



City of Hamilton
PUBLIC WORKS COMMITTEE
AGENDA

Meeting #: 22-008

Date: May 16, 2022

Time: 1:30 p.m.

Location: Due to the COVID-19 and the Closure of City Hall (CC)

All electronic meetings can be viewed at:

City's Website:

<https://www.hamilton.ca/council-committee/council-committee-meetings/meetings-and-agendas>

City's YouTube Channel:

<https://www.youtube.com/user/InsideCityofHamilton> or Cable 14

Carrie McIntosh, Legislative Coordinator (905) 546-2424 ext. 2729

Pages

1. CEREMONIAL ACTIVITIES

2. APPROVAL OF AGENDA

(Added Items, if applicable, will be noted with *)

3. DECLARATIONS OF INTEREST

4. APPROVAL OF MINUTES OF PREVIOUS MEETING

4.1. May 2, 2022

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5. COMMUNICATIONS

5.1. Correspondence respecting the Dewitt Road Capital Project Road Design

Recommendation: Be received.

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- b. Cam Galindo, Trustee, Wards 9 & 10, Hamilton-Wentworth District School Board 37

6. DELEGATION REQUESTS

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- 7.3. 2021 Annual Wastewater Treatment Bypass Report (PW22036) (City Wide) 57
- 7.4. Clean & Green Neighbourhood Grant 2022 Funding Recommendations (Keep Hamilton Clean and Green - Citizen Committee Report) 62

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9. PUBLIC HEARINGS / DELEGATIONS

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- 10.3. Appropriation Transfer of Funds for Barton Street East – Parkdale to Talbot – 2022 Construction Project (PW22038) (Ward 4) 79
- 10.4. Impact of On-Site and Excess Soils Management Regulation (O. Reg 406/19) and other pressures on Capital Program Costs (PW22039) (City Wide) 88
- 10.5. Budget Increase for Dickenson Rd Trunk Sewer (Airport Employment Growth District) (PW22040) (Ward 11) 96
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11. MOTIONS

12. NOTICES OF MOTION

13. GENERAL INFORMATION / OTHER BUSINESS

13.1. Amendments to the Outstanding Business List

a. Items Requiring a New Due Date:

- a. Improving Truck Route Detouring during Construction Closures

Item on OBL: ABY

Current Due Date: May 16, 2022

Proposed New Due Date: September 19, 2022

- b. Protected Bike Lane Curbs (Hamilton Cycling Committee - Citizen Committee Report)

Item on OBL: ACA

Current Due Date: Q4 2022

Proposed New Due Date: September 19, 2022

- c. Public Information Portal to Track Environmental Issues on City of Hamilton Projects

Item on OBL: ACD

Current Due Date: May 30, 2022

Proposed New Due Date: June 13, 2022

14. PRIVATE AND CONFIDENTIAL

15. ADJOURNMENT



**PUBLIC WORKS COMMITTEE
MINUTES 22-006**

1:30 p.m.

Friday, April 22, 2022

Council Chambers

Hamilton City Hall

71 Main Street West

Present: Councillors N. Nann (Chair), R. Powers (Vice-Chair), J.P. Danko, L. Ferguson, T. Jackson, E. Pauls, M. Pearson and A. VanderBeek

**Absent with
Regrets:** Councillor J. Farr – City Business
Councillor S. Merulla – Personal
Councillor T. Whitehead – Personal

Also Present: Councillors B. Clark, B. Johnson and M. Wilson

THE FOLLOWING ITEMS WERE REFERRED TO COUNCIL FOR CONSIDERATION:

- 1. Clean and Green Hamilton Strategy 2021 Year End Update (PW22023) (City Wide) (Item 7.2)**

(Powers/Pearson)

That Report PW22023, respecting Clean and Green Hamilton Strategy 2021 Year End Update, be received.

Result: Motion CARRIED by a vote of 8 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
YES - Chair - Ward 3 Councillor Ninder Nann
NOT PRESENT - Ward 4 Councillor Sam Merulla
YES - Vice Chair - Ward 5 Councillor Russ Powers
YES - Ward 6 Councillor Tom Jackson
YES - Ward 7 Councillor Esther Pauls
YES - Ward 8 Councillor John-Paul Danko
YES - Ward 10 Councillor Maria Pearson
YES - Ward 12 Councillor Lloyd Ferguson
YES - Ward 13 Councillor Arlene VanderBeek
NOT PRESENT - Ward 14 Councillor Terry Whitehead

2. **myRide Waterdown On-Demand Transit Pilot Six-Month Review (PW22024) (Ward 15) (Item 7.3)**

(Pearson/Powers)

That Report PW22024, myRide Waterdown On-Demand Transit Pilot Six-Month Review, be received.

Result: Motion CARRIED by a vote of 8 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 YES - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 YES - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

3. **Accessible Transportation Services Eligibility Audit Management Response (PW21055(a)) (City Wide) (Item 8.1)**

(Pearson/VanderBeek)

- (a) That the Director of Transit be given delegated authority to create and administer a Policy for applications to Accessible Transportation Services (ATS) services, including making subsequent revisions to the Policy and associated forms and ancillary documents in their reasonable discretion as may be required, so that ATS can conduct a records management exercise for the safety of its clients, expected to conclude by June of 2023.
- (b) That no eligibility re-assessments be undertaken during the above process as set out in (a).
- (c) That the Director of Transit be given delegated authority to update and revise the existing 2005 Accessible Transportation Services Policy entitled Trip No Shows, Late Cancellations and Excessive Cancellations (Appendix "A" attached to Report PW05051 – Policy 2005-01) on an ongoing basis in their reasonable discretion.
- (d) ***That staff be directed to report back to the Public Works Committee and the Advisory Committee for Persons with Disabilities on a quarterly basis respecting Accessible Transportation Services (ATS).***

- (e) ***That staff be directed to undertake a (Re)Envision-based voice of customer consultation process to consider service design and customer experience for users of Accessible Transit Services (ATS) and that this consultation will include broad stakeholder engagement, including but not limited to, existing ATS registrants, DARTS, ACPD and SAC and any other applicable groups.***

Result: Main Motion, As Amended, CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

4. Proposed Sewer Use By-law No. 14-090 Amendments PW19029(a) (City Wide) (Item 9.2)

(Pearson/Jackson)

- (a) That the amending By-law attached as Appendix "A" attached to Report PW19029(a), which amends By-law 14-090, being a By-law to regulate the discharge of any matter into the sewer works, including the sanitary, combined and storm sewer systems of the City of Hamilton and which has been prepared in a form satisfactory to the City Solicitor, be enacted and effective immediately;
- (b) That applicable sewer discharge fees as outlined in Appendix "B" attached to Report PW19029(a) be approved effective immediately;
- (c) That the City Solicitor be authorized and directed to prepare for Council approval, all necessary by-laws to amend the sewer discharge fees to the Water and Wastewater/Storm Fees and Charges By-law 21-234; and,
- (d) That the Director of Hamilton Water be authorized and directed to apply to the Senior Regional Judge for approval of set fines for offences under the Sewer Use By-law when the By-law amendment has been enacted.

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

5. Proposed Permanent Closure and Sale of a Portion of Kerr Street, Dundas (PW22025) (Ward 13) (Item 9.3)

(VanderBeek/Pearson)

That the application of the owner of 35-37 Ogilvie Street, Dundas, to permanently close and purchase a portion of Kerr Street, Dundas ("Subject Lands"), as shown on Appendix "A", attached to Report PW22025, be approved, subject to the following conditions:

- (i) That the City Solicitor be authorized and directed to prepare all necessary by-laws to permanently close and sell the highway, for enactment by Council;
- (ii) The Real Estate Section of the Planning and Economic Development Department be authorized and directed to enter into any requisite easement agreements, right of way agreements, and/or other agreements deemed necessary to affect the orderly disposition of the Subject Lands and to proceed to sell the Subject Lands to the owners of 35-37 Ogilvie Street, Dundas, as described in Report PW22025, in accordance with the City of Hamilton Sale of Land Policy By-law 14-204;
- (iii) The City Solicitor be authorized to complete the transfer of the Subject Lands to 35-37 Ogilvie Street, Dundas pursuant to an Agreement of Purchase and Sale or Offer to Purchase as negotiated by the Real Estate Section of the Planning and Economic Development Department;
- (iv) That the City Solicitor be authorized and directed to register a certified copy of the by-law(s) permanently closing and selling the highway in the proper land registry office;

- (v) That the City Solicitor be authorized to amend and waive such terms as they consider reasonable to give effect to this authorization and direction;
- (vi) That the Public Works Department publish any required notice of the City of Hamilton's intention to pass the by-laws and/or permanently sell the closed highway pursuant to the City of Hamilton Sale of Land Policy By-law 14-204;
- (vii) That the applicant be fully responsible for the deposit of a reference plan in the proper land registry office, and that said plan be prepared by an Ontario Land Surveyor to the satisfaction of the Manager, Geomatics and Corridor Management Section, and that the applicant also deposit a reproducible copy of said plan with the Manager, Geomatics and Corridor Management Section;
- (viii) That the proceeds of the sale of the Subject Lands be transferred to the Transportation, Operations and Maintenance Division for the purpose of repaving the remaining portion of Kerr Street, Dundas in order to accommodate a safe and functional 3-point turn radius for maintenance vehicles, removal of the curb cut and restoration of the sidewalk at the western limit of the Subject Lands, as well as any additional roadway maintenance requirements in Ward 13, to the satisfaction of the Ward Councillor in consultation with Transportation, Operations and Maintenance Division Staff;
- (ix) The applicant constructs a fence (with optional private pedestrian gate) along the western property limit of the Subject Lands within 1 year of successful purchase of the Subject Lands, in accordance with the City of Hamilton Fence By-law 10-142, to the satisfaction of the Ward Councillor;
- (x) That the 3-point turn around area at the southern end of Kerr Street, Hamilton, be signed "No Parking Anytime" and the rest of the east side of Kerr Street be signed "No Parking Anytime, December 1st to March 31st", to the satisfaction of the Manager, Parking Operations and Initiatives.

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson

NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

6. GO Transit Subsidy (PW22021) (City Wide) (Item 10.2)

(VanderBeek/Pauls)

That the General Manager of Public Works or designate be authorized and directed to execute, on behalf of the City of Hamilton, together with any necessary ancillary documents, an amending agreement between the City of Hamilton and Metrolinx relating to a GO Transit subsidy for Hamilton Street Railway Company customers, in accordance with the terms outlined in this Report and in a form acceptable to the City Solicitor.

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

7. Brightside Park – Environmental Reporting (PW22026) (Ward 3) (Item 10.3)

(Nann/Jackson)

- (a) That the single source procurement, pursuant to Procurement Policy #11 – Non-competitive Procurements, for the extension of Contract C11-53-20 Environmental Reporting for Stadium Precinct Community Park as follows be approved:
- (i) \$750,000.00 for the completion of known required environmental reporting works; and,
 - (ii) \$250,000 for additional and unforeseen environmental reporting works until a Record of Site Condition is obtained from the Ministry of the Environment, Conservation and Parks (MECP);
- (b) That the General Manager, Public Works Department be authorized to negotiate and execute an amendment to the Contract and any ancillary

documents required to give effect thereto with WSP Canada Inc., in a form satisfactory to the City Solicitor;

- (c) That the \$1,000,000 budget required for the purchase order extension be funded from existing budget available in project ID 4401456401 – Parkland – Stadium Precinct up to a maximum of \$500,000; and the remaining \$500,000 to be funded by the Parkland Dedication Reserve #104090 and transferred to project ID 4401456401 – Parkland – Stadium Precinct.

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

8. Replacement of Deficient Sidewalk, Curbs and Driveway Approaches (Ward 1) (Item 11.1)

(VanderBeek/Pearson)

WHEREAS, the Transportation Operations & Maintenance Division, reviewed Sanders Boulevard, Pearl Street South, Kent Street, Breadalbane and several other streets in Ward 1 and determined that there are areas requiring sidewalk (1845 sq. m), curb (56 m) and/or driveway apron (152 m) repairs;

WHEREAS, the City of Hamilton is committed to creating safe neighbourhoods and vibrant communities.

THEREFORE, BE IT RESOLVED:

- (a) That removal and replacement of sidewalk, curb, driveway approaches at deficient areas on streets such as, but not limited to, Sanders Boulevard, Pearl Street South, Kent Street, Breadalbane Street, be approved to be completed under contract C15-31-19;
- (b) That removal and replacement of sidewalk, curb, driveway approaches at deficient areas on streets such as, but not limited to, Sanders

Boulevard, Pearl Street South, Kent Street, Breadalbane Street, to be funded from the Ward 1 Capital Re-Investment Reserve Fund (#108051) at an upset limit, including contingency, not to exceed \$240,000, be approved; and

- (c) That the Mayor and City Clerk be authorized and directed to approve and execute any required agreement(s) and ancillary documents, with such terms and conditions in a form satisfactory to the City Solicitor.

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

9. Glanbrook Hills Park Play Structure Improvements (Ward 11) (Item 11.2)

(Jackson/Pauls)

WHEREAS, Glanbrook Hills Park was constructed in 2015, based on formal consultation received by the residents in the area;

WHEREAS, the feedback received during the planning phase of the park included desire to install a natural playground;

WHEREAS, the feedback received from parents in the neighbourhood after installation included concerns related to the usability and ability of small children in particular to use the play structures that are installed at the park; and

WHEREAS, the community has expressed strong desire for a conventional style play structure.

THEREFORE, BE IT RESOLVED:

- (a) That staff and the Ward 11 Councillor's Office work with the local residents to address the concerns raised respecting the Glanbrook Hills Park Play Structure Improvements, including options to remove and replace a portion or all of the play structures at the park, not to exceed \$200,000, to

be funded through the approved Parks Operations 2022 Tax Supported Operating Budget (#444005), and;

- (b) That the Mayor and City Clerk be authorized and directed to approve and execute all required agreements and ancillary documents, with such terms and conditions in a form satisfactory to the City Solicitor.

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

10. Installation of Speed Cushions as a Traffic Calming Measures on Berko Avenue (Ward 7) (Item 11.3)

(Pauls/Jackson)

WHEREAS, residents are requesting the installation of speed cushions on Berko Avenue to address roadway safety concerns as a result of speeding and cut-through traffic.

THEREFORE, BE IT RESOLVED:

- (a) That Transportation and Operations Maintenance staff be authorized and directed to install two speed cushions as a traffic calming measure on Berko Avenue as part of the 2022 Traffic Calming Program's spring application, as follows;
- (i) between Dartford Place to Lawfield Drive, and
 - (ii) between Lawfield Drive to Baroche Street
- (b) That all costs associated with the installation of two speed cushions as traffic calming measures on Berko Avenue be funded from Project ID 4242109703, to be completed under contract # C15-12-22 at an upset limit, including contingency, not to exceed \$14,000; and

- (c) That the Mayor and City Clerk be authorized and directed to execute any required agreement(s) and ancillary documents, with such terms and conditions in a form satisfactory to the City Solicitor.

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

11. Funding for Tree Planting on Hamilton Wentworth District School Board Properties (Ward 8) (Item 11.5)

(Danko/Nann)

WHEREAS, the City of Hamilton has declared a climate emergency;

WHEREAS, through increased tree planting initiatives on public property, the City continues to work towards meeting targets for the 30% urban tree canopy coverage, as set in the Council approved Draft Urban Forestry Strategy;

WHEREAS, increasing the urban tree canopy by planting trees on private property has many environmental benefits to the residents of Ward 8 and the wider City;

WHEREAS, tree planting on District School Board properties is not currently funded under existing City funded tree planting programs; and

WHEREAS, the Hamilton Wentworth District School Board has shown interest in having trees planted on their school properties.

THEREFORE, BE IT RESOLVED:

- (a) That the supply, installation and maintenance, for a period of three consecutive years including the year planted, of 54 large caliper (70mm) trees to be planted on Hamilton Wentworth District School Board properties, at a cost of \$27,000 to be funded from the Ward 8 Special Capital Re-Investment Discretionary Fund (#3302009800), be approved; and

- (b) That the Mayor and City Clerk be authorized and directed to execute any required agreement(s) and ancillary documents, with such terms and conditions in a form satisfactory to the City Solicitor.

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

12. Flood Assessment of Foxtrot Drive and Foxmeadow Drive Neighbourhood (Ward 9) (Item 11.6)

(Jackson/Pauls)

WHEREAS, homes in the Foxtrot and Foxmeadow neighbourhood have experienced a number of flooding events over the last five years;

WHEREAS, the major rain event of August 26, 2021, created another flooding event in the Foxtrot and Foxmeadow neighbourhood;

WHEREAS, the rain also caused over land flooding;

WHEREAS, the rain event created a situation where groundwater was seen to be bubbling up through the ground essentially discharging to the surface;

WHEREAS, the rain event also caused groundwater discharging into basements and yards; and

WHEREAS, groundwater was seen penetrating through the structures used to house backflow valves in basements resulting in flooded basements.

THEREFORE, BE IT RESOLVED:

- (a) That staff be directed to conduct a flood assessment of Foxtrot Drive and Foxmeadow Drive, in response to flood damages to homes in that area, through a consultant engineering assignment to include:

- (i) Assessment of the potential causes of flooding in the neighbourhood including groundwater impacts;
 - (ii) Examination of the hydraulic capacity of the existing storm infrastructure;
 - (iii) Recommendations for the development of a future workplan with tasks to strategically address flooding concerns in the neighbourhood; and
- (b) That the flood assessment of Foxtrot Drive and Foxmeadow Drive neighbourhood be funded through the Ward 9 minor maintenance budget (Project ID 4031911609) for a limit up to \$100,000 in order to initiate work in 2022.
- (c) That the Mayor and City Clerk be authorized and directed to approve and execute all required agreements and ancillary documents, with such terms and conditions in a form satisfactory to the City Solicitor.

Result: Motion CARRIED by a vote of 8 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 YES - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 YES - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

13. Installation of Speed Cushions at Various Locations (Ward 6) (Item 11.7)

(Jackson/Pauls)

WHEREAS, residents are requesting the installation of speed cushions on various roadways in Ward 6 to address roadway safety concerns as a result of speeding and cut-through traffic; and

WHEREAS, petitions were submitted by residents requesting the installation of speed cushions as a traffic calming measure.

THEREFORE, BE IT RESOLVED:

- (a) That Transportation and Operations Maintenance staff be authorized and directed to install up to six speed cushions as a traffic calming measure on the following roadways as part of the 2022 Traffic Calming Program's spring application, as follows:
 - (i) Two speed cushions on Upper Kenilworth Avenue on the section south of Limeridge Road East that terminates at Milkyway Drive and functions as a local roadway:
 - a. between Limeridge Road East to Trenholme Crescent, and
 - b. between Trenholme Crescent to Milkyway Drive
 - (ii) Four speed cushions on East 44th Street:
 - a. between Mohawk Road East to 11th Avenue,
 - b. between 11th Avenue to 10th Avenue,
 - c. between 9th Avenue to Lupin Avenue, and
 - d. between Lupin Avenue to 7th Avenue
- (b) That all costs associated with the installation of traffic calming measures on Upper Kenilworth Avenue and East 44th Street be funded from Project ID 4031911606, to be completed under contract # C15-12-22 at an upset limit, including contingency, not to exceed \$42,000; and
- (c) That the Mayor and City Clerk be authorized and directed to execute any required agreement(s) and ancillary documents, with such terms and conditions in a form satisfactory to the City Solicitor.

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

FOR INFORMATION:**(a) APPROVAL OF AGENDA (Item 2)**

The Committee Clerk advised of the following changes to the agenda:

6. DELEGATION REQUESTS

6.1 Delegation Requests respecting Item 8.1 - Accessible Transportation Services Eligibility Audit Management Response (PW21055(a)) (City Wide) (for today's meeting)

6.1 (b) Tim Nolan

6.1 (c) Aznive Mallett

6.2 Carl Loewith, Joseph Loewith & Sons Dairy Farm, respecting Support of Installation of a Roundabout at the Intersection of Highway 52 and Powerline Road West (for today's meeting) (to be heard following Item 9.1)

6.3 Dana Ferguson respecting Accessibility of Traffic Lights and Pedestrian Crossings in Hamilton (for a future meeting)

9. PUBLIC HEARINGS / DELEGATIONS

9.3 Proposed Permanent Closure and Sale of a Portion of Kerr Street, Dundas (PW22025) (Ward 13)

9.3(a) Registered Speakers

9.3(a)(a) Shirley O'Meara

10. DISCUSSION ITEMS

10.1 Accessible Transportation Services Eligibility Audit Management Response (PW21055(a)) (City Wide) will be moved under Item 8, Staff Presentations as Item 8.1. In accordance with moving this Item, the Delegations originally respecting Item 10.1 will now be referred to Item 8.1. The consideration of the report will be deferred until after the delegates have been heard. Finally, although not a change to the agenda, the Presentation for this Item has been published.

11. MOTIONS

- 11.4 Veevers Park, 688 Greenhill Avenue, Fencing Replacement (Ward 5) – WITHDRAWN as per Councillor Powers' request.

12. NOTICES OF MOTION

- 12.2 Flood Assessment of the Foxtrot Drive and Foxmeadow Drive Neighbourhood (Ward 9) (to be heard following Item 2)
- 12.3 Installation of Speed Cushions at Various Locations (Ward 6)

(Ferguson/Pearson)

That the agenda for the April 22, 2022 Public Works Committee meeting be approved, as amended.

Result: Motion CARRIED by a vote of 8 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 YES - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 YES - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

(b) DECLARATIONS OF INTEREST (Item 3)

There were no declarations of interest.

(c) APPROVAL OF MINUTES OF PREVIOUS MEETING (Item 4)**(i) April 4, 2022 (Item 4.1)****(Pearson/Powers)**

That the Minutes of the April 4, 2022 meeting of the Public Works Committee be approved, as presented.

Result: Motion CARRIED by a vote of 8 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 YES - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 YES - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

(d) DELEGATION REQUESTS (Item 6)**(VanderBeek/Danko)**

That the following Delegation Requests be approved for today's meeting:

- (i) Delegation Requests respecting Item 8.1 - Accessible Transportation Services Eligibility Audit Management Response (PW21055(a)) (City Wide) (for today's meeting) (Item 6.1)
 - (i) James Kemp, Advisory Committee for Persons with Disabilities (Item 6.1(a))
 - (ii) Tim Nolan (Added Item 6.1(b))
 - (iii) Aznive Mallett (Added Item 6.1(c))
- (ii) Carl Loewith, Joseph Loewith & Sons Dairy Farm, respecting Support of Installation of a Roundabout at the Intersection of Highway 52 and Powerline Road West (for today's meeting) (Added Item 6.2)

Result: Motion CARRIED by a vote of 8 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 YES - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 YES - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

(VanderBeek/Danko)

That the following Delegation Request be received for a future meeting:

- (i) Dana Ferguson respecting Accessibility of Traffic Lights and Pedestrian Crossings in Hamilton (for a future meeting) (Added Item 6.3)

Result: Motion CARRIED by a vote of 8 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 YES - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 YES - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

(e) CONSENT ITEMS (Item 7)

(i) Hamilton Cycling Committee Minutes (Item 7.1)

(Pauls/Jackson)

That the following Minutes of the Hamilton Cycling Committee, be received:

- (i) December 1, 2021 (Item 7.1(a))
- (ii) January 5, 2022 (Item 7.1(b))
- (iii) February 2, 2022 (Item 7.1(c))
- (iv) March 2, 2022 (Item 7.1(d))

Result: Motion CARRIED by a vote of 8 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 YES - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls

YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 YES - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

(f) STAFF PRESENTATIONS (Item 8)

(i) Accessible Transportation Services Eligibility Audit Management Response (PW21055(a)) (City Wide) (Item 8.1)

Maureen Cosyn Heath, Director of Transit, provided the Committee with an overview of Report PW21055(a) respecting the Accessible Transportation Services Eligibility Audit Management Response, with the aid of a PowerPoint presentation.

(Powers/Ferguson)

That the presentation respecting Report PW21055(a), Accessible Transportation Services Eligibility Audit Management Response, be received.

Result: Motion CARRIED by a vote of 8 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 YES - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 YES - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

(Pearson/VanderBeek)

(a) That the Director of Transit be given delegated authority to create and administer a Policy for applications to Accessible Transportation Services (ATS) services, including making subsequent revisions to the Policy and associated forms and ancillary documents in their reasonable discretion as may be required, so that ATS can conduct a records management exercise for the safety of its clients, expected to conclude by June of 2023.

- (b) That no eligibility re-assessments be undertaken during the above process as set out in (a).
- (c) That the Director of Transit be given delegated authority to update and revise the existing 2005 Accessible Transportation Services Policy entitled Trip No Shows, Late Cancellations and Excessive Cancellations (Appendix "A" attached to Report PW05051 – Policy 2005-01) on an ongoing basis in their reasonable discretion.

(Jackson/Pearson)

That Report PW21055(a), respecting Accessible Transportation Services Eligibility Audit Management Response be **amended** by adding recommendation (d), to read as follows:

- (d) ***That staff be directed to report back to Public Works Committee and the Advisory Committee for Persons with Disabilities on a quarterly basis respecting Accessible Transportation Services (ATS).***

Result: Amendment CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

(Nann/Danko)

That Report PW21055(a), respecting Accessible Transportation Services Eligibility Audit Management Response be **amended** by adding recommendation (e), to read as follows:

- (e) ***That staff be directed to undertake a (Re)Envision-based voice of customer consultation process to consider service design and customer experience for users of Accessible Transit Services (ATS) and that this consultation will include broad stakeholder engagement, including but not limited to, existing ATS registrants, DARTS, ACPD and SAC and any other applicable groups.***

Result: Amendment CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

For disposition of this matter, refer to Item 3.

(g) PUBLIC HEARINGS / DELEGATIONS (Item 9)

(i) Construction of a Roundabout at the Corner of Highway 52 and Powerline Road, Ancaster (Item 9.1)

(Ferguson/Pauls)

That David Jones, Turn On Powerline, be granted an additional 2 minutes, beyond the 5-minute time limit, to complete their delegation respecting construction of a roundabout at the corner of Highway 52 and Powerline Road, Ancaster.

Result: Motion CARRIED by a vote of 7 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 YES - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

David Jones, Turn On Powerline addressed the Committee respecting construction of a roundabout at the corner of Highway 52 and Powerline Road, Ancaster.

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Carl Loewith, Joseph Loewith & Sons Dairy Farm addressed the Committee respecting construction of a roundabout at the corner of Highway 52 and Powerline Road, Ancaster.

