit Services



September 11, 2017

Dear Resident,

**Subject: Night Work for the Islington Avenue Watermain Rehabilitation  
From October 2, 2017 to October 28, 2017**

The Regional Municipality of York is undertaking the rehabilitation of the Islington Avenue Watermain to maintain safe and reliable drinking water to local residents. The watermain is located along Islington Avenue from Steeles Avenue to Highway 7 then west along Highway 7 & Mackenzie Street to Kipling Avenue.

The Contract has been awarded to XXXXX to complete the work. Construction activity has commenced and is estimated to be complete in Spring 2018.

Cure-In-Place Pipe (CIPP) will be the method to rehabilitate the watermain to minimize the impacts to local residents and traffic. This method was selected because it requires less construction space and time compared to other traditional watermain construction methods.

As part of the work, it is necessary to conduct the occasional night work on Mackenzie Street from October 2, 2017 to October 28 2017 between the hours of 7:00 pm of one day to 7:00 am the following day. The work may include the use of construction equipment such as excavators, boiler trucks, overhead cranes, generators, pumps, lights, conveyor belts and rollers. Also there may be noise associated with the discharge of high pressure air and steam used in the curing process of the Cure-In-Place Pipe (CIPP). Attached is a map showing the location of the construction work.

Mackenzie Street will remain open to traffic at all times although there will be temporary lane reductions where the Contractor is working. The Contractor is responsible for providing and maintaining access to residents and businesses affected by the construction including access for emergency vehicles.

If you have any questions please contact me at 1-877-464-9675 ext. 75037 or by e-mail at [davy.chan@york.ca](mailto:davy.chan@york.ca).

Sincerely,

Davy Chan  
Capital Project Specialist

Attachment: Location Map

York-#6696951



Environmental Services

March 10, 2017

Janice Heron  
Office Coordinator  
City of Vaughan  
By-Law and Compliance, Licensing & Permit Services  
2141 Major Mackenzie Drive  
Vaughan, ON L6A 1T1

**RE:           Application for Noise Exemption (Construction)  
              Islington Avenue Watermain Rehabilitation  
              Our File No.: W03, 78519-EI13026**

Dear Ms. Heron,

This letter is written in support of the Region's noise exemption application to request a long term noise exemption from October 1, 2017 to May 18, 2018, and October 1, 2018 to May 17, 2019 to work extended hours at the following locations:

- Mackenzie Street;
- Highway 7 between Kipling Avenue to Islington Avenue;
- Islington Avenue between Highway 7 to Steeles Avenue West.

York Region is submitting this application on behalf of the Contractor who has not been determined at this point in time as the tender has not been issued.

The exemption is being requested for all work relating to the rehabilitation of the Islington Avenue Watermain that feeds the West Woodbridge Elevated Tank to serve part of the Woodbridge community in the City of Vaughan.

**Requirement for after-hours work:**

The cure-in-place piping (CIPP), chamber rehabilitation and ancillary work must be completed when the watermain is shutdown. The watermain shutdown will occur between October 1, 2017 to May 18, 2018, and October 1, 2018 to May 17, 2019 to avoid the peak water demand period during the summer. The Contractor will make every effort to adhere to the City's noise by-law; however, night work will be necessary to complete all the work within the duration of the watermain shutdown.

In particular, the Region expects up to 2 consecutive days of night work every 4-6 weeks to complete the CIPP liner insertion process. When the CIPP liner insertion process commences the work is non-stop as the liner must be installed in one-piece over the full length of the watermain section to provide a seamless pipe. Each section will be approximately 200 metres in length. Also the liner is impregnated with a resin which must cure for 6 hours after it is in place. This process is estimated to be performed a minimum of 20 times.

Night work is also required to replace the valve in a few valve chambers. Replacing the valve in these chambers will require the interruption of water service to local residents. Completing the valve replacement work during the night will minimize the impact to the residents.

Also the duration of construction in areas where temporary lane closures will significantly impact the traffic flow need to be minimized. Expediting the work in these areas will require night work.

The actual date of the night work is unknown as several factors such as weather, material delivery and the completion of other construction activities will dictate the schedule of the work. Also the number and frequency of the night work required makes it impractical to request a noise exemption for each occurrence. For this reason a noise exemption is requested for the full construction duration. No construction will take place on Sundays or Statutory Holidays.

A notice to the surrounding residents impacted by the proposed night work will be issued prior to commencing the night work. The notice will provide the Region's contact information.

**Equipment being used:**

The Contractor may use heavy equipment including excavators, boiler trucks, construction vehicles, cranes, generators, pumps, wet-out equipment including conveyor belts and rollers. If the curing process of the liner uses steam as opposed to water, noise may be created from the discharge of high pressure air and steam. Noise associated with vehicle movement on and off the site will occur.

