



EPCOR WASTEWATER INTEGRATED RESOURCE PLAN

RECOMMENDATION

That the January 22, 2024, EPCOR Water Services Incorporated report EXT02260, be received for information.

Report Purpose

Information only.

Executive Summary

This report by EPCOR Water Services Incorporated provides an overview of how EPCOR is applying a One Water approach and integrated resource planning principles to develop strategies for the sanitary and storm systems, including the Gold Bar Wastewater Treatment plant and Clover Bar Biosolids Management Facility.

The integrated resource plan brings together previous disparate planning initiatives into one integrated strategy that is aligned with City Plan objectives. The report provides the background on the strategic planning considerations that will inform the capital and operational programs proposed in the EPCOR Wastewater PBR Rates submission coming to Utility Committee later in 2024.

REPORT

The One Water planning model is the industry leading approach to overcoming water related challenges. One Water is both a holistic way to approach water management and a practical systems-based approach to meet complex issues.

EPCOR's goals are to maximize the use of our existing infrastructure by optimizing and enhancing the system. We are also reframing the concept of wastewater treatment into the paradigm of resource recovery.

Key focuses of the new strategy include:

- Modular, right-sized solutions that be scaled up with time according to new information like growth projections and the impacts of climate change

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- Slowing the entry of stormwater in to the combined system and attenuating the peaks, by replicating and recreating natural hydrological and ecological function through the installation of green infrastructure
- Increasing the focus on inflow and infiltration reduction to increase capacity of the system and improve operational reliability at the wastewater treatment plants
- Concentrating on customer-focused solutions including water conservation and efficiency and down spout disconnects
- Investments to increase our situational awareness of the system
- Increasing regional collaboration between EPCOR and ARROW to balance sanitary flows in the region
- Recognizing the value of all water. Future strategies for Gold Bar and Clover Bar facilities focus on resource recovery – extracting valuable nutrients and energy from wastewater, promoting sustainability
- Shifting our focus to Sanitary Planning Areas (23 SPA's across the City) and implementing improvements to local sanitary systems and parcel based solutions versus solutions focused primarily on the deep trunk network.

Attachment 1 provides a summary of the new Wastewater Integrated Resource plan for Edmonton.

Attachment

1. EPCOR Water Services – Wastewater Integrated Resource Plan: A New Way of Planning - 2023 Summary Report