(Ferguson/VanderBeek)

That the following delegations respecting construction of a roundabout at the corner of Highway 52 and Powerline Road, Ancaster, be received:

- (i) David Jones, Turn On Powerline
- (ii) Carl Loewith, Joseph Loewith & Sons Dairy Farm

Result: Motion CARRIED by a vote of 7 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 YES - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

(Ferguson/VanderBeek)

That the process for installing a roundabout at the intersection of Highway 52 and Powerline Road, at the parking entrance to the Hamilton Conservation Authority property, be referred to Transportation Operations & Maintenance staff for a report back to Public Works Committee.

Result: Motion CARRIED by a vote of 7 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 YES - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

(ii) Proposed Sewer Use By-law No. 14-090 Amendments (PW19029(a)) (City Wide) (Item 9.2)

Councillor Nann advised that notice of the Proposed Sewer Use By-law No. 14-090 Amendments (PW19029(a)), was given as required under the City's By-law 07-351 – The Public Notice By-law.

Hector Quintero, Superintendent Environmental Monitoring & Enforcement addressed Committee respecting Report (PW19029(a)), Proposed Sewer Use By-law No. 14-090 Amendments, with the aid of a PowerPoint presentation.

The Committee Clerk advised there were no registered speakers.

(Pearson/Jackson)

That the presentation respecting Report (PW19029(a)), Proposed Sewer Use By-law No. 14-090 Amendments, be received.

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

(Pauls/Pearson)

That the public meeting be closed.

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko

YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

For disposition of this matter, refer to Item 4.

(iii) Proposed Permanent Closure and Sale of a Portion of Kerr Street, Dundas (PW22025) (Ward 13) (Item 9.3)

Councillor Nann advised that notice of the Proposed Permanent Closure and Sale of a Portion of Kerr Street, Dundas (PW22025), was given as required under the City's By-law 14-204 - the Sale of Land Policy By-law.

The Committee Clerk advised that there was one registered speaker.

1. Shirley O'Meara (Item 9.1(a)(a))

Shirley O'Meara was not present when called upon.

(Jackson/Danko)

That the presentation be waived.

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

(Pearson/VanderBeek)

That the public meeting be closed.

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla

NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

For disposition of this matter, refer to Item 5.

(iv) Delegation Requests respecting Accessible Transportation Services Eligibility Audit Management Response (PW21055(a))(City Wide) (Item 8.1) (for today's meeting) (Item 9.4)

The following Delegates addressed Committee respecting Item 8.1 Accessible Transportation Services Eligibility Audit Management Response (PW21055(a)) (City Wide):

- (i) James Kemp, Advisory Committee for Persons with Disabilities (Item 9.4(a))
- (ii) Tim Nolan (Item 9.4(b))
- (iii) Aznive Mallett (Item 9.4(c))

(Ferguson/Pauls)

That Tim Nolan be granted an additional 5 minutes, beyond the 5-minute time limit, to complete their delegation respecting Report PW21055(a), Accessible Transportation Services Eligibility Audit Management Response (PW21055(a))(City Wide).

Result: Motion CARRIED by a vote of 8 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 YES - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 YES - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

(Ferguson/VanderBeek)

That the presentations from the following delegates respecting Item 8.1 Accessible Transportation Services Eligibility Audit Management Response (PW21055(a)) (City Wide), be received:

- (i) James Kemp, Advisory Committee for Persons with Disabilities (Item 9.4(a))
- (ii) Tim Nolan (Item 9.4(b))
- (iii) Aznive Mallett (Item 9.4(c))

Result: Motion CARRIED by a vote of 8 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 YES - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 YES - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

For disposition of this matter, refer to Item 3.

(h) DISCUSSION ITEMS (Item 10)

(i) Brightside Park – Environmental Reporting (PW22026) (Ward 3) (Item 10.3)

Councillor Nann relinquished the Chair to Councillor VanderBeek in order to move the recommendation respecting Report PW22026, Brightside Park – Environmental Reporting.

For disposition of this matter, refer to Item 7.

Councillor Nann assumed the Chair.

(i) NOTICES OF MOTION (Item 12)**(i) Joint Action by City of Hamilton and Hamilton Police Service to Improve Pedestrian Safety (City Wide) (Item 12.1)**

Councillor Danko introduced the following Notice of Motion:

WHEREAS, in 2019 Hamilton City Council approved the City of Hamilton Vision Zero Action Plan 2019-2025 which identifies that fatalities and serious injuries on our roads are preventable and that no loss of life is acceptable;

WHEREAS, the Vision Zero Action Plan 2019-2025 recognizes that using a safe systems approach that focuses on safe drivers, safe speeds, safe roads and safe vehicles is fundamental to achieving the plan's goals;

WHEREAS, a key component to the Vision Zero Action Plan 2019-2025 is the City of Hamilton Strategic Road Safety Committee whose mandate is to guide the implementation of the Vision Zero Action Plan and is comprised of members from the Public Works Department, Planning and Economic Development Department, Hamilton Police Services, Hamilton Fire Department, Public Health, Hamilton Wentworth District School Board and the Hamilton Wentworth Catholic District School Board;

WHEREAS, in 2020 Hamilton City Council approved funding to create eight dedicated traffic enforcement officers within Hamilton Police Services;

WHEREAS, in 2021, Hamilton Police Service launched a 20-member centralized traffic enforcement unit to respond to traffic-related issues in the City with a strategic City-wide approach with the goal of reducing collision, injuries and deaths for all roadway users;

WHEREAS, roadway safety efforts have resulted in a steady year over year decline in the total number of people being injured on City of Hamilton roadways since 2016; and

WHEREAS, notwithstanding roadway safety and Vision Zero initiatives, the annual total number of fatal collisions has not trended downwards and there have been eight pedestrian deaths in 2022 as of April.

THEREFORE, BE IT RESOLVED:

- (a) That the Transportation Operations & Maintenance Division, through their facilitation of the City of Hamilton Strategic Road Safety Committee, identify opportunities for enhancements to the collaboration of efforts specifically related to roadway safety

improvements and traffic enforcement by leveraging annual collision statistics and Hamilton Police Services collision reconstruction investigation forensics;

- (b) That the Transportation Operations & Maintenance Division, through their facilitation of the City of Hamilton Strategic Road Safety Committee, isolate specific dangers to vulnerable road user safety (pedestrians and cyclists) and determine joint efforts that can be undertaken for both traffic enforcement and preventative measures delivered through infrastructure improvements; and
- (c) That the Transportation Operations & Maintenance Division report back to the Public Works Committee regarding any roadway safety improvements and traffic enforcement enhancements or opportunities to improve pedestrian safety identified during the completion of items (a) and (b), including implementation and identification of any funding and/or resource requirements.

(ii) Flood Assessment of Foxtrot Drive and Foxmeadow Drive Neighbourhood (Ward 9) (Item 12.2)

(Jackson/Pauls)

That the Rules of Order be waived to allow for the introduction of a Motion respecting Flood Assessment of Foxtrot Drive and Foxmeadow Drive Neighbourhood (Ward 9).

Result: Motion CARRIED by a 2/3 majority vote of 8 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 YES - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 YES - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

For disposition of this matter, refer to Item 12.

(iii) Installation of Speed Cushions at Various Locations (Ward 6) (Item 12.3)

(Jackson/Pauls)

That the Rules of Order be waived to allow for the introduction of a Motion respecting Installation of Speed Cushions at Various Locations (Ward 6).

Result: Motion CARRIED by a 2/3 majority vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann
 NOT PRESENT - Ward 4 Councillor Sam Merulla
 NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
 YES - Ward 6 Councillor Tom Jackson
 YES - Ward 7 Councillor Esther Pauls
 YES - Ward 8 Councillor John-Paul Danko
 YES - Ward 10 Councillor Maria Pearson
 NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
 YES - Ward 13 Councillor Arlene VanderBeek
 NOT PRESENT - Ward 14 Councillor Terry Whitehead

For disposition of this matter, refer to Item 13.

(f) GENERAL INFORMATION / OTHER BUSINESS (Item 13)

(i) Amendments to the Outstanding Business List (Item 13.1)

(Pearson/VanderBeek)

That the following amendments to the Public Works Committee's Outstanding Business List, be approved.

(a) Items Considered Complete and Needing to be Removed (Item 13.1 (a)):

13.1(a)(a) Public Bike Share Program Phased Procurement Process
 Addressed as Item 20, GIC Budget Report 22-002 (PED20109(d))
 Item on OBL: ABL

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
 YES - Chair - Ward 3 Councillor Nrinder Nann

NOT PRESENT - Ward 4 Councillor Sam Merulla
NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
YES - Ward 6 Councillor Tom Jackson
YES - Ward 7 Councillor Esther Pauls
YES - Ward 8 Councillor John-Paul Danko
YES - Ward 10 Councillor Maria Pearson
NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
YES - Ward 13 Councillor Arlene VanderBeek
NOT PRESENT - Ward 14 Councillor Terry Whitehead

(h) ADJOURNMENT (Item 15)

(Pearson/VanderBeek)

That there being no further business, the meeting adjourned at 4:58 p.m.

Result: Motion CARRIED by a vote of 6 to 0, as follows:

NOT PRESENT - Ward 2 Councillor Jason Farr
YES - Chair - Ward 3 Councillor Nrinder Nann
NOT PRESENT - Ward 4 Councillor Sam Merulla
NOT PRESENT - Vice Chair - Ward 5 Councillor Russ Powers
YES - Ward 6 Councillor Tom Jackson
YES - Ward 7 Councillor Esther Pauls
YES - Ward 8 Councillor John-Paul Danko
YES - Ward 10 Councillor Maria Pearson
NOT PRESENT - Ward 12 Councillor Lloyd Ferguson
YES - Ward 13 Councillor Arlene VanderBeek
NOT PRESENT - Ward 14 Councillor Terry Whitehead

Respectfully submitted,

Councillor N. Nann, Chair,
Public Works Committee

Carrie McIntosh
Legislative Coordinator
Office of the City Clerk

From: [Lakewood Beach Community Council](#)
To: [McIntosh, Carrie](#); [Pimentel, Danny](#); dvdbeukel@gmail.com
Cc: [Nann, Nrinder](#); [Powers, Russ](#); [Danko, John-Paul](#); [Ferguson, Lloyd](#); [Jackson, Tom](#); [Pauls, Esther](#); [Pearson, Maria](#); [VanderBeek, Arlene](#); [Farr, Jason](#); [Merulla, Sam](#); [Whitehead, Terry](#); [REDACTED]
Subject: Re: Dewitt Road Capital Project - Road Design
Date: Sunday, May 1, 2022 7:59:42 PM
Attachments: [image.png](#)
[image.png](#)

P.S. further to our email earlier today, we've now been made aware that an elderly pedestrian (senior) was struck at the all way stop optional intersection of Dewitt and MacIntosh approximately 3 weeks ago. Location is depicted below.



Lakewood Beach Community Council

From: Lakewood Beach Community Council

Sent: May 1, 2022 12:59 PM

To: carrie.mcintosh@hamilton.ca <carrie.mcintosh@hamilton.ca>; danny.pimentel@hamilton.ca <danny.pimentel@hamilton.ca>; dvdbeukel@gmail.com <dvdbeukel@gmail.com>

Cc: nrinder.nann@hamilton.ca <nrinder.nann@hamilton.ca>; Powers, Russ <Russ.Powers@hamilton.ca>; Danko, John-Paul <john-paul.danko@hamilton.ca>; Ferguson, Lloyd <lloyd.ferguson@hamilton.ca>; tom.jackson@hamilton.ca <tom.jackson@hamilton.ca>; Pauls, Esther <Esther.Pauls@hamilton.ca>; Maria Pearson <maria.pearson@hamilton.ca>;

arlene.vanderbeek@hamilton.ca <arlene.vanderbeek@hamilton.ca>; jason.farr@hamilton.ca <jason.farr@hamilton.ca>; sam.merulla@hamilton.ca <sam.merulla@hamilton.ca>; terry.whitehead@hamilton.ca <terry.whitehead@hamilton.ca>; [REDACTED]
[REDACTED]

Subject: Dewitt Road Capital Project - Road Design

Dear Members of Public Works Committee and Hamilton Cycle Committee,

We would like to request Committee consider endorsing, reviewing and/or consulting the community users of this roadway on an alternative road design similar to the pic below and which is guided by Vision Zero & Complete Streets principles

It has been brought to our attention that there is a \$4.2M capital road works / water works project scheduled for this July/August for an approximate 1 km stretch on Dewitt Road between Barton St and Highway 8. For those that don't know, there are 2 schools located on the east side of Dewitt, one of which is the public High School our community's children attend, as well as school playgrounds, football field and Brewster Pool. Hence, we have an interest in the road design.

It appears that the project will entail digging up the boulevards, curbs, and sidewalks to install upgraded water/wastewater lines and spending funds on replacing the same road infrastructure in the same locations; with the exception of painted bike lanes being added on the east and west sides of the fairly wide asphalt portions of the roadway.

Over the last number of years, many members of the public have expressed their concerns on the present unsafe conditions of that stretch of roadway. The plan to paint bike lanes, instead of a segregated cycling path, has raised additional safety concerns due to the increased likelihood of unsafe interactions between vulnerable users during vehicle drop off/pick ups at the 2 schools.

While we appreciate that the Bid/Tender has already been awarded, we do have some familiarity with amended purchase orders for capital projects and believe that if there is a will to invest in a safer road design, it can be done at this time.

Thank you in advance for your consideration of a rethink of the design of this stretch of roadway to ensure upon completion, we haven't missed an opportunity to invest in providing the public with a safer road network along this chaotic stretch.

Kind regards,

Viv / Anna / Nancy
Lakewood Beach Community Council



From: [Cam Galindo \[Trustee\]](#)
To: [McIntosh, Carrie](#)
Subject: Dewitt Road Capital Project - Road Design
Date: Wednesday, May 4, 2022 5:49:13 PM

Hi Carrie,

I'm adding my voice to this request. Thank you.

We would like to request Committee consider endorsing, reviewing and/or consulting the community users of this roadway on an alternative road design similar to the pic below and which is guided by Vision Zero & Complete Streets principles

It has been brought to our attention that there is a \$4.2M capital road works / water works project scheduled for this July/August for an approximate 1 km stretch on Dewitt Road between Barton St and Highway 8. For those that don't know, there are 2 schools located on the east side of Dewitt, one of which is the public High School our community's children attend, as well as school playgrounds, football field and Brewster Pool. Hence, we have an interest in the road design.

It appears that the project will entail digging up the boulevards, curbs, and sidewalks to install upgraded water/wastewater lines and spending funds on replacing the same road infrastructure in the same locations; with the exception of painted bike lanes being added on the east and west sides of the fairly wide asphalt portions of the roadway.

Over the last number of years, many members of the public have expressed their concerns on the present unsafe conditions of that stretch of roadway. The plan to paint bike lanes, instead of a segregated cycling path, has raised additional safety concerns due to the increased likelihood of unsafe interactions between vulnerable users during vehicle drop off/pick ups at the 2 schools.

While we appreciate that the Bid/Tender has already been awarded, we do have some familiarity with amended purchase orders for capital projects and believe that if there is a will to invest in a safer road design, it can be done at this time.

Thank you in advance for your consideration of a rethink of the design of this stretch of roadway to ensure upon completion, we haven't missed an opportunity to invest in providing the public with a safer road network along this chaotic stretch.


Cam Galindo
Trustee, Wards 9 & 10
Hamilton-Wentworth District School Board
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Curiosity.Creativity.Possibility.HWDSB



INFORMATION REPORT

TO:	Chair and Members Public Works Committee
COMMITTEE DATE:	May 16, 2022
SUBJECT/REPORT NO:	Annual Watermain Break Report – 2021 (PW22031) (City Wide)
WARD(S) AFFECTED:	City Wide
PREPARED BY:	Dave Alberton (905) 546-2424 Ext. 1090
SUBMITTED BY:	Shane McCauley Acting Director, Water and Wastewater Operations Public Works Department
SIGNATURE:	

COUNCIL DIRECTION

On January 23, 2019 Council directed staff to provide the Public Works Committee with an annual report on watermain breaks, the total number, cause and cost of each break, as well as the distance of water mains relined with total cost and overall report on sustainability.

INFORMATION

Total Number, Cause and Cost of Watermain Breaks

In 2021, Hamilton Water experienced a total of 261 watermain breaks resulting in a total repair cost of approximately \$2.25M. The total repair cost is the summation of repair cost valued at \$1.48M (including excavation, repair, and temporary restoration), and permanent restoration valued at approximately \$0.77M. Approximately 39% of the watermain breaks were caused by corrosion, 57% were caused by ground movement, and 4% were the result of displaced pipe joints. A summary of watermain breaks by cost and mode of failure is provided in Appendix “A” attached to Report PW22031. A detailed report of the cost and mode of failure of each watermain break is provided in Appendix “B” attached to Report PW22031.

OUR Vision: To be the best place to raise a child and age successfully.

OUR Mission: To provide high quality cost conscious public services that contribute to a healthy, safe and prosperous community, in a sustainable manner.

OUR Culture: Collective Ownership, Steadfast Integrity, Courageous Change, Sensational Service, Engaged Empowered Employees.

**SUBJECT: Annual Watermain Break Report - 2021
(PW22031) (City Wide) - Page 2 of 4**

On average, from 2012 to 2021, the City of Hamilton (City) experienced approximately 308 watermain breaks per year. However, this average is affected by significantly higher numbers of watermain breaks in 2014 (440) and 2015 (433). The increased number of watermain breaks in 2014 and 2015 were the result of abnormally low winter temperatures caused by polar vortex events. A summary of total watermain breaks by year is provided in Appendix “C” attached to Report PW22031.

Distance and Cost of Watermain Relining Program

The Engineering Services Division monitors and tracks the length and cost of watermains that are replaced and rehabilitated (relined). Since 2003 Engineering Services has lined 84.4km of watermain at cost of \$70,687,013. In 2021 the length of watermains rehabilitated (relined) was 5km at an approximate cost of \$7.3M. The length of watermains replaced was 4km and the cost of watermains replaced was approximately \$5.3M. A 10-year summary of watermain replacements and rehabilitation is provided in Appendix “D” attached to Report PW22031 and the same information is tabulated in Table 1 below.

Table 1 - Length and Cost of Watermain Replacement and Rehabilitation

Year	Rehabilitated		Replaced	
	Pipe (Km)	\$ (Millions)	Pipe (Km)	\$ (Millions)
2010	6.2	\$3.4	5.7	\$8.4
2011	6.3	\$2.8	8.9	\$6.8
2012	3.3	\$2.7	9.1	\$17.6
2013	3.9	\$4.3	6.3	\$11.5
2014	6.4	\$5.4	10.5	\$16.1
2015	6.3	\$5.5	9.0	\$10.5
2016	4.2	\$5.5	5.0	\$7.0
2017	7.3	\$6.5	6.6	\$8.7
2018	5.3	\$4.6	5.2	\$6.0
2019	6.0	\$5.5	3.7	\$5.0
2020	5.6	\$6.2	5.1	\$9.5
2021	5.0	\$7.3	4.0	\$5.3
Total	65.8	\$59.7	79.1	\$102.4
% of Overall Inventory	3.03%	-	3.64%	-

From 2022 through 2031, the City plans to spend \$180.6M on watermain replacement and rehabilitation projects. A summary of the projects that have been approved in principle as part of the 10-year Water, Wastewater and Storm Rate Budget is provided in Appendix “E” attached to Report PW22031.

**SUBJECT: Annual Watermain Break Report - 2021
(PW22031) (City Wide) - Page 3 of 4**

The strategic asset management program for watermains is currently in progress to comply with O.Reg. 588/17 under the Infrastructure for Jobs and Prosperity Act that requires an Asset Management Plan (AMP) for all core assets, including watermains, to be approved by Council by July 1, 2022.

The Hamilton Water Division, Water Distribution and Wastewater Collection Section is responsible for maintenance and repairs of the City's watermains throughout the asset lifecycle. This work adheres to the strict legislative requirements surrounding potable water in municipal distribution networks, issued by the Ministry of the Environment, Conservation, and Parks (MECP).

The primary objective of the City's asset management, maintenance, and repair programs for watermains are to ensure the uninterrupted supply of high-quality potable water to the City's residents and industrial, commercial and institutional customers. It is very important to note that the City's water distribution systems are designed with a significant amount of redundancy, such that sections of watermain can be isolated for maintenance and repairs to be completed with minimal to no disruption to the supply of potable water to our customers.

The City has 199.8 kilometers of transmission mains ($\geq 450\text{mm}$) and 1,970.8km of local watermains for a total of 2,170.6km of watermains.

Transmission mains are large watermains which allow for large volumes of water to be transported across the City to fill potable water storage facilities (reservoirs and towers), to supply water pumping stations, and to supply local watermains. Transmission mains carry the largest risk for the City in terms of ensuring that the supply of potable water remains uninterrupted.

Local watermains, or distribution mains, are smaller (400mm or less), and they supply potable water to the serviced properties within the City. As mentioned previously, the distribution network for local watermains includes a significant amount of redundancy, such that sections of watermain can be isolated for maintenance and repairs to be completed with minimal to no disruption to the supply of potable water to our customers.

Approximately 35% of the City's transmission watermains, and 21% of the distribution watermains were installed prior to 1951. Similarly, approximately 38% of the transmission watermains, and 31% of the distribution watermains were installed between 1951 and 1980. A summary of the City's transmission and distribution watermain inventory is provided in Appendix "F" attached to Report PW22031.

The Water Distribution and Wastewater Collection Section will continue to repair watermain breaks as they arise. The Hamilton Water Division will also continue to work collaboratively with the Engineering Services Division and the Corporate Asset

**SUBJECT: Annual Watermain Break Report - 2021
(PW22031) (City Wide) - Page 4 of 4**

Management Team to ensure that aging watermain are rehabilitated or replaced in a timely and cost-effective manner. This includes providing periodic updates to City Council on the state of the watermain infrastructure, and the sustainability of the rehabilitation/replacement program through the Corporate Asset Management Plan, the Annual Drinking Water Report, and the Annual Watermain Break Report.

APPENDICES AND SCHEDULES ATTACHED

Appendix "A" to Report PW22031 - Summary of Watermain Breaks by Cost and Mode of Failure

Appendix "B" to Report PW22031 - Detailed Watermain Break Mode of Failure and Cost Data

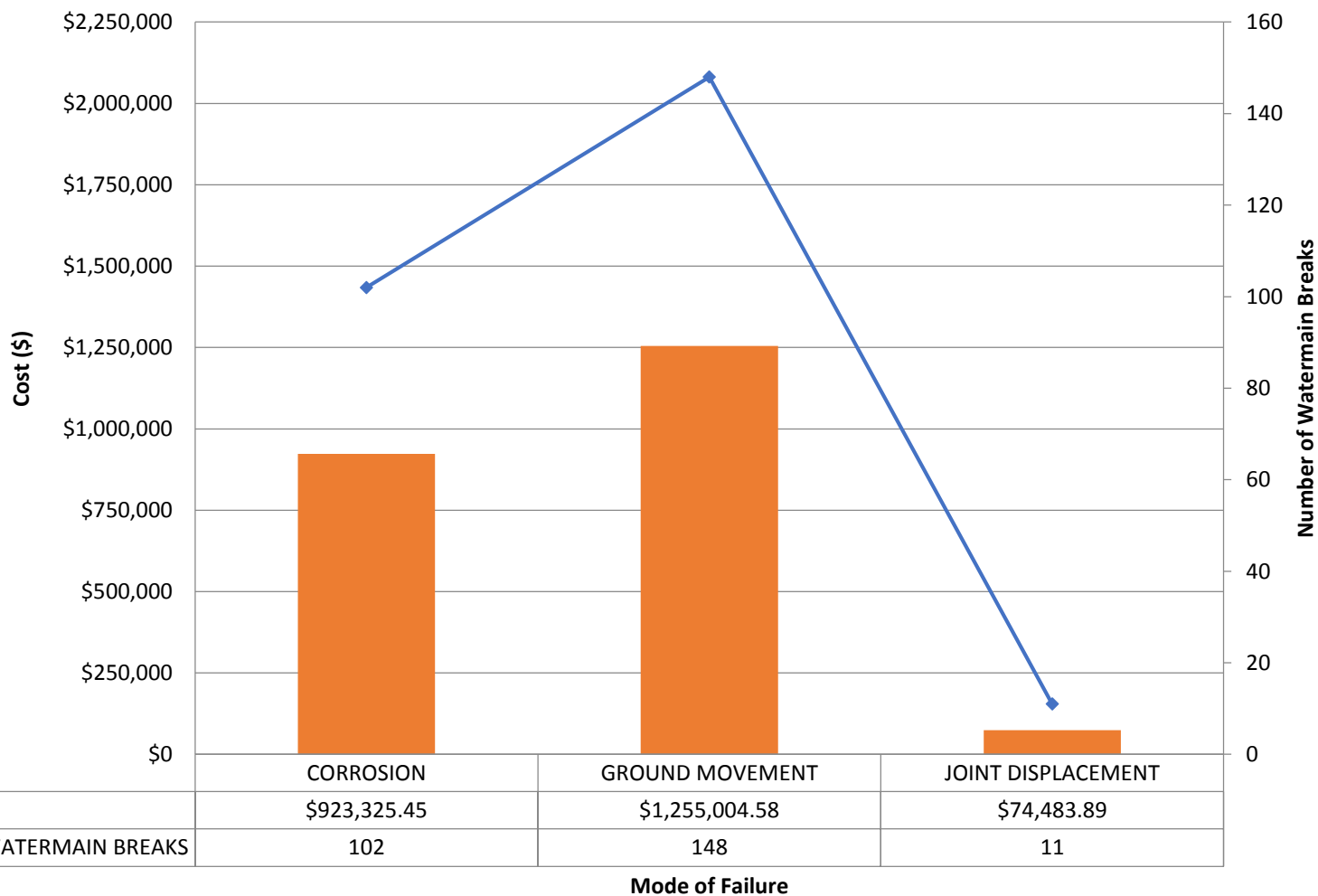
Appendix "C" to Report PW22031 - Summary of Total Watermain Breaks by Year

Appendix "D" to Report PW22031 - 10-Year Summary of Watermain Replacements and Rehabilitation

Appendix "E" to Report PW22031 - Summary of Approved in Principle, Watermain Replacement and Rehabilitation Projects in 10-year Water, Wastewater and Storm Rate Budget

Appendix "F" to Report PW22031 - Summary of the City's Transmission and Distribution Watermain Inventory by Age

