

Appendix A

*Council Reports Dated December 13, 2021
and November 15, 2021*

REPORT

Climate Action, Planning and Development

To: Mayor Cote and Members of Council **Date:** December 13, 2021

From: Emilie K. Adin, MCIP **File:** 05.1020.20
Director, Climate Action, Planning and
Development

Item #: 2021-646

Subject: Construction Noise Bylaw Exemption Extension Request: New Westminster
Interceptor – Columbia Sewer Rehabilitation

RECOMMENDATION

THAT Council grant an exemption to Oscar Renda Contracting of Canada (ORCC) from Construction Noise Bylaw No. 6063, 1992 for eight nights between Monday January 3, 2022 and Monday February 14, 2022 from 8:00 PM to 7:00 AM Mondays to Thursdays and 8:00 PM Fridays to 7:00 AM Mondays to conduct maintenance of the existing sewer, installation of new utility holes on Columbia Street at Eighth Street and at Blackwood Street, and water main relocation at the intersection of Sixth Street and Columbia Street, midblock area between Sixth and Church Streets, and the intersection of Fourth Street and Columbia Street.

PURPOSE

To request that Council grant an exemption from the Construction Noise Bylaw for Metro Vancouver's contractor, Oscar Renda Contracting of Canada (ORCC), to conduct sewer maintenance including multiple upgrades and installations in the downtown area for eight nights from Monday, January 3, 2022 to Monday, February 14, 2022.

BACKGROUND

Project Description

The New Westminister Interceptor Columbia Section sewer is a section of a Metro Vancouver sanitary collection system that runs from McBride Boulevard at the upstream end to the junction of Columbia Street and Front Street at the downstream end totaling approximately 1,600 m. The existing condition of the sewer is poor and it has had

numerous minor, localized repairs completed in the last few years. Due to its condition the sewer's entire length is undergoing rehabilitation. The rehabilitation work consists of slip-lining the majority of the existing sewer with small sections of open cut replacement, replacement of lateral connections, and installation of new utility holes.

On November 15, 2021 Council granted ORCC's request for a construction noise exemption for four nights leading up to December 17, 2021 to conduct slip-lining work along Columbia Street but, due to unseen weather conditions, this work was not performed. ORCC is still hoping to perform the work under the exemption granted but are not confident given the recent exceptional weather patterns and high level sewer flow that that is achievable. The November 15, 2021 Council report is attached as Appendix A.

DISCUSSION

During the rehabilitation work, the water main at three different locations (the intersection at Sixth Street and Columbia Street; midblock between Sixth Street and Church Street; and the intersection at Fourth Street and Columbia Street) will need to be relocated for the slip-lining work to be performed. This work will require overnight exemptions for three nights to ensure minimal impact on businesses with regards to having their water supply shut down. This water main work will be performed during permitted and non-permitted hours on weekdays only, while the slip-lining component will be done continuously for four consecutive days and nights on a twenty four hour basis depending on the weather conditions and may include weekend work including Sundays as once they start they must finish the work to completion. An extra night is requested for any weather-related or unexpected delays.

The slip-lining phase of the New Westminster Interceptor Columbia Replacement project represents a key stage in the project as it is this activity that directly addresses the threat of aging sewer pipe failure. The specific task requiring the noise exemption is the concurrent movement of pipe into position with a loader and the slip-lining of 700 metres of the existing sewer line with a jacking frame along Columbia Street from Front Street to Blackwood Street. This work was originally planned to be completed during permitted hours only however the window of opportunity is rapidly closing due to seasonal weather and a need to avoid conflicts with the Pattullo Bridge Replacement Project in 2022. Having the ability to work continuously through the night has significant advantages:

- This construction work is weather dependent, and the work revolves around the sewer line surcharging, which occurs during heavy rain events. During this period of high levels, no work can occur. As such, continual work through nighttime hours will reduce the number of continuous dry days needed, thereby allowing ORCC to schedule this activity within a smaller weather window.
- The faster completion of the slip-lining will reduce the number of required construction days and thereby reduce impacts to Downtown residents and businesses.

- The faster completion will reduce the likelihood of construction conflicts with the planned Pattullo Bridge Replacement Project construction scheduled in 2022. Simultaneous construction work of the two projects is expected to have a significant impact to the community from a transportation, business, and overall livability perspective.