Noise can be mitigated by using equipment with mufflers or shutting down equipment not in use. In addition, mobile light stands required throughout the night will be positioned in a manner to direct light away from neighbouring properties to ensure nearby residents are not adversely impacted.

Please do not hesitate to contact me with any questions. I can be reached at 1-877-464-9675 ext. 75037 or by cell at 905-955-3755.

Sincerely,



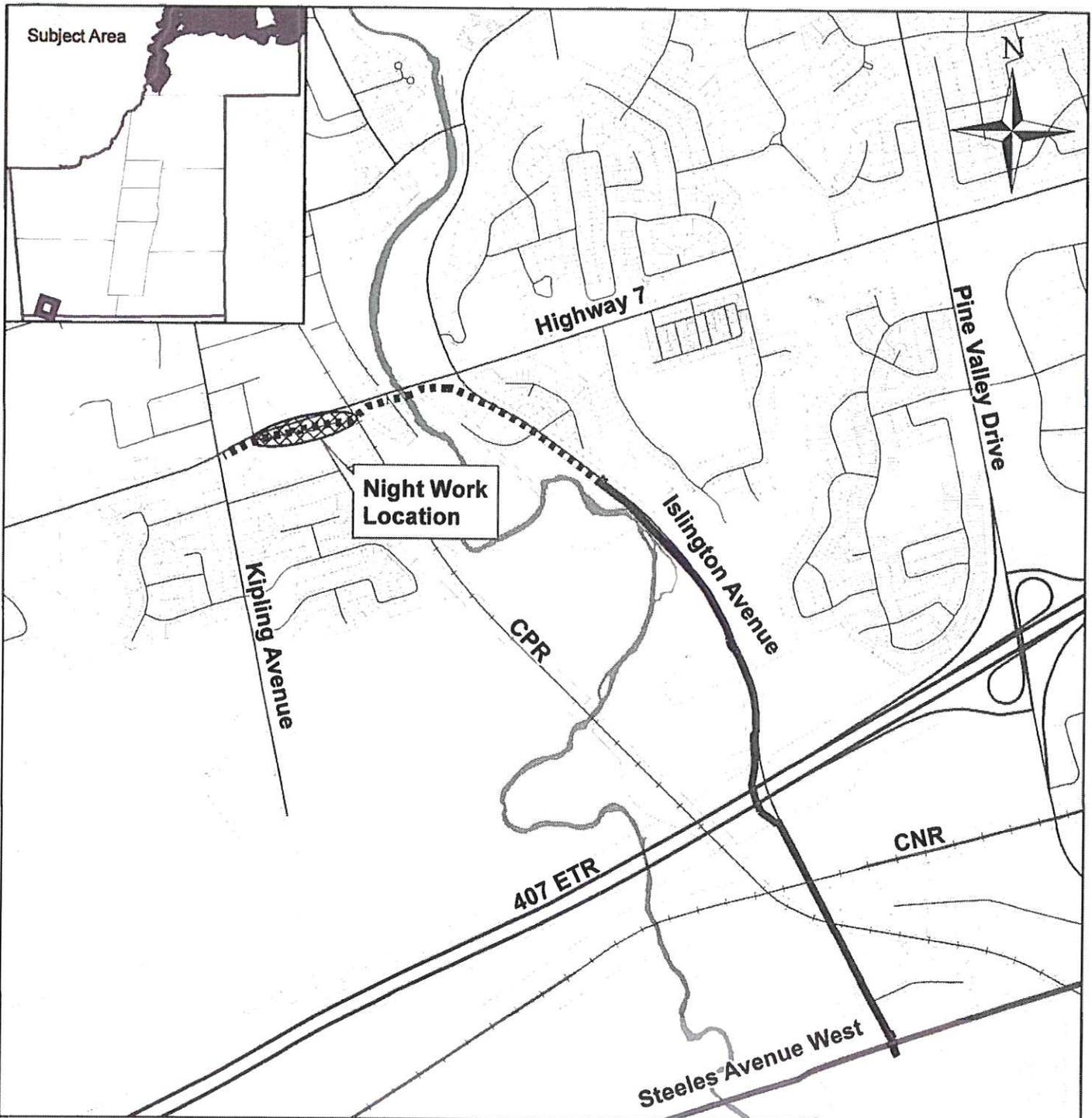
Davy Chan  
Capital Project Specialist

DC/sm

Copy to:           Mani Ruprai, MMM Group  
                      Alberino Scarpato, MMM Group

Attachments (3):   Application for Noise Exemption  
                          Sample Letter of Notification  
                          Area Map

York-# 6695312



**Islington Avenue Watermain Rehabilitation**

Proposed Night Work Location  
Mackenzie Street



**SAMPLE**

**Legend**

- Watercourse
- .... 450 mm Diameter Watermain
- 600 mm Diameter Watermain
- + Railway

Produced by Tarek Abul-Fotouh  
Capital Planning and Delivery  
Environmental Services

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