2021 Number and Cost of Watermain Breaks by Mode of Failure



Detailed Watermain Break Cause and Cost Summary Data

Item #	Ward	Work Order #	Mode of Failure	Address	Municipality	Completed	Total
1	1	7036373	GROUND MOVEMENT	157 STANLEY AVE	HAMILTON	30/12/2021	\$ 3,842.93
2	1	7033905	GROUND MOVEMENT	5 BINKLEY CRES	HAMILTON	11/12/2021	\$ 9,299.66
3	1	6958539	CORROSION	ABERDEEN AVE	HAMILTON	27/07/2021	\$ 11,735.40
4	1	6938328	CORROSION	BEULAH AVE	HAMILTON	15/06/2021	\$ 4,246.91
5	1	6938329	GROUND MOVEMENT	BEULAH AVE	HAMILTON	15/06/2021	\$ 3,091.34
6	1	7020254	GROUND MOVEMENT	BEULAH AVE	HAMILTON	19/11/2021	\$ 3,002.94
7	1	6837997	GROUND MOVEMENT	BOWMAN ST	HAMILTON	12/01/2021	\$ 4,518.30
8	1	7056525	GROUND MOVEMENT	CHATHAM ST	HAMILTON	09/12/2021	\$ 4,512.50
9	1	6958005	CORROSION	DALEVIEW CRT	HAMILTON	26/07/2021	\$ 7,123.91
10	1	6854371	GROUND MOVEMENT	DESJARDINS CRT	HAMILTON	12/02/2021	\$ 5,691.81
11	1	6962251	CORROSION	DUNDURN ST	HAMILTON	10/08/2021	\$ 8,920.60
12	1	6975800	GROUND MOVEMENT	DUNDURN ST	HAMILTON	01/09/2021	\$ 11,463.71
13	1	6867813	GROUND MOVEMENT	HOLMES AVE	HAMILTON	27/02/2021	\$ 8,746.89
14	1	6844358	GROUND MOVEMENT	HOMEWOOD AVE	HAMILTON	26/01/2021	\$ 5,543.22
15	1	6845032	GROUND MOVEMENT	LELAND ST	HAMILTON	25/01/2021	\$ 4,175.64
16	1	7031368	GROUND MOVEMENT	MARKLAND ST	HAMILTON	08/12/2021	\$ 7,931.41
17	1	6878688	GROUND MOVEMENT	ROANOKE RD	HAMILTON	08/03/2021	\$ 5,647.12
18	1	6974257	GROUND MOVEMENT	STROUD RD	HAMILTON	30/08/2021	\$ 6,573.67
19	1	6957193	CORROSION	STUDHOLME RD	HAMILTON	25/07/2021	\$ 11,815.52
20	1	6941179	GROUND MOVEMENT	WILSON ST	ANCASTER	23/06/2021	\$ 9,385.10
21	2	6852922	GROUND MOVEMENT	160 JOHN ST	HAMILTON	09/02/2021	\$ 15,199.28
22	2	6844673	CORROSION	605 JAMES ST	HAMILTON	25/01/2021	\$ 9,534.84
23	2	6855989	GROUND MOVEMENT	BAY ST	HAMILTON	15/02/2021	\$ 9,509.56
24	2	6856054	GROUND MOVEMENT	BAY ST	HAMILTON	15/02/2021	\$ 3,290.11
25	2	6834018	CORROSION	BAY ST	HAMILTON	04/01/2021	\$ 14,467.30
26	2	6988625	CORROSION	BAY ST	HAMILTON	25/09/2021	\$ 9,664.60
27	2	7017654	CORROSION	CAROLINE ST	HAMILTON	12/11/2021	\$ 4,346.19
28	2	6980711	CORROSION	CAROLINE ST	HAMILTON	11/09/2021	\$ 10,101.26
29	2	6853200	GROUND MOVEMENT	CATHARINE ST	HAMILTON	09/02/2021	\$ 5,377.88
30	2	6902169	CORROSION	GUISE ST	HAMILTON	06/04/2021	\$ 11,107.11
31	2	7021884	CORROSION	HUGHSON ST	HAMILTON	22/11/2021	\$ 15,712.38
32	2	7023635	CORROSION	HUGHSON ST	HAMILTON	22/11/2021	\$ 1,706.69
33	2	6893960	CORROSION	JAMES ST	HAMILTON	24/03/2021	\$ 60,435.24
34	2	6894054	CORROSION	JAMES ST	HAMILTON	24/03/2021	\$ 1,706.69
35	2	6894142	CORROSION	JAMES ST	HAMILTON	24/03/2021	\$ 1,706.69
36	2	6853538	GROUND MOVEMENT	JOHN ST	HAMILTON	10/02/2021	\$ 20,180.48
37	2	6947270	GROUND MOVEMENT	MACNAB ST	HAMILTON	06/07/2021	\$ 1,706.69
38	2	6843058	GROUND MOVEMENT	MAIN ST	HAMILTON	21/01/2021	\$ 13,558.41
39	2	6950202	GROUND MOVEMENT	WALNUT ST	HAMILTON	12/07/2021	\$ 8,022.12
40	3	6977408	GROUND MOVEMENT	120 BLAKE ST	HAMILTON	16/09/2021	\$ 4,274.60
41	3	7034763	GROUND MOVEMENT	182 CAVELL AVE	HAMILTON	14/12/2021	\$ 5,529.42
42	3	7019469	CORROSION	21 BARNESDALE AVE	HAMILTON	16/11/2021	\$ 6,358.89
43	3	6976836	CORROSION	819 CANNON ST	HAMILTON	02/09/2021	\$ 6,515.81
44	3	6980169	CORROSION	AVONDALE ST	HAMILTON	12/09/2021	\$ 3,942.21
45	3	6988634	CORROSION	GERRARD ST	HAMILTON	26/09/2021	\$ 14,493.86
46	3	6961934	CORROSION	HUNTER ST	HAMILTON	04/08/2021	\$ 6,381.65
47	3	6980548	CORROSION	HUNTLEY ST	HAMILTON	13/09/2021	\$ 4,374.44
48	3	6926742	GROUND MOVEMENT	KING WILLIAM ST	HAMILTON	17/06/2021	\$ 82,481.72
49	3	6851695	GROUND MOVEMENT	SANFORD AVE	HAMILTON	06/02/2021	\$ 12,487.89
50	3	7008147	CORROSION	SHERMAN AVE	HAMILTON	20/10/2021	\$ 1,706.69
51	3	6880898	GROUND MOVEMENT	STINSON ST	HAMILTON	10/03/2021	\$ 6,233.83
52	4	6855968	GROUND MOVEMENT	OTTAWA ST	HAMILTON	14/02/2021	\$ 55,659.96
53	4	6909117	JOINT DISPLACEMENT	1220 CANNON ST	HAMILTON	21/04/2021	\$ 7,876.42
54	4	6879970	JOINT DISPLACEMENT	318 BRITANNIA AVE	HAMILTON	08/03/2021	\$ 7,284.81
55	4	6902853	CORROSION	ARLINGTON RD	HAMILTON	07/04/2021	\$ 4,323.14
56	4	6958706	GROUND MOVEMENT	BEACH RD	HAMILTON	29/07/2021	\$ 7,729.14
57	4	7048421	CORROSION	BRAMPTON ST	HAMILTON	18/12/2021	\$ 12,715.54
58	4	6882921	GROUND MOVEMENT	CANNON ST	HAMILTON	15/03/2021	\$ 9,149.53
59	4	6972491	CORROSION	COCHRANE RD	HAMILTON	25/08/2021	\$ 6,753.52
60	4	6846286	GROUND MOVEMENT	DELENA AVE	HAMILTON	28/01/2021	\$ 4,912.21
61	4	7035632	GROUND MOVEMENT	DELENA AVE	HAMILTON	15/12/2021	\$ 4,279.36

Detailed Watermain Break Cause and Cost Summary Data

Item #	Ward	Work Order #	Mode of Failure	Address	Municipality	Completed	Total
62	4	6911080	GROUND MOVEMENT	DUNN AVE	HAMILTON	26/04/2021	\$ 4,847.40
63	4	7018948	CORROSION	GLENCARRY AVE	HAMILTON	15/11/2021	\$ 9,440.41
64	4	7020136	CORROSION	GLENCARRY AVE	HAMILTON	18/11/2021	\$ 3,697.75
65	4	6963560	GROUND MOVEMENT	GLENHOLME AVE	HAMILTON	18/10/2021	\$ 5,749.11
66	4	6968367	GROUND MOVEMENT	GLOW AVE	HAMILTON	17/08/2021	\$ 11,783.12
67	4	6857060	GROUND MOVEMENT	GRACE AVE	HAMILTON	17/02/2021	\$ 3,917.29
68	4	7021685	CORROSION	GREENHILL AVE	HAMILTON	25/11/2021	\$ 8,804.20
69	4	6994347	CORROSION	GREENHILL AVE	HAMILTON	07/10/2021	\$ 9,644.63
70	4	7020048	CORROSION	IPSWICH RD	HAMILTON	17/11/2021	\$ 17,613.73
71	4	6851855	CORROSION	LAMPTON PL	HAMILTON	08/02/2021	\$ 5,741.39
72	4	6854535	JOINT DISPLACEMENT	LUCERNE AVE	HAMILTON	11/02/2021	\$ 10,858.52
73	4	6955952	GROUND MOVEMENT	MAIN ST	HAMILTON	22/07/2021	\$ 1,706.69
74	4	6955931	CORROSION	MAIN ST	HAMILTON	22/07/2021	\$ 44,430.26
75	4	6856065	JOINT DISPLACEMENT	MELVIN AVE	HAMILTON	15/02/2021	\$ 8,626.46
76	5	6967760	CORROSION	187 BOW VALLEY DR	HAMILTON	16/08/2021	\$ 6,999.64
77	5	6905953	CORROSION	2 VILLAGE GRN	STONEY CREEK	13/04/2021	\$ 4,528.02
78	5	7021696	GROUND MOVEMENT	265 CENTENNIAL PKY	HAMILTON	21/11/2021	\$ 14,275.87
79	5	7024093	GROUND MOVEMENT	40 ALPINE AVE	STONEY CREEK	26/11/2021	\$ 3,994.04
80	5	7019565	GROUND MOVEMENT	46 GREENFORD DR	HAMILTON	22/11/2021	\$ 2,517.57
81	5	6856014	GROUND MOVEMENT	BARTON ST	HAMILTON	15/02/2021	\$ 6,104.32
82	5	6856993	GROUND MOVEMENT	BARTON ST	HAMILTON	17/02/2021	\$ 6,722.74
83	5	6858118	GROUND MOVEMENT	BARTON ST	HAMILTON	18/02/2021	\$ 8,454.05
84	5	6853552	GROUND MOVEMENT	BATTLEFIELD DR	STONEY CREEK	10/02/2021	\$ 4,935.51
85	5	6845611	GROUND MOVEMENT	FIRST ST	STONEY CREEK	27/01/2021	\$ 6,620.41
86	5	6845075	GROUND MOVEMENT	GAINSBOROUGH RD	HAMILTON	26/01/2021	\$ 10,430.83
87	5	6851098	GROUND MOVEMENT	GREENFORD DR	HAMILTON	05/02/2021	\$ 5,701.41
88	5	7015345	GROUND MOVEMENT	HART PL	HAMILTON	06/11/2021	\$ 3,843.16
89	5	6840654	GROUND MOVEMENT	LAKE AVE	HAMILTON	18/01/2021	\$ 6,843.85
90	5	6851854	GROUND MOVEMENT	LAKE AVE	HAMILTON	08/02/2021	\$ 5,402.37
91	5	7052811	GROUND MOVEMENT	SUNRISE DR	HAMILTON	29/12/2021	\$ 6,928.59
92	5	7027706	CORROSION	SUNRISE DR	HAMILTON	30/11/2021	\$ 6,515.31
93	6	6914861	GROUND MOVEMENT	1195 FENNEL AVE	HAMILTON	19/05/2021	\$ 9,448.98
94	6	6839597	GROUND MOVEMENT	17 SUNNING HILL AVE	HAMILTON	15/01/2021	\$ 4,428.57
95	6	6914889	GROUND MOVEMENT	64 KINGSLEA DR	HAMILTON	07/06/2021	\$ 3,495.11
96	6	6913081	GROUND MOVEMENT	81 RENO AVE	HAMILTON	11/05/2021	\$ 5,536.24
97	6	6976578	CORROSION	990 UPPER KENILWORTH AVE	HAMILTON	02/09/2021	\$ 4,149.91
98	6	7052517	GROUND MOVEMENT	CHOPIN CRT	HAMILTON	29/12/2021	\$ 4,092.88
99	6	6900222	GROUND MOVEMENT	CROYDON CRT	HAMILTON	31/03/2021	\$ 5,033.73
100	6	6883385	GROUND MOVEMENT	FERNWOOD CRES	HAMILTON	16/03/2021	\$ 5,020.23
101	6	6858324	CORROSION	ROWNTREE DR	HAMILTON	24/02/2021	\$ 4,357.98
102	6	6840903	GROUND MOVEMENT	SUNNING HILL AVE	HAMILTON	20/01/2021	\$ 4,532.61
103	6	6881161	GROUND MOVEMENT	TENTH AVE	HAMILTON	10/03/2021	\$ 4,391.51
104	6	6971124	GROUND MOVEMENT	UPPER GAGE AVE	HAMILTON	22/08/2021	\$ 17,699.76
105	6	6989098	GROUND MOVEMENT	UPPER KENILWORTH AVE	HAMILTON	29/09/2021	\$ 4,803.72
106	6	6852465	GROUND MOVEMENT	UPPER OTTAWA ST	HAMILTON	08/02/2021	\$ 26,940.92
107	6	6835009	CORROSION	MILES RD	HAMILTON	06/01/2021	\$ 8,693.91
108	7	6899155	GROUND MOVEMENT	106 FIELDING CRES	HAMILTON	05/04/2021	\$ 4,684.45
109	7	6905107	GROUND MOVEMENT	11 EAST 35TH ST	HAMILTON	14/04/2021	\$ 5,373.54
110	7	6905707	GROUND MOVEMENT	26 EAST 34TH ST	HAMILTON	28/04/2021	\$ 5,277.30
111	7	6988632	CORROSION	271 FENNEL AVE	HAMILTON	26/09/2021	\$ 13,653.37
112	7	6907852	GROUND MOVEMENT	278 EAST 35TH ST	HAMILTON	23/04/2021	\$ 5,586.67
113	7	6907289	GROUND MOVEMENT	804 BRUCEDALE AVE	HAMILTON	27/04/2021	\$ 4,333.27
114	7	6996346	GROUND MOVEMENT	BOBOLINK RD	HAMILTON	13/10/2021	\$ 6,737.15
115	7	6981148	CORROSION	BORDEAUX CRT	HAMILTON	13/09/2021	\$ 7,826.20
116	7	6909773	GROUND MOVEMENT	DUNCOMBE DR	HAMILTON	23/04/2021	\$ 3,857.88
117	7	6916595	GROUND MOVEMENT	EAST 14TH ST	HAMILTON	02/06/2021	\$ 4,544.25
118	7	6957197	CORROSION	EAST 16TH ST	HAMILTON	25/07/2021	\$ 8,674.79
119	7	6909291	GROUND MOVEMENT	EAST 26TH ST	HAMILTON	22/04/2021	\$ 5,987.58
120	7	6971132	CORROSION	EAST 27TH ST	HAMILTON	23/08/2021	\$ 8,404.62
121	7	6912901	GROUND MOVEMENT	EAST 35TH ST	HAMILTON	29/04/2021	\$ 4,937.19
122	7	6903853	GROUND MOVEMENT	EAST 36TH ST	HAMILTON	02/05/2021	\$ 7,127.77

Detailed Watermain Break Cause and Cost Summary Data

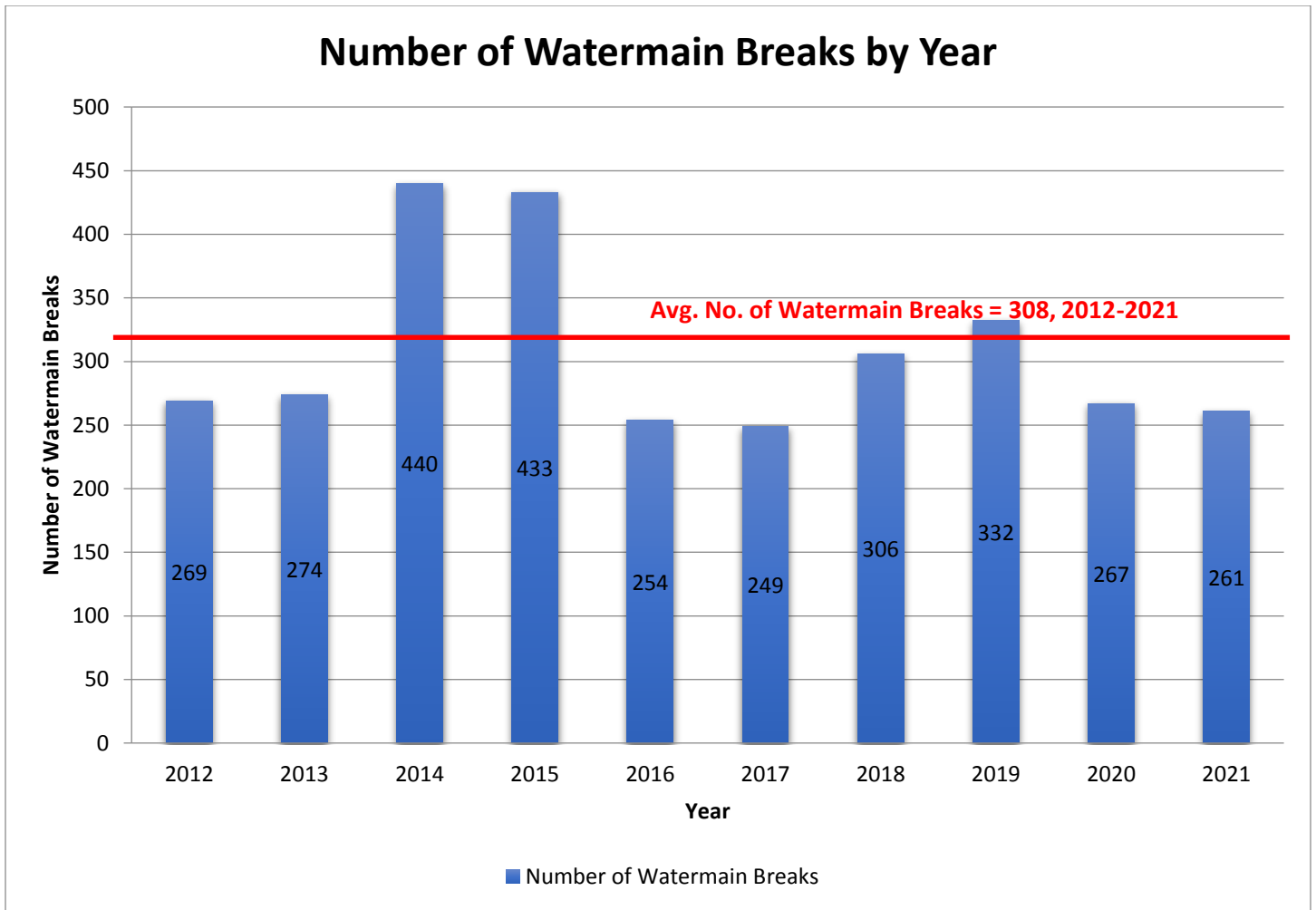
Item #	Ward	Work Order #	Mode of Failure	Address	Municipality	Completed	Total
123	7	6852776	GROUND MOVEMENT	FIELDING CRES	HAMILTON	08/02/2021	\$ 3,950.56
124	7	6904230	GROUND MOVEMENT	MEADOWLARK DR	HAMILTON	24/04/2021	\$ 3,483.91
125	7	6993771	GROUND MOVEMENT	MILLWOOD PL	HAMILTON	20/10/2021	\$ 4,984.50
126	7	6923585	CORROSION	RICARDO CRT	HAMILTON	20/05/2021	\$ 2,357.11
127	7	6917104	JOINT DISPLACEMENT	SALEM AVE	HAMILTON	20/06/2021	\$ 4,324.51
128	7	6904369	GROUND MOVEMENT	TANAGER AVE	HAMILTON	12/04/2021	\$ 4,786.18
129	7	6899438	GROUND MOVEMENT	UPPER WENTWORTH ST	HAMILTON	02/04/2021	\$ 10,873.62
130	7	6864099	CORROSION	UPPER WENTWORTH ST	HAMILTON	23/02/2021	\$ 12,271.61
131	7	6917011	GROUND MOVEMENT	VOLA CRT	HAMILTON	16/05/2021	\$ 5,246.90
132	8	6879512	GROUND MOVEMENT	119 SENECA AVE	HAMILTON	06/03/2021	\$ 7,488.87
133	8	7033910	CORROSION	125 ALLENBY AVE	HAMILTON	12/12/2021	\$ 8,813.90
134	8	6977989	CORROSION	151 FENNEL AVE	HAMILTON	06/09/2021	\$ 11,455.78
135	8	6852179	GROUND MOVEMENT	28 MILLEN AVE	HAMILTON	09/02/2021	\$ 5,634.19
136	8	7021703	GROUND MOVEMENT	297 HAWKRIDGE AVE	HAMILTON	21/11/2021	\$ 10,579.76
137	8	6971108	CORROSION	578 UPPER JAMES ST	HAMILTON	21/08/2021	\$ 19,266.77
138	8	6995747	GROUND MOVEMENT	598 UPPER JAMES ST	HAMILTON	11/10/2021	\$ 6,163.72
139	8	6914921	CORROSION	81 DESCHENE AVE	HAMILTON	03/05/2021	\$ 1,706.69
140	8	6914943	CORROSION	81 DESCHENE AVE	HAMILTON	03/05/2021	\$ 1,706.69
141	8	6988671	CORROSION	ALLENBY AVE	HAMILTON	26/09/2021	\$ 7,458.71
142	8	6967382	GROUND MOVEMENT	AUCHMAR RD	HAMILTON	16/09/2021	\$ 3,631.88
143	8	6858042	GROUND MOVEMENT	AUCHMAR RD	HAMILTON	17/02/2021	\$ 9,321.24
144	8	6917283	JOINT DISPLACEMENT	BELVIDERE AVE	HAMILTON	06/06/2021	\$ 5,449.62
145	8	6920974	CORROSION	BRANTDALE AVE	HAMILTON	23/06/2021	\$ 3,245.03
146	8	6848596	GROUND MOVEMENT	BRUCEDALE AVE	HAMILTON	30/01/2021	\$ 13,785.64
147	8	6919242	GROUND MOVEMENT	BUCHANAN ST	HAMILTON	18/06/2021	\$ 3,789.60
148	8	6833332	GROUND MOVEMENT	CALEDON AVE	HAMILTON	01/01/2021	\$ 10,141.99
149	8	6970975	GROUND MOVEMENT	CHURCHILL AVE	HAMILTON	20/08/2021	\$ 6,143.99
150	8	6864923	GROUND MOVEMENT	CLOVERHILL RD	HAMILTON	24/02/2021	\$ 8,887.84
151	8	6973827	CORROSION	DELMAR DR	HAMILTON	27/08/2021	\$ 7,425.24
152	8	6974156	CORROSION	DELMAR DR	HAMILTON	28/08/2021	\$ 6,223.86
153	8	6868293	GROUND MOVEMENT	EAST 6TH ST	HAMILTON	02/03/2021	\$ 8,557.48
154	8	6917158	GROUND MOVEMENT	EAST 8TH ST	HAMILTON	10/05/2021	\$ 4,173.89
155	8	6856757	GROUND MOVEMENT	FENNEL AVE	HAMILTON	17/02/2021	\$ 48,372.28
156	8	6973313	CORROSION	FENNEL AVE	HAMILTON	26/08/2021	\$ 6,987.61
157	8	6973653	CORROSION	FENNEL AVE	HAMILTON	27/08/2021	\$ 3,922.88
158	8	6953672	CORROSION	GARTH ST	HAMILTON	18/07/2021	\$ 9,914.52
159	8	6859809	GROUND MOVEMENT	HAWKRIDGE AVE	HAMILTON	20/02/2021	\$ 5,692.99
160	8	7035556	CORROSION	HAWKRIDGE AVE	HAMILTON	14/12/2021	\$ 7,122.92
161	8	6911064	GROUND MOVEMENT	HAYDEN ST	HAMILTON	09/05/2021	\$ 3,767.59
162	8	6978012	CORROSION	HESTER ST	HAMILTON	07/09/2021	\$ 13,549.16
163	8	6971131	GROUND MOVEMENT	QUEENSDALE AVE	HAMILTON	23/08/2021	\$ 6,128.77
164	8	7029326	CORROSION	RYMAL RD	HAMILTON	02/12/2021	\$ 8,548.00
165	8	6974253	CORROSION	SPRINGSIDE DR	HAMILTON	30/08/2021	\$ 13,254.30
166	8	6855741	GROUND MOVEMENT	TALISMAN CRT	HAMILTON	13/02/2021	\$ 12,005.67
167	8	6971123	GROUND MOVEMENT	UPPER JAMES ST	HAMILTON	22/08/2021	\$ 8,954.15
168	8	6878993	GROUND MOVEMENT	WEST 16TH ST	HAMILTON	05/03/2021	\$ 8,192.27
169	8	6882919	GROUND MOVEMENT	WEST 19TH ST	HAMILTON	15/03/2021	\$ 5,549.66
170	9	6994587	CORROSION	CHILTON DR	STONE CREEK	07/10/2021	\$ 4,019.63
171	9	6980729	JOINT DISPLACEMENT	LYTON CRES	STONE CREEK	13/09/2021	\$ 4,833.43
172	9	6837683	GROUND MOVEMENT	RYMAL RD	STONE CREEK	11/01/2021	\$ 6,673.08
173	9	6958700	CORROSION	SECOND RD	STONE CREEK	28/07/2021	\$ 10,850.66
174	9	7009345	CORROSION	UPPER MOUNT ALBION RD	STONE CREEK	24/10/2021	\$ 13,152.99
175	10	7052812	GROUND MOVEMENT	18 MIDWAY ST	STONE CREEK	29/12/2021	\$ 5,290.68
176	10	6850361	GROUND MOVEMENT	332 GLOVER RD	STONE CREEK	04/02/2021	\$ 7,032.06
177	10	7050507	GROUND MOVEMENT	394 WINONA RD	STONE CREEK	23/12/2021	\$ 5,838.29
178	10	6985048	GROUND MOVEMENT	786 BARTON ST	STONE CREEK	21/09/2021	\$ 4,167.76
179	10	6843735	CORROSION	DOSCO DR	STONE CREEK	21/01/2021	\$ 4,869.03
180	10	6894561	GROUND MOVEMENT	EASTDALE BLVD	STONE CREEK	19/05/2021	\$ 7,141.80
181	10	7032822	GROUND MOVEMENT	GATESHEAD CRES	STONE CREEK	17/12/2021	\$ 4,522.37
182	10	7035628	CORROSION	GLEN CASTLE DR	STONE CREEK	15/12/2021	\$ 8,816.37
183	10	6869286	GROUND MOVEMENT	GREEN RD	STONE CREEK	03/03/2021	\$ 25,444.46

