
Subject: Water and Wastewater Master Plan 2024 - Adoption

Staff Report No. EPW-014-24

Commission: Engineering and Public Works Commission

Date: June 5, 2024

Recommendation:

- 1) That Council approve the Final Water and Wastewater Master Plan as provided in Attachments 1 through 7; and
- 2) That Council authorize Staff to take the necessary steps to implement the Final Water and Wastewater Master Plan including updates to the Town's Official Plan, Applicable Secondary Plans and the Development Charge By-law.

1. Purpose:

The purpose of this report is to seek Council endorsement of the Town of Stouffville's Water and Wastewater Master Plan 2024 as shown in Attachments 1 through 7.

2. Executive Summary:

The purpose of the Water and Wastewater Master Plan (W&WWMP) is to explore strategic, long-term improvement and development of the town's water and wastewater servicing needs required for year 2051. The Master Plan aligns with provincial, regional, and local planning contexts, aims to ensure community prosperity and sustainability. It presents findings, recommendations, and details of associated projects, including their locations, costs, and timelines. The Master Plan was carried out as per Municipal Class EA requirements and meets schedules A and A+. Staff are seeking Council approval on the Master Plan so that the strategic projects can be implement through various sources and at various timelines.

3. Background:

The Town's current Water &Wastewater Master Plan is an update to the 2018 Water & Wastewater Masterplan and is built on Functional Study Report 2013. The Master Plan is based on more sophisticated and accurate models to produce a servicing strategy for

the Town's 2051 projected population. Furthermore, the study needed to be updated to consider current Provincial Policy to ensure infrastructure reliability for existing residents and businesses and ability to support future growth. The Master Plan study is undertaken in accordance with Approach #1 of the Municipal Class Environmental Assessment. The Water and Wastewater Master Plan Final Report and supplementary documents are included in Attachments 1 through 7 and available on the Town's website at <https://www.cometogetherws.ca/wwwmp>

3.1 Previous Council Reports

The Town of Stouffville issued a Request for Proposal WS-RFP-21-54 for qualified consulting firms to submit proposals, which closed on September 21, 2021. A total of three proposals were received and reviewed by a staff review panel. The consultant group with the highest evaluation score that was recommended by staff was GM Blue Plan Engineering Limited.

On November 16, 2021 Council adopted staff recommendation to award the W&WWMP contract to GM Blue Plan in the amount of \$344,692.00. (DS-045-21).

On December 6, 2023, Council received a report titled "Endorsement of Draft 2022 Water & Wastewater Master Plan" for endorsement of the Plan following a 30-day public consultation period. (PW-022-23).

This report represents the final stage in the project seeking Council approval of the W&WWMP as presented in Attachments No. 1 through 7. The Final Report and related Appendices are consistent with the Draft Report included during Staff Report PW-022-23.

3.2 Master Plan Process

The Master Plan process began in 2022 and was carried out under Approach #1 as set out in the Municipal Class EA. The Master Plan documents were made available for Public and Agency comment prior to being approved by the Town. The study has incorporated essence from the Town's Official Plan and York Region's Water and Wastewater Master Plan.

3.3 Public Consultation

The public consultation process was a key component of the study. It involved two Public Information Centres (PICs) and a study website. The PICs presented the work completed to date, draft recommendations, and feedback obtained from the public. The PICs were held virtually with a presentation and participant feedback page. This feedback was instrumental in shaping the final recommendations of the W&WWMP.

The public consultation process included the following:

- Notice of Study Commencement was first published on May 19, 2022
- The first virtual Public Information Centre was held from August 25, 2022 to September 8, 2022.
- The second virtual Public Information Centre was held from September 6, 2023 to September 20, 2023.
- Notice of Study Completion was issued on January 3, 2024 with the commenting period ended on February 23, 2024.
- The outcomes of the public consultation process are outlined in Attachment #7 (Appendix E) of the Report.

4. Analysis and Options:

4.1 Master Plan Recommendations

The W&WWMP recommends projects that are categorized by their source, location, type, class, jurisdiction, timing, cross-section, length, and cost. These are projects carried over from the 2018 Water & Wastewater Master Plan including additional projects to address the needs of the projected population by 2051.

Project list:

- Water Servicing Projects (58 Projects)
- Wastewater Projects (30 Projects)

A detailed list of these projects is included in the Main Report (Attachment #2).

The summarized projects above include 88 projects to be completed by the Town by 2051. The Master Plan has identified some external works required in City of Markham in order to complete looping and support projected growth in Town limits.

It is recommended that staff take the necessary steps to implement the Master Plan projects and support the Town's Official Plan, Secondary Plans and the Development Charges By-law. These projects are included in the Development Charges Background Study such that the DC rates can be adjusted to ensure that sufficient funds are being collected to cover the cost of growth-related initiatives.

4.2 Option A (Recommended) Town staff recommend that Council adopt the 2024 Water and Wastewater Master Plan. as included in Attachments 1 to 7, inclusive of Master Plan Executive Summary, Main Report and all associated Appendices prepared by GM Blue Plan Engineering Ltd.

5. Financial Implications:

The total estimated cost of all 88 projects as identified in the Water and Wastewater Master Plan is approximately \$188M (2023), including HST. All projects are categorized into short-term, medium-term and long-term timeframe. Detailed costs of the water and wastewater improvement projects can be found in the Main Report (Attachment 2). Each of the capital projects as suggested in the 2024 W&WW Master Plan will be brought forward annually for consideration in the Town’s Capital Budget. The following table is a summary of the projects based on jurisdiction and based the short, medium and long-term time horizons:

Timing	No. of Water Projects	Water	No. of Wastewater Projects	Wastewater	Total
Short-term (1-10 years)	40	\$42,273,000	17	\$67,257,000	\$109,530,000
Medium-term (11-20 years)	10	\$26,436,000	9	\$37,281,000	\$63,717,000
Long-term (21-30 years)	8	\$10,767,219	4	\$4,164,000	\$14,931,219
Subtotal:	58	\$79,476,219	30	\$108,702,000	\$188,178,219

6. Alignment with Strategic Plan:

1. A Town that Grows
A Town that grows in support of complete communities
2. A Healthy and Greener Town
Increase Offerings and Opportunities for Active Living
3. An Engaging Town
Increase Community Engagement & Outreach
4. Good Governance
Provide Good Governance
5. Organizational Effectiveness
To Elevate our Organizational Effectiveness

7. Attachments:

1. Attachment 1 - Executive Summary
2. Attachment 2 - Water and Wastewater Master Plan- Main Report

3. Attachment 3 - Appendix A- Desktop Natural Environment
4. Attachment 4 - Appendix B- Cost Framework Tech Memo
5. Attachment 5 - Appendix C- Principles and Policies Review
6. Attachment 6 - Appendix D- Design Criteria and LOS
7. Attachment 7 - Appendix E- Engagement and Consultation

8. Related Reports:

November 16, 2021 – DS-045-21 Contract Award WS-RFP-21-54 Town of Whitchurch-Stouffville Transportation Master Plan

December 6, 2023 – PW-022-23 Endorsement of Daft 2022 Transportation Master Plan

Author: Monika Dhungana, Senior Development Engineer
Alain Cachola, Manager, Development Engineering

For further information on this report, please contact the Department Head: Jack Graziosi, Commissioner at 905-640-1910 or 1-855-642-8697 ext. 2464 or via email at jack.graziosi@townofws.ca