

Capital Project P.01243 Lift Station Upgrades Budget Adjustment

ISSUE

Capital Project P.01243 Lift Station Upgrades requires additional funding to execute capital design work in 2025, for replacement of the Lansdowne Avenue Sanitary Lift Station (LS).

RECOMMENDATION

That the Standing Policy Committee on Environment, Utilities and Corporate Services recommend to City Council that the budget adjustment in the amount of \$300,000 to Capital Project P.01243 Lift Station Upgrades funded from the Wastewater Treatment Capital Reserve be approved.

BACKGROUND

The Wastewater Treatment Plant, of the Saskatoon Water Department, operates and maintains 29 existing LSs within Saskatoon. In November 2024, Saskatoon Water identified failed pumping infrastructure at the Lansdowne Avenue LS, which was constructed in 1963. Funding for existing LS upgrades is budgeted through capital project P.01243 Lift Station Upgrades.

DISCUSSION/ANALYSIS

A planned inspection of the Lansdowne Avenue LS, in November 2024, identified that pumping infrastructure needed immediate replacement. The existing pumps that need to be replaced are obsolete and no longer available for replacement or to procure individual replacement parts. Saskatoon Water has installed temporary parts, which were locally machined to ensure the LS operates until a comprehensive long-term replacement can be designed and constructed. The locally machined temporary replacement parts cost \$30,000 and will need to be replaced at least annually. Simply purchasing new pumps is not an option as they would not fit in the existing LS without significant modifications to it.

If the temporary replacement parts become unavailable, or the LS further deteriorates and cannot be operated, the sanitary system would need to be placed on a temporary bypass system. Based on the current configuration of the LS located in the boulevard on Lansdowne Avenue at the 8th Street East intersection, the overland bypass would consist of temporary pumps and pipes on public roads with generators creating noise disturbances for nearby residents. The temporary bypass system is expected to cost approximately \$25,000 per month (\$300,000 per year) to install and operate and is therefore not a long-term solution.

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In addition to the current state of the pumps, the overall deteriorating condition of the Lansdowne Avenue LS required replacement planning, which was initiated prior to the November 2024 condition assessment. Replacement of the lift station was identified in capital plans within the next ten years; however, with the current state of failure Saskatoon Water recommends accelerating this timeline by funding the work from the Wastewater Treatment Capital Reserve reducing the risk of needing a bypass.

Saskatoon Water recommends that \$300,000 from the Wastewater Treatment Capital Reserve be transferred to Capital Project P.01243 Lift Station Upgrades to fund the design of the Lansdowne Avenue LS replacement. If approved, the design work would commence immediately in 2025. Construction would be scheduled for 2026, with the capital funding request for construction included in the 2026-2027 budget deliberations to occur later in 2025.

FINANCIAL IMPLICATIONS

There are sufficient funds available in the Wastewater Treatment Capital Reserve for this transfer of funds.

OTHER IMPLICATIONS

There are no privacy, legal, social, or environmental implications identified.

NEXT STEPS

There is no follow-up required.

Report Approval

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