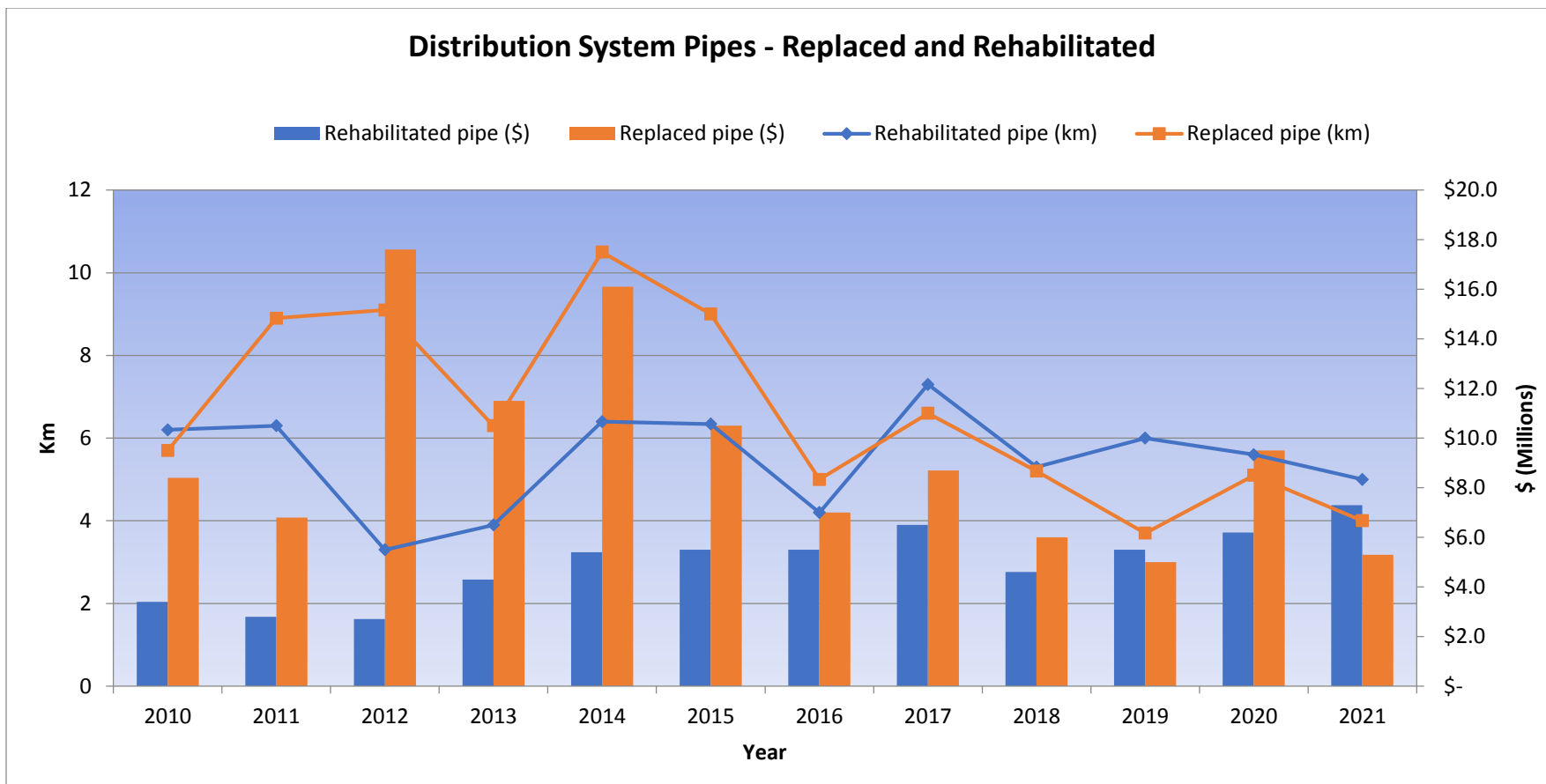
Detailed Watermain Break Cause and Cost Summary Data

Item #	Ward	Work Order #	Mode of Failure	Address	Municipality	Completed	Total
184	10	6865067	GROUND MOVEMENT	GREEN RD	STONE CREEK	24/02/2021	\$ 8,866.22
185	10	6834569	CORROSION	HARBRITE DR	STONE CREEK	05/01/2021	\$ 1,706.69
186	10	6834071	CORROSION	HARBRITE DR	STONE CREEK	05/01/2021	\$ 24,206.26
187	10	7035627	GROUND MOVEMENT	JONES RD	STONE CREEK	15/12/2021	\$ 7,272.37
188	10	6864080	CORROSION	LAKEVIEW DR	STONE CREEK	23/02/2021	\$ 10,582.36
189	10	6974245	CORROSION	MACINTOSH DR	STONE CREEK	29/08/2021	\$ 16,626.97
190	10	6988622	GROUND MOVEMENT	MAPLE DR	STONE CREEK	27/09/2021	\$ 4,630.02
191	10	7036314	CORROSION	MIDWAY ST	STONE CREEK	16/12/2021	\$ 3,395.68
192	10	6835740	GROUND MOVEMENT	MILLEN RD	STONE CREEK	07/01/2021	\$ 23,651.15
193	10	6974256	JOINT DISPLACEMENT	PURITAN ST	STONE CREEK	30/08/2021	\$ 5,812.13
194	10	6852513	CORROSION	VISION PL	STONE CREEK	08/02/2021	\$ 4,519.70
195	11	6975541	JOINT DISPLACEMENT	STROUD RD	HAMILTON	31/08/2021	\$ 3,793.68
196	11	6900192	CORROSION	GLOVER RD	GLANBROOK	30/03/2021	\$ 9,598.78
197	12	6856079	GROUND MOVEMENT	1058 SULPHUR SPRINGS RD	ANCASTER	16/02/2021	\$ 11,708.64
198	12	6891969	CORROSION	1275 WILSON ST	ANCASTER	18/03/2021	\$ 5,105.00
199	12	6855060	GROUND MOVEMENT	ELM HILL BLVD	ANCASTER	12/02/2021	\$ 8,833.26
200	12	6838108	CORROSION	FILMAN RD	ANCASTER	12/01/2021	\$ 11,071.83
201	12	6856742	GROUND MOVEMENT	HOSTEIN DR	ANCASTER	16/02/2021	\$ 11,002.14
202	12	6860947	CORROSION	JUDITH CRES	ANCASTER	22/02/2021	\$ 3,640.11
203	12	7004850	CORROSION	LIME KILN RD	ANCASTER	14/10/2021	\$ 9,963.33
204	12	6996514	GROUND MOVEMENT	LOWDEN AVE	ANCASTER	31/10/2021	\$ 4,656.88
205	12	6904013	GROUND MOVEMENT	OAKLEY CRT	ANCASTER	08/04/2021	\$ 13,247.51
206	13	6934881	CORROSION	12 THORNTON TR	DUNDAS	13/06/2021	\$ 8,391.35
207	13	6837197	GROUND MOVEMENT	227 YORK RD	DUNDAS	10/01/2021	\$ 5,396.55
208	13	6983673	CORROSION	47 SKYLINE DR	DUNDAS	16/09/2021	\$ 6,761.13
209	13	6910972	CORROSION	59 SKYLINE DR	DUNDAS	23/04/2021	\$ 4,737.33
210	13	6854195	CORROSION	6 THORNTON TR	DUNDAS	11/02/2021	\$ 11,258.70
211	13	7021691	CORROSION	9 HOMESTEAD AVE	DUNDAS	20/11/2021	\$ 7,016.47
212	13	7021793	GROUND MOVEMENT	AUTUMN LEAF RD	DUNDAS	22/11/2021	\$ 4,203.12
213	13	6984994	GROUND MOVEMENT	HOMESTEAD AVE	DUNDAS	22/09/2021	\$ 4,263.78
214	13	6992384	GROUND MOVEMENT	KING ST	DUNDAS	02/10/2021	\$ 37,025.79
215	13	6992344	CORROSION	KING ST	DUNDAS	02/10/2021	\$ 1,706.69
216	13	6844498	GROUND MOVEMENT	MARION CRES	DUNDAS	25/01/2021	\$ 6,959.70
217	13	6883563	CORROSION	MOSS BLVD	DUNDAS	16/03/2021	\$ 5,093.57
218	13	6837218	CORROSION	OLD GUELPH RD	DUNDAS	11/01/2021	\$ 5,792.56
219	13	6865387	CORROSION	PARKWAY PL	DUNDAS	25/02/2021	\$ 5,565.10
220	13	6936275	GROUND MOVEMENT	THORNTON TR	DUNDAS	22/06/2021	\$ 4,188.40
221	13	6854244	GROUND MOVEMENT	TURNBULL RD	DUNDAS	11/02/2021	\$ 8,265.62
222	13	6853842	GROUND MOVEMENT	TURNBULL RD	DUNDAS	10/02/2021	\$ 3,556.41
223	13	6852946	CORROSION	WATSONS LANE	DUNDAS	09/02/2021	\$ 7,059.90
224	13	6867410	JOINT DISPLACEMENT	YORK RD	DUNDAS	01/03/2021	\$ 9,322.90
225	14	7030914	GROUND MOVEMENT	1133 UPPER PARADISE RD	HAMILTON	09/12/2021	\$ 5,761.58
226	14	7030186	GROUND MOVEMENT	168 BONAVENTURE DR	HAMILTON	04/12/2021	\$ 9,376.28
227	14	6868058	GROUND MOVEMENT	37 SAN GRECO DR	HAMILTON	01/03/2021	\$ 5,776.55
228	14	6944481	GROUND MOVEMENT	44 WEST 27TH ST	HAMILTON	24/08/2021	\$ 3,740.43
229	14	6843053	GROUND MOVEMENT	625 UPPER PARADISE RD	HAMILTON	21/01/2021	\$ 12,131.07
230	14	6988631	CORROSION	700 MOHAWK RD	HAMILTON	26/09/2021	\$ 7,733.35
231	14	6948209	GROUND MOVEMENT	706 SCENIC DR	HAMILTON	09/08/2021	\$ 5,237.78
232	14	6927195	GROUND MOVEMENT	CHATEAU CRT	HAMILTON	31/05/2021	\$ 3,944.08
233	14	6891898	GROUND MOVEMENT	CLIFTON DOWNS RD	HAMILTON	19/03/2021	\$ 4,773.74
234	14	6957153	GROUND MOVEMENT	COLQUHOUN CRES	HAMILTON	02/09/2021	\$ 3,271.93
235	14	6926116	GROUND MOVEMENT	KAREN CRES	HAMILTON	27/05/2021	\$ 4,575.07
236	14	6893397	CORROSION	MOUNTAIN CREST AVE	HAMILTON	23/03/2021	\$ 5,710.29
237	14	6925909	GROUND MOVEMENT	SAN PAULO DR	HAMILTON	29/05/2021	\$ 3,851.09
238	14	6953671	CORROSION	SANATORIUM RD	HAMILTON	18/07/2021	\$ 12,208.56
239	14	6995133	GROUND MOVEMENT	SANATORIUM RD	HAMILTON	08/10/2021	\$ 5,887.11
240	14	6923831	GROUND MOVEMENT	SCENIC DR	HAMILTON	21/05/2021	\$ 4,983.67
241	14	6868052	CORROSION	SCENIC DR	HAMILTON	28/02/2021	\$ 12,977.96
242	14	6971658	CORROSION	SCENIC DR	HAMILTON	23/08/2021	\$ 8,528.93
243	14	6858202	GROUND MOVEMENT	UPPER PARADISE RD	HAMILTON	17/02/2021	\$ 14,076.76
244	14	6858231	GROUND MOVEMENT	UPPER PARADISE RD	HAMILTON	17/02/2021	\$ 20,943.83

Detailed Watermain Break Cause and Cost Summary Data

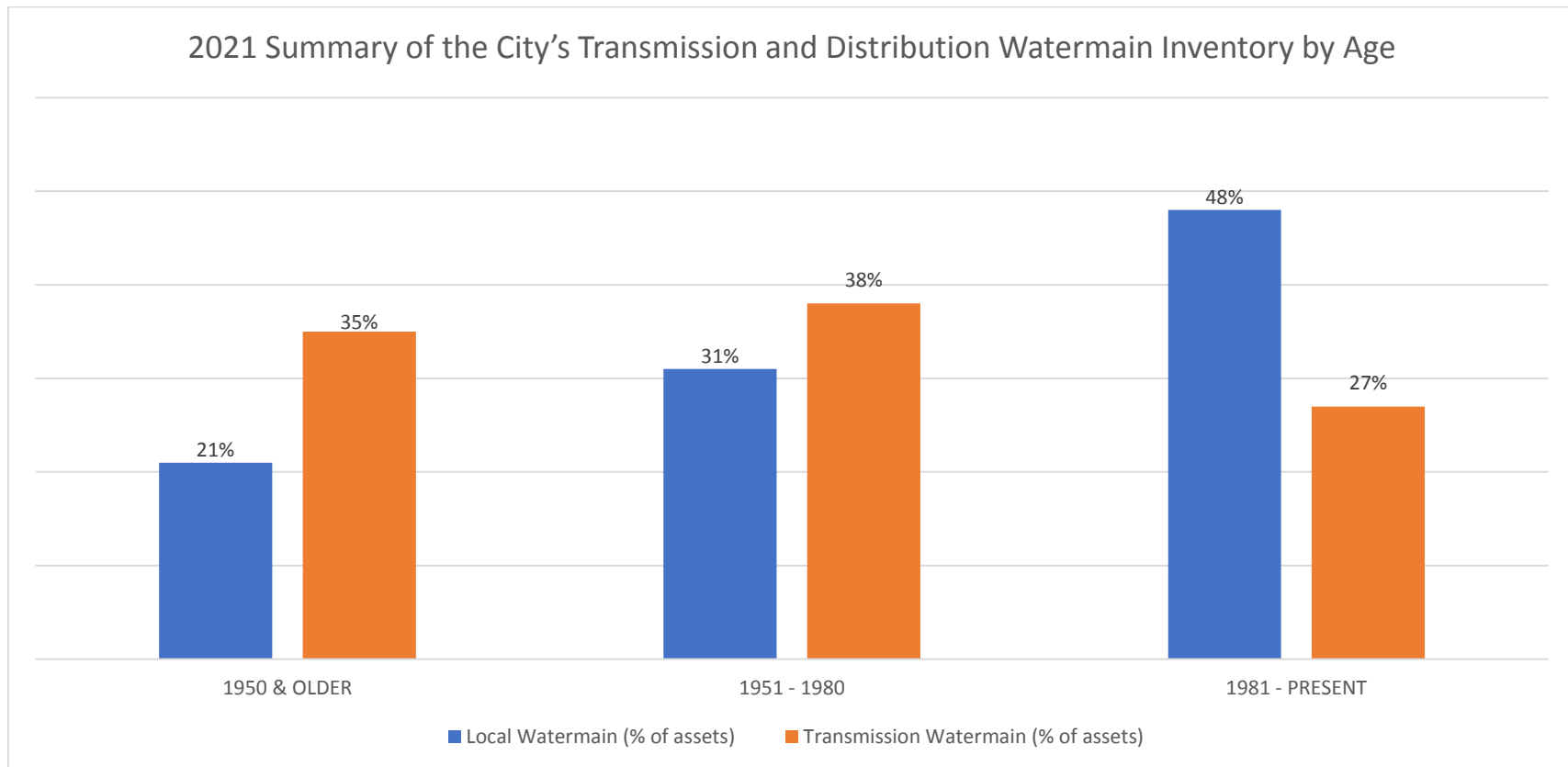
Item #	Ward	Work Order #	Mode of Failure	Address	Municipality	Completed	Total
245	14	6880834	GROUND MOVEMENT	UPPER PARADISE RD	HAMILTON	10/03/2021	\$ 6,844.00
246	14	7021839	GROUND MOVEMENT	UPPER PARADISE RD	HAMILTON	23/11/2021	\$ 11,116.42
247	14	6840658	CORROSION	UPPER PARADISE RD	HAMILTON	17/01/2021	\$ 15,634.33
248	14	6902041	CORROSION	WENDOVER DR	HAMILTON	04/04/2021	\$ 9,480.34
249	14	6984272	CORROSION	WEST 24TH ST	HAMILTON	19/09/2021	\$ 9,170.50
250	15	6992181	GROUND MOVEMENT	14 FIRESIDE DR	FLAMBOROUGH	24/11/2021	\$ 6,487.29
251	15	6985004	JOINT DISPLACEMENT	26 FIRESIDE DR	FLAMBOROUGH	23/09/2021	\$ 6,301.41
252	15	7013855	CORROSION	427 DUNDAS ST	FLAMBOROUGH	03/11/2021	\$ 8,834.07
253	15	6881503	CORROSION	DUNDAS ST	FLAMBOROUGH	11/03/2021	\$ 22,437.83
254	15	6902035	CORROSION	DUNDAS ST	FLAMBOROUGH	03/04/2021	\$ 7,586.13
255	15	6960175	CORROSION	FIRESIDE DR	FLAMBOROUGH	30/07/2021	\$ 6,889.29
256	15	6969483	GROUND MOVEMENT	GRINDSTONE WAY	FLAMBOROUGH	18/08/2021	\$ 8,464.83
257	15	6969733	CORROSION	GRINDSTONE WAY	FLAMBOROUGH	18/08/2021	\$ 1,706.69
258	15	6976686	CORROSION	MILVERTON CL	FLAMBOROUGH	01/09/2021	\$ 11,541.65
259	15	6908699	CORROSION	MILVERTON CL	FLAMBOROUGH	20/04/2021	\$ 7,073.38
260	15	6972842	GROUND MOVEMENT	MILVERTON CL	FLAMBOROUGH	25/08/2021	\$ 8,603.65
261	15	6841511	GROUND MOVEMENT	WELLINGTON ST	FLAMBOROUGH	19/01/2021	\$ 3,372.15






Watermain Relining and Replacement Projects 2022 Rates Budget

Description	Start	End	2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		10 Year Total	
			Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
Beach Trunkmain Rehab	2017	2022	1,500	1,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,500	1,500
Burlington - James to Ferguson	2022	2022	1,200	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,200	1,200
CCBF - Corktown Neighbourhood	2022	2022	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	400	-
Concession / Mountain Brow - Upper Gage to Oakcrest	2022	2022	2,200	2,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,200	2,200
Eastmount Neighbourhood - Water	2022	2022	210	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	210	160
Fairfield - Barton to Britannia	2022	2022	500	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500	500
Glenmorris / Underhill / Sleepy Hollow / Wilmar (York Heights / Hunter NBHD)	2022	2022	1,000	1,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,000	1,000
Governor's - Main to Ogilvie (Bridge 296)	2022	2022	400	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	400	400
Kelvin - Old Orchard to south end	2022	2022	100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100
Kenilworth Transmission Watermain Renewal	2017	2022	600	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600	600
Marion - Longwood to Dromore	2021	2022	440	440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	440	440
Strathearne - Main to Britannia	2022	2022	900	900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	900	900
Watermain Structural Lining	2021	2046	5,300	-	6,200	6,200	6,200	6,200	6,200	6,200	6,200	6,200	6,200	6,200	6,200	6,200	6,200	6,200	6,200	6,200	6,200	6,200	61,100	55,800
Woodward Treatment Plant Filter Building - Flume Watermain Lining	2022	2022	2,000	2,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000	2,000
Barton - Sherman to Ottawa	2023	2023	-	-	10,000	10,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,000	10,000
Duke - Hess to west end & Robinson - Queen to west end	2023	2024	-	-	50	50	300	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	350	350
Hatt & Bond - King to Market	2021	2023	-	-	800	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	800	800
Upper Centennial - Rymal to Mud	2023	2024	-	-	100	100	6,000	6,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6,100	6,100
Bold - Queen to Locke	2021	2024	-	-	-	-	700	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	700	700
Bridge 451 - Hwy 5 E, 120m e/o Mill St S	2024	2031	-	-	-	-	140	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140	140
Ferguson/Foster/Walnut/Patrick	2022	2024	-	-	-	-	1,710	1,710	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,710	1,710
Hughson - Simcoe to Brock & Wood - James to Hughson	2024	2024	-	-	-	-	1,550	1,550	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,550	1,550
Pinelands / Teal / Garden / Community / Greensfield	2024	2024	-	-	-	-	1,830	1,830	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,830	1,830
Rymal - Upper Ottawa to Dartnall	2024	2024	-	-	-	-	1,200	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,200	1,200
Scenic - Chateau Crt to Upper Paradise	2024	2024	-	-	-	-	1,750	1,750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,750	1,750
Strathearne - Brampton to gate at north end	2024	2024	-	-	-	-	820	820	-	-	-	-	-	-	-	-	-	-	-	-	-	-	820	820
Barton - Ottawa to Kenilworth	2025	2025	-	-	-	-	-	-	4,700	4,700	-	-	-	-	-	-	-	-	-	-	-	-	4,700	4,700
Burlington & Industrial - Birch to Gage	2025	2025	-	-	-	-	-	-	2,820	2,820	-	-	-	-	-	-	-	-	-	-	-	-	2,820	2,820
Rymal - Upper Gage to Upper Ottawa	2025	2025	-	-	-	-	-	-	950	950	-	-	-	-	-	-	-	-	-	-	-	-	950	950
Simcoe - James to Wellington & Hughson - Strachan to Simcoe	2025	2025	-	-	-	-	-	-	1,400	1,400	-	-	-	-	-	-	-	-	-	-	-	-	1,400	1,400
Upper James - Mohawk to Fennell	2025	2025	-	-	-	-	-	-	3,070	3,070	-	-	-	-	-	-	-	-	-	-	-	-	3,070	3,070
Amelia - Queen to West End	2026	2026	-	-	-	-	-	-	-	-	560	560	-	-	-	-	-	-	-	-	-	-	560	560
Brampton - Parkdale to Woodward & Brighton	2026	2026	-	-	-	-	-	-	-	-	810	810	-	-	-	-	-	-	-	-	-	-	810	810
Dallas - Upper Gage to West End	2026	2026	-	-	-	-	-	-	-	-	630	630	-	-	-	-	-	-	-	-	-	-	630	630
Dundurn - CPR bridge (s/o Main St) to King	2026	2026	-	-	-	-	-	-	-	-	430	430	-	-	-	-	-	-	-	-	-	-	430	430
Fennell - Upper James to Upper Wellington	2026	2026	-	-	-	-	-	-	-	-	670	670	-	-	-	-	-	-	-	-	-	-	670	670
Hatt - Market to east end & York / Kerr	2026	2026	-	-	-	-	-	-	-	-	1,060	1,060	-	-	-	-	-	-	-	-	-	-	1,060	1,060
James and Charlton Intersection	2026	2026	-	-	-	-	-	-	-	-	940	940	-	-	-	-	-	-	-	-	-	-	940	940
Myler - Sanford to Milton/Milton - Barton to Princess	2026	2026	-	-	-	-	-	-	-	-	470	470	-	-	-	-	-	-	-	-	-	-	470	470
Osler - South St to West Park	2026	2028	-	-	-	-	-	-	-	-	90	90	-	-	810	810	-	-	-	-	-	-	900	900
Robinson - Hess to Park	2026	2026	-	-	-	-	-	-	-	-	950	950	-	-	-	-	-	-	-	-	-	-	950	950
Rymal - Upper Sherman to Upper Gage	2026	2026	-	-	-	-	-	-	-	-	1,500	1,500	-	-	-	-	-	-	-	-	-	-	1,500	1,500
Wilson - Wentworth to Sherman (LRT Enabling)	2026	2026	-	-	-	-	-	-	-	-	820	820	-	-	-	-	-	-	-	-	-	-	820	820
Aberdeen - Queen to Studholme	2027	2027	-	-	-	-	-	-	-	-	-	-	3,200	3,200	-	-	-	-	-	-	-	-	3,200	3,200
Barton St BIA - Wentworth to Sherman	2027	2027	-	-	-	-	-	-	-	-	-	-	3,440	3,440	-	-	-	-	-	-	-	-	3,440	3,440
Edgemont - Main to King	2027	2028	-	-	-	-	-	-	-	-	-	-	60	60	600	600	-	-	-	-	-	-	660	660
George - Queen to Ray	2027	2027	-	-	-	-	-	-	-	-	-	-	420	420	-	-	-	-	-	-	-	-	420	420
Gray - King to Hwy 8	2027	2027	-	-	-	-	-	-	-	-	-	-	2,000	2,000	-	-	-	-	-	-	-	-	2,000	2,000
Southcote - Hwy 403 bridge to Oldoakes /Dorval	2027	2027	-	-	-	-	-	-	-	-	-	-	2,100	2,100	-	-	-	-	-	-	-	-	2,100	2,100
Wentworth - Barton to Burlington	2027	2027	-	-	-	-	-	-	-	-	-	-	2,000	2,000	-	-	-	-	-	-	-	-	2,000	2,000
Westdale North Neighbourhood Phase 1	2027	2027	-	-	-	-	-	-	-	-	-	-	2,500	2,500	-	-	-	-	-	-	-	-	2,500	2,500
Barton St BIA - Ferguson to Wentworth	2028	2028	-	-	-	-	-	-	-	-	-	-	-	-	4,440	4,440	-	-	-	-	-	-	4,440	4,440
Birge - Emerald to Cheever	2028	2028	-	-	-	-	-	-	-	-	-	-	-	-	240	240	-	-	-	-	-	-	240	240
Burlington & Industrial - Ottawa to Kenilworth	2028	2028	-	-	-	-	-	-	-	-	-	-	-	-	2,150	2,150	-	-	-	-	-	-	2,150	2,150
Cairns / East St N / Spencer / (Hunter Neighbourhood)	2028	2028	-	-	-	-	-	-	-	-	-	-	-	-	630	630	-	-	-	-	-	-	630	630
Charlton - Walnut to Sherman Access	2028	2029	-	-	-	-	-	-	-	-	-	-	-	-	2,700	2,700	-	-	-	-	-	-	2,700	2,700
Edward - Barnesdale to Lottridge	2028	2028	-	-	-	-	-	-	-	-	-	-	-	-	360	360	-	-	-	-	-	-	360	360
Hess - Markland to Aberdeen	2028	2028	-	-	-	-	-	-	-	-	-	-	-	-	460	460	-	-	-	-	-	-	460	460
John - Cannon to Barton	2028	2028	-	-	-	-	-	-	-	-	-	-	-	-	810	810	-	-	-	-	-	-	810	810
Oak/Emerald/East Ave - Cannon to Barton	2028	2028	-	-	-	-	-	-	-	-	-	-	-	-	1,640	1,640	-	-	-	-	-	-	1,640	1,640
Structural Watermain Lining - Charlton Ave 750mm	2028	2029	-	-	-	-	-	-	-	-	-	-	-	-	150	150	2,530	2,530	-	-	-	-	2,680	2,680
Westdale North Neighbourhood Phase 2	2028	2028	-	-	-	-	-	-	-	-	-	-	-	-	2,000	2,000	-	-	-	-	-	-	2,000	2,000
WM Structural Lining - Dundas Valley Watermain	2028	2028	-	-	-	-	-	-	-	-	-	-	-	-	1,550	1,550	-	-	-	-	-	-	1,550	1,550
Carling / Macklin St S / Olmstead / Tope (Westdale South)	2029	2029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	680	680	-	-	-	-	680	680
Charlton - James to Walnut	2029	2029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,000	4,000	-	-	-	-	4,000	4,000
Clinton/Case/Ruth/Barnesdale	2029	2029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,810	1,810	-	-	-	-	1,810	1,810
Florence/Head/Morden/Napier/Nelson/Peel/Wellesley (Strathcona Neighbourhood)	2029	2029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	720	720	-	-	-	-	720	720
Green - Carla to Barton	2029	2029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,300	1,300	-	-	-	-	1,300	1,300
Jones / Oxford / Tecumseh (Strathcona Neighbourhood)	2029	2029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	820	820	-	-	-	-	820	820
Sanford - Cannon to Barton	2029	2029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	850	850	-	-	-	-	850	850
Sanford - Main to Cannon	2029	2029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,410	1,410	-	-	-	-	1,410	1,410
Upper Wellington - Bryna to Mohawk	2029	2029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,050	1,050	-	-	-</			





INFORMATION REPORT

TO:	Chair and Members Public Works Committee
COMMITTEE DATE:	May 16, 2022
SUBJECT/REPORT NO:	Biosolids Management Facility Update (PW11098(i)) (City Wide)
WARD(S) AFFECTED:	City Wide
PREPARED BY:	Deborah Goudreau (905) 546-2424 Ext. 4606
SUBMITTED BY:	Shane McCauley Acting Director, Water & Wastewater Operations Public Works Department
SIGNATURE:	

COUNCIL DIRECTION

N/A

INFORMATION

The Biosolids Management Project is a 30-year Public-Private-Partnership initiative for processing the City of Hamilton's (City) biosolids from the Woodward Avenue Wastewater Treatment Plant (WWTP). The biosolids are dried and pelletized into a pathogen free product that can be marketed as a fertilizer and/or sold as an alternate energy source. The Project Agreement between the City and Harbour City Solutions (HCS) was executed in March 2017 and construction of the new processing facility reached substantial completion in May 2020. With construction largely completed at this time, Synagro, the operating arm of HCS, began the 30-year Operations, Maintenance and Renewal (OMR) phase of the agreement.

