



# City of Richmond

## Report to Committee

**To:** Public Works and Transportation Committee      **Date:** February 16, 2023  
**From:** Milton Chan, P.Eng      **File:** 10-6000-01/2023-Vol  
Director, Engineering      01  
**Re:** **Sanitary Sewer Repairs – 100 to 1000 Block Lancaster Crescent**

### Staff Recommendation

That funding of \$1,000,000 from the Sanitary Sewer Reserve Fund for the sanitary sewer repairs along the 100 to 1000 block of Lancaster Crescent, be approved and that the Consolidated 5 Year Financial Plan (2023-2027) be amended accordingly.

Milton Chan, P.Eng  
Director, Engineering  
(604-276-4377)

REPORT CONCURRENCE		
<b>ROUTED TO:</b>	<b>CONCURRENCE</b>	<b>CONCURRENCE OF GENERAL MANAGER</b>
Finance Department	<input checked="" type="checkbox"/>	
Sewer & Drainage	<input checked="" type="checkbox"/>	
<b>SENIOR STAFF REPORT REVIEW</b>	<b>INITIALS:</b>	<b>APPROVED BY CAO</b>

## **Staff Report**

### **Origin**

In December 2022, a section of failed sanitary sewer was discovered by City maintenance staff in the 1000 block of Lancaster Crescent within the Burkeville community.

The failed section of sanitary sewer was isolated and a temporary bypass system was installed by City forces to provide continuous sewer service to the surrounding properties.

Staff recommend that funding for the repairs be provided from the Sanitary Sewer Reserve Fund.

This report supports Council's Strategic Plan 2018-2022 Strategy #1 A Safe and Resilient City:

*Enhance and protect the safety and well-being of Richmond.*

*1.2 Future-proof and maintain city infrastructure to keep the community safe.*

### **Analysis**

The City has a failed 200 millimeter diameter gravity sanitary sewer, constructed around 1940, that is located under Lancaster Crescent in Burkeville and is approximately 2.5 metres below ground level.

City forces installed a temporary sanitary sewer bypass system to maintain continuous sewer service to nearby properties while the sewer was inspected to determine the extents of the repair work required.

The proposed repair work will include an open trench repair at the location of the break, and the use of trenchless technologies to repair approximately 445 meters of sanitary sewer line. This line services the 28 residential homes between the 100 to 1000 block of Lancaster Crescent. The repair will restore regular sanitary service in a timely manner and improve the existing infrastructure, resulting in extended asset lifespan for this sewer. It will also minimize the risk of additional breaks in the future.

The costs for this repair are estimated at \$1,000,000, including engineering consultant design and construction works.

### **Financial Impact**

The total estimated capital cost for the repair of the failed sanitary sewer along Lancaster Crescent is \$1,000,000.

A temporary funding source will be utilized to fund the repair until the Consolidated 5 Year Financial Plan (2023-2027) can be amended with this additional \$1,000,000 to be funded by the Sanitary Sewer Reserve Fund. Any unused funds will be returned to the funding source.

**Conclusion**

The sanitary sewer system in the 100 to 1000 block of Lancaster Crescent has failed. Staff will be using a temporary funding source to fund the repair. Staff recommend that funding for the repair work be provided from the Sanitary Sewer Reserve Fund.

A handwritten signature in blue ink, appearing to read 'KR', is centered on the page.

Kevin Roberts, P.Eng.  
Acting Manager, Engineering Design and Construction  
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