

DECISION/DIRECTION NOTE

Title: Windsor Lake Water Treatment Plant Equipment Reserve Fund Supply and Install of Ultraviolet Light (UV) Reactors

Date Prepared: November 29, 2021

Report To: Committee of the Whole

Councillor and Role: Councillor Sandy Hickman, Public Works

Ward: N/A

Decision/Direction Required:

To seek a decision on proceeding with a purchase from the Equipment Reserve Fund to replace the existing UV #1, #2 & #3 reactors at the Windsor Lake Water Treatment Plant (WL WTP).

Discussion – Background and Current Status:

The WL WTP Equipment Reserve Fund is being requested to be used for the purchase of three (3) new UV reactors and required auxiliary electrical equipment. The existing UV reactors were commissioned in 2007 and are approaching the end of their anticipated life cycle. Recent operational issues with the existing UV reactors have also warranted their replacement.

The total estimated cost to replace the UV reactors, including the cost of the equipment, decommissioning the current systems, installation of the new systems and integration into the industrial control system is approximately \$1,000,000.00.

Key Considerations/Implications:

1. Budget/Financial Implications:
Sufficient funding has been identified through the Reserve Fund to support this purchase. The current balance of the Windsor Lake WTP Capital Reserve (0000-36889) is \$1,313,701.18.
2. Partners or Other Stakeholders:
N/A
3. Alignment with Strategic Directions/Adopted Plans:
Strategic Plan 2019-2029 Goal: *A Sustainable City*
Development of an Equipment Reserve Fund at the WL WTP provides the ability to replace critical equipment in a timely and budgeted manner, avoiding unplanned maintenance and unexpected costs.



4. Legal or Policy Implications:
N/A
5. Privacy Implications:
N/A
6. Engagement and Communications Considerations:
N/A
7. Human Resource Implications:
N/A
8. Procurement Implications:
The estimated timeframe of delivery for the replacement UV reactors is approximately 18 to 22 weeks from receipt of written purchase order.
9. Information Technology Implications:
N/A
10. Other Implications:
N/A

Recommendation:

That Council make funding available through the Windsor Lake Equipment Reserve Fund to support the purchase and installment of three (3) UV reactors for the Windsor Lake WTP.

Prepared by: Shawn Haye, Manager – Water Treatment

Approved by: Andrew Niblock, Director – Environmental Services

Report Approval Details

Document Title:	Windsor Lake Water Treatment Plant Equipment Reserve Fund Replacement of UV Reactors.docx
Attachments:	
Final Approval Date:	Nov 30, 2021

This report and all of its attachments were approved and signed as outlined below:

Andrew Niblock - Nov 30, 2021 - 9:45 AM

Lynnann Winsor - Nov 30, 2021 - 12:28 PM