Notification and Noise

Updated construction notification will be provided to residents and businesses in the area by the contractor and Metro Vancouver. Noise will be kept to a minimum during the slip-lining and water main relocation activity. There will be no dump truck delivery or soil removal during the overnight work. Noise will occur from a small excavator, a rubber tire backhoe, small generator, small tools, and a cut off saw used during the overnight work.

ORCC will apply for an updated Street Occupancy Permit (SOP) from the City's Engineering Transportation Division. Their current SOP expires on December 31, 2021.

Road Closure Impact

Details regarding traffic implications can be found in the November 15, 2021 Council report attached as Appendix A.

Transportation staff report that, based on current understanding of the work, this additional exemption is expected to have limited additional transportation impacts and can be accomplished under current traffic management plans. Any changes to approved traffic management plans resulting from this additional exempted work will be handled by staff through the normal review and permitting process.

Conclusion

Given that this is a critical phase of the project, the limited weather window to complete the work, expected low noise impacts, and that a shorter Columbia Street closure would lessen impacts to Downtown businesses, City staff consider the request reasonable.

OPTIONS

There are two options to consider:

1. That Council grant an exemption to Oscar Renda Contracting of Canada (ORCC) from Construction Noise Bylaw No. 6063, 1992 for eight nights between Monday January 3, 2022 and Monday February 14, 2022 from 8:00 PM to 7:00 AM Mondays to Thursdays and 8:00 PM Fridays to 7:00 AM Mondays to conduct maintenance of the existing sewer, installation of new utility holes on Columbia Street at Eighth Street and at Blackwood Street, and water main relocation at the intersection of Sixth Street and Columbia Street, midblock area between Sixth and Church Streets, and the intersection of Fourth Street and Columbia Street.

2. That Council provide staff with alternative direction.

Staff recommend Option 1.

ATTACHMENTS

Appendix A: Construction Noise Exemption Report Dated November 15, 2021

APPROVALS

This report was prepared by:

Nav Dhanoya, Construction Impacts Coordinator

This report was reviewed by:

Kim Deighton, Manager of Licensing and Integrated Services

Mike Anderson, Acting Manager of Transportation

This report was approved by:

Emilie K. Adin, Director, Climate Action, Planning and Development

Lisa Leblanc, Director of Engineering

Lisa Spitale, Chief Administrative Officer

Appendix A

Construction Noise Exemption Report
Dated November 15, 2021

REPORT

Climate Action, Planning and Development

To: Mayor Cote and Members of Council **Date:** November 15, 2021

From: Emilie K. Adin, MCIP **File:** 05.1020.20
Director, Climate Action, Planning and
Development

Item #: 2021-559

Subject: Construction Noise Bylaw Exemption Request: New Westminster
Interceptor – Columbia Sewer Rehabilitation

RECOMMENDATION

THAT Council grant an exemption to Oscar Renda Contracting of Canada (ORCC) from Construction Noise Bylaw No. 6063, 1992 for four nights between Tuesday November 16, 2021 and Friday December 17, 2021 from 8:00 PM to 7:00 AM on weekdays, and Saturdays 6:00 PM to 9:00 AM Sundays to conduct slip-lining of the existing sewer with small sections of open cut replacement, replacement of lateral connections, and installation of new utility holes at Eighth Street and Columbia Street and at Blackwood Street and Columbia Street.

PURPOSE

To seek an exemption from the Construction Noise Bylaw for Oscar Renda Contracting of Canada (ORCC) to conduct slip-lining at the existing sewer with small sections of open cut replacement, replacement of lateral connections, and the installation of new utility holes at Eighth Street and Columbia Street and at Blackwood Street and Columbia Street during overnight hours for four nights from Tuesday, November 16, 2021 to Friday, December 17, 2021.

BACKGROUND

Project Description

The New Westminster Interceptor Columbia Section sewer is a section of a Metro Vancouver sanitary collection system that runs from McBride Boulevard at the upstream end to the junction of Columbia Street and Front Street at the downstream end totaling

approximately 1,600 m. The existing condition of the sewer is poor and it has had numerous minor, localized repairs completed in the last few years. Due to its condition the sewer's entire length is undergoing rehabilitation. The rehabilitation work consists of slip-lining the majority of the existing sewer with small sections of open cut replacement, replacement of lateral connections, and installation of new utility holes.