Committee Report PW11098(h) sought Council agreement for the transfer of control of two (2) HCS partners to Synagro subject to final completion of all construction activity as per the Project Agreement. Final approval of this transfer was issued on April 11, 2022. As noted in Report PW11098(h) the Project Agreement requires the City to approve this transfer once all necessary conditions were satisfied.

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**SUBJECT: Biosolids Management Facility Update
(PW11098(i)) (City Wide) - Page 2 of 4**

The first two (2) years of the OMR phase have been challenging for Synagro. The facility has been subjected to numerous equipment and process failures, staffing shortages, odour complaints and prolonged operational shutdowns requiring Synagro to transport unprocessed biosolids offsite. The following table summarizes the significant operational events that have occurred since operations began.

Date	Issue	Resolution	Impact on City Operations
May 31, 2020	During commissioning overheated product (pellets) set off the fire alarm	Hamilton Fire responded; pellets cleaned up and removed offsite	Minimal
October 21, 2020	Overheated product damaged equipment	Hamilton Fire responded as a precaution; material removed, and equipment repaired	Minimal
November 18, 2020	Deflagration (explosive release of heat) event, significant damage to equipment. Facility offline until Jan 4, 2021	Responded to by Hamilton Fire and Ministry of Labour; root cause analysis completed, and facility repaired	Unprocessed Biosolids transported offsite during shutdown. Costs borne by Synagro.
October 20, 2021	Facility non-operational due to pump failures until November 5, 2021	1 of 4 pumps repaired	Unprocessed Biosolids transported offsite during shutdown. Costs borne by Synagro.
January 30, 2022	Facility non-operational due to pump failures until March 4, 2022	2 of 4 pumps repaired	Unprocessed Biosolids transported offsite during shutdown. Costs borne by Synagro.
March 21, 2022	Facility non-operational due to pump failures until March 28, 2022	1 of 4 pumps repaired	Unprocessed Biosolids transported offsite during shutdown. Costs borne by Synagro.

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**SUBJECT: Biosolids Management Facility Update
(PW11098(i)) (City Wide) - Page 3 of 4**

In addition to the operational challenges described above, the City received 18 odour complaints over the course of 2020 and 2021 (seven (7) in 2020 and 11 in 2021) for the Woodward WWTP complex that staff attribute to the Synagro operation. The Ministry of Environment, Conservation and Parks (MECP) inspected the biosolids facility in the fall of 2021 and again in January 2022. The Inspector raised concerns and identified deficiencies with the operation of the facility that has likely contributed to the odour complaints. City staff have met with senior representatives from Synagro and the MECP Inspector to develop specific action plans to address the issues that were identified. As of March 31, 2022, all action plan items had been addressed.

The issues fell within three (3) categories including Engineering/Technical Deficiencies (e.g., malfunctioning air handling/scrubbing equipment), Maintenance/Housekeeping (e.g., spilled product within the facility and lack of preventative equipment maintenance), and Management Issues (e.g., lack of standard operating procedures and facility staff training, and inadequate staffing levels due to vacancies).

Now that outstanding action plan issues at the biosolids facility have been addressed, City staff are preparing to undertake a site-wide odour assessment for the Woodward WWTP Complex to confirm that odour concerns from the community have been effectively addressed. The assessment was not complete at the time this report was written; however, was scheduled to be completed the first week of May 2022.

In addition to the MECP inspector's concerns, and as a result of the process shutdown in October 2021 and odour complaints from the Community, City Staff demanded senior management at Synagro review operations at the City's facility and take all necessary steps to rectify technical and site management deficiencies. Experienced Managers, Engineers and Health and Safety professionals from other Synagro thermal drying facilities in the United States have been brought to the Hamilton facility to complete pumping and odour control equipment repairs. They are also currently undertaking engineering assessments to improve the reliability and maintainability of critical equipment.

To ensure these efforts are sustained and performance is improved, the performance requirements mandated in the Project Agreement have been enforced; and Synagro has been assessed a \$330,000 penalty for the November 2020 facility shutdown. Synagro is also on notice that applicable future penalties (e.g., penalties related to the October 2021, January 2022, and March 2022 shutdowns), will be assessed and enforced as warranted. Recognizing the importance of continued stringent oversight of the Synagro operations and Project Agreement, Hamilton Water has retained a third-party consultant to provide interim oversight of the Project Agreement. Council also approved a new Project Manager position as part of the 2022 Water, Wastewater and Storm Rate Budget. This position is actively being recruited and once a successful

**SUBJECT: Biosolids Management Facility Update
(PW11098(i)) (City Wide) - Page 4 of 4**


candidate has been hired and on-boarded, they will take over ongoing oversight of the Project Agreement.

APPENDICES AND SCHEDULES ATTACHED

Not Applicable



INFORMATION REPORT

TO:	Chair and Members Public Works Committee
COMMITTEE DATE:	May 16, 2022
SUBJECT/REPORT NO:	2021 Annual Wastewater Treatment Bypass Report (PW22036) (City Wide)
WARD(S) AFFECTED:	City Wide
PREPARED BY:	Deborah Goudreau (905) 546-2424 Ext. 4606
SUBMITTED BY:	Shane McCauley Acting Director, Water & Wastewater Operations Public Works Department
SIGNATURE:	

COUNCIL DIRECTION

On January 23, 2019 Council directed staff to provide the Public Works Committee with an annual report on discharges to the natural environment from the Dundas and Woodward Wastewater Treatment Plants (WWTPs).

INFORMATION

Report PW22036 details the bypass frequency and volume for the Woodward and Dundas WWTPs for 2019 to 2021 and provides the five (5) year average for each. Report PW22036 also provides similar data from other Ontario municipalities that publicly report WWTP bypass information. The City of Hamilton's (City) website houses a live map of bypass and combined sewer overflow (CSO) locations and a historical log of WWTP bypass and CSO events (<https://www.hamilton.ca/home-property-and-development/water-sewer/monitoring-wastewater-overflows-and-bypasses>).

Wastewater Treatment Plant Discharges:

The following information pertains to WWTP bypass events at the City's two (2) WWTPs. The Woodward WWTP is located at 700 Woodward Avenue, Hamilton and discharges to the Red Hill Creek. The Dundas WWTP is located at 135 King Street

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**SUBJECT: 2021 Annual Wastewater Treatment Bypass Report
(PW22036) (City Wide) - Page 2 of 5**

East, Dundas and discharges to the Desjardins Canal. Both discharge locations are connected to Hamilton Harbour.

The City has a large complex wastewater collection network consisting of both separated sewer systems and combined sewers. Combined sewers are found in older areas of the City and carry a combination of stormwater and wastewater in the same pipe. During periods of heavy rainfall, snowmelt, or elevated lake levels the combined sewers are inundated with large volumes of stormwater that can exceed the capacity of the pipes. This results in combined sewer overflows (CSOs) and can overwhelm the WWTPs resulting in a temporary bypass of certain treatment processes. WWTP operators monitor incoming flows and make operational adjustments to the treatment processes as required. To protect the plant from infrastructure damage, prevent flooding, and maintain compliance with the WWTP Environmental Compliance Approval (ECA) the WWTP operator will initiate a bypass event.

At the Woodward WWTP a bypass can occur at various stages in the wastewater treatment process. There are currently four (4) different levels of treatment bypass that can occur at the WWTP as described in the following table.

Bypass Type	Treatment Processes Bypassed
Secondary treatment bypass (Secondary bypass)	Secondary treatment processes including aeration and secondary clarification. Bypasses receive disinfection between May 15 and October 15.
Primary treatment bypass with disinfection (Primary bypass)	Primary and secondary treatment processes including primary clarification, aeration, and secondary clarification. Bypasses receive disinfection between May 15 and October 15.
Primary treatment bypass without disinfection (Headworks bypass)	Primary and secondary treatment processes including primary clarification, aeration and secondary clarification. Bypasses are not disinfected.
Preliminary treatment bypass (Plant bypass)	All processes at the WWTP are bypassed. Bypasses are not disinfected.

Table 1 – Levels of treatment bypass at the WWTP

Since the completion of infrastructure upgrades in 2012 most bypass events have been secondary bypasses. Occasionally, flows to the WWTP are sufficiently large that both a primary bypass and a secondary bypass must be initiated at the same time. Very rarely a headworks bypass or a plant bypass may be required where flows exceed the preliminary treatment capacity, or where flows risk flooding and damage to surrounding properties, the main pumping station or other WWTP infrastructure.

**SUBJECT: 2021 Annual Wastewater Treatment Bypass Report
(PW22036) (City Wide) - Page 3 of 5**

In 2021, all bypass events at the Woodward WWTP were the result of wet weather that generated flows in excess of the WWTP's treatment capacity. All bypasses are promptly reported to the Ministry of Environment, Conservation, and Parks (MECP) Spills Action Centre and to Public Health Services as required by the regulations.

There have been no costs directly associated with the clean-up of a WWTP bypass to date. The Woodward WWTP outfall is inspected regularly and after every significant wet weather event and/or bypass event. Any abnormal materials (e.g., floatables) that are present are removed by staff or a City contractor. It is important to note that the existing Woodward WWTP outfall discharges a combination of fully treated effluent from the WWTP, bypass flows (if a bypass is initiated), and flows from the Dunn Avenue CSO location. This outfall has a floating containment boom installed and if/when abnormal materials (e.g., floatables) are present, it is highly probable that they originated from the Dunn Avenue CSO unless a plant bypass occurred.

The 2021 Woodward WWTP data is presented in the following table along with the 2019, 2020 and five (5) year average for comparison.

	5 Year Average (2017 - 2021)	2019	2020	2021
Number of Bypass Events	21	34	12	23
Total Bypass Volume (ML)	2,294	3,067	1,387	2,404

Table 2 - Woodward WWTP Bypass Frequency and Volume Comparison (Million Litres - ML)

2021 has a slightly higher number of bypasses than the typical year. The majority of the bypass volume (over 2,000ML of the 2,404ML) occurred over the last four (4) months of the year during what was a very wet fall. Two (2) large storm events on September 22 and 23 and October 3 and 4 contributed 665ML of bypass. The September 22 and 23 storms resulted in a headworks bypass for 3.7 hours. The October 3 and 4 storms combined with a failure of two (2) of the four (4) WWTP bar screens which required a plant bypass for 5.8 hours until equipment repairs could be completed and was then transitioned to a headworks bypass for 4.1 hours. Outside of these two (2) storms all bypasses were secondary bypasses.

Temporary capacity restrictions are currently imposed at the Woodward WWTP resulting from the Woodward Upgrades Program construction. While these restrictions do not affect the rated dry weather WWTP capacity it does impact the capacity at which the WWTP can operate during wet weather events. These temporary capacity restrictions will be in place until construction is complete in late 2022.

**SUBJECT: 2021 Annual Wastewater Treatment Bypass Report
(PW22036) (City Wide) - Page 4 of 5**

Flows from the Dundas WWTP are carefully controlled and flows exceeding the plant's capacity are directed to the Woodward WWTP rather than initiating a bypass at Dundas. A bypass could occur at Dundas, however, if the WWTP operators are unable to divert flow quickly enough. In these instances, any resulting bypass would be a tertiary bypass. A tertiary bypass means the wastewater has been almost fully treated including the removal of large solids, grit, and floatable material, chemicals have been added to assist with phosphorus removal, biological treatment has been completed to break down organic material and nutrients, and most of the remaining solids have been removed. Between May 15 and October 15 each year, any tertiary bypasses that would occur would also receive chlorine disinfection but would not have the chlorine removed prior to discharge to the natural environment.

The Dundas WWTP had no bypass events in 2021 and has not had a bypass in the last five (5) years.

Municipal Comparison:

Council verbally requested at the January 13, 2020 Public Works Committee meeting, that available WWTP bypass volumes for comparable municipalities be presented along with the bypass data for the Hamilton WWTPs. The table below provides the requested data with information from other Ontario municipalities that publicly report WWTP bypasses.

Municipality	No of WWTPs	Total Bypass Volume (ML)	
		2020	2021
Hamilton	2	1387	2404
Kingston	3	4	NA
London	3	145	101
Greater Sudbury	1	580	NA
Niagara Region	11	923	1085
Region of Peel	3	508	NA
Toronto	2	3580	1622

Table 2 - WWTP Bypass Volume Comparison for Hamilton and Other Municipalities (Million Litres - ML) (NA - Data is not available)

The City along with the City of Kingston are the only municipalities in Ontario who report overflows and bypasses publicly in real-time. The City's webpage (<https://www.hamilton.ca/home-property-and-development/water-sewer/monitoring-wastewater-overflows-and-bypasses>) which provides real-time and historical data on our overflows and bypasses was launched in June 2020 and has proven to be an effective means of communicating these events to the public.

**SUBJECT: 2021 Annual Wastewater Treatment Bypass Report
(PW22036) (City Wide) - Page 5 of 5**

APPENDICES AND SCHEDULES ATTACHED

Not Applicable



CITIZEN COMMITTEE REPORT

To:	Chair and Members Public Works Committee
From:	Brenda Duke (Chair) Keep Hamilton Clean & Green Committee (to be signed by the Chair)
Date:	
Re:	Clean & Green Neighbourhood Grant 2022 Funding Recommendations

Recommendation:

That the Keep Hamilton Clean and Green (KHCG) Committee's recommendations for the 2022 Clean & Green Neighbourhood Grant 2022 be provided for the Public Works Committee's information.

Applicant	Description of Initiative	Funding Rec.
Beautiful Alleys in partnership with the Hospital Zoning Steering Committee	To beautify a City-owned traffic median by creating a natural meadow of native grasses and plants.	\$500
Bonnington Betterment Community	Installation of pollinator patches and gardens of edible food for local food-shares.	\$500
Flamborough Food Bank	Creation of a community garden at the food bank to engage and educate families and teach them how to grow and harvest food.	\$1,000
GALA Parks & Gardens	Installation of five pollinator gardens to make them sustainable. Additionally, the installation of mural to beautify the area.	\$1,000
Hamilton-Wentworth Green Venture	To expand the urban tree canopy in partnership with multiple community stakeholders in an effort to provide shade and increase the air quality.	\$500

Applicant	Description of Initiative	Funding Rec.
McQuesten Urban Farms	To host a neighbourhood garbage cleanup and beautification event for neighbours and community volunteers.	\$500
New City Church	To paint a large mural of the unique features of Hamilton that covers one exterior wall of their building to beautify the community.	\$1,000
Victoria Garafolo	To organize and facilitate a grass-roots tree giveaway targeting residents of Waterdown.	\$1,000
Stefan Spolnik	To clean a portion of the CN tracks from Wellington Street to Wentworth Street.	\$0
Bogle Bees	To purchase 60 bee houses to be distributed at a public engagement event.	\$0
Hamilton Conservation Foundation	To host a community cleanup in partnership with the Hamilton Conservation Authority along the University section of the Trans Canada Trail.	\$0

Background:

The Clean & Green Neighbourhood Grant is the KHCG Committee's annual grants program. The program provides funding for community-led grassroots initiatives that address litter, graffiti and illegal dumping, as well as promoting beautification and environmental stewardship in the community. The KHCG Committee allocated \$6,000 from its 2022 budget to be distributed as Clean & Green Neighbourhood Grants of up to \$1,000 for eligible initiatives.



The KHCG Committee set up a working group with three members to review and score each eligible application. Eleven eligible applications were received for the 2022 Clean & Green Neighbourhood Grant program. The total amount requested was \$10,500. The working group's funding recommendations were reviewed and approved at the KHCG Committee meeting on April 26th, 2022.

Analysis/Rationale:

Each grant application was assessed and recommended for funding based on the merit of the initiative, the initiative's alignment to the Clean & Green Strategy, the anticipated level of community support and engagement, and the overall use of public funds. The Committee's funding recommendations are included in Appendix A.



CITY OF HAMILTON
PUBLIC WORKS DEPARTMENT
 Environmental Services Division
 and
PLANNING AND ECONOMIC DEVELOPMENT DEPARTMENT
 Transportation Planning and Parking Division

TO:	Chair and Members Public Works Committee
COMMITTEE DATE:	May 16, 2022
SUBJECT/REPORT NO:	Housekeeping Update to Parks By-law 01-219 (PW22032/PED22066) (City Wide)
WARD(S) AFFECTED:	City Wide
PREPARED BY:	Adriana Byrne (905) 546-2424 Ext. 2156 Monica Ciriello (905) 546-2424 Ext. 5809
SUBMITTED BY:	Cynthia Graham Acting Director, Environmental Services Public Works Department
SIGNATURE:	
SUBMITTED BY:	Monica Ciriello Director, Licensing and Bylaw Services Planning and Economic Development Department
SIGNATURE:	

RECOMMENDATION

- (a) That the amending By-law, being a By-law to amend the City of Hamilton Parks By-law 01-219, attached as Appendix "A" attached to Report PW22032/PED22066, which has been prepared in a form satisfactory to the City Solicitor, be enacted by Council be approved.

EXECUTIVE SUMMARY

The purpose of Report PW22032/PED22066 is to amend the City of Hamilton (City) By-law 01-219, being a By-law to Manage and Regulate Municipal Parks (the Parks By-law) to reinstate provisions relating to the restriction of consumption and possession of alcohol in City parks which were removed in 2005. The reinstatement of these provisions will make consumption and possession of alcohol in parks an offence.

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**SUBJECT: Housekeeping Update to Parks By-law 01-219
(PW-22032/PED22066) (City Wide) - Page 2 of 6**

Alternatives for Consideration – See Page 5

FINANCIAL – STAFFING – LEGAL IMPLICATIONS

Financial: With the enactment of the recommendations of Report PW22032/PED22066, any fines collected through the enforcement of the Parks By-law would be collected by City's municipal By-law division. The total fine amount of \$3,939.50 collected under Section 13 of the Parks By-law between 2005 and 2021 will be refunded to the parties charged from the existing operating budget.

Staffing: n/a

Legal: n/a

HISTORICAL BACKGROUND

The City's current Parks By-law was approved by Council in 2001 and has been amended from time to time since then. By-laws and amendments are posted on the City's website, on the Frequently requested By-laws page. On this webpage, some by-laws are the original version, and some are consolidated versions. In October 2021, the Office of the City Clerk contacted the Parks and Cemeteries Section, requesting an office consolidation of the Parks By-law since it had not previously been provided to the Office of the City Clerk. In fulfilling this request, it was discovered that Subsections 13 (1) and (2), which dealt with the alcohol related offences in City parks were repealed in 2005 when several other amendments were enacted. Those provisions read as follows:

13. While in a park:

- (1) No person shall be in possession of, consume, serve or sell alcoholic beverages unless authorized by a permit issued by Council and with the approval of the Liquor Licence Board of Ontario.
- (2) Any person who serves or sells alcoholic beverages in a park pursuant to a permit issued by Council, shall obtain sufficient insurance to conform with current Council policy respecting liability insurance, and naming the City as an insured party and shall comply with all other terms and conditions of the permit.

It is unclear why the above provisions were repealed in 2005; however, City staff recommend reinstating those provisions. Without this section reinstated, Municipal Law Enforcement Officers do not have the authority to issue liquor related charges in City

**SUBJECT: Housekeeping Update to Parks By-law 01-219
(PW-22032/PED22066) (City Wide) - Page 3 of 6**

Parks. However, Hamilton Police have the authority to issue liquor related charges under the *Liquor Licence and Control Act*, 2019, S.O. 2019, c. 15, Sched. 22.

In the research conducted by staff when reviewing this matter, it was identified that the version of the By-law on the City's website was not a consolidated one, rather the original By-law was available at the link and then all of the amendments were found under the year that those amendments were approved. A consolidated copy of the By-law has now been provided to Corporate Services Department, Clerks Section and posted on the City's website for ease of reading. A meeting between Parks and Cemeteries Section, Licensing and By-Law Services and the City Clerks has taken place to clarify how City Clerks post By-laws and amendments to the City's website and the requirement for operating departments to maintain a consolidated copy of their By-law for administrative purposes. Parks and Cemeteries Section and Licensing and By-law Services have agreed on process improvements to ensure that the most updated version of By-laws is being used for enforcement.

While the Parks By-law permits Parks Staff to enforce the By-law, there are currently no job positions in Parks and Cemeteries that are qualified and trained to do so. Parks and Cemeteries staff must rely on Licensing and By-law Services staff resources to enforce the By-law when violations are identified. Licensing and By-law Services responded to 850 Park By-law Complaints in 2019, 145 in 2020 and 1,780 in 2021.

Through the process of researching for Report PW22032/PED22066, both Sections have worked collaboratively together to identify problems and possible solutions. A positive working relationship between the Sections is critical for success in the future, and both groups are working together in a solutions-oriented manner for improvement.

POLICY IMPLICATIONS AND LEGISLATED REQUIREMENTS

There are some instances where possession and consumption of alcohol in parks is permitted. The City has a Municipal Alcohol Policy that allows the use of City property for events with alcoholic beverages on site, where the event organizer assumes full responsibility. Event organizers are required to take necessary steps to offer a safe environment for the public where they are serving alcohol at the event, a Special Occasion Permit or sponsoring use of a Caterer's Endorsement from the Alcohol and Gaming Commission of Ontario is required. The reinstatement of alcohol related provisions in the Parks By-law will not affect the ability of event organizers to host events with alcohol.

RELEVANT CONSULTATION

The following groups have been consulted and are supportive of the recommendations:

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**SUBJECT: Housekeeping Update to Parks By-law 01-219
(PW-22032/PED22066) (City Wide) - Page 4 of 6**

- Corporate Services Department - Legal and Risk Management Services Division
– Legal Services Section
- Communications Department

ANALYSIS AND RATIONALE FOR RECOMMENDATION

Report PW22032/PED22066 recommends the reinstatement of Subsections 13(1) and (2) because when unauthorized drinking in City parks occurs; staff find this often leads to vandalism, physical altercations, dangerous and reckless behaviour and waste left in the parks. Therefore, staff would like the opportunity to issue alcohol related penalties on a go-forward basis.

Unfortunately, because the Parks By-law alcohol provisions were enforced after they were repealed in 2005, any tickets or penalty notices that were issued pursuant to sections 13(1) and (2) since that time, are of no force and effect. In order to rectify this error, staff took the following actions:

- Licensing and By-law Services immediately stopped enforcement of Section 13 (1) and (2) on a go-forward basis until further notice;
- All tickets or penalties pending in the system were withdrawn; and,
- A process was put in place to identify, attempt to contact and reimburse those who made payments for penalties issued under the deleted provisions for the period of 2005 to present.

In 2018, the Parks By-law was added to the City's Administrative Penalties By-law 17-225 and prior to 2018, alcohol related offences under the By-law were enforced pursuant to the *Provincial Offences Act*, R.S.O. 1990, c. P.33. Only 1 ticket was issued in 2017, and 72 administrative penalties were issued in 2021. This increase is directly related to COVID-19 increase in enforcement efforts by By-law, responding to complaints and observed violations within City Parks.

Year	Type	Number of Tickets Issued (Year)	Total Set Fine Amount (Year)	Total Paid (Year)	Total Outstanding (Year)
2005-2016	N/A	0	\$ -	\$ -	\$ -
2017	PON	1	\$105.00	\$ -	\$ 105.00
2018-2020	N/A	0	\$ -	\$ -	\$ -
2021	APS	72	\$5,400.00	\$3,939.50	\$2,729.01
Total		73	\$5,505.00	\$3,939.50	\$2,834.01

**SUBJECT: Housekeeping Update to Parks By-law 01-219
(PW-22032/PED22066) (City Wide) - Page 5 of 6**

Parks By-law Charges
Provincial Offence Notices

- 1 PON was issued under Section 13 in 2017 for \$105.
- No payment was ever received by the City from the party charged.
- The payment was in collections and staff have since removed this outstanding fine from collections.

Administrative Penalty System (APS)

- 72 APS issued under Section 13 – in 2021.
 - 44 fines were paid
 - 14 fines were cancelled at a Screening Officer or Hearing Officer;
 - 14 fines were never paid to the City from the parties charged, the payments were in collection and staff have since removed the outstanding fine amount of \$2,729.01 from collections.

Staff have prepared a letter to be sent to the 44 individuals who paid the fine in 2021. Individuals will have two years to claim any reimbursement by contacting the City.

The amending By-law attached as Appendix “A” to Report PW22032/PED22066, reinstates the previous subsections 13 (1) and (2) so that Municipal Law Enforcement Officers may have the authority to issue charges again under those provisions.

ALTERNATIVES FOR CONSIDERATION

If Council does not reinstate the language, then Parks would need to rely on Hamilton Police to issue tickets under the *Liquor Licence and Control Act, 2019 (LLCA)*. Any enforcement of the LLCA would be low priority for Police in relation to the other calls for Police services. Staff do not recommend this alternative because enforcement by staff has worked well in the past and would be the consistent approach for violations of other sections of the Parks By-law.

Financial: The financial implications include any penalties enforced by Police Services under the LLCA would be collected and kept by Hamilton Police and the associated shifting demand of resources to Police Services.

Staffing: n/a

Legal: n/a

**SUBJECT: Housekeeping Update to Parks By-law 01-219
(PW-22032/PED22066) (City Wide) - Page 6 of 6**

ALIGNMENT TO THE 2016 – 2025 STRATEGIC PLAN

Healthy and Safe Communities

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APPENDICES AND SCHEDULES ATTACHED

Appendix “A” to Report PW220032/PED22066 – To Amend By-law 01-219, a By-law to Manage and Regulate Municipal Parks

Appendix "A" to Report PW22032/PED22066

Page 1 of 2

Authority: Item ,
Report (PW22032/PED22066)
CM:
Ward: City Wide

Bill No.

CITY OF HAMILTON

BY-LAW NO. 22-xxx

To Amend By-law 01-219, a By-law to Manage and Regulate Municipal Parks

WHEREAS this By-law amends By-law No. 01-219.

NOW THEREFORE the Council of the City of Hamilton enacts as follows:

1. The amendments in this By-law include any necessary grammatical, numbering and lettering changes.
2. That section 13 be repealed in its entirety and replaced with the following:
 13. While in a park:
 - (1) No person shall be in possession of, consume, serve or sell alcoholic beverages unless authorized by a permit issued by the City and with the approval of the Liquor Licence Board of Ontario.
 - (2) Any person who serves or sells alcoholic beverages in a park pursuant to a permit issued by the City, shall obtain sufficient insurance to conform with current City policy respecting liability insurance, and naming the City as an insured party and shall comply with all other terms and conditions of the permit.
 - (3) No person shall play or bet at or against any game conducted, dealt or carried on with cards, dice or other devices for money, chips, shells, credit or other thing representative or value, or maintain or inhabit any gambling table or other instrument of gambling or gaming; unless otherwise authorized by the Director.
3. That in all other respects, By-law 01-219 is confirmed; and
4. That the provisions of this by-law shall become effective on the date approved by City Council.


PASSED this _____ , _____

F. Eisenberger
Mayor

A. Holland
City Clerk



CITY OF HAMILTON
PUBLIC WORKS DEPARTMENT
Hamilton Water Division

TO:	Chair and Members Public Works Committee
COMMITTEE DATE:	May 16, 2022
SUBJECT/REPORT NO:	Funding for the Woodward Wastewater Treatment Plant Primary Digester 3 Emergency Repairs (PW22034) (City Wide)
WARD(S) AFFECTED:	City Wide
PREPARED BY:	Stephanie Lapointe (905) 546-2424 Ext. 1929
SUBMITTED BY:	Shane McCauley Acting Director, Water and Wastewater Operations Public Works Department
SIGNATURE:	

RECOMMENDATION

- (a) That up to \$5,000,000 from the Wastewater Capital Reserve (108005) be used to fund the emergency works approved under Procurement Policy By-Law No. 21-215, Policy 10 - Emergency Procurements, for the Woodward Wastewater Treatment Plant Primary Digester 3 failure.

EXECUTIVE SUMMARY

Staff is seeking approval to access Wastewater Capital Reserve (Reserve) funds to pay for the emergency works described in Report PW22034.

On February 5, 2022, one (1) of the three (3) primary digesters at the Woodward Ave. Wastewater Treatment Plant (WWTP) suffered a catastrophic failure. The failure occurred when the discharge piping clogged, allowing pressure to build up in the digester to the point where the roof lifted breaking the seal, fracturing several roof brackets and causing an environmental spill of digested sludge. The spill was immediately reported to the Ministry of Environment, Conservation and Parks' Spills Action Centre (SAC) and contained on site with no impact to the public or the natural environment.

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SUBJECT: Funding for the Woodward Wastewater Treatment Plant Primary Digester 3 Emergency Repairs (PW22034) (City Wide) - Page 2 of 7

An emergency declaration under Procurement Policy By-Law No. 21-215, Policy 10 - Emergency Procurements (Policy 10 Emergency) was requested and subsequently approved by the Acting General Manager of Public Works. This allowed staff to respond immediately to clean up the spill and engage consultants to begin the repair process which is expected to take between six (6) and eight (8) months, with costs estimated to be between \$1.5M and \$5M.

The Woodward WWTP has three (3) primary digesters, and the process requires a minimum of two (2) primary digesters to be in operation at all times. One (1) primary digester has recently been refurbished (digester 4); however, the two (2) remaining primary digesters (digesters 3 and 5) both had significant known deficiencies and are programmed for capital repairs beginning in 2023. Digester 3 has now failed, leaving only digesters 4 and 5 operational, and digester 5 remains at high risk for failure.

Hamilton Water staff is currently in the design stage of the project to refurbish both digester 5 and digester 3 in sequence; however, that project will not be tendered until the end of 2022 with construction beginning in 2023. The repairs to digester 3 cannot wait, and as a result they are being completed as an emergency. Work completed under this emergency will be limited to the work needed to return the failed digester to service. Once digester 3 is back in service, staff will be able to complete the refurbishment of both digesters in sequence without disrupting operations at the WWTP. Also included in the emergency work is the development of an operational contingency plan in case digester 5 fails before digester 3 is returned to service.

Alternatives for Consideration – See Page 5

FINANCIAL – STAFFING – LEGAL IMPLICATIONS

Financial: Total cost of the emergency works to be completed are estimated between \$1.5M and \$5.0M. The extent of the damage cannot be determined until the digester can be emptied, cleaned, and assessed. Staff have recommended funding this project from the Wastewater Capital Reserve (108005). Any surplus project funds will be returned to the Reserve at the end of the project. This Reserve has an uncommitted balance of \$45M.

Staffing: N/A

Legal: N/A

HISTORICAL BACKGROUND

Digesters are closed circular tanks where sludge from the wastewater treatment process is mixed and treated anaerobically (without oxygen). Digestion is a biological

SUBJECT: Funding for the Woodward Wastewater Treatment Plant Primary Digester 3 Emergency Repairs (PW22034) (City Wide) - Page 3 of 7

process which breaks down a significant amount of the organic solids in the sludge and at the same time produces methane gas. This is a critical part of the wastewater treatment process.

The Woodward Wastewater Treatment Plant (WWTP) North Digester Complex was constructed in 1967 and underwent significant upgrades in 1981 and 2000. The complex consists of three (3) primary digesters (digesters 3, 4, and 5) and one (1) secondary digester (digester 2). The system requires a minimum of two (2) primary digesters to be in operation at all times.

Primary digester 4 was cleaned out and refurbished in 2020/21 and is in good working condition. Primary digesters 3 and 5 are scheduled to be refurbished in sequence as a Capital Project (Project ID 5161966511), with construction beginning in 2023.

In the fall of 2021, staff replaced all five (5) mechanical mixers in digester 3 with new mixers to mitigate risk of failure while digester 5 was being refurbished. As a result of the improved mixing, solids that had accumulated in the digester began to be resuspended. Staff increased monitoring and inspection of the process, regularly clearing blockages in the discharge piping. However, on Saturday, February 5, 2022, the concentration of solids overwhelmed the discharge pipelines. Pressure increased within the digester because of the blocked pipelines and the digester roof failed. The roof lifted, fracturing welds, and breaking the roof seal.

The incident resulted in an environmental spill of digested sludge which was immediately reported to the Ministry of Environment, Conservation and Parks' Spills Action Centre (SAC). Staff had the spill under control within 25 minutes. The spilled material did not impact the public or enter the natural environment. It was contained locally on the Woodward WWTP site, cleaned up and discharged back into the WWTP for further treatment.

An emergency declaration under Procurement Policy By-Law No. 21-215, Policy 10 - Emergency Procurements (Policy 10 Emergency) was requested and subsequently approved by the Acting General Manager of Public Works. This allowed staff to respond immediately to clean up the spill and engage consultants to begin the repair process which is expected to take between six (6) and eight (8) months, with costs estimated to be between \$1.5 million and \$5 million. The spill clean-up of approximately 50,000 litres of sludge was completed February 10, 2022.

There are two (2) other primary digesters (digesters 4 and 5) providing treatment; however, digester 5 only has one (1) of five (5) mixers functioning. Should the last mixer in digester 5 fail before digester 3 is returned to service, the WWTP will be down to only one (1) primary digester (digester 4) which is insufficient to manage the sludge volumes that are separated by the WWTP's liquid processes.

**SUBJECT: Funding for the Woodward Wastewater Treatment Plant Primary
Digester 3 Emergency Repairs (PW22034) (City Wide) - Page 4 of 7**

Digester 3 remains isolated and is in the process of being cleaned out to make the necessary repairs. This process involves pumping the accumulated solids out of the digester, dewatering them on site using specialized equipment and trucking the solids to an approved land application site. Based on staff's recent experience in cleaning out digester 4, the estimated cost for cleaning out digester 3 is approximately \$1.5M. Once the digester has been cleaned, a structural assessment of the digester including the roof needs to be completed and the necessary repairs made before the digester can be returned to service. The cost of the assessment, the extent of the damage and necessary repairs are all currently unknown. Operations has also engaged a consultant under roster to help develop a contingency plan should digester 5 also fail leaving operations with only one (1) functioning digester.

Project ID 5161966511 does exist for the clean out and repair of digesters 3 and 5, but the overall capital project costs are expected to be greater that what was originally budgeted. This is due to unknown project scope (since the digesters can't be drained and inspected prior to tendering), and also due to capital project cost increases being experienced in supplies and services due to the COVID 19 pandemic. Therefore, staff are recommending funding the emergency works from the Wastewater Capital Reserve (108005) and not to draw on Project ID 5161966511.

POLICY IMPLICATIONS AND LEGISLATED REQUIREMENTS

Policy No. RATE-01 – Rate Reserves requires that all transfers from Reserves be approved by either a budget submission, by a separate Council report, or by a Council motion. The use of Reserve funds for these emergency works is in line with the policy. The policy sets a target balance for the Wastewater Capital Reserve (108005) of \$21 million - \$87 million. This Reserve has an uncommitted balance of \$45M.

RELEVANT CONSULTATION

The Supervisor of Budgets and Financial Planning, Corporate Services Division was consulted to ensure sufficient funds are available in Wastewater Capital Reserve (108005); and is in support of the above recommendation.

The Manager of Procurement, Corporate Services Division was consulted to ensure the correct use of the Procurement Policy By-Law No. 21-215, Policy 10 - Emergency Procurements.

The Supervisor of the Hamilton Water Project Management Office and the Director of the Woodward Upgrades team were consulted to review the scope and funding options related to this emergency and the Digester 3 and 5 capital project (Project ID 5161966511); and are in support of the above analysis and recommendation.

**SUBJECT: Funding for the Woodward Wastewater Treatment Plant Primary
Digester 3 Emergency Repairs (PW22034) (City Wide) - Page 5 of 7**

ANALYSIS AND RATIONALE FOR RECOMMENDATION

The Digester 3 and 5 capital project (Project ID 5161966511) contains just over \$13M for the cleanout and refurbishment of these two (2) digesters. The cleanout portion of this project, based on experience with digester 4, is expected to be approximately \$1.5M for each digester for a total of \$3M. The remaining \$10M is budgeted for assessments and repairs (approximately \$5M for each digester).

Utilizing funding from this project to manage this emergency was evaluated, and staff felt that funding the emergency works from the Wastewater Capital Reserve (108005) was the best option. There are several reasons for this. First, like other organizations the City is experiencing increased costs in supplies and services due to the COVID 19 pandemic, which were not anticipated when the original Digester 3 and 5 capital project was budgeted. Second, even though digester 3 is being cleaned as part of this emergency, to complete its ultimate refurbishment there will be a requirement to clean it out again after the digester 5 refurbishment has been completed. Third, the Digester 3 and 5 capital project is being tendered as a single project to obtain better pricing. As such, sufficient funds need to be available to award the project. The project is currently in design and is expected to be tendered and awarded at the end of 2022 or beginning of 2023. Funding the emergency from the Reserve will leave room in the current capital project to account for increases in costs due to the COVID 19 pandemic.

The extent of the damage and what repairs are necessary to return digester 3 to service are largely unknown at this time. Therefore, staff are recommending that \$5M from the Reserve be made available to fund this emergency. Any funds left over after the emergency works have been completed would be returned to the Reserve and reported to Council along with the total costs for the emergency as part of the Policy 10 - Emergency Procurements reporting process.

ALTERNATIVES FOR CONSIDERATION

Alternative 1 - To fund the emergency using only the existing Digesters 3 and 5 capital project (Project ID 5161966511).

This alternative was discussed in the Analysis and Rationale for Recommendation section of Report PW22034.

Financial: Total cost of the emergency works to be completed are estimated between \$1.5M and \$5.0M. The extent of the damage cannot be determined until the digester can be emptied, cleaned, and assessed. This alternative will not impact the cost of the emergency works, and only provides a different option for funding. If this alternative was approved the budget for Project ID

SUBJECT: Funding for the Woodward Wastewater Treatment Plant Primary Digester 3 Emergency Repairs (PW22034) (City Wide) - Page 6 of 7

5161966511 would need to be adjusted during the 2023 Water, Wastewater and Storm Rate Budget process.

In addition, if the tender and award of the digester 3 and 5 capital project occurred in advance of approval of the 2023 Water, Wastewater and Storm Rate Budget there would not be enough budget in Project ID 5161966511 to award the tender, resulting in a failed procurement.

Staffing: N/A

Legal: N/A

Alternative 2 – To adjust the digesters 3 and 5 capital project and proceed with the complete refurbishment of digester 3, leaving digester 5 in operation until digester 3 has been completely refurbished.

With digester 3 currently out of service it is possible to switch the refurbishment order, and have it completed before digester 5. This option was reviewed by staff and it is not being recommended.

Completing the tendering and construction process for one digester will require approximately 18 months, during which digester 3 would not be available. With digester 3 offline there is extra stress on digester 5 which has only one (1) of five (5) mixers functioning and is considered a high risk for complete failure. Staff believe the risk of digester 5 failing within 18 months (and leaving the WWTP with only one operational primary digester), is too great.

In addition, the digesters 3 and 5 capital project did not contemplate the damage to the roof caused by the digester 3 failure which would likely require additional funds to be added to the project. By making only the necessary emergency repairs to digester 3 as recommended, this will allow the WWTP to have two reliable digesters back in service in approximately six (6) to eight (8) months, considerably reducing risk to the WWTP processes.

Financial: Total cost of the emergency works to be completed are estimated between \$1.5M and \$5.0M. The extent of the damage cannot be determined until the digester can be emptied, cleaned, and assessed. This alternative will not impact the cost of the emergency works, and only provides a different option for funding. If this alternative was approved the budget for Project ID 5161966511 would need to be adjusted during the 2023 Water, Wastewater and Storm Rate Budget process.

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SUBJECT: Funding for the Woodward Wastewater Treatment Plant Primary Digester 3 Emergency Repairs (PW22034) (City Wide) - Page 7 of 7

In addition, if the tender and award of the digester 3 and 5 capital project occurred in advance of approval of the 2023 Water, Wastewater and Storm Rate Budget there would not be enough budget in Project ID 5161966511 to award the tender, resulting in a failed procurement.

Staffing: N/A

Legal: N/A

ALIGNMENT TO THE 2016 – 2025 STRATEGIC PLAN

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APPENDICES AND SCHEDULES ATTACHED

N/A



CITY OF HAMILTON
PUBLIC WORKS DEPARTMENT
Engineering Services Division

TO:	Chair and Members Public Works Committee
COMMITTEE DATE:	May 16, 2022
SUBJECT/REPORT NO:	Appropriation Transfer of Funds for Barton Street East – Parkdale to Talbot – 2022 Construction Project (PW22038) (Ward 4)
WARD(S) AFFECTED:	Ward 4
PREPARED BY:	Erika Waite (905) 546-2424 Ext. 6397 Michael Becke (905) 546-2424 Ext. 4278
SUBMITTED BY:	Susan Jacob Acting Director of Engineering Services Public Works Department
SIGNATURE:	

RECOMMENDATION

- (a) That Council approve the award of C15-02-22 (HSW) Barton Street East – Parkdale to Talbot Reconstruction, pursuant to Procurement Policy #5.3 Request for Tenders, to Coco Paving Inc., in the amount of \$8,086,000 (not including Contingency and Non-Refundable HST), and that the General Manager, Public Works Department be authorized to negotiate, enter into and execute any required Contract and any ancillary documents required to give effect thereto with Coco Paving Inc., in a form satisfactory to the City Solicitor;
- (b) That the increase of \$883,000, from \$2,270,000 to \$3,153,000, in the budget for Barton Street East Road Reconstruction – Parkdale to Talbot project (#4031919110), be funded by an appropriation of previously approved Capital Levy funds from the Bridge 163 - Centennial Parkway North, 540m n/o Barton project (#4031118126) as referenced in Appendix “A” attached to Report PW22038;
- (c) That the budget and financing plan for Barton Street East Watermain – Parkdale to Talbot (#5142171310), totaling \$1,200,000 be amended and

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SUBJECT: Appropriation Transfer of Funds for Barton Street East – Parkdale to Talbot – 2022 Construction Project (PW22038) (Ward 4) - Page 2 of 6

approved, resulting in an increase of \$582,000, from \$1,200,000 to \$1,782,000 to be funded from the following sources as referenced in Appendix “A” attached to Report PW22038:

- (i) A capital budget appropriation of previously approved rates revenues of \$360,000 from Parkdale - Burlington to north end & Steel City Court project (#5141971310);
- (ii) A capital budget appropriation of previously approved rates revenues of \$107,000 from Parkdale - Burlington to north end & Steel City Court project (#5141970010);
- (iii) A capital budget appropriation of previously approved rates revenues of \$115,000 from Charlton 750mm WM Lining project (#5142160073).

EXECUTIVE SUMMARY

Barton Street East – Parkdale to Talbot (see Appendix “B” attached to Report PW22038) is identified within the 2019 to 2021 Capital Budgets for construction in 2022.

The total estimated approved budget available for the Barton Street East – Parkdale to Talbot tender is \$7,583,000. In March 2022, Request for Tenders C15-02-22 Barton Street East – Parkdale to Talbot Reconstruction was issued, and the lowest compliant bid received was from Coco Paving Inc. in the amount of \$8,086,000 (see Appendix “C” attached to Report PW22038), not including contingency and non-recoverable HST. An increase of \$1,465,000 is required in order to award the contract.

The contract works includes watermain replacement and storm sewer construction. Road reconstruction will also take place that will include enhanced pedestrian facilities including reconstructed sidewalk, AODA compliant ramps, pedestrian crossovers and multi-use path construction. Traffic signal and street lighting work will also be completed.

Budget adjustments through transfer of funds for the road and watermain section of the contract are required in order to award the contract C15-02-22 (HSW).

Alternatives for Consideration – See Page 5

FINANCIAL – STAFFING – LEGAL IMPLICATIONS

Financial: The increased levy supported cost (\$883,000) for Capital Project Barton Street East – Parkdale to Talbot (#4031919110) can be funded by an appropriation transfer of surplus levy funds due to favourable tender and

SUBJECT: Appropriation Transfer of Funds for Barton Street East – Parkdale to Talbot – 2022 Construction Project (PW22038) (Ward 4) - Page 3 of 6

unused contingency in Capital Project Bridge 163 - Centennial Parkway North, 540m n/o Barton (#4031118126).

The increased rates supported cost (\$582,000) for Capital Project Barton Street East – Parkdale to Talbot (#5142171310) can be funded by an appropriation transfer of surplus rates funds due to favourable tender and unused contingency in the following Capital Projects:

- i) \$360,000 from Capital Project Parkdale – Burlington to north end & Steel City Court (#5141971310);
- ii) \$107,000 from Capital Project Parkdale – Burlington to north end & Steel City Court (#5141970010);
- iii) \$115,000 from Capital Project Charlton 750mm Watermain Lining. (#5142160073)

Staffing: None

Legal: None

HISTORICAL BACKGROUND

Barton Street East from Parkdale Avenue to Talbot Street was identified for reconstruction through condition-based assessment of the road and coordinated within the capital program to include traffic, watermain, and stormwater improvements. Watermain and storm sewer installation were required to improve service conditions of those assets.

The coordinated project required land acquisition, relocation of utilities and poles, replacement of the 4-lane road (2-lanes in each direction with intersection turn lanes), curb and gutter, sidewalks, traffic signals and signs, street lighting, watermain and storm sewer installations, pedestrian crossover, traffic islands and streetscaping.

Tender bids received in 2022 for the road coordinated works were higher than estimated in 2021. The municipal sector is experiencing significant pricing fluctuations and challenges on the acquisition of good and services. The geo-political situation has contributed to delays in acquiring products and increased materials and fuel pricing. The pricing and inflationary trends that are emerging could not have been anticipated when the 2022 budget was being planned. The variance in estimated costs and required appropriation through transfer of funds is attributed to the above-mentioned scope requirements and geo-political impacts affecting construction pricing. Three out of the eight significant road construction projects that were put out for tender in 2022 have experienced budget shortages. There is high likelihood for this trend will continue for at least the remainder of the year.

SUBJECT: Appropriation Transfer of Funds for Barton Street East – Parkdale to Talbot – 2022 Construction Project (PW22038) (Ward 4) - Page 4 of 6

POLICY IMPLICATIONS AND LEGISLATED REQUIREMENTS

By-Law 21-215 Procurement Policy, Policy #2 Approval Authority, Policy #5.3 Request for Tenders

RELEVANT CONSULTATION

The project consultations include the consultation with Public Works Department, Hamilton Water and Transit Division, Environmental Services Division, Forestry & Horticulture Section, and other City Departments.

The Ward Councillor was consulted and is in agreement with the recommendations.

Consultation with the adjacent businesses, property owners, utilities and government agencies were also completed.

Corporate Services Department, Financial Services and Taxation Division, Procurement Section provided guidance with respect to adherence to the Procurement Policy.

The Procurement Policy, Policy 2 – Approval Authority, subsection (3) states:

“(3) The Client Department in conjunction with the Procurement Section shall submit a report to Council and the appropriate standing committee recommending award of an RFT or RFP if ANY of the following conditions apply:

- (b) for capital projects, when the final competitively procured cost of the proposed procurement exceeds the amount provided in the Council approved capital budget for that project by \$250,000 or greater”

ANALYSIS AND RATIONALE FOR RECOMMENDATION

The road reconstruction will not only address the current poor condition of the road, but will also facilitate a new storm relief sewer to help alleviate a portion of the local combined sewer system by separating the storm sewer. Watermain replacement and upsizing will ensure that the supply of the water network is also in good operation and dependable to the user. Delaying this work would require additional maintenance costs as well as potentially increased costs due to the current inflationary trends being seen in materials, labour and fuel.

The Public Works Department, Engineering Services Division provides funding source recommendations in order to allow for the award and completion of Barton Street East – Parkdale to Talbot project C15-02-22(HSW).

SUBJECT: Appropriation Transfer of Funds for Barton Street East – Parkdale to Talbot – 2022 Construction Project (PW22038) (Ward 4) - Page 5 of 6

ALTERNATIVES FOR CONSIDERATION

An alternative for consideration is to not award the tender and defer the project construction to year 2023.

Financial: In this case, existing funds will be maintained and earmarked to fund 2023 construction, and the required additional funds will be requested for approval through the 2023 budget process. This may result in the need to alter the timing of other currently proposed projects in the short-term forecast.

With the current inflationary trends, the project costs may increase beyond the current competitively sourced bid.

Staffing: N/A

Legal: Any such deferral will result in declining service levels increasing risk and liability along with increased maintenance costs of the road, sewer and water network in this area.