DISCUSSION

The slip-lining phase of the New Westminster Interceptor Columbia Replacement project represents a key stage in the project as it is this activity that directly addresses the threat of aging sewer pipe failure. The specific task requiring the noise exemption is the concurrent movement of pipe into position with a loader and the slip-lining of 700 metres of the existing sewer line with a jacking frame along Columbia Street from Front Street to Blackwood Street. Although completion of this activity exclusively during the day was originally planned, the window to complete this critical phase is at risk due to the seasonal weather along with the urgency to complete this phase to avoid conflicting with the Pattullo Bridge Replacement project in 2022. Therefore having the ability to work continuously through the night has significant advantages:

- This construction work is weather dependent, and the work revolves around the sewer line surcharging, which occurs during heavy rain events. During this period of high levels, no work can occur. As such, continual work through nighttime hours will reduce the number of continuous dry days needed, thereby allowing ORCC to address the urgency and schedule this activity within a smaller weather window.
- The faster completion of the slip-lining will reduce the number of required construction days and thereby reduce impacts to Downtown businesses.
- The faster completion will also reduce the likelihood of construction conflicts with the planned Pattullo Bridge replacement project construction scheduled in 2022. Simultaneous construction work of the two projects is expected to have a significant impact to the community from a transportation, business, and overall livability perspective.

Notification and Noise

Updated construction notification will be provided to residents and businesses in the area by the contractor and Metro Vancouver. Noise will be kept to a minimum during the slip-lining activity. Only essential tasks for slip-lining will occur outside the permitted construction hours. There will be no dump truck delivery or soil removal during the overnight work.

ORCC has applied for and received a Street Occupancy Permit from the City's Engineering Transportation Division.

Road Closure Impact

In conjunction with the noise exemption, the slip-lining of approximately 700 metres of pipe, from the entry shaft at Eighth Street and Columbia Street to the receiving shaft at Blackwood Street and Columbia Street, will also involve the full closure of Columbia Street to two-way vehicle travel between Front Street and Begbie Street. A complete closure is necessary to provide adequate road space for construction crews to both safely move pipe material to the launch shaft and simultaneously perform the slip-lining activity. An additional benefit of a complete closure is that it will simplify the work zone and will permit the contractor to focus on their task more efficiently without having to manage traffic simultaneously. With a noise exemption granted by Council, a 24-hour closure of Columbia Street of up to 4 days is expected. However, with these measures in place, it will allow ORCC to complete this task more safely and potentially in a shorter period of time than the maximum time period of 4 days that has been requested.

ORCC has submitted Transportation Management Plans for this closure, which includes accommodation for pedestrians, cyclists, affected transit routes, and vehicle movements. These plans are currently being reviewed by City staff, and are expected to be approved before the slip-line work takes place. This also includes coordination with the 660 Quayside Drive development (Pier West, Bosa Development) to ensure road safety and whistle cessation at the Begbie rail crossing are maintained. Digital signs will be updated to advise motorists of road closures. City staff will coordinate with Metro Vancouver's communications group on messaging to residents, businesses and regional partners to promote that businesses are still open during construction but some vehicle access will not be available through downtown.

Given that this is a critical phase of the project, the limited weather window to complete this work, expected low noise impacts, and a shorter Columbia Street closure that should lessen impacts to Downtown businesses, City staff consider the requested exemption to be reasonable under these circumstances.

OPTIONS

There are two options to consider:

1. That Council grant an exemption to Oscar Renda Contracting of Canada (ORCC) from Construction Noise Bylaw No. 6063, 1992 for four nights between Tuesday November 16, 2021 and Friday December 17, 2021 from 8:00 PM to 7:00 AM on weekdays, and Saturdays 6:00 PM to 9:00 AM Sundays to conduct slip-lining of the existing sewer with small sections of open cut replacement, replacement of lateral connections, and installation of new utility holes at Eighth Street and Columbia Street and at Blackwood Street and Columbia Street.
2. That Council provide staff with alternative direction.

Staff recommend Option 1.

APPROVALS

This report was prepared by:

Nav Dhanoya, Construction Impacts Coordinator

Michael Nguyen, Engineering Technologist - Transportation

This report was reviewed by:

Kim Deighton, Manager of Licensing and Integrated Services

Kanny Chow, Transportation Engineer

Mike Anderson, Acting Manager of Transportation

This report was approved by:

Emilie K. Adin, Director, Climate Action, Planning and Development

Lisa Leblanc, Acting Chief Administrative Officer