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SUBJECT: Appropriation Transfer of Funds for Barton Street East – Parkdale to Talbot – 2022 Construction Project (PW22038) (Ward 4) - Page 6 of 6

APPENDICES AND SCHEDULES ATTACHED

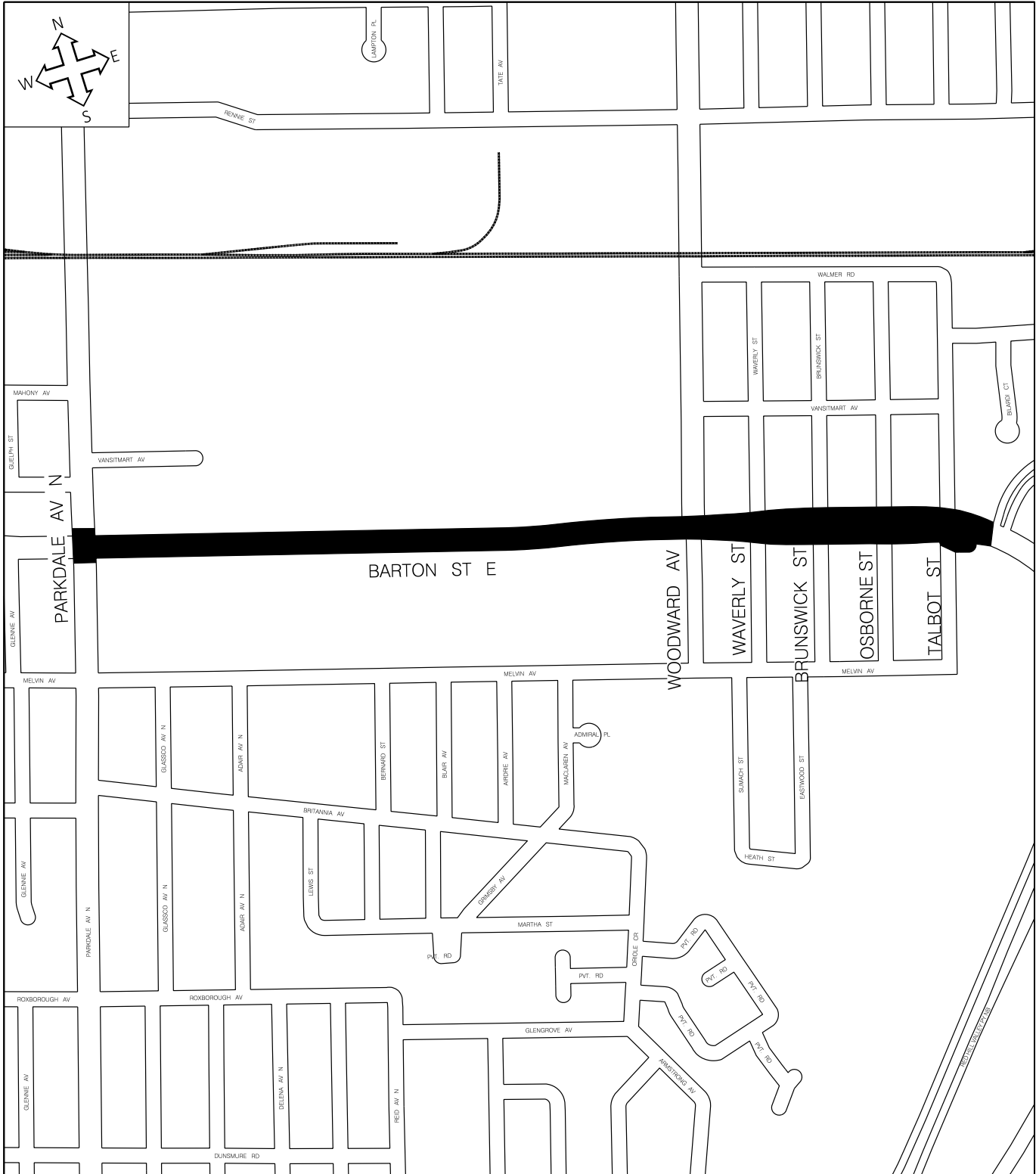
Appendix “A” attached to Report PW22038 - Appropriation Adjustment Summary


Appendix “B” attached to Report PW22038 - Ward Map, Barton Street Reconstruction
(Parkdale Avenue to Talbot Street)

Appendix “C” attached to Report PW22038 - Tender Information Summary

APPROPRIATION ADJUSTMENT SCHEDULE - Barton - Parkdale to Talbot

Project Number	Project Description	GROSS COST			REVENUE			NET FINANCING REQUIRED			REASON FOR ADJUSTMENT
		Budget	Increase/ (Decrease)	Revised	Budget	Increase/ (Decrease)	Revised	Budget	Increase/ (Decrease)	Revised	
4031919110	Barton - Parkdale to Talbot - road reconstruction	2,270,000	883,000	3,153,000	2,170,000 FGT	0		100,000	883,000	3,153,000	Increase required in order to award contract C15-02-22
			883,000			0			883,000		
4031118126	Bridge 163 - Centennial Parkway North, 540m n/o Barton	14,630,000	-883,000	13,747,000	9,515,000 FGT 1,000,000 Debenture 470,000 Reserve	0 0 0		3,645,000	-883,000	13,747,000	Contract C15-46-13 is complete pending final billing from CN. Surplus due to favourable tender and unused contingency.
			-883,000			0			-883,000		
5142171310	Barton - Parkdale to Talbot - watermain replacement	1,200,000	582,000	1,782,000				1,200,000	582,000	1,782,000	Increase required in order to award contract C15-02-22
			582,000			0			582,000		
5141971310	Parkdale - Burlington to north end & Steel City Court - watermain replacement	1,422,000	-360,000	1,062,000				1,422,000	-360,000	1,062,000	C15-13-18 complete - surplus due to favourable tender and unused contingency
			-360,000			0			-360,000		
5141970010	Parkdale - Burlington to north end & Steel City Court - cost share of road restoration	1,050,000	-107,000	943,000				1,050,000	-107,000	943,000	C15-13-18 complete - surplus due to favourable tender and unused contingency
			-107,000			0			-107,000		



 Road, Watermain and Sewer Reconstruction

City of Hamilton
 Ward 4
 Barton Street Reconstruction
 Parkdale Avenue to Talbot Street
 Proposed Area of Work

CITY OF HAMILTON
 Public Works Department
 General Manager, Craig Murdoch
 DATE: APRIL, 2022
 CONTRACT No. C15-02-22 (HSW)


**Public Works Department
SCHEDULE A - TENDER INFORMATION SUMMARY**

CONTRACT NUMBER: C15-02-22 (HSW)
Description: Barton St E (Parkdale to Woodward), Hamilton - Ward 4

	LIST OF BIDDERS	BIDS (NOT INCLUDING HST & CONTINGENCY)	CONTINGENCY	13%HST	TOTAL AWARD INCL 13%HST & CONTINGENCY	LOCATION AND TYPE OF WORK	TOTAL EST'D COST (INCL ENG, ETC.)	2022 APPROPRIATION IN BUDGET	APPROPRIATION ADJUSTMENT REQUIRED	COMMENTS
1.	Coco Paving Inc. (Hannon)	\$ 8,086,000.00	800,000.00	1,155,180.00	\$ 10,041,180.00	Section F - 100% Item 1 Section G - 100% All Items 1-3 <u>Location:</u> Barton St E (Parkdale to Woodward), Hamilton - Ward 4 <u>Description:</u> Management of Excavated Materials Project ID: 4032114405	\$677,000	\$677,000		
2.	Wesroc Construction LTD. (Stoney Creek)	8,143,197.60								
3.	Rankin Construction Inc. Hamilton	8,919,983.00				Section A - 25% All Items 1-4 inclusive Section B - 100% All Items 1-19 inclusive <u>Location:</u> Barton St E (Parkdale to Woodward), Hamilton - Ward 4 <u>Description:</u> Storm Sewer Construction and Associated Works Project ID: 5182172210	\$1,527,000	\$1,527,000		
4.	DESO Construction Limited (Caledonia)	8,933,000.00				Section A - 5% All Items 1-4 inclusive Section C - 100% All Items 1-21 inclusive <u>Location:</u> Barton St E (Parkdale to Woodward), Hamilton - Ward 4 <u>Description:</u> Sewer Lateral Construction and Associated Works Project ID: 5162171015	\$256,000	\$256,000		
5.	New-Alliance Ltd (Burlington)	9,750,040.10				Section A - 10% All Items 1-4 inclusive Section D - 100% All Items 1-33 inclusive <u>Location:</u> Barton St E (Parkdale to Woodward), Hamilton - Ward 4 <u>Description:</u> Watermain Construction and Associated Works Project ID: 5142171310	\$1,780,000	\$1,198,000	(\$582,000)	See Note 1:
						Section A - 5% All Items 1-4 inclusive Section E - 100% Items 2, 22 <u>Location:</u> Barton St E (Parkdale to Woodward), Hamilton - Ward 4 <u>Description:</u> Multi-Use Path Construction and Associated Works Project ID: 5302183101	\$97,000	\$97,000		
						Section A - 34% All Items 1-4 inclusive Section E - 100% Items 9-13, 57-75 Section E - 46% of Items 1, 3-8, 14-21, 23-56 Section F - 100% Items 2-4 Section H - 100% All Items 1-2 inclusive Section I - 100% All Items 1-6 inclusive Section J - 100% All Items 1-8 inclusive Section K - 100% All Items 1-8 inclusive Section L - 100% All Items 1-4 inclusive Section M - 100% All Items 1-7 inclusive <u>Location:</u> Barton St E (Parkdale to Woodward), Hamilton - Ward 4 <u>Description:</u> Road Construction and Associated Works Project ID: 4031919110	\$3,015,000	\$2,132,000	(\$883,000)	See Note 2:
						Section A - 21% All Items 1-4 inclusive Section E - 54% of Items 1, 3-8, 14-21, 23-56 <u>Location:</u> Barton St E (Parkdale to Woodward), Hamilton - Ward 4 <u>Description:</u> 50/50 Road Construction and Associated Works Project ID: 5182170010	\$1,696,000	\$1,696,000		
NOTE 1: See Recommendations (b) (ii) to (v) for appropriation adjustment to cover deficit of \$582,000										
NOTE 2: See Recommendations (b) (ii) to (v) for appropriation adjustment to cover deficit of \$883,000										



CITY OF HAMILTON
PUBLIC WORKS DEPARTMENT
Engineering Services Division

TO:	Chair and Members Public Works Committee
COMMITTEE DATE:	May 16, 2022
SUBJECT/REPORT NO:	Impact of On-Site and Excess Soils Management Regulation (O. Reg 406/19) and other pressures on Capital Program Costs (PW22039) (City Wide)
WARD(S) AFFECTED:	City Wide
PREPARED BY:	Michael Becke (905) 546-2424 Ext. 4278 Erika Waite (905) 546-2424 Ext. 6397
SUBMITTED BY:	Susan Jacob Acting Director, Engineering Services Public Works Department
SIGNATURE:	

RECOMMENDATION

- (a) That a budget adjustment of \$8,000,000 be approved to increase the Contaminated Soil & Rock Removal project (#4032114405), from \$2,692,000 to \$10,692,000, and that the increase be funded by a transfer from the Federal Gas Tax Reserve / Canada Community-Building Fund (No. 112213).

EXECUTIVE SUMMARY

Since enactment of Phase Two of the On-Site and Excess Soils Management Regulation (O. Reg 406/19) and supporting amendments took effect on January 1, 2022, considerable increases in project costs have been experienced. These cost escalations have had a marked impact across Ontario and it is expected that additional costs will inflate on average approximately 25%. Increases related to excess and contaminated soils are typically more prevalent in projects requiring deeper excavations, such as watermain and sewer installations, as well as bridge replacement and full road reconstruction.

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SUBJECT: Impact of On-Site and Excess Soils Management Regulation (O. Reg 406/19) and other pressures on Capital Program Costs (PW22039) (City Wide) - Page 2 of 8

Assessment of the additional costs to apply to estimates has not yet been achievable due to variability and inconsistent bid prices in 2022 to date. This has resulted in many agencies cancelling projects that were over the budget, scaling down the scope of the projects and re-prioritizing the works. Multi-year project management can be a challenge due to the volatility of prices. Industry is currently looking into methodologies of addressing these fluctuations.

Alternatives for Consideration – See Page 8

FINANCIAL – STAFFING – LEGAL IMPLICATIONS

Financial: The total budget increase of \$8,000,000 to the Contaminated Soil & Rock Removal project through a funding transfer from the Federal Gas Tax Reserve / Canada Community-Building Fund (No. 112213).

Staffing: A temporary Project Manager position is being created to help with the additional effort need to implement the Regulation and help with the administration of the registry. The position will also help review and provide feedback on consultant reports along with providing guidance to staff with the Regulation.

Legal: None

HISTORICAL BACKGROUND

In December of 2019, the provincial government passed Ontario Regulation 406/19: On-Site and Excess Soil Management, under the Environmental Protection Act, R.S.O 1990, C E19 (EPA), to support improved management of excess soils. The regulation recognizes that soil is an important resource and that its protection and conservation of soil in Ontario is important in maintaining the environment for future generations.

The regulation defines excess soil as soil, crushed rock or soil mixed with rock or crushed rock, that has been excavated as part of a project and removed from the project area for the project.

The purpose of the regulation is to provide clear rules on the management and reuse of excess soils, facilitating local beneficial reuse while protecting both human health and the environment. Further, the regulatory framework provides guidance on the proper management and reuse of excess soils, including more stringent oversight, testing, tracking, documentation and ownership in the movement of excess soils, particularly those that may be affected by contamination, by preventing and mitigating the potential for adverse effects.

SUBJECT: Impact of On-Site and Excess Soils Management Regulation (O. Reg 406/19) and other pressures on Capital Program Costs (PW22039) (City Wide) - Page 3 of 8

The application of this regulation is not limited to only municipalities. It also must be followed by all Project Owners such as private developers, utility companies, contractors, consultants and the provincial government and its agents. Anyone that will generate excess soil in Ontario, that cannot be managed on site, must follow the regulation.

- **Key Dates, Roles and Responsibilities**

The regulation framework has established a phase-in period with key dates as given below:

January 1, 2021 – Waste designation for soils not being reused. Reuse rules including soil quality standards and on-site soil management. Haulers required to provide key information on soil loads.

January 1, 2022 – Formal documentation, testing and registration on the Provincial Soil Registry for applicable sites. Detailed tracking of soil hauling including documentation retention.

March 11, 2022 – MECP requested comments on a potential pause of the implementation of provisions in the Excess Soil Regulation that came into effect January 1, 2022 until January 1, 2023. This is to provide more time for more understanding and consistent implementation of the Excess Soil Regulation, and coordination across organizations

April 21, 2022 – The Province announced the temporary suspension of the provisions that came into effect on January 1, 2022, until January 1, 2023.

January 1, 2025 – Restrictions on landfilling of clean soils

January 1, 2026 – Grandfathering provisions expire

The regulation introduces a new role of Project Leader, defined as the person or persons who are ultimately responsible for making decisions relating to the planning and implementation of the project.

In general, the City of Hamilton(City) will be defined as the project leader for projects led by the City. Many of the City's duties can be delegated to other parties under contract but the Ministry would still view the City as ultimately responsible as Project Leader.

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SUBJECT: Impact of On-Site and Excess Soils Management Regulation (O. Reg 406/19) and other pressures on Capital Program Costs (PW22039) (City Wide) - Page 4 of 8

The regulation also defines several responsibilities for a Qualified Person (or QP). A QP is defined in the Excess Soils regulation as someone licensed in Ontario as a Professional Engineer or Professional Geoscientist, with appropriate geoscience qualifications and experience.

Typically, the City would retain a third-party consultant for QP support. Where the City has delegated duties to the Contractor and their QP, the City may decide to retain their own QP to review work completed by the contractor, and to support the City's oversight role as Project Leader. The City may choose to do this regardless of whether the Contractor has retained their own QP.

As part of the regulation a registry for Excess Soils has been created, which became effective in December of 2021, in preparation for the January 1, 2022 phase. The registry provides a location to place project site information. The information includes: the amount and type of excess soils, who the Project Leader and contractor are, the locations for soil deposits, etc. In order to be transparent, the registry also provides a public portal that has limited information accessible including; Project description and location, Project Leader name and contact information, Qualified Person and authorized persons and Receiving site information.

On March 11, 2022, The Province opened a 30-day consultation to the public regarding a proposal to temporarily suspend certain provisions in the *Excess Soil Regulation* that came into effect January 1, 2022, until January 1, 2023. The pause will provide more time to understand the provisions and refine their implementation of the regulation.

On April 21, 2022, the Province announced that they would temporarily suspend the implementation of the provisions that came into effect on January 1, 2022, until January 1, 2023.

Although this temporary suspension is welcome, the pause will have little impact on the projects that are currently in design or those previously worked on. Pre-engineering work where the Geotechnical investigations that include work for excess soils need to be completed before detailed design. Much of those works have already been completed or will still be needed to be completed for the projects that are scheduled for construction in 2023. The only cost savings that may be recognized at this time will be for the few projects that will not be registered in 2022.

- Staff Engagement

In the Spring of 2020, Engineering Services engaged the consulting services of Dillion Consulting (Dillion) to review the City's current practices and documents, in order to provide recommendations on the development of an Excess Soils Management Program. A series of consultations were held between Dillion and members from Public

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SUBJECT: Impact of On-Site and Excess Soils Management Regulation (O. Reg 406/19) and other pressures on Capital Program Costs (PW22039) (City Wide) - Page 5 of 8

Works Department, Hamilton Water, Engineering Services, Transportation Operations and Maintenance and Environmental Services Divisions, identifying gaps and the City's readiness in advance of the regulation date of January 1, 2021.

A series of short-term and long-term recommendations were made that staff have been continuously implementing as they become more familiar with the implications of the regulation, and are as follows:

- (i) **Excess Soils Working Group:** A working group was established in March of 2021. The group encompasses members from Public Works (Hamilton Water, Transportation Operations and Maintenance, Environmental Services and Facilities), Legal Services and the Planning and Economic Development Department to discuss the regulation and share information.
- (ii) **Project Requirements:** The current Pre-engineering geotechnical investigations now require that all reporting meet the requirements set out in the new regulation. This includes additional reporting requirements for the Assessment of Past Uses and Soil Characterization. Staff have developed and continuously improve contract language in capital and maintenance projects as our understanding of the regulation changes or more information from the MECP is made available. Contract language also requires that Contractors working on the City's behalf retain a QP to ensure the requirements of the regulation are always being met.
- (iii) **Excess Soil Management Plan Procedure Standard Operating Procedure:** A Public Works Standard Operating Procedure has been created for staff and approved by the General Manager of Public Works in March 2022.
- (iv) **Training:** The development of 3 training modules have been completed regarding the regulation. The first was a general knowledge base training to provide a high-level understanding and a starting point for those not familiar with the regulation. The second was large project specific training to deal with scheduled capital projects that generate large volumes of excess soils or receive excess soils. The third was geared towards maintenance and operations work and small generators of excess soils that navigate the regulation differently. The training modules took place between mid-January and the end of February 2022. There were over 200 staff that participated in the training.
- (v) **Additional Staffing:** A temporary Project Manager position is being created to help with the additional effort needed to implement the Regulation and help with the administration of the registry. The position will also help review

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SUBJECT: Impact of On-Site and Excess Soils Management Regulation (O. Reg 406/19) and other pressures on Capital Program Costs (PW22039) (City Wide) - Page 6 of 8

and provide feedback on consultant reports along with providing guidance to staff with the Regulation.

- Impacts of the Regulation

The Onsite and Excess Soils Management Regulation impacts all groups within the City that generate excess soils. Infrastructure projects (linear, vertical, bridges and facilities), operations and maintenance, Parks and Forestry will need to manage their work to minimize the generation of excess soils.

In preparation for the changes in reporting, documentation and tracking required by the regulation in 2022, staff began implementing changes in the pre-engineering requirements and specifications in 2021. At that time, staff also started the discussion with the construction industry on how the requirements of the Regulation will impact City contracts as well as the industry itself.

From such changes, we have already begun to realize the impacts being seen in our projects. These include:

- (i) Increases to project schedules, costs and scopes to incorporate regulatory requirements related to excess soils in both pre-engineering as well as contracts.
- (ii) Higher cost of consultant assignments due to the additional investigation and reporting work by a QP needed to meet the requirements of the regulation.
- (iii) Significant increase in staff time required to deal with the additional planning and implementation of the regulation.
- (iv) Difficulty finding local receiving sites and/or those that accept certain soil qualities or types - this applies to both dry and liquid soils reuse receivers, and also landfills, where permitted.
- (v) Changes to excess soils assumptions after project design or planning stages could cause significant schedule delays and add substantial costs. These may be due to:
 - a. Soil quality differing from preliminary data/assumptions;
 - b. Volumes of excess soil changing from initial estimates;
 - c. Appropriate receiving sites cannot be found, or a receiver's requirements differ from the data collected and reported;
 - d. Suitability of soil is environmentally acceptable at a reuse site but does not meet other receiver requirements (such as geotechnical).

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SUBJECT: Impact of On-Site and Excess Soils Management Regulation (O. Reg 406/19) and other pressures on Capital Program Costs (PW22039) (City Wide) - Page 7 of 8

Further, City Building projects that require a significant amount of time to develop and design (i.e. Dickenson Rd. trunk sewer for AEGD, the North Waterdown Drive, Centennial Trunk Sewer etc.) are being impacted due to delays and increase in costs due to the regulation as those requirements were not fully understood when these projects were first initiated.

POLICY IMPLICATIONS AND LEGISLATED REQUIREMENTS

Excess Soils Management Procedures that were developed directs staff on how to apply the Excess Soils Management Regulation (O. Reg 406/19). This applies to all activities that generates excess soils.

RELEVANT CONSULTATION

The following have reviewed and are in agreement;

Corporate Services Department, Financial Planning Administration and Policy Division,
Budgets and Financial Policy Section
Corporate Services Department, Financial Services and Taxation Division,
Procurement Section
Public Works Department, Chief Road Official and Hamilton Water Divisions

ANALYSIS AND RATIONALE FOR RECOMMENDATION

The Public Works Department, Engineering Services Division is experiencing higher costs due to new Onsite and Excess Soils Management Regulation 406/19. Although consistent estimates are not yet available to consider within the project estimating process, the extent of this cost impact was not known at the time of 2022 project budgeting in 2021.

It is anticipated that excess soils management could increase total project costs 25%, equating to approximately \$8,000,000 or more in 2022 projects that require generation of soils, such as water, wastewater, bridge and full-road reconstruction projects. The regulation is causing similar effects across the province and is not fully realized throughout the industry. The increase of additional funds to the Contaminated Soil & Rock Removal project (#4032114405) will allow staff to address the potential shortfalls in those projects where excess soils have created increase budget demands, such as those with underground components.

SUBJECT: Impact of On-Site and Excess Soils Management Regulation (O. Reg 406/19) and other pressures on Capital Program Costs (PW22039) (City Wide) - Page 8 of 8

ALTERNATIVES FOR CONSIDERATION

An alternative for consideration would be to return to council with individual reports for each project that is over-budget due to excess or contaminated soils. This would delay project start dates and impact staff time to write multiple reports to award contracts.

Financial: Individual reports will be required to increase project budgets as required for each contract award.

Staffing: N/A

Legal: N/A

ALIGNMENT TO THE 2016 – 2025 STRATEGIC PLAN

Clean and Green

Hamilton is environmentally sustainable with a healthy balance of natural and urban spaces.

Built Environment and Infrastructure

Hamilton is supported by state-of-the-art infrastructure, transportation options, buildings and public spaces that create a dynamic City.

Our People and Performance

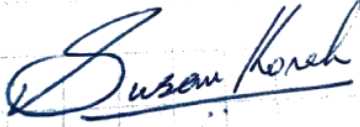
Hamiltonians have a high level of trust and confidence in their City government.

APPENDICES AND SCHEDULES ATTACHED

N/A



CITY OF HAMILTON
PUBLIC WORKS DEPARTMENT
Engineering Services Division+6

TO:	Chair and Members Public Works Committee
COMMITTEE DATE:	May 16, 2022
SUBJECT/REPORT NO:	Budget Increase for Dickenson Rd Trunk Sewer (Airport Employment Growth District) (PW22040) (Ward 11)
WARD(S) AFFECTED:	Ward 11
PREPARED BY:	Mike Becke (905) 546-2424 Ext. 4278
SUBMITTED BY:	Susan Jacob Acting Director, Engineering Services Public Works Department
SIGNATURE:	

RECOMMENDATION

- (a) That Council approve the award of C15-11-22 (HSW) Dickenson Road East Sanitary Sewer and Watermain, pursuant to Procurement Policy #5.3 Request for Tenders, to Technicore Underground Inc. in the amount of \$102,151,957.22 (not including Contingency of \$10,000,000 and Non-Refundable HST of \$1,973,875.48);
- (b) That the General Manager, Public Works Department be authorized to negotiate, enter into and execute any required Contract and any ancillary documents required to give effect thereto with Technicore Underground Inc., in a form satisfactory to the City Solicitor;
- (c) That Council approve the single source procurement, pursuant to Procurement Policy #11 – Non-competitive Procurements, for additional construction administration services;
- (d) That the General Manager, Public Works Department be authorized to negotiate and amend the existing Contract and any ancillary documents required to give effect thereto with IBI Group, in a form satisfactory to the City Solicitor;

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SUBJECT: Budget Increase for Dickenson Rd Trunk Sewer (Airport Employment Growth District) (PW22040) (Ward 11) - Page 2 of 8

- (e) That the amended budget and financing plan for the Dickenson Road Trunk Sewer in the Airport Employment Growth District (#5161696452) be approved, resulting in an increase of \$34,680,000, from \$71,800,000 to \$106,480,000 in total budget approved to date, to be funded by Tax Supported Development Charges debt;
- (f) That the General Manager, Finance and Corporate Services, be authorized to negotiate and confirm the terms, placement and issuance of all debenture issue(s), and / or private placement debenture issue(s), in either a public or private market and / or bank loan agreements and debenture issue(s) and / or variable interest rate bank loan agreements and debenture issue(s), in an amount not to exceed \$106,480,000 Canadian currency in Tax Supported Development Charges municipal debt for the Dickenson Road Trunk Sewer project;
- (g) That the General Manager, Finance and Corporate Services, be authorized to engage the services of all required professionals to secure the terms and issuance of the debenture issue(s) described in Recommendation (c) including, but not limited to, external legal counsel, fiscal agents and Infrastructure Ontario's Loan Program and the cost of such services be funded from one of the following sources as deemed appropriate by the General Manager of the Finance and Corporate Services: Development Charge Reserves, Non-Obligatory Reserves, and other approved funding sources;
- (h) That the General Manager, Finance and Corporate Services, is authorized and directed to enter into and administer, on behalf of the City of Hamilton, all agreements and necessary ancillary documents to implement Recommendation (c) and in order to secure the terms and issuance of the debenture issue(s) described in Recommendation (c), on terms and conditions satisfactory to the General Manager, Finance and Corporate Services and in a form satisfactory to the City Solicitor.

EXECUTIVE SUMMARY

A trunk sewer was identified to be constructed along Dickenson Road East from Upper James Street to Trinity Church Road, Trinity Church Road from Dickenson Road East to Golf Club Road and Golf Club Road from Trinity Church Road to Regional Road 56 to support the growth in the Airport Employment Growth District (see Appendix "A" attached to Report PW22040). Along with the trunk sewer the local watermain extension is also being constructed to complete the loop for water quality purposes.

IBI Group was hired in 2018 through a Request for Proposal process to undertake the detailed design, tender and construction services for this project. The total estimated

SUBJECT: Budget Increase for Dickenson Rd Trunk Sewer (Airport Employment Growth District) (PW22040) (Ward 11) - Page 3 of 8

approved budget available for Dickenson Road East Sanitary and Watermain project is \$73,600,000. During the detailed design, it was identified that the estimated budget would not be enough. In 2021, the City of Hamilton (City) prequalified four contractors who met the criteria to construct this project. In February 2022, Request for Tenders C15-11-22 (HSW) Dickenson Road East Sanitary Sewer and Watermain was issued, and on April 12, 2022 the tender closed with the City receiving two (2) compliant bids. The lowest compliant bid received was from Technicore Underground Inc. in the amount of \$114,125,832.70, including contingency and non-recoverable HST. An increase of \$33,160,000 for the sanitary sewer component is required in order to award the tender as shown in Appendix "B" attached to Report PW22040. Budget adjustments through transfer of funds for the sanitary sewer section of the contract are required in order to award the Tender C15-11-22 (HSW).

In addition, the scope and size of this construction requires the expertise of a Consultant with the knowledge of sewer tunnelling, construction and project management principles. The project is anticipated to require 5 years of construction. The Consultant assignment will need to move from part-time administration, to full-time administration to ensure a project of this size runs smoothly. The Quality Assurance related to the project can be ensured by using a Consultant for full-time inspection. In addition, the Consultant has committed back up resources to ensure coverage for dedicated staff at all times so that change order management, cost control and project risk management are not impacted. A team of 7 professionals which includes Project Manager, Technical lead, Site Inspector, Contract Administrator, Qualified Personnel for Excess Soil Management and a Hydrogeologist are being proposed for this project and ensures the environmental monitoring and reporting to agencies are also addressed. This change from part-time to full-time administration will require an additional amount of \$1,520,000 to cover the construction administration services of the Consultant. This increase brings the total budget adjustment to \$34,680,000.

Alternatives for Consideration – See Page 7

FINANCIAL – STAFFING – LEGAL IMPLICATIONS

Financial: The total required increase to the Dickenson Road Trunk Sewer project is \$34,680,000. As per the 2019 DC Study, 0% of these costs benefit the existing infrastructure and 100% is attributable to development (63% Residential and 37% Non- Residential). In addition to this increase, there is also \$11,300,000 proposed to be approved in the 2023 Capital Budget. The increase will be funded through the issuance of DC supported debt.

SUBJECT: Budget Increase for Dickenson Rd Trunk Sewer (Airport Employment Growth District) (PW22040) (Ward 11) - Page 4 of 8

Reasons for cost increase:

- (a) The Value Engineering efforts recommended additional geotechnical investigation. The tunnelling was then recommended to be undertaken utilising a combination of tunnelling methodologies. This requires multiple mobilization and demobilization;
- (b) Pipe and appurtenance increase due to supply chain issues; labour force shortages and wage increases have increased costs;
- (c) Increased requirements from Niagara Peninsula Conservation Authority including more ground and surface water monitoring, species at risk study, and mitigation measures;
- (d) From previous experience and bore hole information, ground water intercepted during the tunnelling may require special permitting and the temporary measures of water supply to local residents should local wells be affected. Increased contingency amount to cover these unknowns have been incorporated;
- (e) Provisions for excess soil disposal and contaminated soil and sampling requirements due to the changes in the provincial regulations;
- (f) Adding rescue shafts to remove the tunnelling equipment in case of machinery breakdown, stabilization grouting, culvert replacement; re-establish ditches and full road resurfacing.
- (g) Complexity of the project has required an increase in Contract Administration hours for the Consultant, from 5,792 hours of part time administration to 17,325 full time administration hours.

Staffing: None

Legal: Legal Services provides advice with regard to the City's debt financing transactions. This advice will extend to the various contracts and agreements that will need to be executed in conjunction with the issuance of future DC Debt including the debt for the Dickenson Road Trunk Sewer.

HISTORICAL BACKGROUND

The City completed the Integrated Water and Wastewater Master Plan (WWMP) in November 2006 for the Lake Based Systems to identify the water and wastewater servicing strategy and to support City growth for the next 30 years. The master plan

SUBJECT: Budget Increase for Dickenson Rd Trunk Sewer (Airport Employment Growth District) (PW22040) (Ward 11) - Page 5 of 8

supports the preferred growth option identified through the Growth-Related Integrated Development Strategy (GRIDS) adopted by Council on May 24, 2006.

The WWMP recommended a number of future projects to provide sanitary servicing for the Hamilton Airport Employment Growth District (AEGD), including a new Dickenson Road Sanitary Trunk Sewer.

The projects were recommended to service growth in the Airport Lands south of the existing Hydro utility corridor; providing the opportunity for future servicing of areas north of Dickenson Road. A key trigger for the projects is the planned development of the Airport Lands.

The project includes construction of a trunk sanitary sewer using tunnelling methodology for about 10km, watermain construction, road resurfacing and culvert replacements.

IBI Group was hired in 2018 through a Request For Proposal process to undertake the detailed design, tender and construction services for this project. During the detailed design, it was identified that tunnelling is required for sections where the proposed pipe depths do not make open excavation affordable. Further, a combination of tunnelling methods and open cut construction will be required due to the geotechnical investigations. For operational needs the frequency of maintenance holes was also increased. Niagara Peninsula Conservation Authority (NPCA) also required increased Ground and Surface Water monitoring. The project was identified to have a shortfall of budget at the end of detailed design.

Tunnelling is a high-risk project and as such a Value Engineering Process was undertaken in 2020 to review the design, construction methodologies, sufficiency of investigations and to ensure the application of lessons learned from previous tunnelling projects in the area. In 2021, the City prequalified the contractors eligible to participate in the bidding process. Out of the four prequalified contractors, the City received only two responsive and compliant bids. There is a large variation between the two bids received. The lowest bid received from Technicore Underground Inc. was analysed to ensure that it was compliant.

The construction Industry is experiencing high volatility due to the fluctuation in material prices, fuel prices, supply chain demand etc. Excess Soil Management regulation added some challenges as well. This tunnelling project is a multi-year project and as such requires extensive record keeping and documentation. Delays in procuring materials, and labour shortages are also cited as some of the challenges that the industry is facing currently. Large size projects by Provincial Government Agencies such as MTO, Metrolinx etc. add to the competition making it difficult for Municipalities to attract suitable bidders.

OUR Vision: To be the best place to raise a child and age successfully.

OUR Mission: To provide high quality cost conscious public services that contribute to a healthy, safe and prosperous community, in a sustainable manner.

OUR Culture: Collective Ownership, Steadfast Integrity, Courageous Change, Sensational Service, Engaged Empowered Employees.

SUBJECT: Budget Increase for Dickenson Rd Trunk Sewer (Airport Employment Growth District) (PW22040) (Ward 11) - Page 6 of 8

The key findings and recommendations from the recent Auditor's report on Grightmire Arena are acknowledged. Due to the complexity of the project and high-risk potential, it is recommended to increase the oversight on this project during construction. Thus, an increase in Contract Administration hours for the consultant, from 5792 hours of part time administration to 17,325 full time administration hours is being proposed. The IBI Group team provides the continuity needed for this project from design to construction, along with improved record keeping, providing the City with continuous updates on construction schedules and progress payments. The Quality Assurance related to the project can be ensured by using a Consultant for full-time inspection. In addition, the Consultant has committed back up resources to ensure coverage for dedicated staff at all times so that change order management, cost control and project risk management are not impacted. A team of 7 professionals which includes Project Manager, Technical lead, Site Inspector, Contract Administrator, Qualified Personnel for Excess Soil Management and a Hydrogeologist are being proposed for this project and ensures the environmental monitoring and reporting to agencies are also addressed. A dedicated Contract Administrator and Site Inspector will ensure increased construction quality assurance and certification on this project. IBI will prepare Deficiency Reports with remedial requirements, Notice of Substantial Completion and, Record Drawings at the end of construction. Payment Certificates as per Construction Act will be followed. Communication will be the key aspect of the project management of this multi-year endeavour.

POLICY IMPLICATIONS AND LEGISLATED REQUIREMENTS

Report PW22040 meets the requirements of Ontario Regulation 403/02 and the City of Hamilton's Debt Policy, whereby Council authority is required to issue debt.

By-Law 21-215 Procurement Policy, Policy #5.3 Request for Tenders and Policy #11 Non-Competitive Procurement

RELEVANT CONSULTATION

Project consultations include Public Works Department, Hamilton Water Division, Environmental Services Division, Forestry & Horticulture Section, Planning and Economic Development Department, Corporate Services Department and other City Departments.

Corporate Services Department, Financial Services and Taxation Division, Procurement Section provided guidance with respect to adherence to the Procurement Policy.

Corporate Services Department, Financial Planning, Administration and Policy Division, Budgets and Finance Planning Section was consulted on the adjusted financing plan

SUBJECT: Budget Increase for Dickenson Rd Trunk Sewer (Airport Employment Growth District) (PW22040) (Ward 11) - Page 7 of 8

and recommended debt issuance, along with the adjacent businesses, property owners, utilities and government agencies were also completed.

The Ward Councillor has been advised of this project.

ANALYSIS AND RATIONALE FOR RECOMMENDATION

The Department of Public Works, Engineering Services Division and Corporate Services, Budgets & Financial Policy, Development Programs Policies, provides funding source recommendations in order to allow for the award and completion of Dickenson Rd Trunk Sewer project C15-11-22 (HSW).

According to Ontario Regulation 403/02, Council shall, before giving authorization for capital that would require a long-term debt or financial obligation, have the General Manager Corporate Services and City Treasurer calculate an updated Annual Repayment Limit (ARL) using the most recent Annual Repayment Limit determined by the Ministry. The most recent ARL, determined and sent in writing by the Ministry to the General Manager Corporate Services and City Treasurer, is the 2021 ARL in the amount of \$292.0 M and is based on the 2019 Financial Information Return.

The General Manager Corporate Services and City Treasurer has calculated an updated ARL of \$204.9 M, included as Appendix "C" attached to Report PW22040, which adjusts the 2021 ARL for approximately \$1,076.1 M of debt which has been approved by Council but not yet issued, as well as debt that has been assumed or discharged in 2020 and 2021. The updated ARL of \$204.9 M is the maximum amount that the City has available to commit to annual debt servicing payments before the statutory limit is breached and corresponds to approximately \$2.4 B of additional borrowing that the City could undertake (assuming a 15-year term and 3% interest rate).

Within the City's Debt Policy, total tax and rate supported debt must not exceed 60% of City own-source revenues. For 2022, the current forecast of the City's issued long-term debt as a percentage of own-source revenues is 33%. Therefore, the debt required to complete this project will not significantly increase the risk of exceeding the Council approved limit in the short-term.

ALTERNATIVES FOR CONSIDERATION

An alternative for consideration is to not award the tender and defer the project construction to year 2023. However, this is not recommended as any such deferral will result in delaying potential developments, increase the cost, declining service levels and increasing risk and liability. Airport is expected to be completed in 2025. If the award is delayed or not awarded, the cost of the project will be impacted and growth in AEGD

SUBJECT: Budget Increase for Dickenson Rd Trunk Sewer (Airport Employment Growth District) (PW22040) (Ward 11) - Page 8 of 8

will be impacted. This project also relieves the Combined Sewer Overflow events on the existing sewer system.

Financial: In this case, existing funds will be maintained and earmarked to fund 2023 construction and the required additional funds will be requested for approval through the 2023 budget process. This may result in the need to alter the timing of other currently proposed projects in the short-term forecast.

Staffing: N/A

Legal: N/A

ALIGNMENT TO THE 2016 – 2025 STRATEGIC PLAN

Community Engagement and Participation

Hamilton has an open, transparent and accessible approach to City government that engages with and empowers all citizens to be involved in their community

Economic Prosperity and Growth

Hamilton has a prosperous and diverse local economy where people have opportunities to grow and develop.

Built Environment and Infrastructure

Hamilton is supported by state-of-the-art infrastructure, transportation options, buildings and public spaces that create a dynamic City.

Our People and Performance

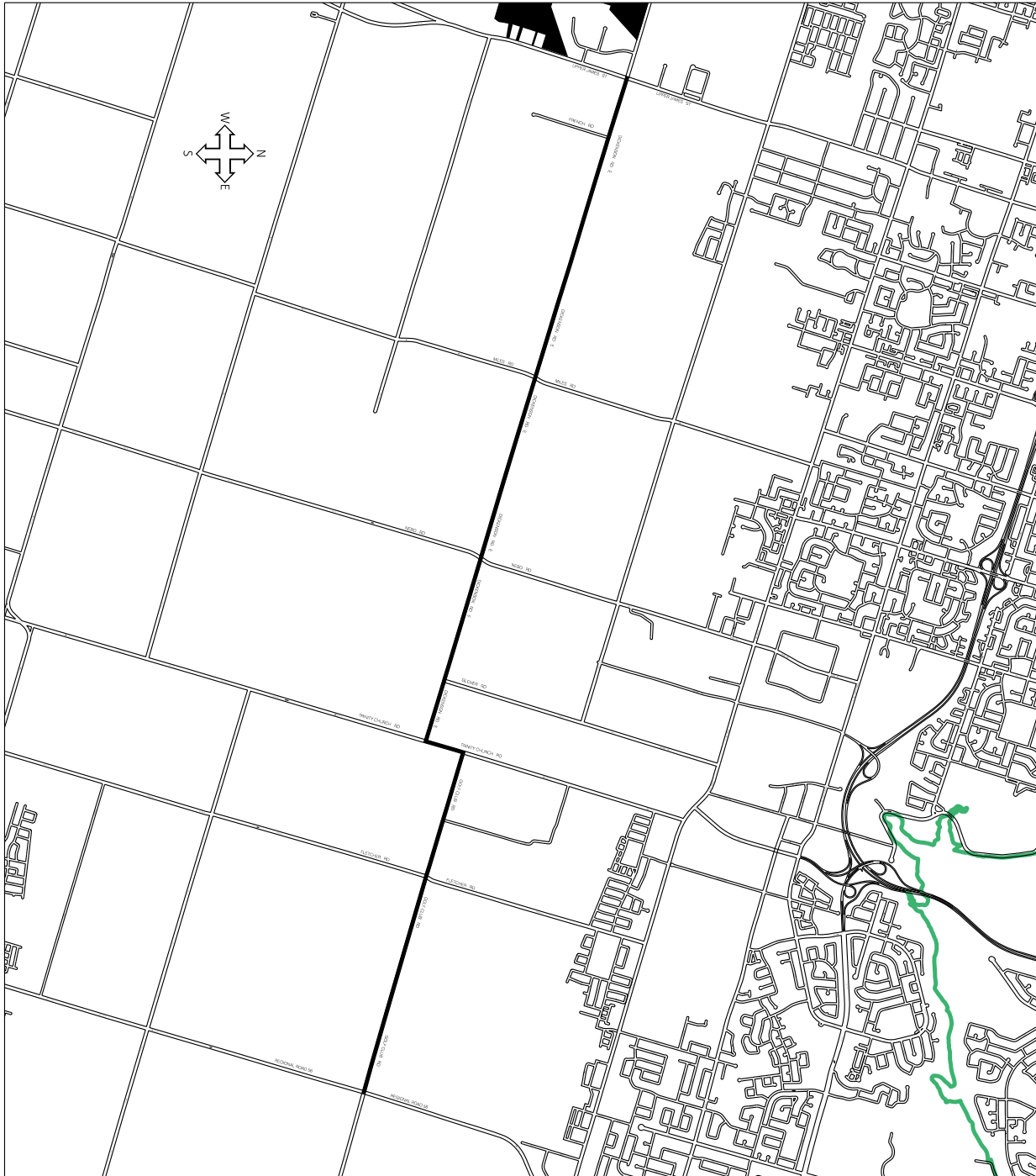
Hamiltonians have a high level of trust and confidence in their City government.

APPENDICES AND SCHEDULES ATTACHED

Appendix “A” attached to Report PW22040: Location Map – Dickenson Road East

Appendix “B” attached to Report PW22040: Schedule A - Tender Information Summary

Appendix “C” attached to Report PW22040: City of Hamilton Treasurer’s Updated 2021 Annual Repayment Limit



Proposed Trunk Sanitary Sewer

City of Hamilton (Community of Glanbrook)
Ward 11

DICKENSON ROAD / TRINITY CHURCH ROAD &
GOLF CLUB ROAD

Proposed Sanitary Sewer Construction

**CITY OF
HAMILTON**

Public Works Department
General Manager, Dan McKinnon

DATE: May, 2021

CONTRACT No. N/A

**Public Works Department
SCHEDULE A - TENDER INFORMATION SUMMARY**

CONTRACT NUMBER: C15-11-22 (HSW)
Description: Dickenson Sanitary Trunk Sewer

	LIST OF BIDDERS	BIDS (NOT INCLUDING HST & CONTINGENCY)	CONTINGENCY	13%HST	TOTAL AWARD INCL 13%HST & CONTINGENCY	LOCATION AND TYPE OF WORK	TOTAL EST'D COST (INCL ENG. ETC.)	2022 APPROPRIATION IN BUDGET	APPROPRIATION ADJUSTMENT REQUIRED	COMMENTS
1.	Technicore Underground Inc	\$102,151,957.22	10,000,000.00	14,579,754.44	\$126,731,711.66	Section A - 100% All Items A1-A26 Section B - 100% All Items B1-B101 Section D - 100% Items D1- D22, D25 Section E - 100% All Items E1-E10 Section F - 100% Items F1-F11 Section G - 100% All Items G1-G6 Location: Dickenson Road, Hamilton, Ontario (Ward 11) Description: Sanitary Sewer Construction Project ID: 5161696452 Section C - 100% All Items C1-C10 Section D - 100% Items D23, D24 Section F - 100% Item F12 Location: Dickenson Road, Hamilton, Ontario (Ward 11) Description: Watermain Construction Project ID: 5142171352	\$112,710,000	\$79,550,000	(\$33,160,000)	
2.	McNally Construction Inc	\$248,553,968.65					\$1,417,000	\$1,796,000		Surplus \$379,000
NOTE: See Recommendations (b) (ii) to (v) for appropriation adjustment to cover deficit of \$33,160,000										

City of Hamilton Treasurer's Updated 2021 Annual Repayment Limit
(as at March 31, 2022)

City of Hamilton Treasurer's Updated 2021 Annual Repayment Limit	
Annual Repayment Limit - <i>effective January 1, 2021, as prepared by the Ministry of Municipal Affairs and Housing on January 29, 2021, based on 2019 Financial Information Return</i>	\$291,914,218
Annual debt service charges on City Municipal debt approved to-date 2022 and prior years but not yet issued (\$792.6 M @ 3% for 15-year term)	-\$66,393,392
Annual debt service charges on City Municipal debt in respect of ICIP Transit debt approved but not yet issued (\$82.0 M @ 3% for 15-year term)	-\$6,868,860
Annual debt service charges on City Municipal debt in respect of West Harbour debt approved but not yet issued (\$48.8 M @ 3% for 15-year term)	-\$4,087,809
Annual debt service charges on City Housing Hamilton debt approved but not yet issued and guaranteed by City of Hamilton (\$135.9 M @ 5% for 30-year term)	-\$8,840,490
Annual debt service charges on Municipal and Tax Supported Development Charges debt approved but not yet issued - Police Station 40 (\$8 M @ 3% for 15-year term)	-\$670,133
Annual debt service charges on Municipal and Tax Supported Development Charges debt approved but not yet issued - Stadium Precinct (\$16.8 M @ 3% for 15-year term)	-\$1,407,279
Annual debt service charges in 2022 for debenture issue of \$51.705 M;	-\$4,093,313
Annual debt service charges on debentures discharged in 2019-2022	\$5,038,633
Adjustment for annual debt service charges on outstanding City Housing Hamilton mortgages and City of Hamilton Tangible Capital Leases	\$357,797
Updated 2021 Annual Repayment Limit - <i>a calculation by the Treasurer representing an estimate of the maximum amount available to commit to annual debt service charges</i>	\$204,949,373
Debenture amount at 3% interest rate for 15-year term (amortizer) corresponding to the annual debt service charges of \$204,949,373	\$2,446,672,317



CITIZEN COMMITTEE REPORT

To:	Chair and Members Public Works Committee
From:	Brenda Duke (Chair) Keep Hamilton Clean & Green Committee (to be signed by the Chair)
Date:	
Re:	Keep Hamilton Clean & Green Committee Terms of Reference

Recommendation:

That the Keep Hamilton Clean & Green Committee Terms of Reference, attached as Appendix "A", be approved.

Background:

The Keep Hamilton Clean & Green Committee Terms of Reference was previously amended in 2020. Since that time the Committee has found achieving quorum challenging due to vacancies and non-attendance of voting members.

Analysis/Rationale:

The Committee discussed the Terms of Reference and agreed that the Committee would like to maintain the relationships with the School Boards, however change their membership to a non-voting status. Motion to amend the Committee Terms of Reference to change the School Board Representatives to non-voting status put forward and carried.

Appendices:

Appendix A – Keep Hamilton Clean and Green Committee Terms of Reference

KEEP HAMILTON GREEN AND CLEAN COMMITTEE TERMS OF REFERENCE

1 Introduction

1.1 *Committee Name*

Keep Hamilton Clean and Green (KHCG) Committee (Formerly the Clean City Liaison Committee – Amended October 9, 2013 Item 11 PW Committee Report 13-012)

1.2 *Statement of Purpose*

The KHCG Committee promotes environmental sustainability and stewardship by engaging individuals to take greater responsibility for protecting and revitalizing the natural and built environment and providing education, assistance and promotion.

1.3 *Committee Mandate*

The KHCG Committee will support and provide advice to City staff, elected officials and other stakeholders to implement the Clean & Green Hamilton Strategy and Our Future Hamilton community vision. Reporting through the Public Works Committee, the KHCG Committee will provide input to staff and Council on issues relating to environmental sustainability and stewardship and advice on approaches to engaging citizens to take greater responsibility to protect and revitalize natural and built environments. The KHCG Committee's primary focus is on effecting behaviours and attitudes conducive to a clean, healthy and safe community through leadership and action.

The Committee will provide input and guidance to City staff, Council and other stakeholders on community and private sector involvement and identification of resources to sustain Clean and Green programs and initiatives that aim to beautify our community, promote environmental stewardship and prevent litter, illegal dumping and graffiti.

1.4 *Accountability*

The KHCG Committee is a Volunteer Advisory Committee that advises Council through the Public Works Committee. The KHCG Committee must comply with the City of Hamilton's Procedural By-law, the Advisory Committee Procedural Handbook and operational policies and procedures.

2 Roles and Responsibilities

The role of the KHCG Committee is to encourage Hamilton residents, property owners and visitors to engage in neighbourhood/community initiatives that aim to beautify our community, promote environmental stewardship and prevent litter, illegal dumping and graffiti.

Appendix “A” to Citizen Committee Report respecting
Keep Hamilton Clean and Green Committee Terms of Reference
Page 2 of 4

This Committee will assist in connecting community volunteers with litter, illegal dumping, graffiti, beautification and environmental stewardship programs as well as promoting desired behaviours in the community that support the Clean & Green Hamilton Strategy and Our Future Hamilton community vision.

The roles and responsibilities of the KHCG Committee include, but are not limited to, the following:

- (a) Provide input and advice to Council, through reports to the Public Works Committee, and City staff on engaging citizens, property owners and visitors in litter, illegal dumping, graffiti, beautification and environmental stewardship programs;
- (b) Demonstrate leadership in action through participation in events and activities;
- (c) Assist with outreach and education opportunities related to litter, illegal dumping, graffiti, beautification and environmental stewardship programs;
- (d) Support City staff with the development of the annual Clean & Green Hamilton Strategy update for City Council;
- (e) Review reports, studies and other documents on litter, illegal dumping, graffiti, beautification and environmental stewardship issues that may be presented to the KHCG Committee by City staff, consultants, community organizations or the public, and to provide input and recommendations regarding these issues;
- (f) Form working groups to deal with specific issues as they arise;
- (g) Assist in identifying and facilitating resolution of community concerns regarding litter, illegal dumping, graffiti, beautification and environmental stewardship; and,
- (h) Attend and actively participate in KHCG Committee meetings, activities and events.

3 Membership

KHCG Committee membership will reflect a broad range of socio-economic and environmental interests in the community, including residents, businesses, education and local organizations.

3.1 General

- (a) Members must declare any conflict of interest issues prior to discussion or decision-making of any matter with which they believe they have a pecuniary interest; and,
- (b) Members are asked to review all documents, agendas and minutes presented to them to make informed decisions.

Some activities of the KHCG Committee may require additional time commitments dependent upon the nature of the project undertaken.

Appendix “A” to Citizen Committee Report respecting
Keep Hamilton Clean and Green Committee Terms of Reference
Page 3 of 4

3.2 Composition

The KHCG Committee shall be comprised of up to 15 voting members and up to six key stakeholders/advisors (non-voting) as follows:

Voting Members:

- Citizen members (up to seven) who will be recruited to represent various backgrounds, ethnicities, genders, geographic areas, ages, etc. within the community;
- Council representative(s) (up to two);
- Youth Representative(s) (up to two – one student from each of the Hamilton-Wentworth District School Board and the Hamilton-Wentworth Catholic District School Board);
- BIA representative (one);
- Chamber of Commerce representative (one); and

Key Stakeholders/Advisors (Non-voting Members):

- Environmental sector representative(s) to voice broader concerns from the local environmental sector/organizations, offer technical advice and expertise and connect the KHCG Committee’s work to local initiatives when feasible (up to three representatives who are employees or board members with an environmental organization that is based in or carries out a significant amount of programming in Hamilton).
- Industrial, Commercial, and Institutional (IC&I) sector representatives to voice broader concerns from the relevant sector, provide insight and enhance the KHCG Committee’s understanding of the sector, and provide opportunities to collaborate with IC&I stakeholders (up to three representatives who are employed with an IC&I organization or facilities based in Hamilton).
- Education Representatives (up to two - one from each of the Hamilton-Wentworth District School Board and the Hamilton-Wentworth Catholic District School Board).

Quorum shall be half of the voting membership rounded up to the nearest whole number. Non-voting members are not counted in determining the number required for quorum or in determining whether or not quorum is present.

KHCG Committee and/or working group membership may be expanded to include further community representation as deemed appropriate, upon approval of Council.

City staff liaison(s) from the Environmental Services Division will be made available to the KHCG Committee as a resource. The Committee may request information or support from other City Divisions and Departments or experts in the field to assist in formulating appropriate decisions and recommendations.

3.3 Attendance and Vacancies

Members of Committee who miss more than three meetings during their term without Committee approval, may be subject to replacement on the Committee and may not be eligible for re-appointment.

Citizen members will be appointed in accordance with the City of Hamilton's Policy respecting the Appointment of Citizens to the City's Agencies, Boards, Commissions, Advisory (Volunteer) Committees and Sub-Committees.

Youth Representatives will be recruited by the Education Representative from each respective School Board.

3.4 Term of Membership

The term of membership for KHCG Committee members coincides with the current term of Council or until such time as successors are appointed by Council.

The term of membership for Youth Representatives may be 1-2 years (coinciding with the regular school term) based on their schedule and availability as a student.